



NR25

Censuses

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E01 OLD LANE LEVEL CROSSING

Job Number	3267-LON-E01
Checked	11/10/2016
Date	10/10/2016
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 Old Lane 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 Census	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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

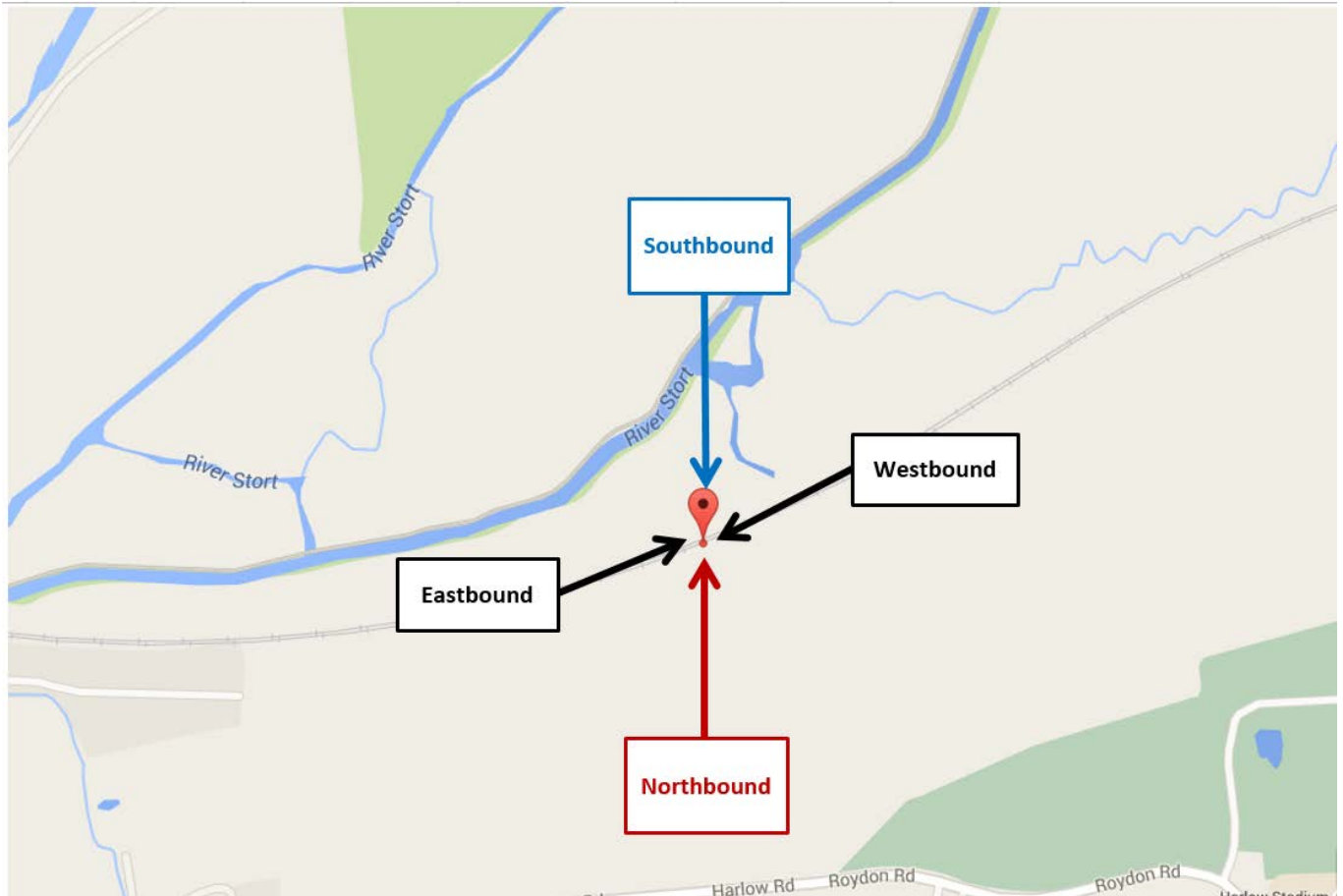
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

E01 Old Lane Level Crossing – Busiest Quarter Hourly Periods

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

No pedestrians were observed to use the level crossing during the period of this census.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 9th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. No vehicles or pedestrians were observed to use 3267-LON Site E01 Old Lane Level Crossing during this census.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	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
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Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Sunny, Windy	Sunny, Windy
Tuesday	12/07/2016	Sunny Periods, Windy	Sunny Periods, Windy
Wednesday	13/07/2016	Sunny, Windy	Sunny, Windy
Thursday	14/07/2016	Sunny	Sunny
Friday	15/07/2016	Sunny	Sunny
Saturday	16/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	17/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E01 Old Lane 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E02 – CAMPS LEVEL CROSSING

Job Number	3267-LON-E02
Checked	11/10/2016
Date	10/10/2016
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 Camps 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

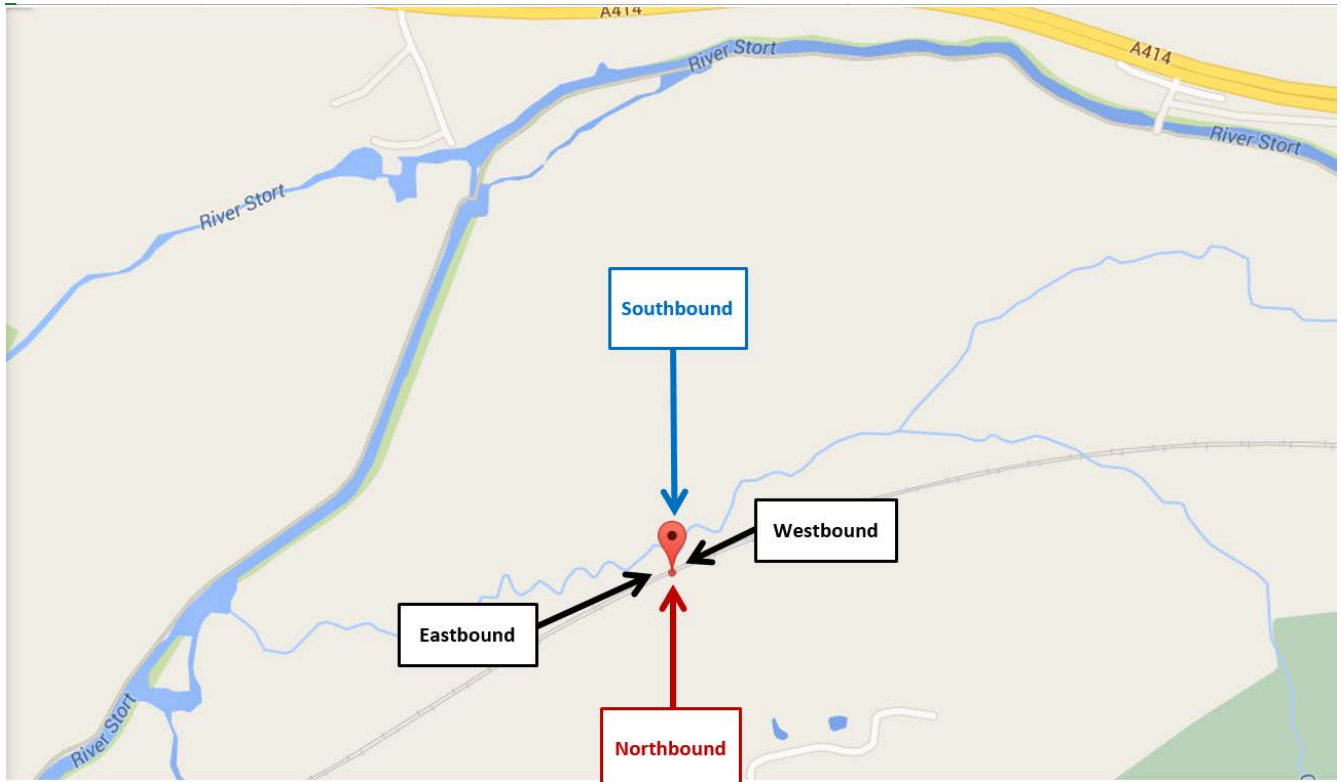
E02 Camps Level Crossing – Busiest Quarter Hourly Periods

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

For pedestrians, the busiest quarter hourly period occurred at 16:45 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 days for 3267-LON Site E02 Camps Level Crossing, are Sunday 10th and Wednesday 13th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	2	0	0	0	0	0	0	0	0	2
Monday 11/07/2016	1	0	0	0	0	0	0	0	0	1
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	2	0	0	0	0	0	0	0	0	2
Thursday 14/07/2016	3	0	0	0	0	0	0	0	0	3
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	1	0	0	0	0	0	1
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	8	0	0	1	0	0	0	0	0	9

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Cloudy	Cloudy
Monday	11/07/2016	Sunny Periods	Sunny Periods
Tuesday	12/07/2016	Sunny	Sunny
Wednesday	13/07/2016	Cloudy	Cloudy
Thursday	14/07/2016	Sunny	Sunny
Friday	15/07/2016	Cloudy	Sunny, Passing Clouds
Saturday	16/07/2016	Sunny	Sunny
Sunday	17/07/2016	Cloudy	Cloudy, Sunny Periods

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E02 Camps 9-Day Census”

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LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E05 – FULLERS END LEVEL CROSSING

Job Number	3267-LON-E05
Checked	
Date	18/01/2017
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 Fullers End 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 9th July 2016 to Sunday 17th 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.

Fullers End Level Crossing – Busiest Quarter Hourly Periods

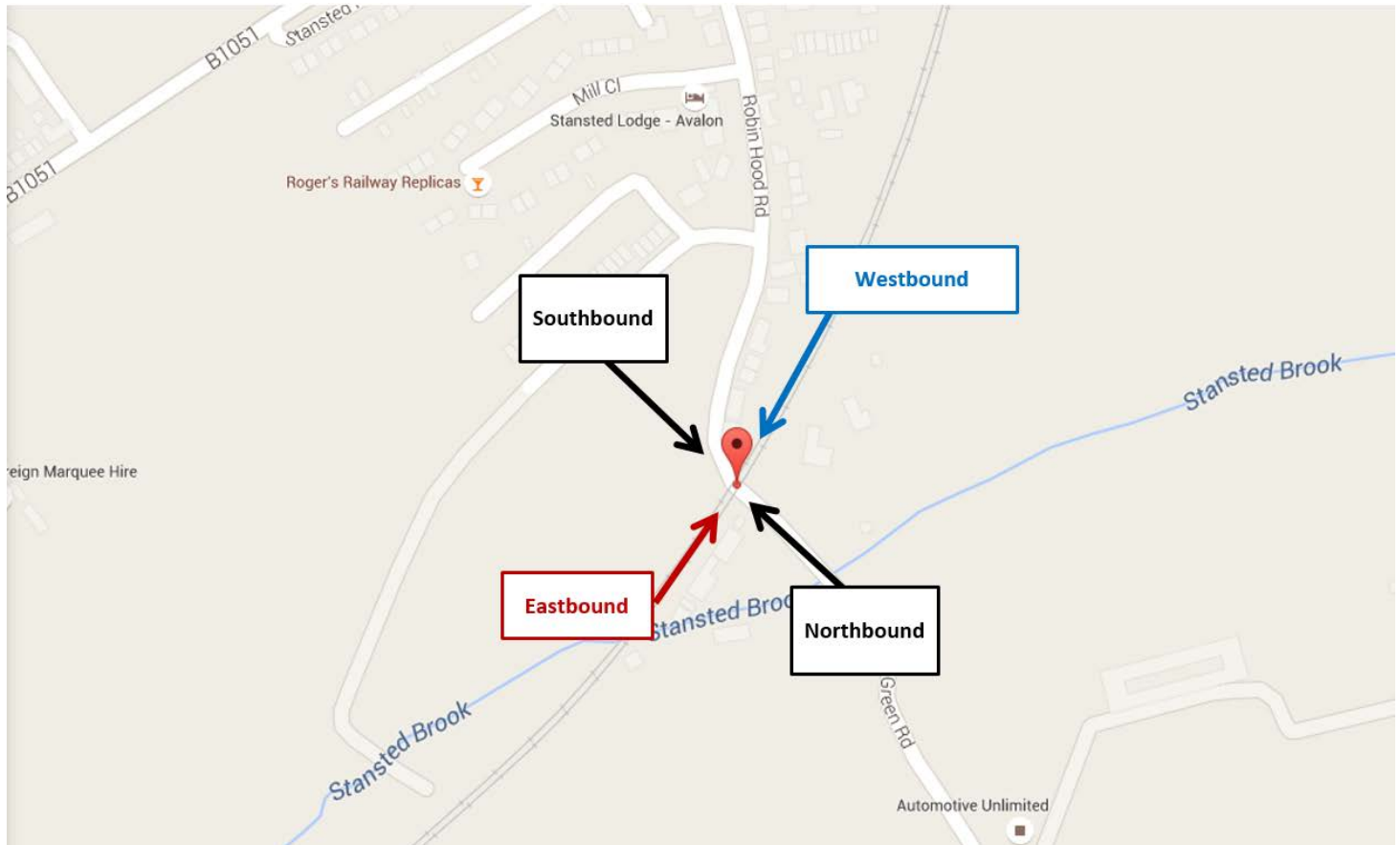
No vehicles, horse-riders or cyclists riding were observed on the level crossing during this census.

The busiest period for cyclists (pushing) was 16:30 on Day 9 with 4 cyclists

For Pedestrians, the busiest quarter hourly period occurred at 16:15 on Day 1* 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 9th July 2016 and continued for nine days until Sunday 17th 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 E05, Fullers End Level Crossing, was Saturday 16th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	40	10	0	0	0	0	2	0	0	52
Sunday 10/07/2016	35	6	0	0	0	0	0	0	4	45
Monday 11/07/2016	33	0	0	0	0	0	0	0	2	35
Tuesday 12/07/2016	36	0	0	0	0	0	0	0	1	37
Wednesday 13/07/2016	41	1	0	0	0	0	0	0	0	42
Thursday 14/07/2016	49	0	0	0	0	0	0	0	2	51
Friday 15/07/2016	32	1	0	0	0	0	0	0	1	34
Saturday 16/07/2016	54	6	0	0	0	0	0	0	0	60
Sunday 17/07/2016	41	3	0	0	0	0	0	0	0	44
	361	27	0	0	0	0	2	0	10	400

Equestrians and cyclists

Equestrian, mounted	Equestrian, walking	Bicycle riding	Bicycle walking	Total
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Saturday 09/07/2016	0	0	0	7	7
Sunday 10/07/2016	0	0	0	10	10
Monday 11/07/2016	0	0	1	0	1
Tuesday 12/07/2016	0	0	0	0	0
Wednesday 13/07/2016	0	0	2	2	4
Thursday 14/07/2016	0	0	0	2	2
Friday 15/07/2016	0	0	2	0	2
Saturday 16/07/2016	0	0	0	7	7
Sunday 17/07/2016	0	0	2	14	16
	0	0	7	42	49

Weather

AM

PM

Saturday	09/07/2016	Sunny, Clear	Cloudy, Windy
Sunday	10/07/2016	Cloudy	Sunny, Windy
Monday	11/07/2016	Sunny, Clear	Sunny, Clear
Tuesday	12/07/2016	Sunny, Clear	Sunny, Clear
Wednesday	13/07/2016	Sunny, Clear	Sunny, Clear
Thursday	14/07/2016	Sunny, Clear	Sunny, Clear
Friday	15/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	16/07/2016	Sunny, Clear	Sunny, Clear
Sunday	17/07/2016	Sunny, Clear	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E05 Fullers End Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E07 – UGLEY LANE LEVEL CROSSING

Job Number	3267-LON-E07
Checked	11/10/2016
Date	10/10/2016
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 Ugley Lane 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 9th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

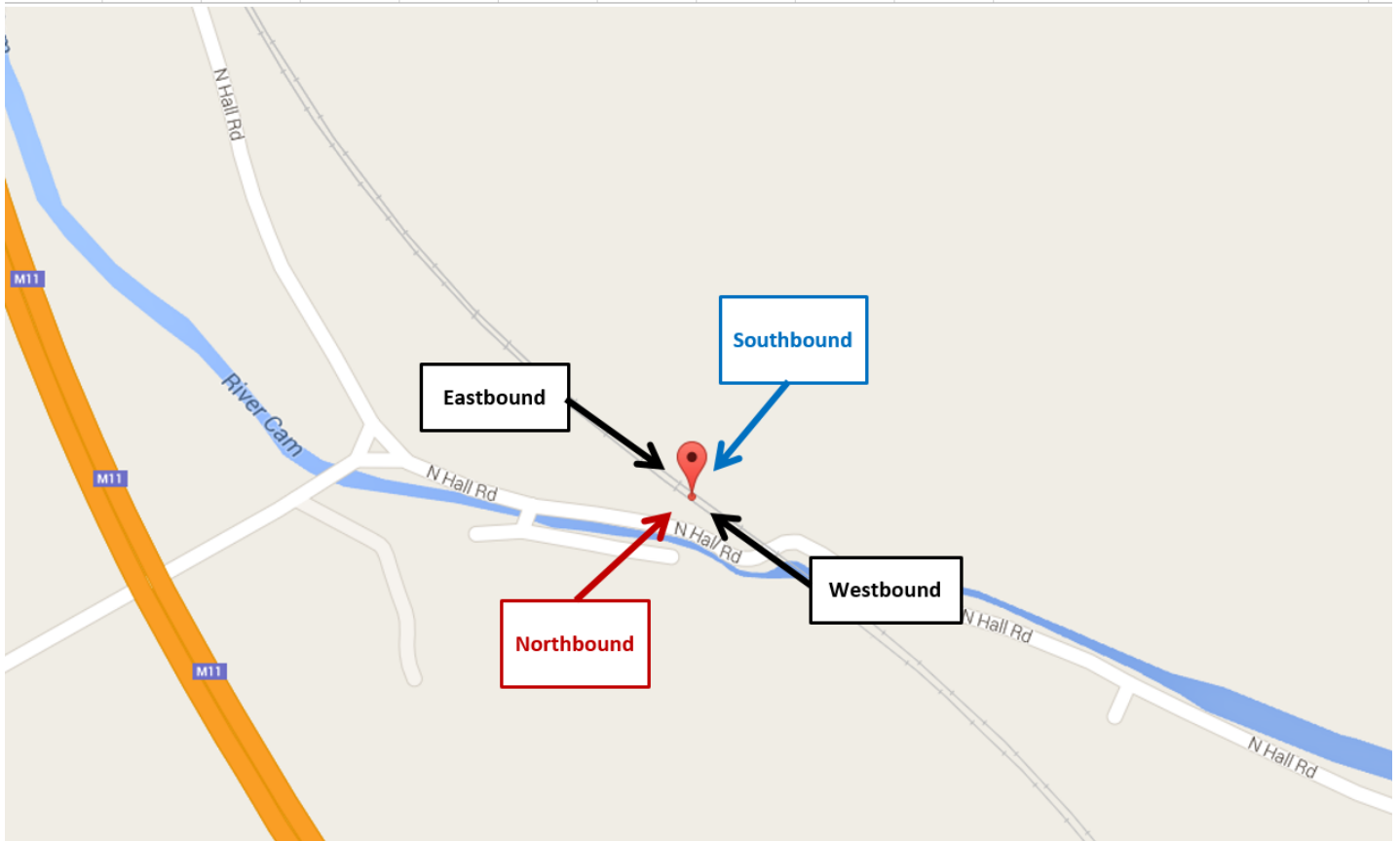
The crossings the daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant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

E07 Ugley Lane Level Crossing – Busiest Quarter Hourly Periods

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

No pedestrians were observed to use the level crossing during the period of this census.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 9th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. No vehicles or pedestrians were observed to use 3267-LON Site E07 Ugley Lane Level Crossing during this census.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	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
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Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy	Cloudy
Sunday	10/07/2016	Cloudy	Sunny, Passing Clouds
Monday	11/07/2016	Cloudy	Sunny, Passing Clouds
Tuesday	12/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Wednesday	13/07/2016	Sunny, Clear	Sunny, Clear
Thursday	14/07/2016	Sunny, Clear	Sunny, Clear
Friday	15/07/2016	Dry, Passing Clouds	Dry, Passing Clouds
Saturday	16/07/2016	Dry, Passing Clouds	Sunny, Passing Clouds
Sunday	17/07/2016	Dry, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E07 Ugley Lane 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E08 – HENHAM LEVEL CROSSING

Job Number	3267-LON-E08
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Date	10/10/2016
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 Henham Wood 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

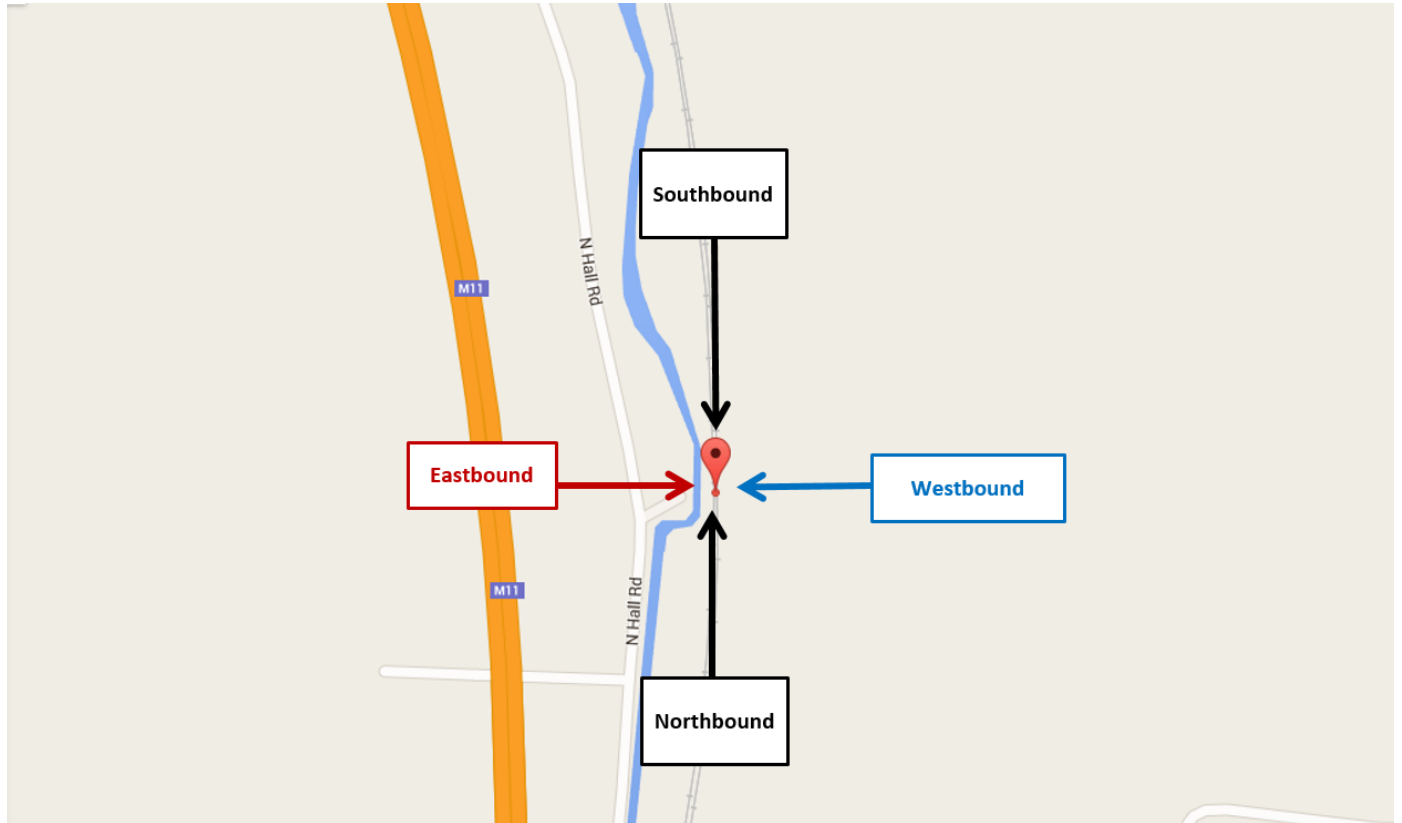
Site E08 Henham Wood Level Crossing – Busiest Quarter Hourly Periods

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

For pedestrians, the busiest quarter hourly period occurred at 15:00 on Day 6 with 1 pedestrian*.

* 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E08 Henham Wood Level Crossing, is Friday 15th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	1	0	0	0	0	0	1
Friday 15/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 16/07/2016	1	0	0	0	0	0	0	0	0	1
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	3	0	0	1	0	0	0	0	0	4

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Cloudy, Windy	Sunny, Windy
Monday	11/07/2016	Cloudy, Windy	Sunny, Windy
Tuesday	12/07/2016	Sunny	Sunny, Windy
Wednesday	13/07/2016	Cloudy, Windy	Sunny, Windy
Thursday	14/07/2016	Sunny	Sunny
Friday	15/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	16/07/2016	Sunny	Sunny, Windy
Sunday	17/07/2016	Cloudy, Windy	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E08 Henham Wood 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E09 – ELEPHANT LEVEL CROSSING

Job Number	3267-LON-E09
Checked	11/10/2016
Date	10/10/2016
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 Elephant 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 census was undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 9th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

Site E09 Elephant Level Crossing – Busiest Quarter Hourly Periods

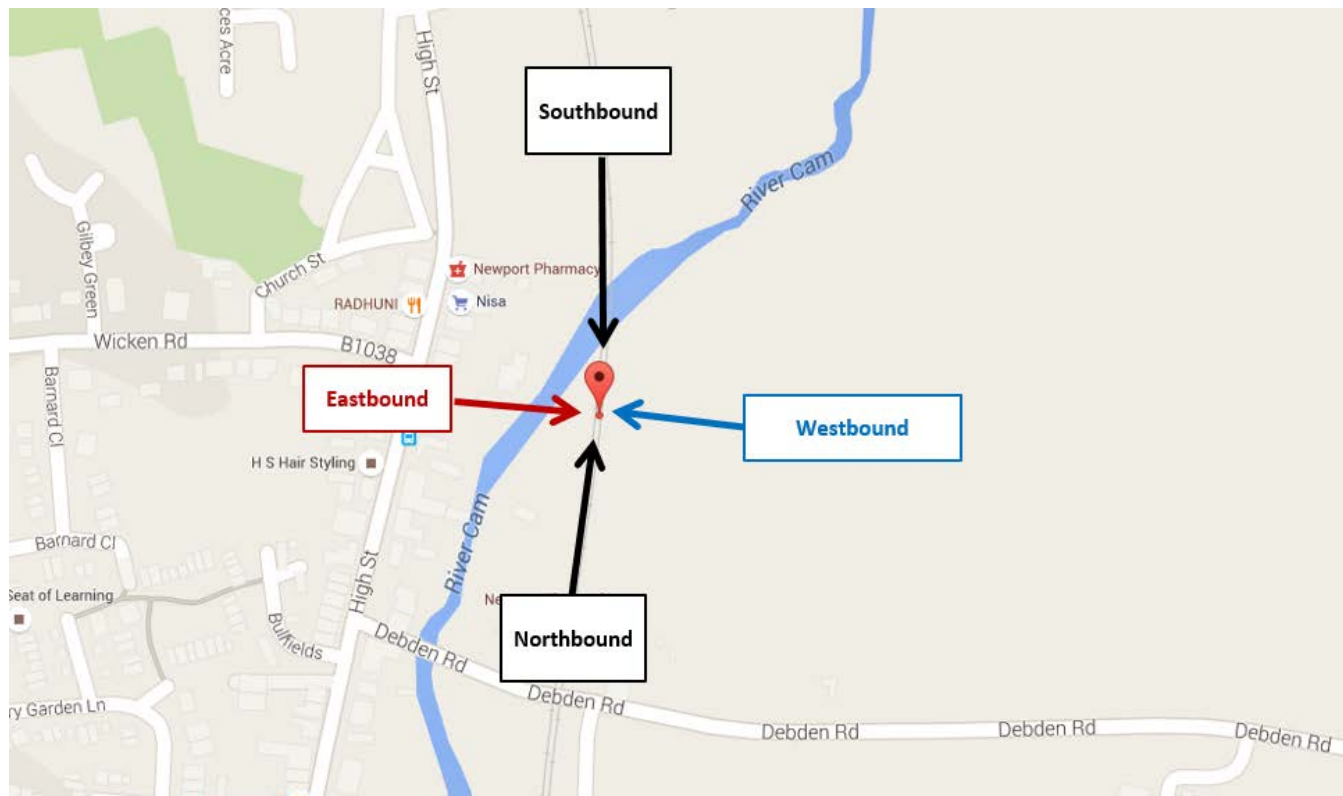
No cyclists or horse-riders were observed on the level crossing during this census.

No pedestrians crossed the level crossing during this survey period as the crossing was closed.

However at the following times pedestrians did turn away at the level crossing from the Eastbound direction–

- Saturday 9th 08:30 1 Adult
- Saturday 9th 19:15 1 Adult
- Sunday 10th 10:15 1 Adult
- Sunday 10th 13:45 1 Adult
- Sunday 10th 17:15 2 Unaccompanied Children

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 9th July 2016 and continued for nine days until Sunday 17th 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 vehicles or pedestrians were observed to use 3267-LON Site E09 Elephant Level Crossing during this census.

Pedestrians

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

Saturday	09/07/2016	0	0	0	0	0	0	0	0	0
Sunday	10/07/2016	0	0	0	0	0	0	0	0	0
Monday	11/07/2016	0	0	0	0	0	0	0	0	0
Tuesday	12/07/2016	0	0	0	0	0	0	0	0	0
Wednesday	13/07/2016	0	0	0	0	0	0	0	0	0
Thursday	14/07/2016	0	0	0	0	0	0	0	0	0
Friday	15/07/2016	0	0	0	0	0	0	0	0	0
Saturday	16/07/2016	0	0	0	0	0	0	0	0	0
Sunday	17/07/2016	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
--------	-----------------	-----------------	-------

Saturday	09/07/2016			
Sunday	10/07/2016			
Monday	11/07/2016			
Tuesday	12/07/2016	0	0	0
Wednesday	13/07/2016	0	0	0
Thursday	14/07/2016	0	0	0
Friday	15/07/2016	0	0	0
Saturday	16/07/2016	0	0	0
Sunday	17/07/2016	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	09/07/2016	Sunny, Windy	Sunny, Windy
Sunday	10/07/2016	Sunny, Windy	Sunny, Windy
Monday	11/07/2016	Sunny, Windy	Sunny, Windy
Tuesday	12/07/2016	Sunny	Sunny
Wednesday	13/07/2016	Sunny	Sunny
Thursday	14/07/2016	Sunny	Sunny
Friday	15/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	16/07/2016	Sunny	Sunny
Sunday	17/07/2016	Windy	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E09 Elephant 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E10 – DIXIES LEVEL CROSSING

Job Number	3267-LON-E10
Checked	11/10/2016
Date	10/10/2016
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 Dixies 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

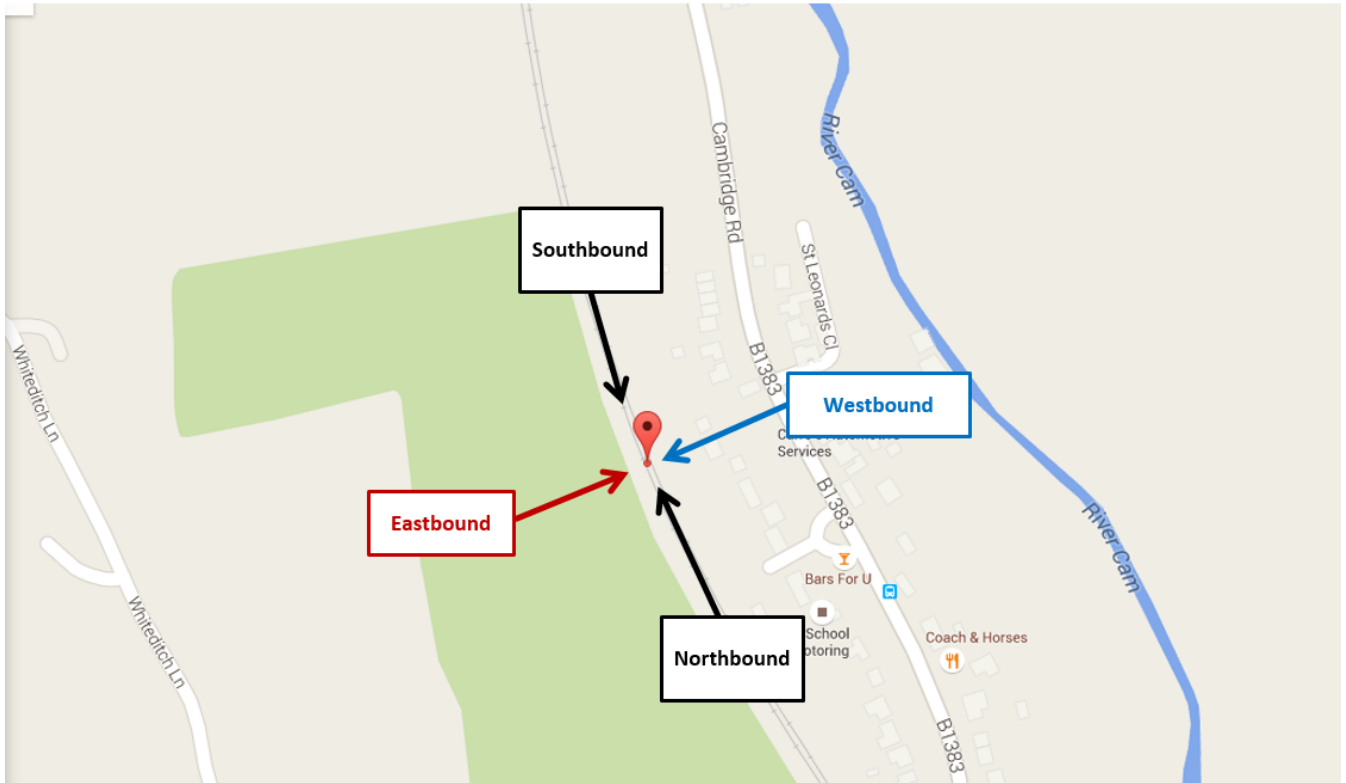
Site E10 Dixies Level Crossing – Busiest Quarter Hourly Periods

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 5 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E10 Dixies Level Crossing, is Monday 11th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	6	0	0	0	0	0	0	0	0	6
Monday 11/07/2016	9	0	0	0	0	0	0	0	0	9
Tuesday 12/07/2016	8	0	0	0	0	0	0	0	0	8
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	3	1	0	0	0	0	0	0	0	4
Friday 15/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 16/07/2016	1	0	0	0	0	0	0	0	0	1
Sunday 17/07/2016	4	0	0	0	0	0	0	0	0	4
	33	1	0	0	0	0	0	0	0	34

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy	Cloudy, Sunny Periods
Sunday	10/07/2016	Cloudy	Sunny, Passing Clouds
Monday	11/07/2016	Passing Clouds, Windy	Passing Clouds, Windy
Tuesday	12/07/2016	Cloudy	Sunny, Passing Clouds
Wednesday	13/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Thursday	14/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	15/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	16/07/2016	Sunny	Sunny
Sunday	17/07/2016	Cloudy, Sunny Periods	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E10 Dixies 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E11 – WINDMILLS LEVEL CROSSING

Job Number	3267-LON-E11
Checked	11/10/2016
Date	10/10/2016
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 Windmills 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

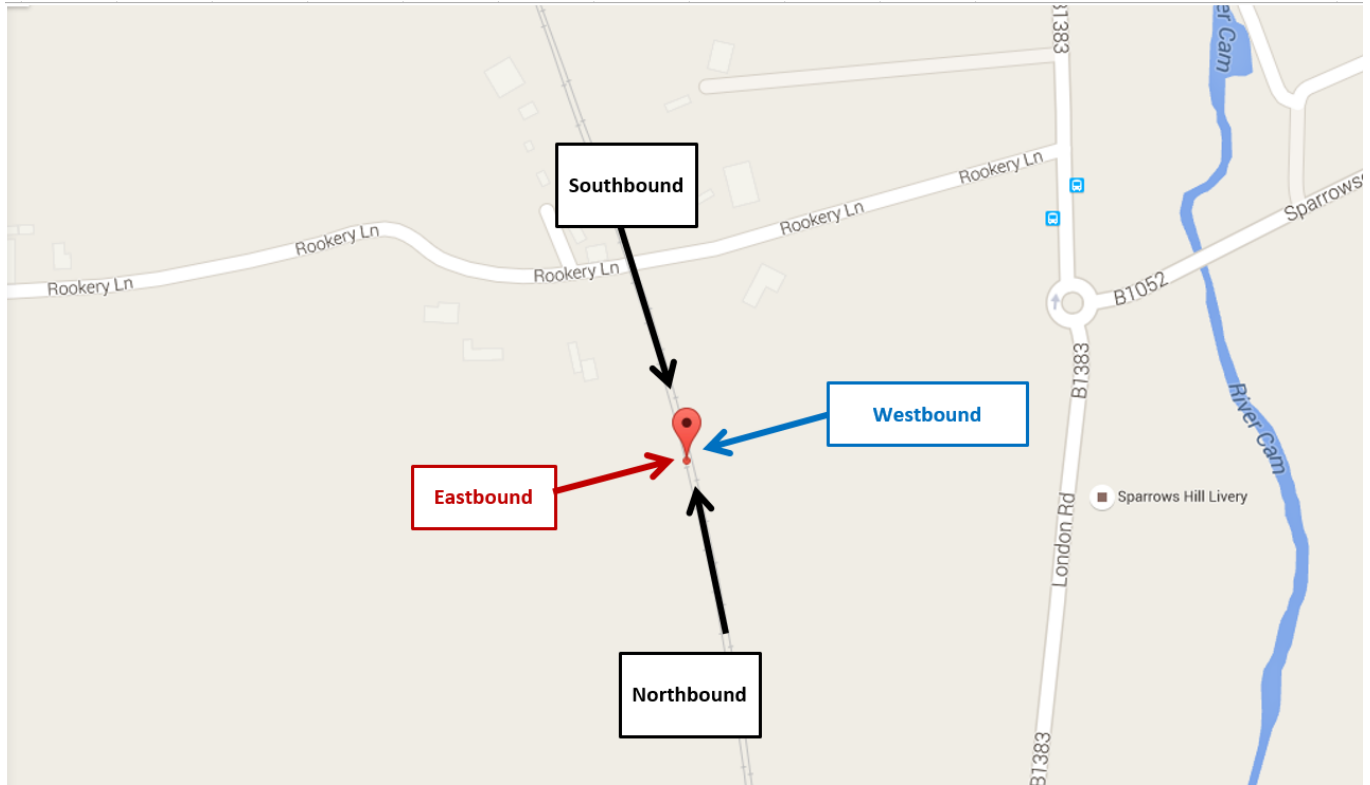
The crossings the daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant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

Site E11 Windmills 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 13:30 on Day 8 with 4 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E11, Windmills Level Crossing, is Saturday 16th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	2	0	0	0	0	0	0	0	0	2
Sunday 10/07/2016	2	0	0	0	0	0	0	0	0	2
Monday 11/07/2016	1	0	0	0	0	0	0	0	0	1
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	1	0	0	0	0	0	0	0	0	1
Thursday 14/07/2016	1	0	0	0	0	0	0	0	0	1
Friday 15/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 16/07/2016	4	3	0	0	0	0	0	0	0	7
Sunday 17/07/2016	2	0	0	0	0	0	0	0	0	2
	14	3	0	0	0	0	0	0	0	17

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Overcast, Rain	Sunny, Windy
Monday	11/07/2016	Cloudy, Windy	Sunny, Windy
Tuesday	12/07/2016	Sunny, Rain later	Cloudy, Rain Periods
Wednesday	13/07/2016	Cloudy	Sunny
Thursday	14/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Friday	15/07/2016	Cloudy, Windy	Cloudy, Windy
Saturday	16/07/2016	Sunny, Windy	Sunny, Windy
Sunday	17/07/2016	Sunny, Windy	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E11 Windmills 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E13 – LITTLEBURY GATE HOUSE LEVEL CROSSING

Job Number	3267-LON-E13
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	3



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Littlebury Gate House 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 9th July 2016 to Sunday 17th 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.

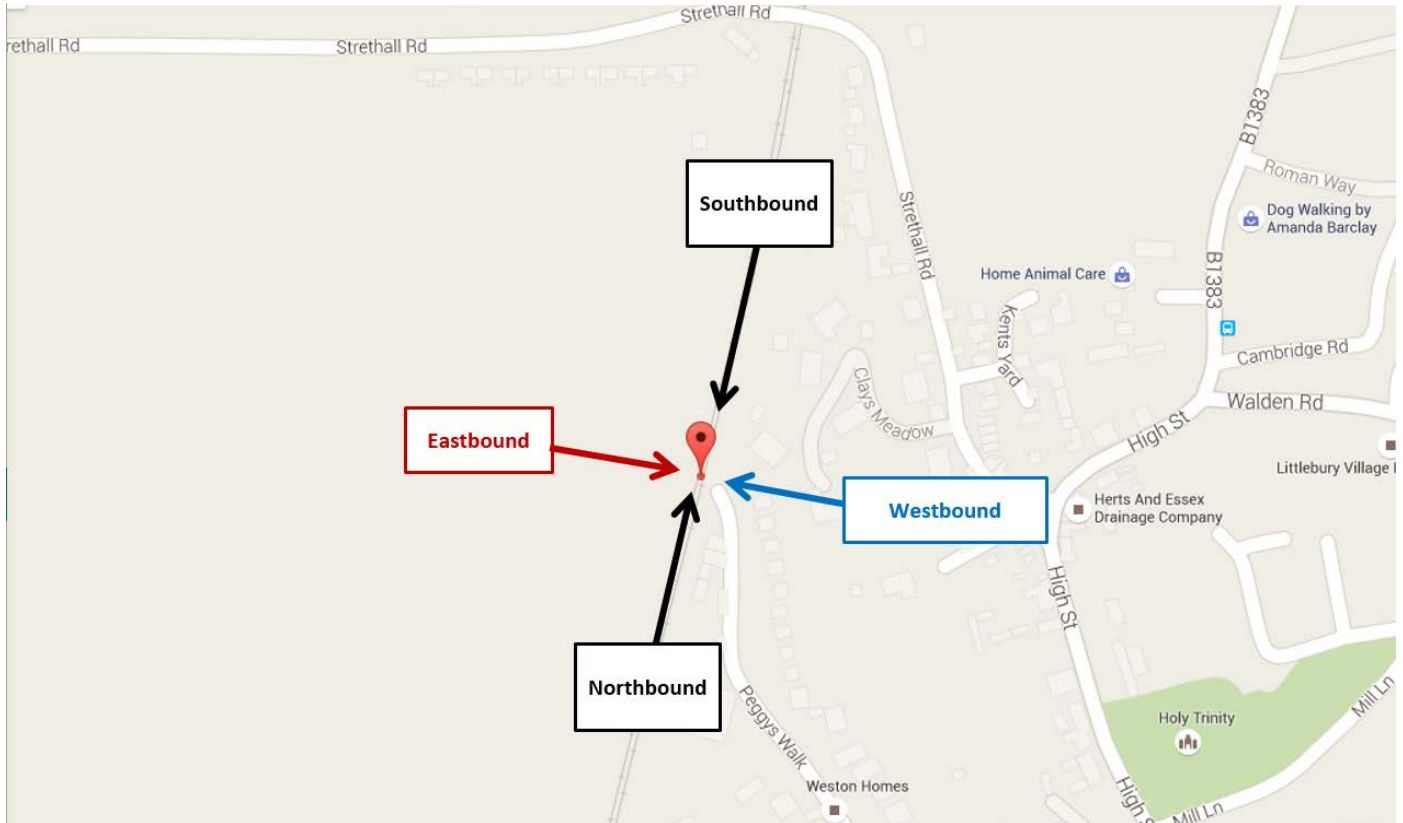
Littlebury Gate House Level Crossing – Busiest Quarter Hourly Periods

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

5 cyclists were observed, all pushing their cycles; 4 on Day 2, and 1 on Day 9.

For pedestrians, the busiest quarter hourly period occurred at 21:45 on Day 8 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 9th July 2016 and continued for nine days until Sunday 17th 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 E13, Littlebury Gate House Level Crossing, was Sunday 10th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	9	0	0	0	0	0	0	0	0	9
Sunday 10/07/2016	19	0	0	0	0	0	0	0	0	19
Monday 11/07/2016	12	0	0	0	0	0	0	0	0	12
Tuesday 12/07/2016	5	0	1	0	0	0	0	0	0	6
Wednesday 13/07/2016	11	0	3	0	0	0	0	0	0	14
Thursday 14/07/2016	10	0	4	0	0	0	0	0	0	14
Friday 15/07/2016	7	0	6	0	0	0	0	0	0	13
Saturday 16/07/2016	20	4	0	0	0	0	0	0	0	24
Sunday 17/07/2016	19	1	0	0	0	0	0	0	0	20
	112	5	14	0	0	0	0	0	0	131

Equestrians and cyclists

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

Saturday 09/07/2016	0	0	0	0	0
Sunday 10/07/2016	0	0	0	4	4
Monday 11/07/2016	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0
Sunday 17/07/2016	0	0	0	1	1
	0	0	0	5	5

Weather

AM

PM

Saturday	09/07/2016	Cloudy	Cloudy
Sunday	10/07/2016	Cloudy	Cloudy
Monday	11/07/2016	Sunny Periods, Passing Clouds	Sunny Periods, Passing Clouds
Tuesday	12/07/2016	Overcast, Rain	Overcast, Rain, Dries up later on
Wednesday	13/07/2016	Cloudy	Cloudy
Thursday	14/07/2016	Sunny	Sunny
Friday	15/07/2016	Sunny	Sunny
Saturday	16/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	17/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E13 Littlebury Gate House Census”

MOTT MacDONALD

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E15 – PARSONAGE LANE - MARGARETTING LEVEL CROSSING

Job Number	3267-LON-E15
Checked	
Date	02-02-2017
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 Parsonage 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 9th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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:

- The Number of Road Vehicles Using the Crossing by Direction, Classified to:
 1. Cars
 2. Light Goods Vehicles
 3. Motorcycles
 4. Heavy Goods Vehicles
 5. Agricultural Vehicles
 6. Buses
 7. Equestrians, mounted
 8. Equestrians, walking
 9. Pedal Cycles being ridden
 10. Pedal Cycles being walked
 11. Herded Animals
 12. Large/Slow Vehicles
- 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.

Site E15 Parsonage Lane Level Crossing – Busiest Quarter Hourly Periods

For Cars/Lgvs, the busiest quarter hourly period occurred at 11:30 on Day 4 with 4 vehicles.

For Hgvs/Large Vehicles, the busiest quarter hourly period occurred at 14:00 on Day 4 with 2 vehicles.

For Vehicles, the busiest quarter hourly period occurred at 11:30 on Day 4 with 4 vehicles.

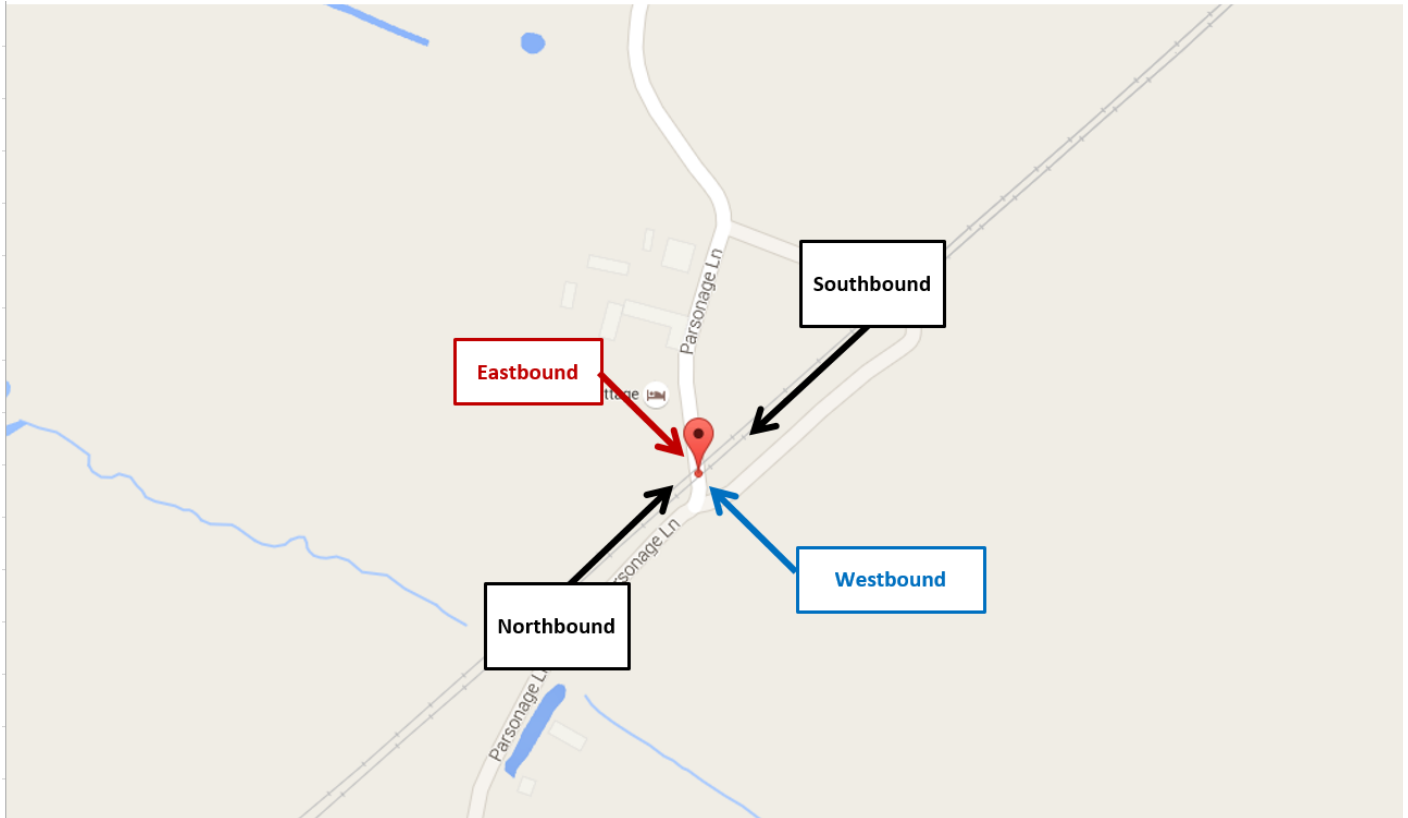
No horse-riders were observed on the level crossing during this census.

2 cyclists were observed (both walking their bicycles) at 20:45 on Day 2. These were the only two cyclists observed during the course of the census.

For Pedestrians, the busiest quarter hourly period occurred at 10:15 on Day 1 with 14 pedestrians.

Overall, the busiest quarter hourly period occurred at 10:15 on Day 1 with 14 pedestrians (no vehicles).

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 9th July 2016 and continued for nine days until Sunday 17th 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 E15 Parsonage Lane Level Crossing, is Saturday 9th July 2016.

Vehicles

	Car	Lgv	Mcl	Hgv	Tractor & Trailers	Bus	Eques- trian, mounted	Eques- trian, walking	Riding Bicycle	Walking Bicycle	Herded Animals & Horses	Large / Slow Vehicle s	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	2	0	0	0	0	0	0	0	2	0	0	4
Monday 11/07/2016	3	1	0	0	0	0	0	0	0	0	0	0	4
Tuesday 12/07/2016	2	2	0	2	0	0	0	0	0	0	0	0	6
Wednesday 13/07/2016	4	4	0	0	0	0	0	0	0	0	0	0	8
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	9	0	2	0	0	0	0	0	2	0	0	22

Pedestrians

	Adult	Accom- panied Child	Unaccom- panied Child	Elderly	Impaired	Wheel- chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	37	0	1	0	0	0	0	0	0	38
Sunday 10/07/2016	4	0	0	0	0	0	0	0	0	4
Monday 11/07/2016	8	2	0	0	0	0	0	0	0	10
Tuesday 12/07/2016	7	0	0	0	0	0	0	0	0	7
Wednesday 13/07/2016	5	0	0	0	0	0	0	0	0	5
Thursday 14/07/2016	4	0	0	0	0	0	0	0	0	4
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	65	2	1	0	0	0	0	0	0	68

Weather

AM

PM

Saturday	09/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Cloudy, Windy	Cloudy, Windy, Sunny Periods
Tuesday	12/07/2016	Cloudy, Windy, Sunny Periods	Cloudy, Windy, Sunny Periods
Wednesday	13/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Thursday	14/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	15/07/2016	Dry	Dry
Saturday	16/07/2016	Dry	Dry
Sunday	17/07/2016	Dry	Dry

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E15 Margaretting Parsonage Lane 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E19 POTTERS LEVEL CROSSING

Job Number	3267-LON-E19
Checked	20/10/2016
Date	20/10/2016
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 census at Potters 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

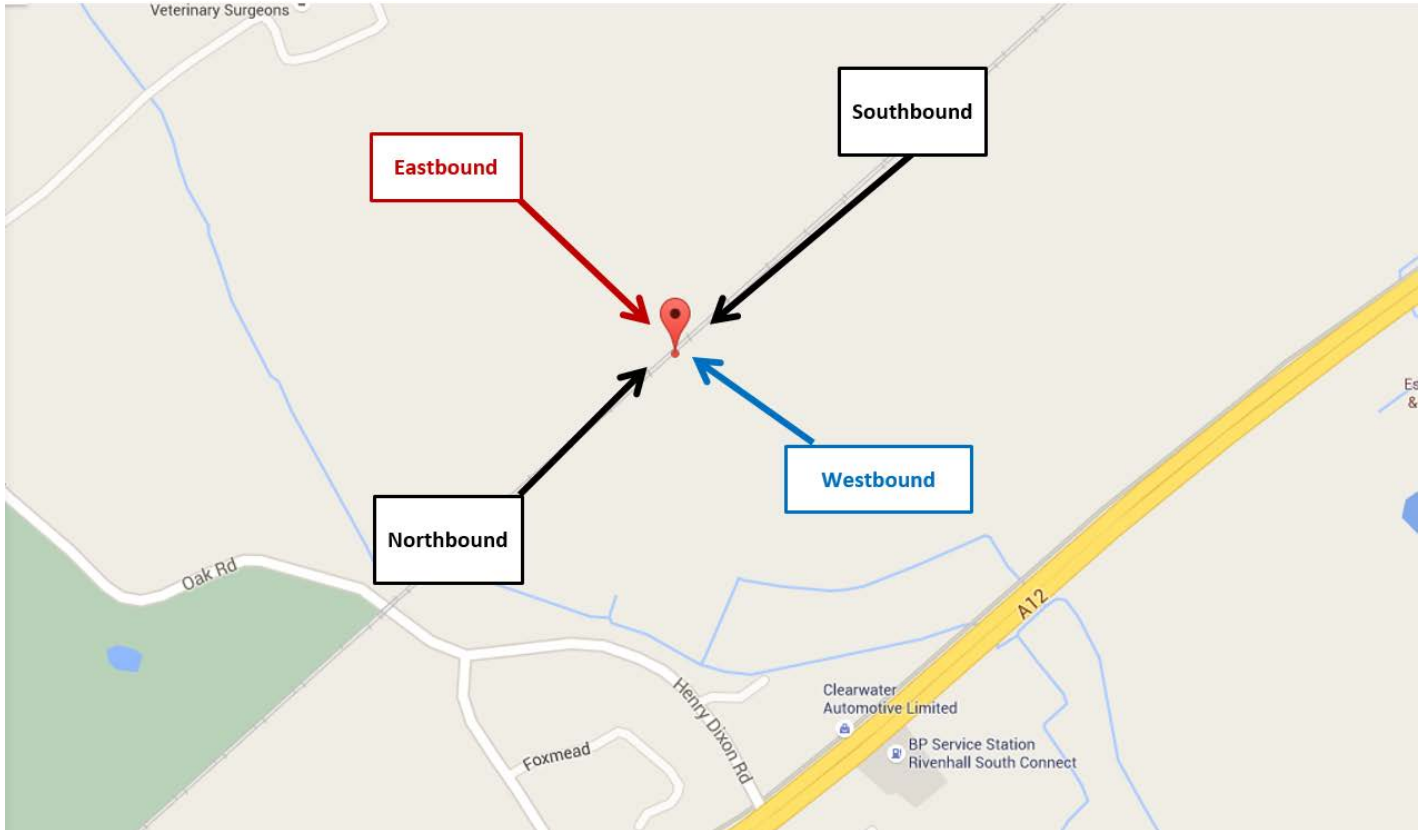
Site E19 Potters Level Crossing – Busiest Quarter Hourly Periods

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

For pedestrians, the busiest quarter hourly period occurred at 14:00 on Day 2 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E19, Potters Level Crossing, is Sunday 10th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	5	0	0	0	0	0	0	0	0	5
Sunday 10/07/2016	10	0	12	0	0	0	0	0	0	22
Monday 11/07/2016	7	0	0	0	0	0	0	0	0	7
Tuesday 12/07/2016	8	0	0	0	0	0	0	0	0	8
Wednesday 13/07/2016	8	0	0	0	0	0	0	0	0	8
Thursday 14/07/2016	15	0	0	0	0	0	0	0	0	15
Friday 15/07/2016	7	0	0	0	0	0	0	0	0	7
Saturday 16/07/2016	4	0	0	0	0	0	0	0	0	4
Sunday 17/07/2016	2	0	0	0	0	0	0	0	0	2
	66	0	12	0	0	0	0	0	0	78

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	10/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Monday	11/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	12/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Wednesday	13/07/2016	Sunny Periods, Cloudy, Windy	Sunny Periods, Cloudy, Windy
Thursday	14/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	15/07/2016	Sunny	Sunny
Saturday	16/07/2016	Sunny	Sunny
Sunday	17/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E19 Potters 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E20 – SNIVILLERS LEVEL CROSSING

Job Number	3267-LON-S20
Checked	11/10/2016
Date	10/10/2016
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 Snivillers 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 were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

Sit S20 Snivillers 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 10:00 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 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 9th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 S20 Snivillers Level Crossing, is Sunday 17th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	1	0	0	0	0	0	0	0	0	1
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	1	0	0	0	0	0	0	0	0	1
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 16/07/2016	1	0	0	0	0	0	0	0	0	1
Sunday 17/07/2016	4	0	0	0	0	0	0	0	0	4
	8	0	0	0	0	0	0	0	0	8

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Cloudy, Windy	Sunny, Windy
Tuesday	12/07/2016	Sunny	Sunny
Wednesday	13/07/2016	Cloudy	Cloudy, Sunny Periods
Thursday	14/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Friday	15/07/2016	Sunny	Sunny
Saturday	16/07/2016	Sunny	Sunny
Sunday	17/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S20 Snivillers 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E22 – GREAT DOMSEY LEVEL CROSSING

Job Number	3267-LON-E22
Checked	11/10/2016
Date	10/10/2016
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 Great Domsey 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

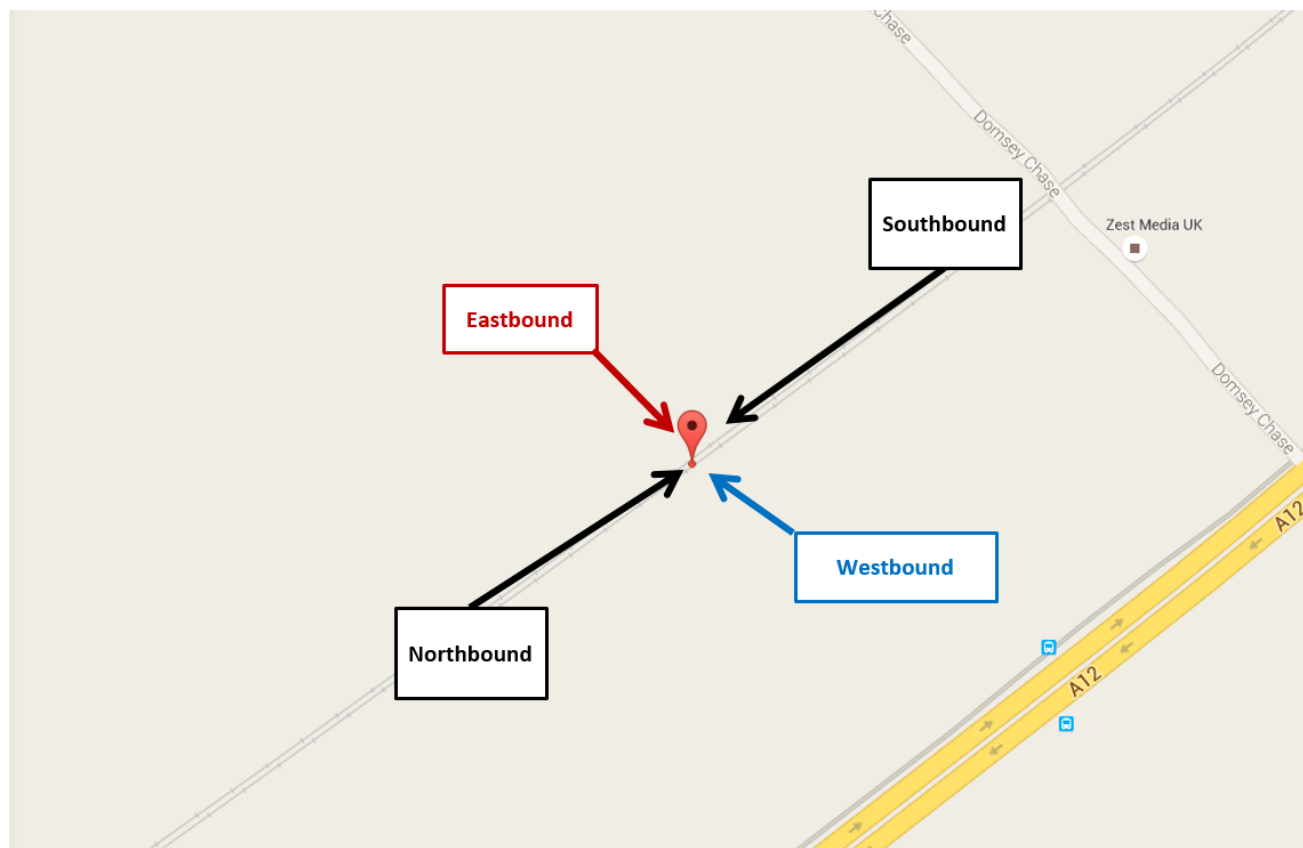
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Site E22 Great Domsey Level Crossing – Busiest Quarter Hourly Periods

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

No pedestrians were observed to use the level crossing during the period of this census.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 9th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. No vehicles or pedestrians were observed to use 3267-LON Site E22 Great Domsey Level Crossing during this census..

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	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 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Cloudy, Windy	Cloudy, Windy, Sunny Periods
Tuesday	12/07/2016	Cloudy, Windy	Cloudy, Windy, Sunny Periods
Wednesday	13/07/2016	Cloudy, Windy, Sunny Periods	Cloudy, Windy, Sunny Periods
Thursday	14/07/2016	Windy, Sunny Periods	Windy, Sunny Periods
Friday	15/07/2016	Windy, Sunny Periods	Windy, Sunny Periods
Saturday	16/07/2016	Windy, Sunny Periods	Windy, Sunny Periods
Sunday	17/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E22 Great Domsey 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E26 BARBARA CLOSE LEVEL CROSSING

Job Number	3267-LON-E26
Checked	20/10/2016
Date	20/10/2016
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 Barbara Close 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

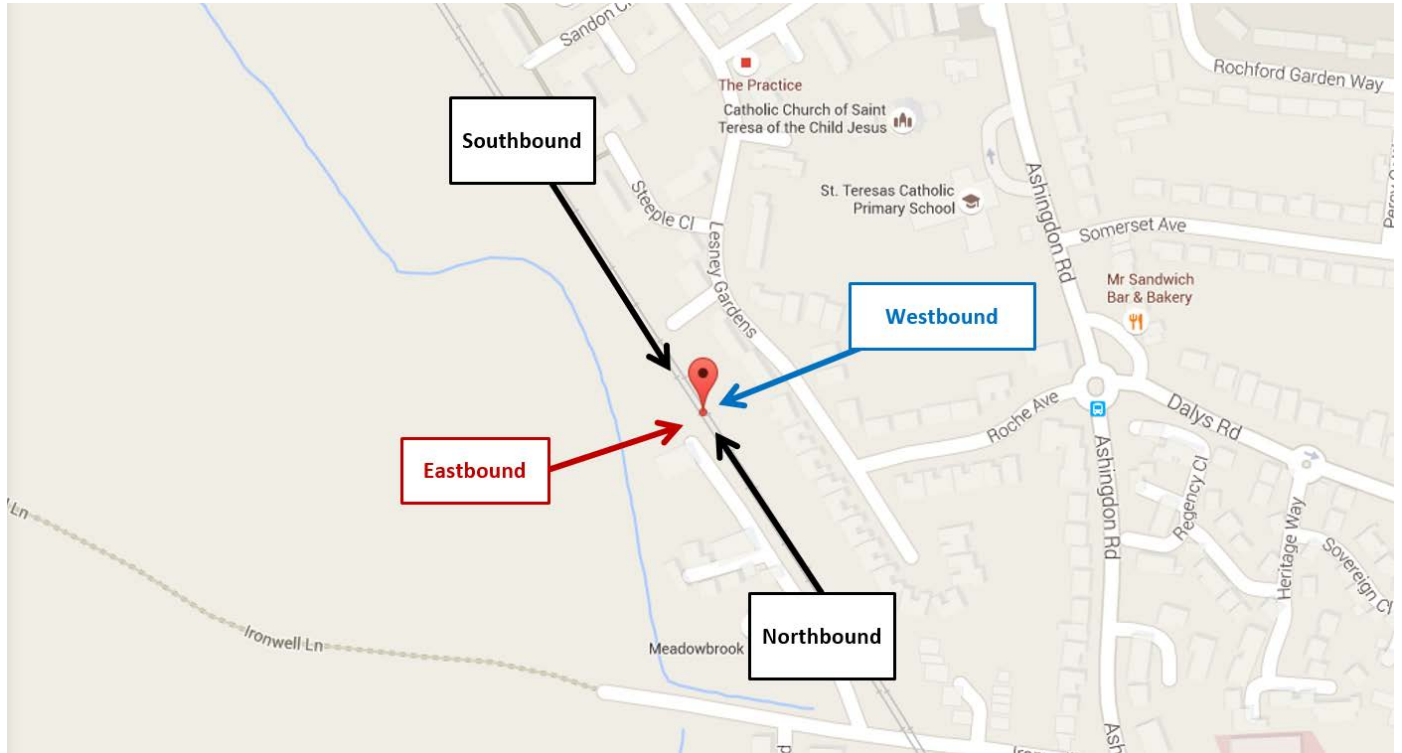
For each of the crossings the daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below for each level crossing. In addition, Tracsis Traffic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

Site E26 Barbara Close 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 09:45 on Day 2 with 13 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 9th July 2016 and continued for six days until Thursday 14th July 2016, and then from Friday 22nd July 2016 to Sunday 24th 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 E26 Barbara Close Level Crossing, is Sunday 10th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	18	1	0	0	0	0	0	0	2	21
Sunday 10/07/2016	26	0	0	0	0	0	0	0	0	26
Monday 11/07/2016	7	0	0	0	0	0	0	0	0	7
Tuesday 12/07/2016	4	0	0	0	0	0	0	0	0	4
Wednesday 13/07/2016	12	0	1	0	0	0	0	0	0	13
Thursday 14/07/2016	22	0	0	0	0	0	0	0	0	22
Friday 22/07/2016	4	0	0	0	0	0	0	0	0	4
Saturday 23/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 24/07/2016	0	0	0	0	0	0	0	0	0	0
	93	1	1	0	0	0	0	0	2	97

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 22/07/2016	0	0	0
Saturday 23/07/2016	0	0	0
Sunday 24/07/2016	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	09/07/2016	Sunny	Sunny
Sunday	10/07/2016	Sunny	Sunny, Windy
Monday	11/07/2016	Cloudy, Windy	Cloudy, Windy, Sunny Periods, bit of Rain
Tuesday	12/07/2016	Cloudy	Overcast, Rain
Wednesday	13/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Thursday	14/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	22/07/2016	Sunny	Sunny
Saturday	23/07/2016	Sunny	Sunny
Sunday	24/07/2016	Sunny, Windy	Sunny, Windy

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E26 Barbara Close 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E28 – WHIPPS FARMERS LEVEL CROSSING

Job Number	3267-LON-E28
Checked	11/10/2016
Date	10/10/2016
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 Whipps Farmers 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 9th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

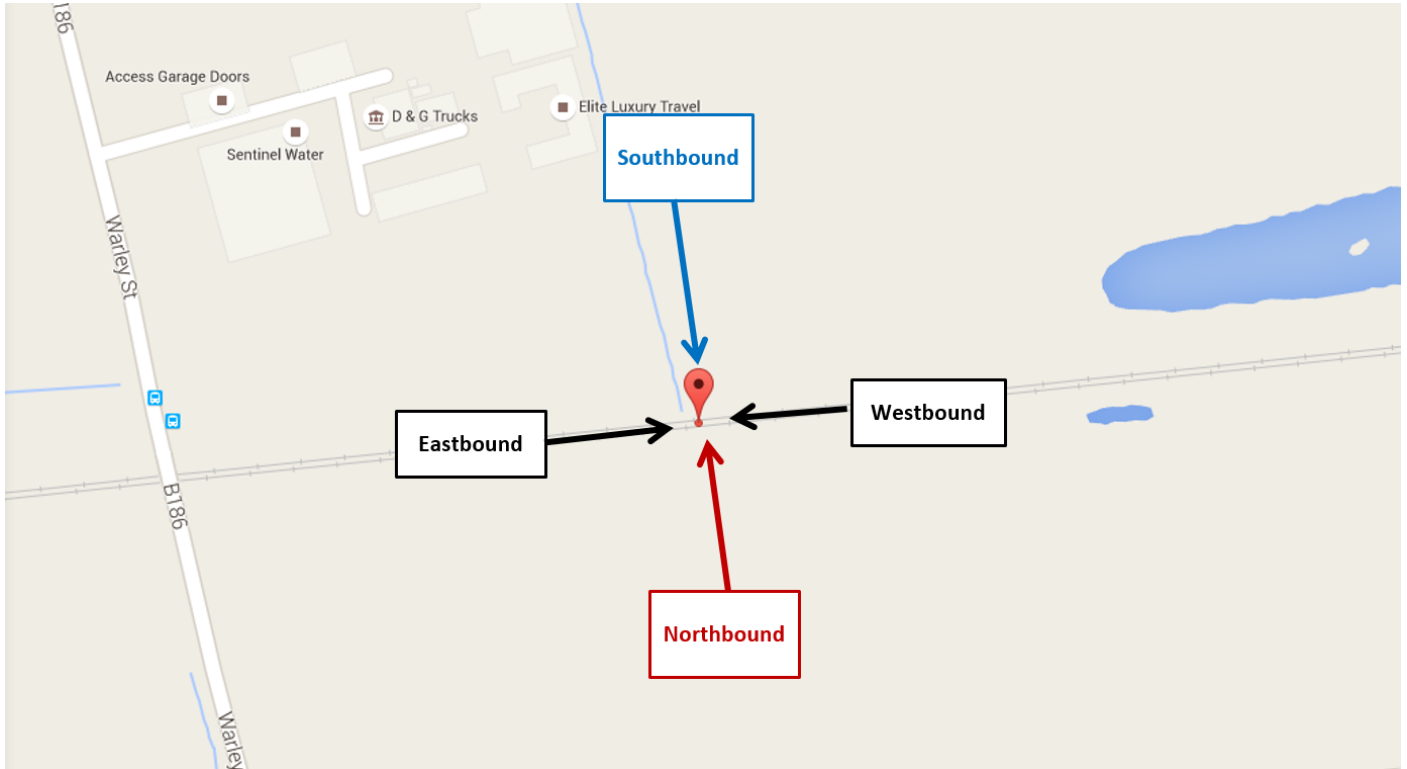
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Site E28 Whipps Farmers Level Crossing – Busiest Quarter Hourly Periods

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

No pedestrians were observed to use the level crossing during the period of this census.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 9th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. No vehicles or pedestrians were observed to use 3267-LON Site E28 Whipps Farmers Level Crossing during this census.

Pedestrians

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

Saturday	09/07/2016	0	0	0	0	0	0	0	0	0
Sunday	10/07/2016	0	0	0	0	0	0	0	0	0
Monday	11/07/2016	0	0	0	0	0	0	0	0	0
Tuesday	12/07/2016	0	0	0	0	0	0	0	0	0
Wednesday	13/07/2016	0	0	0	0	0	0	0	0	0
Thursday	14/07/2016	0	0	0	0	0	0	0	0	0
Friday	15/07/2016	0	0	0	0	0	0	0	0	0
Saturday	16/07/2016	0	0	0	0	0	0	0	0	0
Sunday	17/07/2016	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
--------	-----------------	-----------------	-------

Saturday	09/07/2016			
Sunday	10/07/2016			
Monday	11/07/2016			
Tuesday	12/07/2016	0	0	0
Wednesday	13/07/2016	0	0	0
Thursday	14/07/2016	0	0	0
Friday	15/07/2016	0	0	0
Saturday	16/07/2016	0	0	0
Sunday	17/07/2016	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	09/07/2016	Sunny Periods, Windy	Sunny Periods, Windy
Sunday	10/07/2016	Sunny Periods, Windy	Sunny Periods, Windy
Monday	11/07/2016	Sunny Periods, Windy	Sunny Periods, Windy
Tuesday	12/07/2016	Sunny Periods, Windy	Rain, Clears up later
Wednesday	13/07/2016	Cloudy	Overcast, Rain
Thursday	14/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Friday	15/07/2016	Cloudy, Windy	Cloudy, Windy
Saturday	16/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	17/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E28 Whipps Farmers 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E29 BROWN & TAWSE LEVEL CROSSING

Job Number	3267-LON-E29
Checked	11/10/2016
Date	10/10/2016
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 Brown & Tawse 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

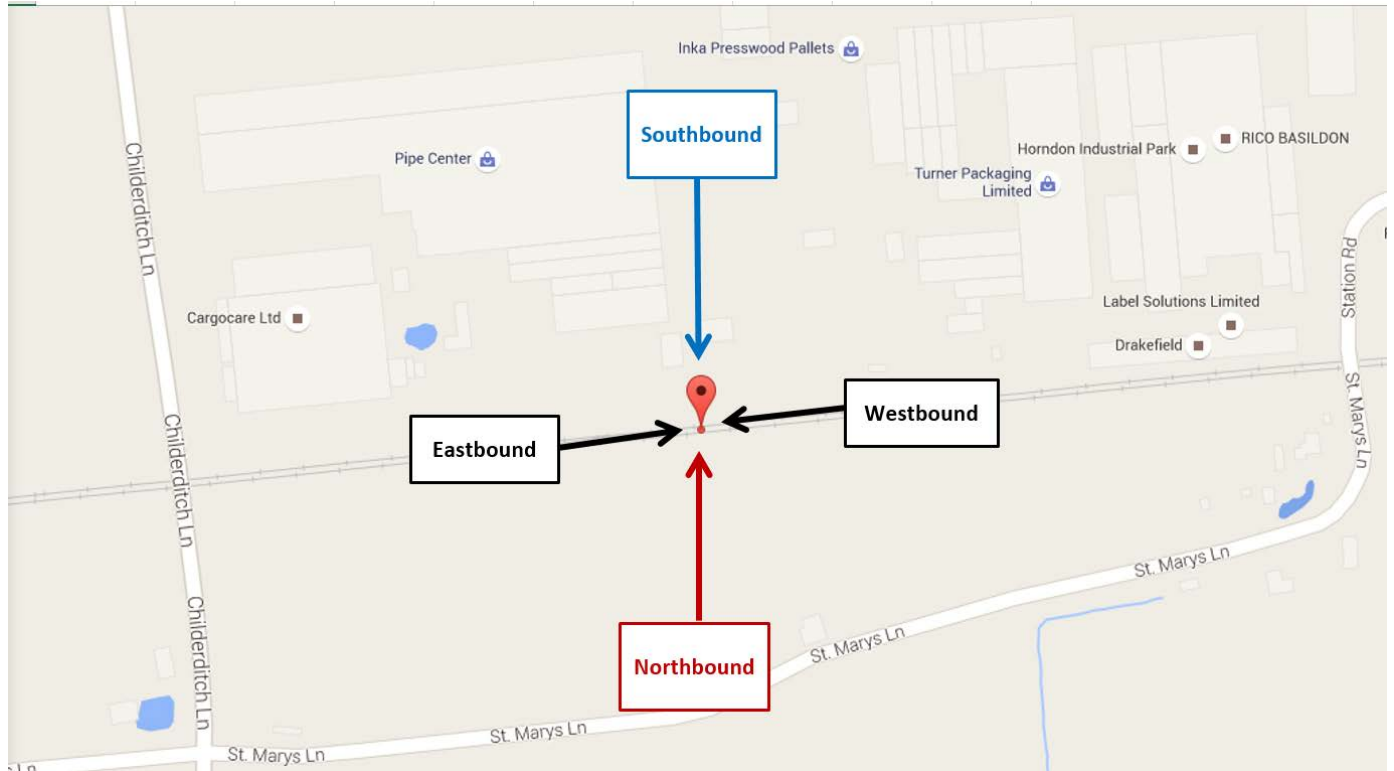
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Brown & Tawse 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. No pedestrians used 3267-LON Site S08 Stacpool Level Crossing during the 9-day census period.

Pedestrians

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

Saturday	09/07/2016	0	0	0	0	0	0	0	0	0
Sunday	10/07/2016	0	0	0	0	0	0	0	0	0
Monday	11/07/2016	0	0	0	0	0	0	0	0	0
Tuesday	12/07/2016	0	0	0	0	0	0	0	0	0
Wednesday	13/07/2016	0	0	0	0	0	0	0	0	0
Thursday	14/07/2016	0	0	0	0	0	0	0	0	0
Friday	15/07/2016	0	0	0	0	0	0	0	0	0
Saturday	16/07/2016	0	0	0	0	0	0	0	0	0
Sunday	17/07/2016	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
--------	-----------------	-----------------	-------

Saturday	09/07/2016			
Sunday	10/07/2016			
Monday	11/07/2016			
Tuesday	12/07/2016	0	0	0
Wednesday	13/07/2016	0	0	0
Thursday	14/07/2016	0	0	0
Friday	15/07/2016	0	0	0
Saturday	16/07/2016	0	0	0
Sunday	17/07/2016	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, Sunny Periods	Cloudy, Sunny Periods
Sunday	26/06/2016	Cloudy, Windy	Sunny Periods, Windy
Monday	27/06/2016	Cloudy, Windy	Sunny Periods, Windy
Tuesday	28/06/2016	Cloudy, Windy	Sunny Periods, Windy
Wednesday	29/06/2016	Cloudy, Windy	Sunny Periods, Windy
Thursday	30/06/2016	Cloudy, Windy	Sunny Periods, Windy
Friday	01/07/2016	Sunny Periods, Windy	Sunny Periods, 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 E29 Brown & Tawse 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E31 – BRICKYARD FARM LEVEL CROSSING

Job Number	3267-LON-E31
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	3



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Brickyard 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 surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 9th July 2016 to Sunday 17th 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.

Brickyard Farm Level Crossing – Busiest Quarter Hourly Periods

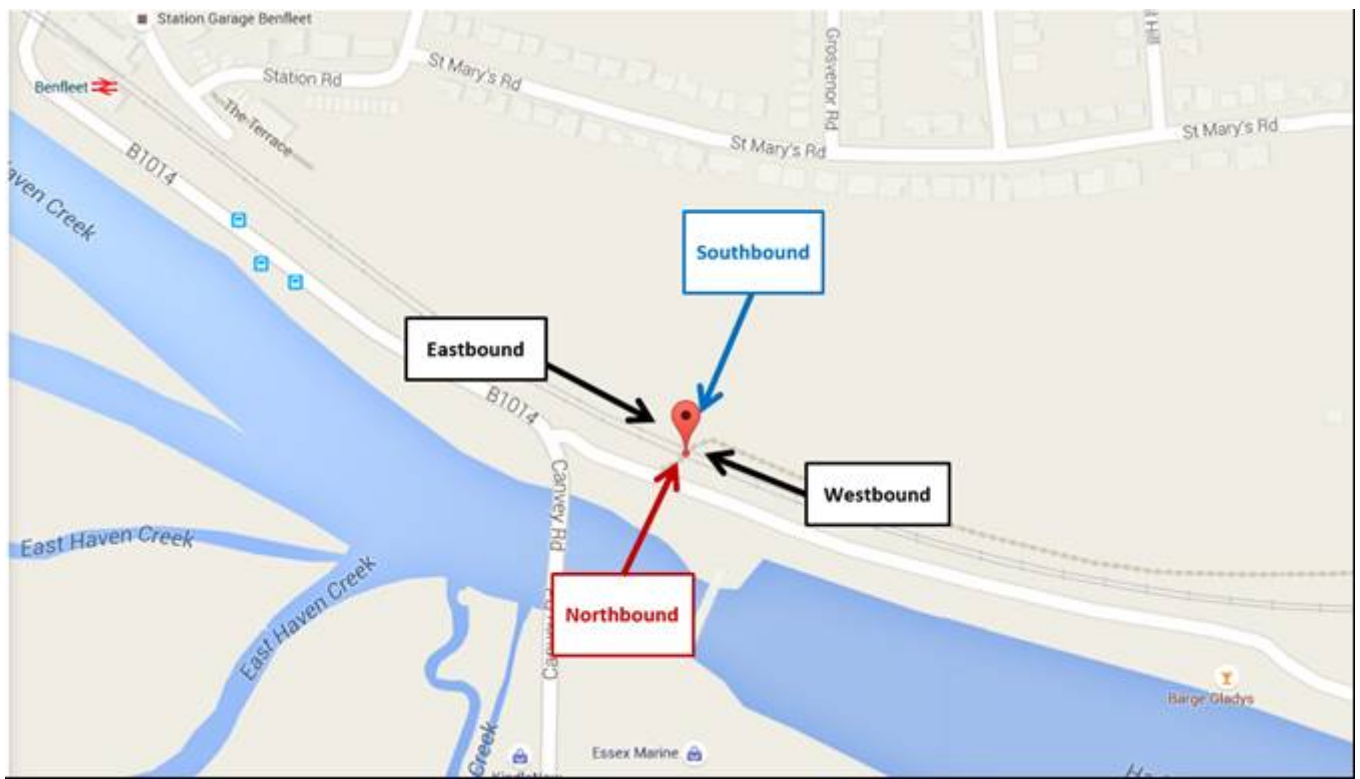
2 horse-riders were observed on Day 2 at 13:00. These were the only horse-riders observed.

For cyclists, the busiest quarter hourly period occurred at 11:45* on Day 8 with 2 cyclists.

For pedestrians, the busiest quarter hourly period occurred at 11:45 on Day 1 with 18 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 9th July 2016 and continued for nine days until Sunday 17th 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 E31, Brickyard Farm Level Crossing, was Saturday 9th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	36	0	0	0	0	0	0	0	0	36
Sunday 10/07/2016	15	0	0	0	0	0	0	0	0	15
Monday 11/07/2016	6	0	0	0	0	0	0	0	0	6
Tuesday 12/07/2016	3	0	0	0	0	0	0	0	0	3
Wednesday 13/07/2016	7	0	0	0	0	0	0	0	0	7
Thursday 14/07/2016	4	0	0	0	0	0	0	0	5	9
Friday 15/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 16/07/2016	8	0	0	0	0	0	0	0	0	8
Sunday 17/07/2016	22	1	0	0	0	0	0	0	0	23
	102	1	0	0	0	0	0	0	5	108

Equestrians and cyclists

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

Saturday 09/07/2016	0	0	0	2	2
Sunday 10/07/2016	2	0	0	2	4
Monday 11/07/2016	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0
Saturday 16/07/2016	0	0	0	6	6
Sunday 17/07/2016	0	0	0	2	2
	2	0	0	12	14

Weather

AM

PM

Saturday	09/07/2016	Cloudy	Sunny Periods
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Tuesday	12/07/2016	Cloudy	Cloudy, Sunny Periods
Wednesday	13/07/2016	Cloudy	Cloudy, Sunny Periods
Thursday	14/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Friday	15/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Saturday	16/07/2016	Dry	Dry
Sunday	17/07/2016	Dry	Dry

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E31 Brickyard Farm Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E32 – WOODGRANGE CLOSE LEVEL CROSSING

Job Number	3267-LON-E32
Checked	
Date	25/01/2017
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 Woodgrange Close 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 9th July 2016 to Sunday 17th 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.

Woodgrange Close Level Crossing – Busiest Quarter Hourly Periods

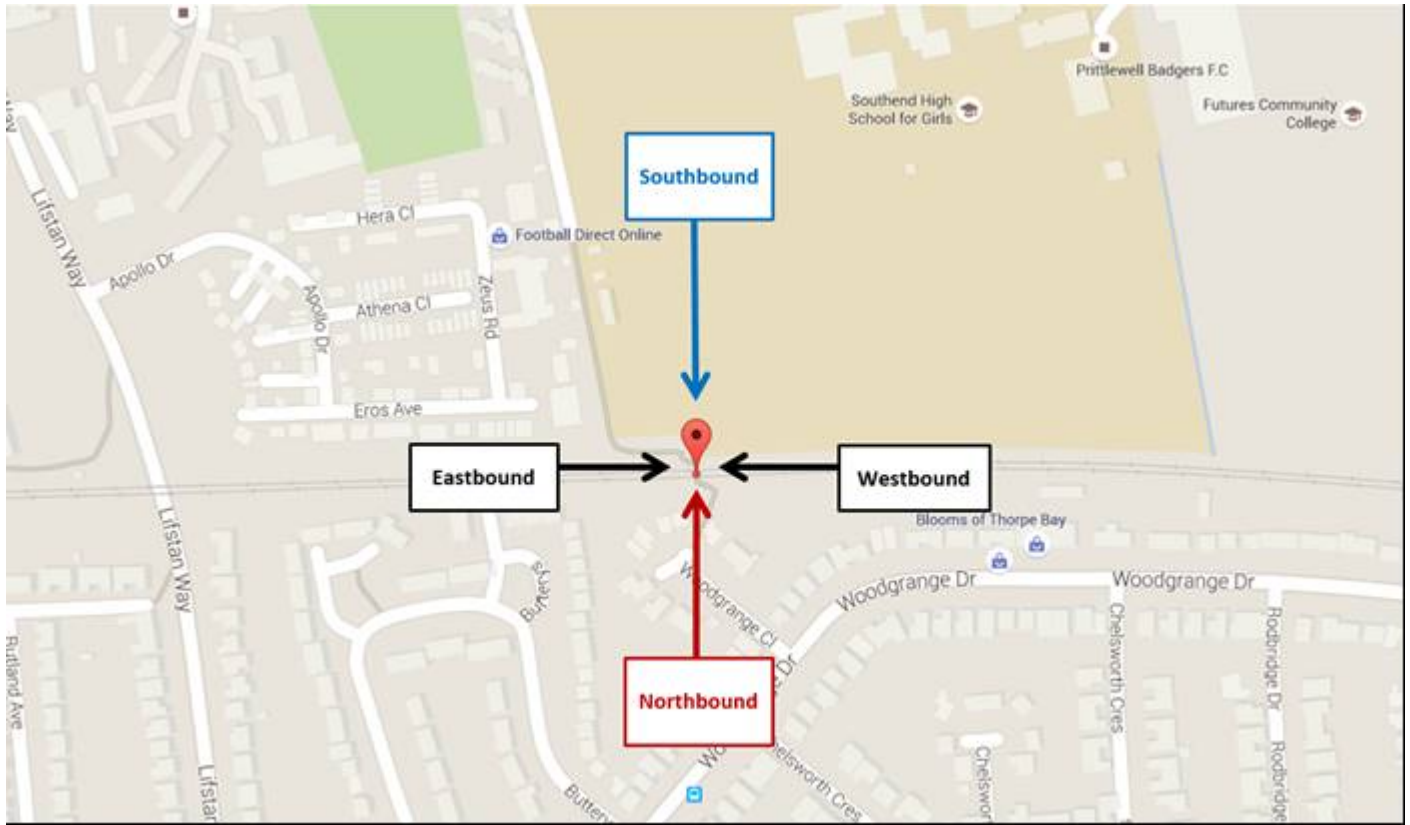
No horse-riders were observed on the level crossing during this census.

For cyclists, the busiest quarter hourly period occurred at 16:00 on Day 5* with 2 walking cyclists.

For pedestrians, the busiest quarter hourly period occurred at 13:45 on Day 9* with 24 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 9th July 2016 and continued for nine days until Sunday 17th 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 E32, Woodgrange Close Level Crossing, was Thursday 14th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	17	0	0	0	0	0	0	0	0	17
Sunday 10/07/2016	38	0	0	0	0	0	0	0	0	38
Monday 11/07/2016	33	1	0	0	0	0	1	0	0	35
Tuesday 12/07/2016	21	0	9	0	0	0	0	0	0	30
Wednesday 13/07/2016	28	2	6	1	0	0	0	0	2	39
Thursday 14/07/2016	30	1	9	0	0	0	0	0	0	40
Friday 15/07/2016	8	0	4	0	0	0	0	0	0	12
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	51	6	0	0	0	0	0	0	0	57
	226	10	28	1	0	0	1	0	2	268

Equestrians and cyclists

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

Saturday 09/07/2016	0	0	0	4	4
Sunday 10/07/2016	0	0	1	4	5
Monday 11/07/2016	0	0	0	5	5
Tuesday 12/07/2016	0	0	0	7	7
Wednesday 13/07/2016	0	0	0	11	11
Thursday 14/07/2016	0	0	1	9	10
Friday 15/07/2016	0	0	0	3	3
Saturday 16/07/2016	0	0	0	8	8
Sunday 17/07/2016	0	0	3	2	5
	0	0	5	53	58

Weather

AM

PM

Saturday	09/07/2016	Sunny, Windy	Sunny, Windy
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Windy, Passing Clouds	Windy, Passing Clouds
Tuesday	12/07/2016	Sunny, Clear	Sunny, Clear
Wednesday	13/07/2016	Cloudy, Sunny	Cloudy, Sunny
Thursday	14/07/2016	Sunny	Sunny
Friday	15/07/2016	Sunny	Sunny
Saturday	16/07/2016	Dry	Dry
Sunday	17/07/2016	Dry	Dry

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E32 Woodgrange Close Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E33 MOTORBIKE LEVEL CROSSING

Job Number	3267-LON-E33
Checked	17/02/2017
Date	17/02/2017
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 census at E33 Motorbike 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day, however due to data loss on Friday 15th July 2016 up to and including Sunday 17th July 2016, this site was resurveyed on Friday 22nd July 2016 to Sunday 24th July 2016 inclusive. The revised survey dates are six consecutive days from Saturday 9th July 2016 to Thursday 14th July 2016 and three consecutive days from Friday 22nd July 2016 to Sunday 24th July 2016. 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.

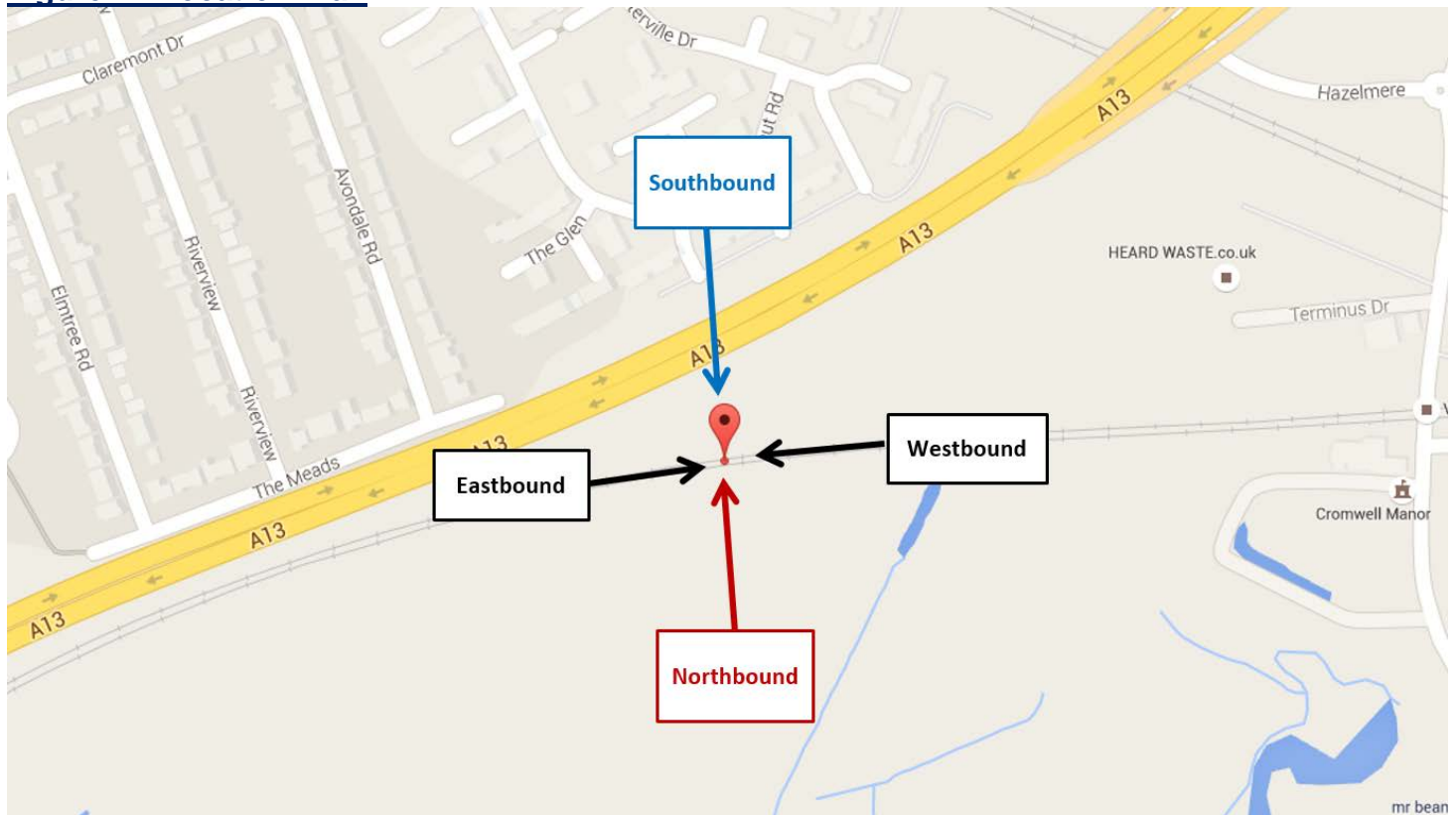
E33 Motorbike Level Crossing – Busiest Quarter Hourly Periods

No horse-riders were observed to use the level crossing for the duration of the census. For cyclists, the busiest quarter hourly period occurred at 16:45 on Day 8 with 1 walking cyclist*.

For Pedestrians, the busiest quarter hourly period occurred at 11:15 on Day 7 with 8 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 9th July 2016 to Thursday 14th July 2016 for six consecutive days and continued for a further three days between Friday 22nd July 2016 up to and including Sunday 24th July 2016 with census hours of 00:00 to 24:00. 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 E33 Motorbike Level Crossing, is Sunday 23rd July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	22	0	0	0	0	0	0	0	0	22
Sunday 10/07/2016	15	2	0	0	0	0	0	0	0	17
Monday 11/07/2016	15	0	0	0	0	0	0	0	1	16
Tuesday 12/07/2016	7	0	0	0	0	0	0	0	3	10
Wednesday 13/07/2016	3	0	0	0	0	0	0	0	1	4
Thursday 14/07/2016	11	0	0	0	0	0	0	0	2	13
Friday 22/07/2016	21	4	0	0	0	0	0	0	0	25
Saturday 23/07/2016	14	0	8	0	0	0	0	0	0	22
Sunday 23/07/2016	26	4	0	0	0	0	0	0	0	30
	134	10	8	0	0	0	0	0	7	159

Equestrians and Cyclists*

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

Saturday 09/07/2016	0	0	0	0
Sunday 10/07/2016	0	0	0	0
Monday 11/07/2016	0	0	0	0
Tuesday 12/07/2016	0	0	0	0
Wednesday 13/07/2016	0	0	0	0
Thursday 14/07/2016	0	0	0	0
Friday 22/07/2016	0	0	0	0
Saturday 23/07/2016	0	0	1	1
Sunday 23/07/2016	0	0	2	2
	0	0	3	3

*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	09/07/2016	Cloudy	Cloudy, Sunny Periods
Sunday	10/07/2016	Cloudy	Cloudy, Sunny Periods
Monday	11/07/2016	Windy, Passing Clouds	Windy, Passing Clouds
Tuesday	12/07/2016	Cloudy	Cloudy, Sunny Periods
Wednesday	13/07/2016	Cloudy	Overcast, Rain
Thursday	14/07/2016	Cloudy	Cloudy, Sunny Periods
Friday	22/07/2016	Cloudy, Sunny Periods	Sunny
Saturday	23/07/2016	Sunny Periods	Sunny Periods
Sunday	23/07/2016	Windy, Sunny Periods	Windy, Cloudy

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E33 Motorbike 9-Day Census v2”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E35 – CRANES No 1 LEVEL CROSSING

Job Number	3267-LON-E35
Checked	11/10/2016
Date	10/10/2016
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 Cranes No 1 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 census.

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 were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

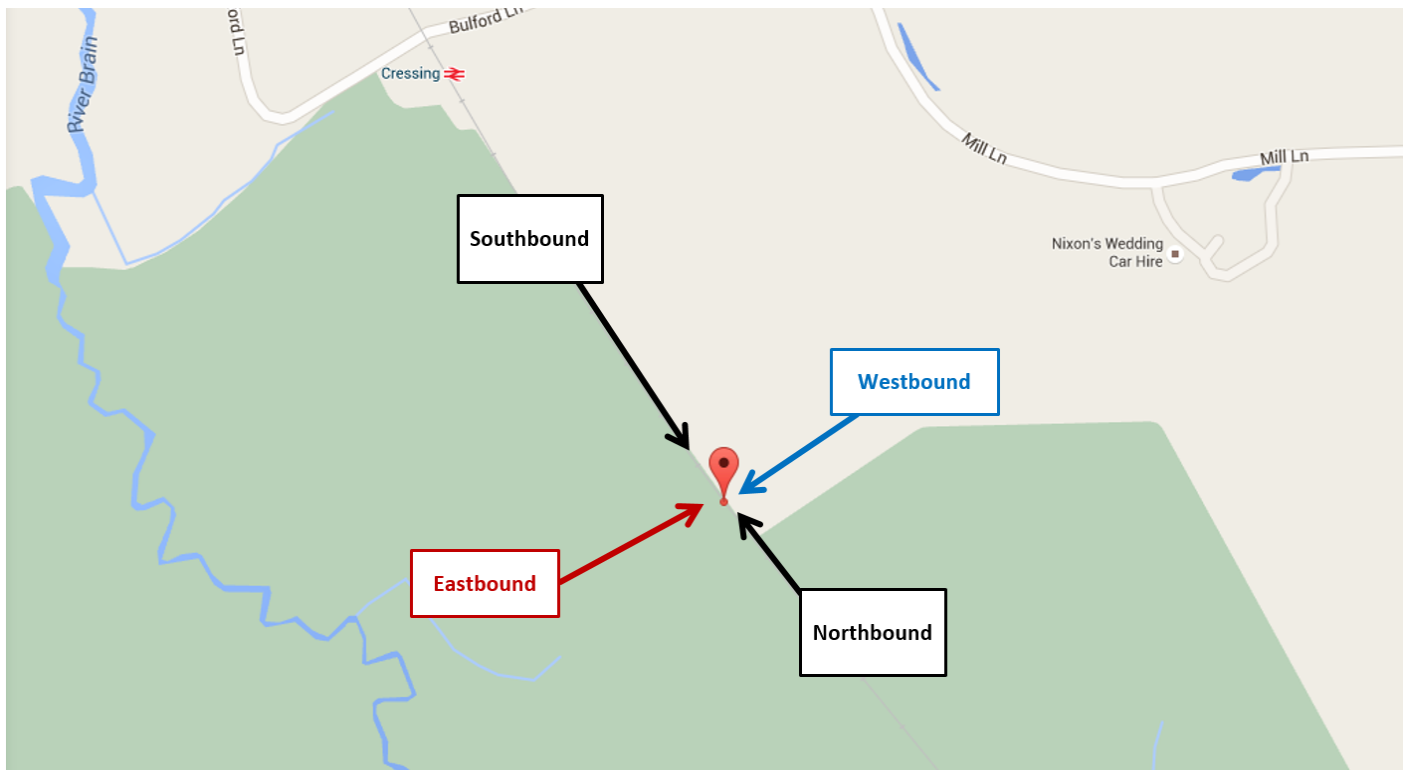
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

E35 – Cranes No 1 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 13:15 on Day 6 with 8 pedestrians.

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 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E35 Cranes No 2 Level Crossing, is Thursday 14th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	2	0	0	0	0	0	0	0	0	2
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	1	0	0	0	0	0	0	0	0	1
Thursday 14/07/2016	10	0	0	0	0	0	0	0	0	10
Friday 15/07/2016	3	0	0	0	0	0	0	0	0	3
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	16

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Sunny Periods, Cloudy	Sunny Periods, Cloudy
Tuesday	12/07/2016	Sunny	Sunny
Wednesday	13/07/2016	Cloudy, Windy	Cloudy, Windy
Thursday	14/07/2016	Sunny Periods	Sunny Periods
Friday	15/07/2016	Sunny, Windy	Sunny, Windy
Saturday	16/07/2016	Sunny, Windy	Sunny, Windy
Sunday	17/07/2016	Sunny, Windy	Sunny, Windy

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E35 Cranes No 1 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E36 CRANES No 2 LEVEL CROSSING

Job Number	3267-LON-E36
Checked	11/10/2016
Date	10/10/2016
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 Cranes No 2 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

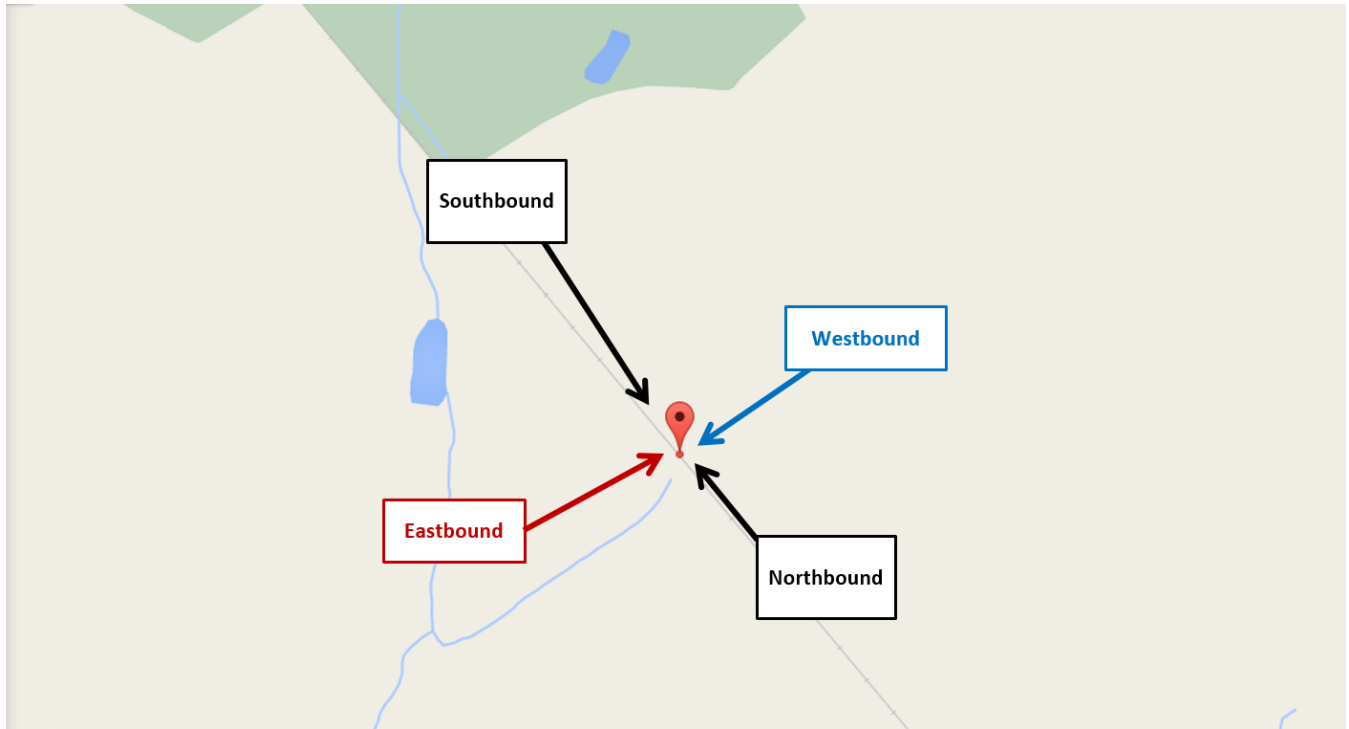
Cranes No 2 Level Crossing – Busiest Quarter Hourly Periods

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

For Pedestrians, the busiest quarter hourly period occurred at 10:00 on Day 2 with 1 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E36 Cranes No 2 Level Crossing, is Sunday 10th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	1	0	0	0	0	0	0	0	0	1
Monday 11/07/2016	1	0	0	0	0	0	0	0	0	1
Tuesday 12/07/2016	1	0	0	0	0	0	0	0	0	1
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	3

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Sunny, Windy	Sunny, Windy
Sunday	10/07/2016	Sunny, Windy	Sunny, Windy
Monday	11/07/2016	Sunny, Windy	Sunny, Windy
Tuesday	12/07/2016	Sunny, Windy	Sunny, Windy
Wednesday	13/07/2016	Sunny	Sunny
Thursday	14/07/2016	Sunny	Sunny
Friday	15/07/2016	Sunny, Cloudy	Sunny
Saturday	16/07/2016	Sunny	Sunny
Sunday	17/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E36 Cranes No 2 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E37 ESSEX WAY LEVEL CROSSING

Job Number	3267-LON-E37
Checked	11/10/2016
Date	10/10/2016
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 Essex Way 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

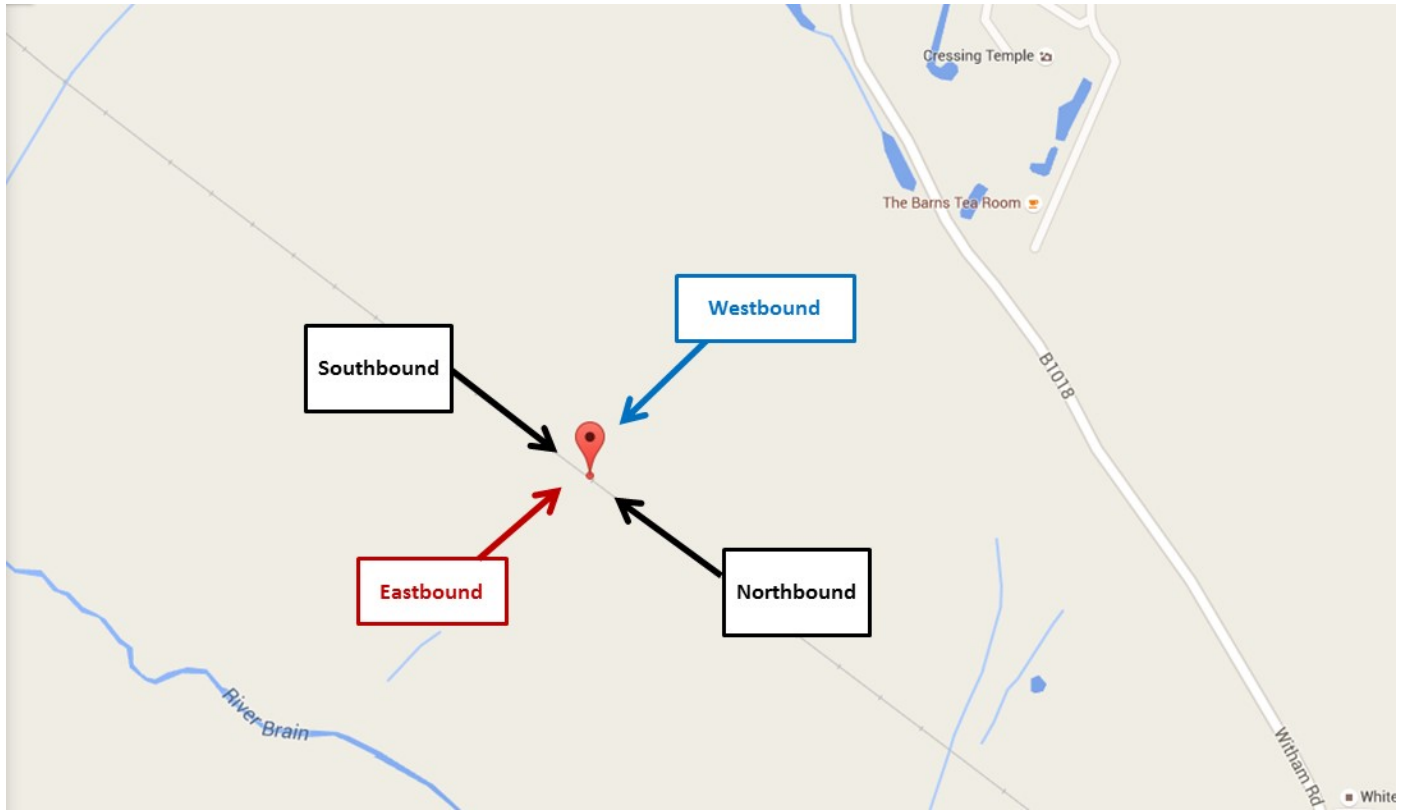
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

E37 – Essex Way 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 8 with 9 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E37 Essex Way Level Crossing, is Thursday 14th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	4	0	0	0	0	0	4
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	3	0	0	0	0	0	0	0	0	3
Thursday 14/07/2016	16	0	0	0	0	0	0	0	0	16
Friday 15/07/2016	4	0	0	0	0	0	0	0	0	4
Saturday 16/07/2016	15	0	0	0	0	0	0	0	0	15
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	38	0	0	4	0	0	0	0	0	42

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Sunny, Windy	Sunny, Windy
Sunday	10/07/2016	Sunny, Windy	Sunny, Windy
Monday	11/07/2016	Cloudy, Windy	Cloudy, Windy
Tuesday	12/07/2016	Cloudy, Sunny Periods, Windy	Sunny, Windy
Wednesday	13/07/2016	Sunny, Windy	Sunny, Windy
Thursday	14/07/2016	Sunny, Windy	Sunny, Windy
Friday	15/07/2016	Sunny, Windy	Sunny, Windy
Saturday	16/07/2016	Sunny, Windy	Sunny, Windy
Sunday	17/07/2016	Sunny, Windy	Sunny, Windy

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E37 Essex Way 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E38 BATTLESBRIDGE LEVEL CROSSING

Job Number	3267-LON-E38
Checked	11/10/2016
Date	10/10/2016
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 Battlesbridge 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

Battlesbridge 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. No pedestrians were seen using 3267-LON Site E38 Battlesbridge Level Crossing during the 9 day census period.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	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 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy, Windy	Cloudy, Windy
Sunday	10/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	11/07/2016	Cloudy, Windy	Cloudy, Windy
Tuesday	12/07/2016	Cloudy, Windy	Cloudy, Rain
Wednesday	13/07/2016	Cloudy, Overcast, Rain	Sunny Periods, Cloudy
Thursday	14/07/2016	Windy, Sunny Periods	Windy, Sunny Periods
Friday	15/07/2016	Sunny Periods, Cloudy	Sunny Periods, Cloudy
Saturday	16/07/2016	Sunny Periods, Cloudy	Sunny Periods, Cloudy
Sunday	17/07/2016	Sunny Periods, Windy	Sunny Periods, Windy

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E38 Battlesbridge 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E41 – PAGET LEVEL CROSSING

Job Number	3267-LON-E41
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	3



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Paget 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 9th July 2016 to Sunday 17th 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.

Paget Level Crossing – Busiest Quarter Hourly Periods

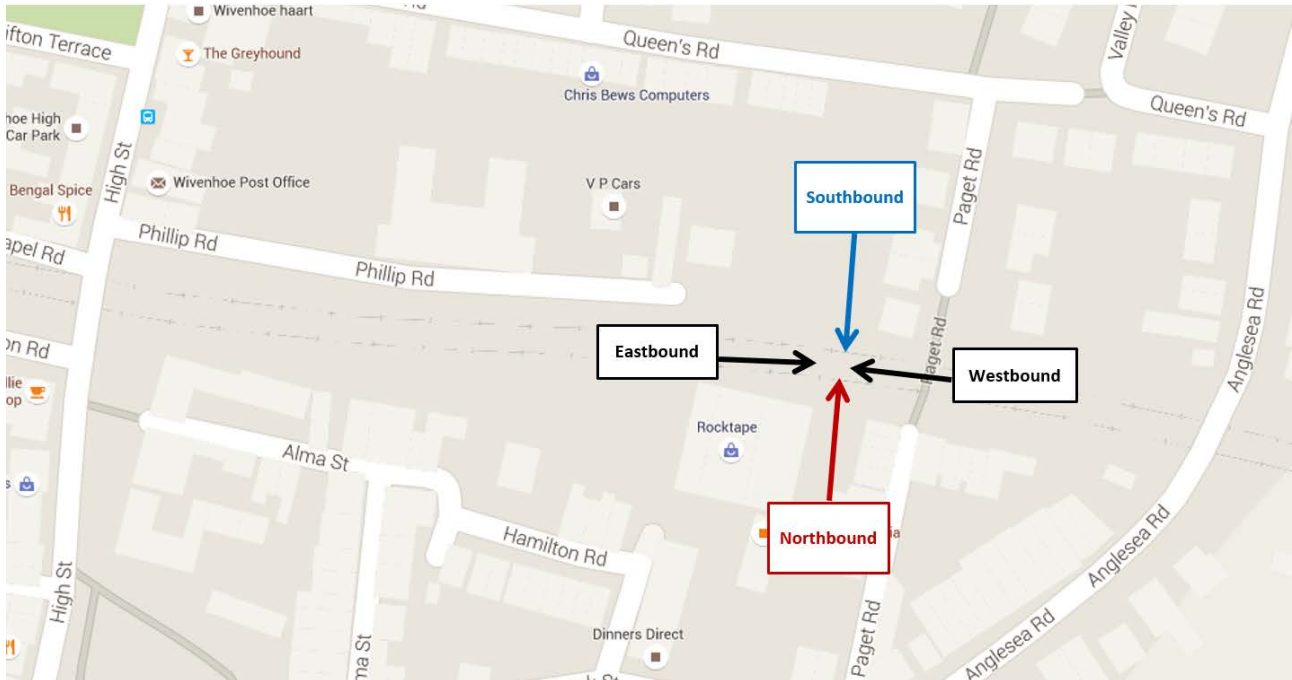
No equestrians were observed on the level crossing during this census.

For cyclists, the busiest quarter hourly period occurred at 17:15 on Day 9 with 1 rider*.

For pedestrians, the busiest quarter hourly period occurred at 13:30 on Day 1 with 21 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 9th July 2016 and continued for nine days until Sunday 17th 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 E41, Paget Level Crossing, was Saturday 9th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	279	28	0	6	1	0	0	0	0	314
Sunday 10/07/2016	128	7	2	3	0	0	0	0	0	140
Monday 11/07/2016	96	4	0	1	0	0	0	0	0	101
Tuesday 12/07/2016	107	0	2	0	0	0	1	0	0	110
Wednesday 13/07/2016	104	1	0	1	0	0	0	0	0	106
Thursday 14/07/2016	84	4	0	0	0	0	0	0	0	88
Friday 15/07/2016	95	5	2	3	0	0	0	0	0	105
Saturday 16/07/2016	116	9	0	1	0	0	0	0	0	126
Sunday 17/07/2016	88	2	0	2	0	0	0	0	0	92
	1097	60	6	17	1	0	1	0	0	1182

Equestrians and cyclists

Eques-trian, mounted	Eques-trian, walking	Bicycle riding	Bicycle walking	Total
----------------------	----------------------	----------------	-----------------	-------

Saturday 09/07/2016	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0
Monday 11/07/2016	0	0	0	2	2
Tuesday 12/07/2016	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0
Sunday 17/07/2016	0	0	0	2	2
	0	0	0	4	4

Weather		AM	PM
Saturday	09/07/2016	Windy, Sunny Periods	Windy, Sunny Periods
Sunday	10/07/2016	Windy, Sunny Periods	Windy, Sunny Periods
Monday	11/07/2016	Windy, Sunny Periods	Windy, Sunny Periods
Tuesday	12/07/2016	Cloudy, Windy	Cloudy, Windy
Wednesday	13/07/2016	Sunny	Sunny
Thursday	14/07/2016	Sunny	Sunny Periods, Passing Clouds
Friday	15/07/2016	Sunny	Sunny
Saturday	16/07/2016	Sunny	Sunny
Sunday	17/07/2016	Sunny	Sunny, Windy

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E41 Paget Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E42 – PADGETS LEVEL CROSSING

Job Number	3267-LON-E42
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	3



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Padgets 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 9th July 2016 to Sunday 17th 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.

Padgets Level Crossing – Busiest Quarter Hourly Periods

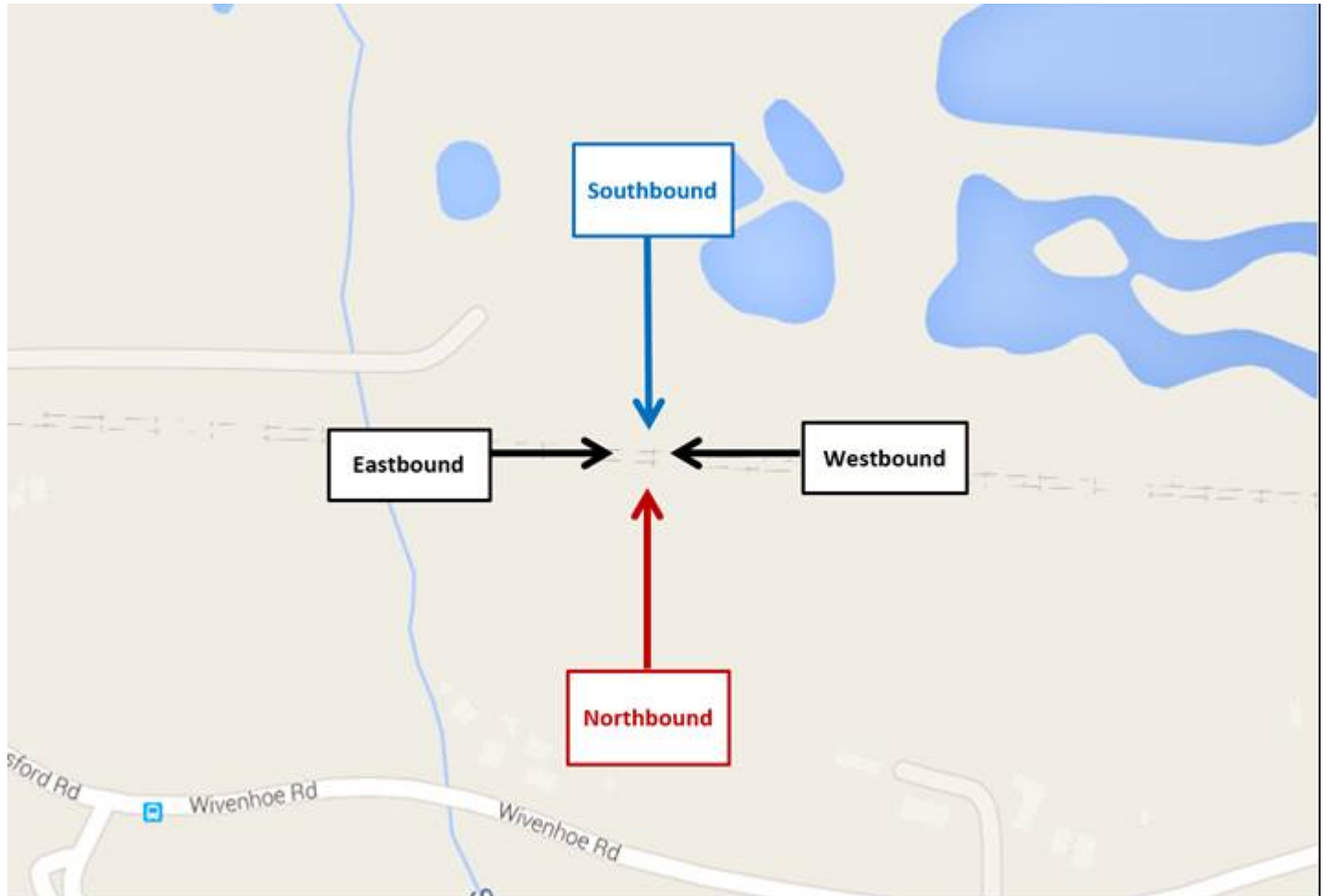
No horses were observed on the level crossing during this census.

For cyclists, the busiest quarter hourly period occurred at 21:15 on Day 6 with 2 cyclists.

For pedestrians, the busiest quarter hourly period occurred at 13:00 on Day 1 with 5 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 9th July 2016 and continued for nine days until Sunday 17th 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 E42, Padgets Level Crossing, was Saturday 16th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	12	2	0	1	1	0	0	0	0	16
Sunday 10/07/2016	10	0	1	0	0	0	0	0	0	11
Monday 11/07/2016	2	0	1	0	0	0	0	0	0	3
Tuesday 12/07/2016	8	0	0	0	0	0	0	0	0	8
Wednesday 13/07/2016	6	0	0	0	0	0	0	0	0	6
Thursday 14/07/2016	3	0	0	0	0	0	0	0	0	3
Friday 15/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	25	0	0	0	0	0	0	0	0	25
	67	2	2	1	1	0	0	0	0	73

Equestrians and cyclists

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

Saturday 09/07/2016	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0
Thursday 14/07/2016	0	0	0	2	2
Friday 15/07/2016	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0
Sunday 17/07/2016	0	0	0	0	0
	0	0	0	2	2

Weather

AM

PM

Saturday	09/07/2016	Cloudy, Windy	Sunny, Windy
Sunday	10/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Monday	11/07/2016	Cloudy, Windy	Cloudy, Windy
Tuesday	12/07/2016	Sunny	Sunny
Wednesday	13/07/2016	Sunny Periods	Sunny Periods
Thursday	14/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Friday	15/07/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Saturday	16/07/2016	Sunny, Windy	Sunny, Windy
Sunday	17/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E42 Padgets Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E43 HIGH ELM LEVEL CROSSING

Job Number	3267-LON-E43
Checked	13/10/2016
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 census at High Elm 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 09th July 2016 to Sunday 17th 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. 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.

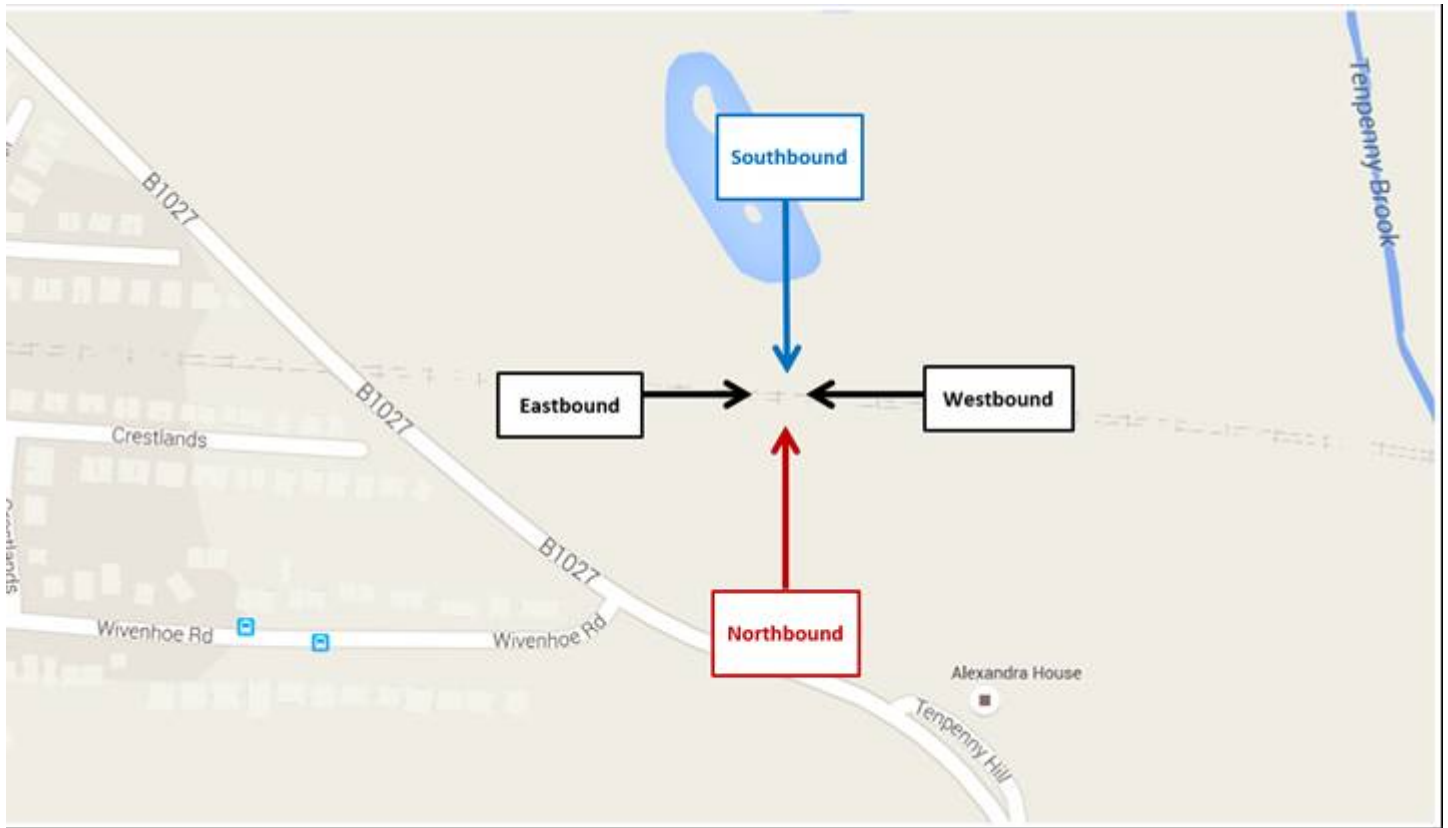
High Elm Level Crossing – Busiest Quarter Hourly Periods

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

For Pedestrians, the busiest quarter hourly period occurred at 15:15 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E43 Level Crossing, is Sunday 10th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	2	0	0	0	0	0	0	0	0	2
Sunday 10/07/2016	4	0	0	0	0	0	0	0	0	4
Monday 11/07/2016	3	0	0	0	0	0	0	0	1	4
Tuesday 12/07/2016	3	0	0	0	0	0	0	0	0	3
Wednesday 13/07/2016	1	0	0	0	0	0	0	0	0	1
Thursday 14/07/2016	1	0	0	0	0	0	0	0	0	1
Friday 15/07/2016	4	0	0	0	0	0	0	0	0	4
Saturday 16/07/2016	3	0	0	0	0	0	0	0	0	3
Sunday 17/07/2016	1	0	0	0	0	0	0	0	0	1
	22	0	0	0	0	0	0	0	1	23

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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, Windy	Sunny, Windy
Sunday	26/06/2016	Sunny, Windy	Sunny, Windy
Monday	27/06/2016	Sunny Periods, Windy	Sunny Periods, Windy
Tuesday	28/06/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Wednesday	29/06/2016	Sunny	Sunny
Thursday	30/06/2016	Sunny	Sunny
Friday	01/07/2016	Sunny	Sunny
Saturday	02/07/2016	Sunny	Sunny
Sunday	03/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E43 High Elm 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E45 – GREAT BENTLEY STATION LEVEL CROSSING

Job Number	3267-LON-E45
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	3



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Great Bentley Station 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 9th July 2016 to Sunday 17th 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.

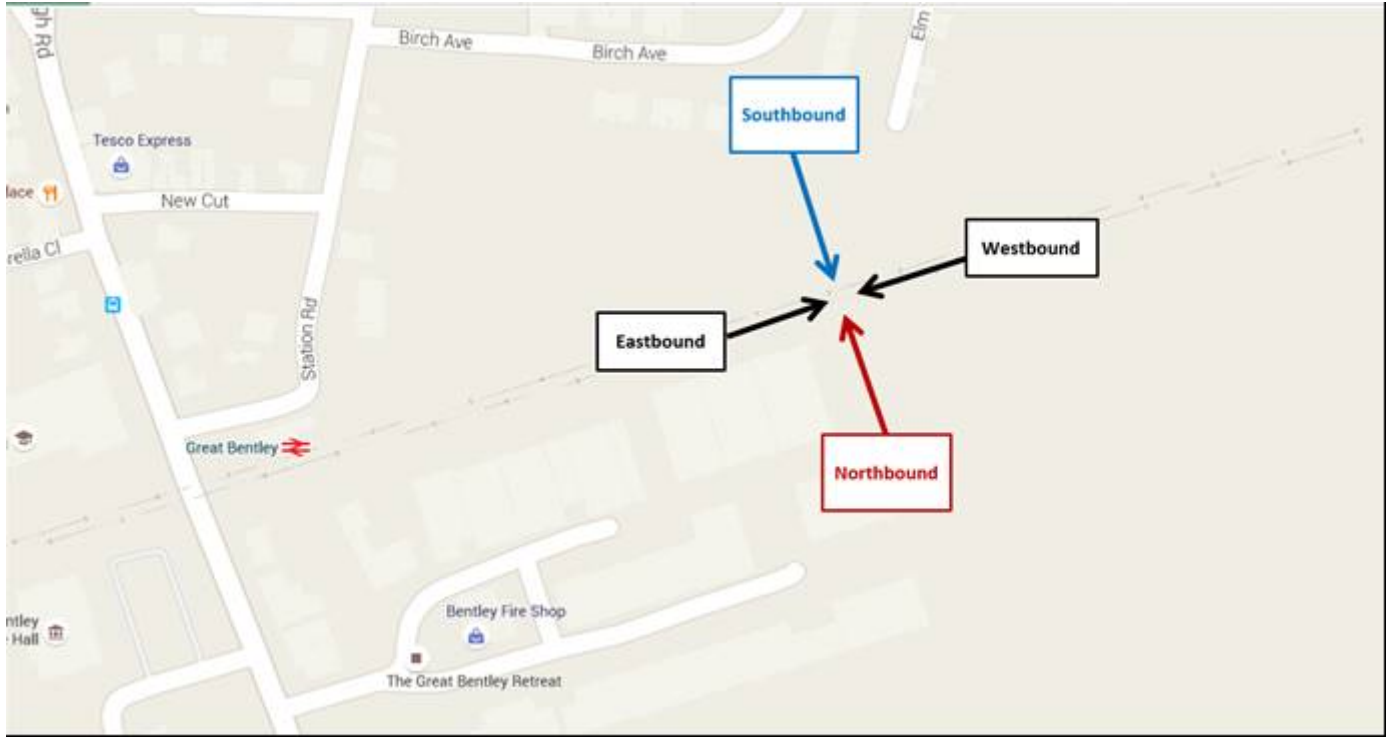
Great Bentley Station Level Crossing – Busiest Quarter Hourly Periods

No horse-riders were observed on the level crossing during this census. For cyclists, the busiest period was 19:15 on Day 4*, when one cyclist was observed, walking his bicycle. Only two cyclists were observed during this census.

For pedestrians, the busiest quarter hourly period occurred at 03:30 on Day 2 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 9th July 2016 and continued for nine days until Sunday 17th 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 E45, Great Bentley Station Level Crossing, was Saturday 9th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	12	0	0	0	0	0	0	0	0	12
Sunday 10/07/2016	6	0	0	0	0	0	0	0	4	10
Monday 11/07/2016	1	0	0	0	0	0	0	0	0	1
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	8	0	0	0	0	0	0	0	0	8
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	6	0	0	0	0	0	0	0	0	6
	35	0	0	0	0	0	0	0	4	39

Equestrians and cyclists

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

Saturday 09/07/2016	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	1	1
Wednesday 13/07/2016	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0
Sunday 17/07/2016	0	0	0	1	1
	0	0	0	2	2

Weather

AM

PM

Saturday	09/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells
Sunday	10/07/2016	Cloudy, Sunny spells	Sunny, Passing clouds
Monday	11/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells
Tuesday	12/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Wednesday	13/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E45 Great Bentley Station Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E46 – LORDS NUMBER 1 LEVEL CROSSING

Job Number	3267-LON-E46
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	3



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Lords Number 1 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 9th July 2016 to Sunday 17th 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

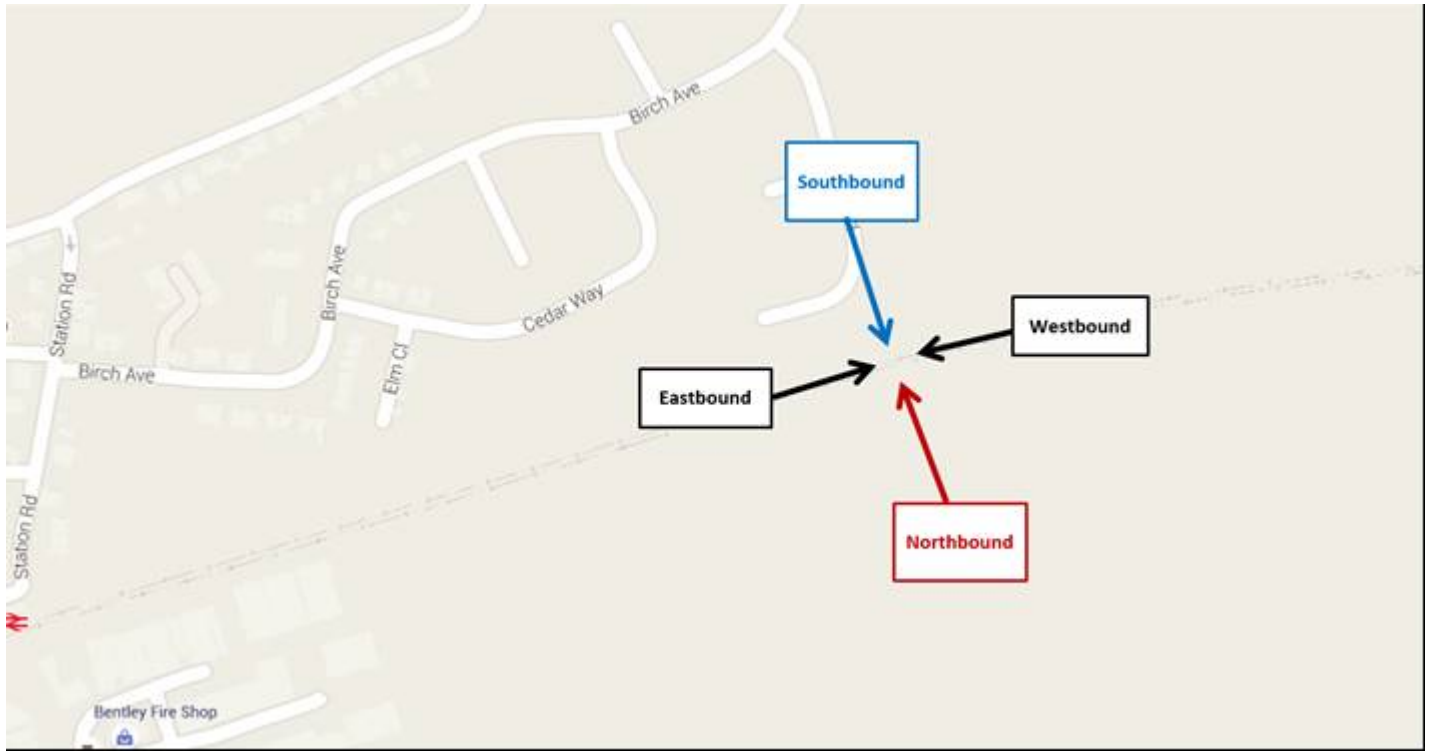
The daily number of pedestrians, equestrians and cyclists that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Lords Number 1 Level Crossing – Busiest Quarter Hourly Periods

No equestrians were observed to use the level crossing during the census period. One cyclist was observed, at 10:30 on Day 9.

For pedestrians, the busiest quarter hourly period occurred at 15:45 on Day 7 with 4 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 9th July 2016 and continued for nine days until Sunday 17th 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 E46, Lords Number 1 Level Crossing, was Friday 15th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	1	0	0	0	0	0	0	0	0	1
Sunday 10/07/2016	1	0	0	0	0	0	0	0	0	1
Monday 11/07/2016	1	0	0	0	0	0	0	0	0	1
Tuesday 12/07/2016	2	0	4	0	0	0	0	0	0	6
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	8	0	0	0	0	0	0	8
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	2	0	4	0	0	0	0	0	0	6
	7	0	16	0	0	0	0	0	0	23

Equestrians and cyclists

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

Saturday 09/07/2016	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0
Sunday 17/07/2016	0	0	0	1	1
	0	0	0	1	1

Weather

AM

PM

Saturday	09/07/2016	Cloudy	Cloudy, Sunny spells
Sunday	10/07/2016	Cloudy	Cloudy, Sunny spells
Monday	11/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells
Tuesday	12/07/2016	Cloudy, Sunny spells	Cloudy, Sunny Spells, Light rain
Wednesday	13/07/2016	Cloudy, Sunny spells	Cloudy, Sunny Spells, Light rain
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E46 Lords Number 1 Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E47 – BLUEHOUSE LEVEL CROSSING

Job Number	3267-LON-E47
Checked	13/10/2016
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 census at Bluehouse 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 09th July 2016 to Sunday 17th 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. 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.

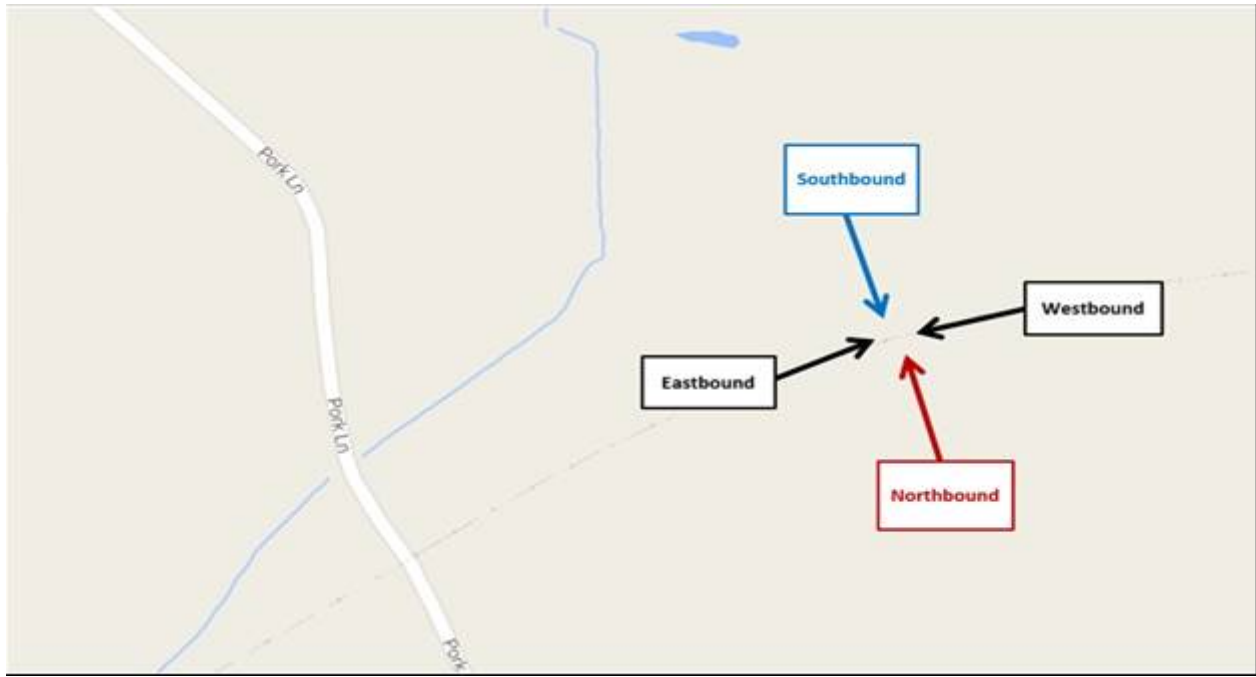
Bluehouse Level Crossing – Busiest Quarter Hourly Periods

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

For pedestrians, the busiest quarter hourly period occurred at 20:45 on Day 8 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E47, Bluehouse Level Crossing, is Thursday 14th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	1	0	0	0	0	0	0	0	12	13
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	10	0	0	0	0	0	0	0	0	10
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	12	23

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy	Cloudy, Passing clouds
Sunday	10/07/2016	Cloudy	Sunny, Passing clouds
Monday	11/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Tuesday	12/07/2016	Sunny spells	Sunny, Passing clouds
Wednesday	13/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Thursday	14/07/2016	Sunny spells	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E47 Bluehouse 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E48 WHEATSHEAF LEVEL CROSSING

Job Number	3267-LON-E48
Checked	13/10/2016
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 census at Wheatsheaf 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 09th July 2016 to Sunday 17th 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

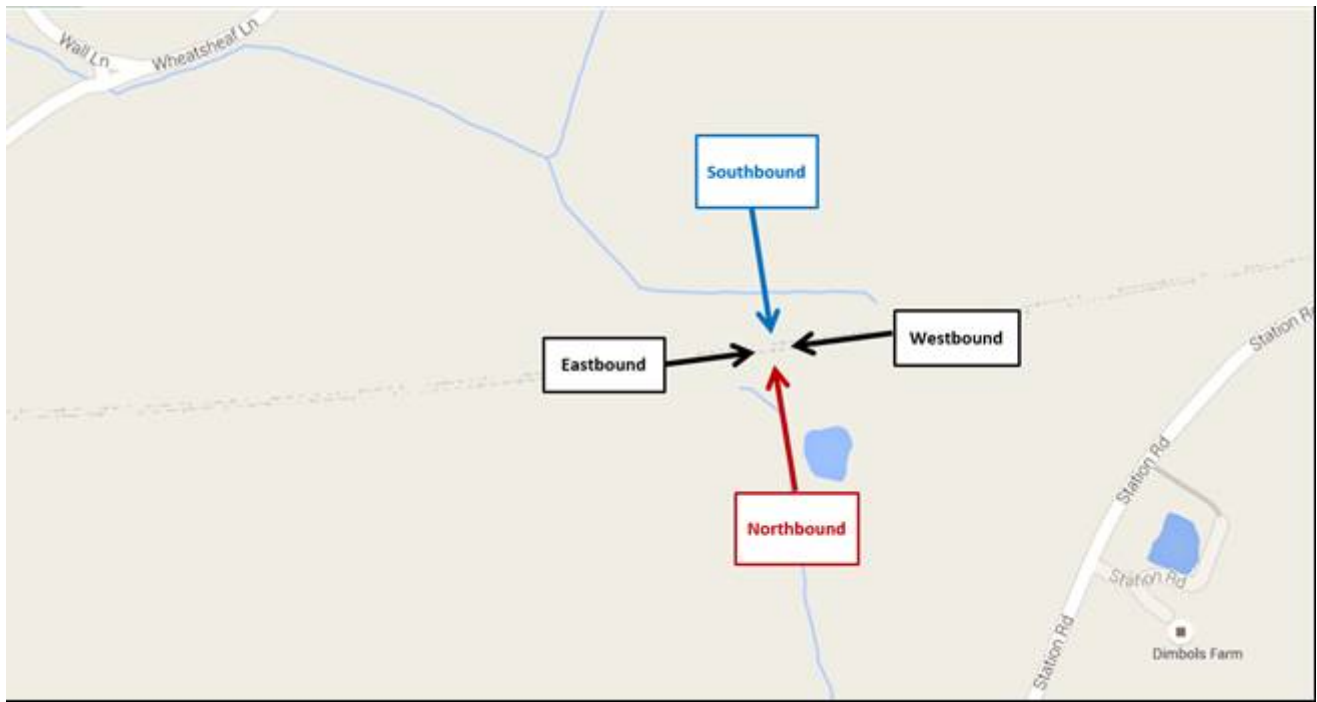
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Wheatsheaf 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 13:15 on Day 2 with 4 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E48, Wheatsheaf Level Crossing, is Sunday 10th July 2016.

Pedestrians

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

Saturday	09/07/2016	3	0	0	0	0	0	0	0	3
Sunday	10/07/2016	6	0	0	0	0	0	0	0	6
Monday	11/07/2016	2	0	0	0	0	0	0	0	2
Tuesday	12/07/2016	2	0	0	0	0	0	0	0	2
Wednesday	13/07/2016	3	0	0	0	0	0	0	0	3
Thursday	14/07/2016	3	0	0	0	0	0	0	0	3
Friday	15/07/2016	2	0	0	0	0	0	0	0	2
Saturday	16/07/2016	6	0	0	0	0	0	0	0	6
Sunday	17/07/2016	0	0	0	0	0	0	0	0	0
		27	0	0	0	0	0	0	0	27

Equestrians and Cyclists*

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

Saturday	09/07/2016			
Sunday	10/07/2016			
Monday	11/07/2016			
Tuesday	12/07/2016	0	0	0
Wednesday	13/07/2016	0	0	0
Thursday	14/07/2016	0	0	0
Friday	15/07/2016	0	0	0
Saturday	16/07/2016	0	0	0
Sunday	17/07/2016	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	09/07/2016	Cloudy	Cloudy, Sunny spells
Sunday	10/07/2016	Cloudy	Cloudy, Sunny spells
Monday	11/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells
Tuesday	12/07/2016	Cloudy, Sunny spells	Cloudy
Wednesday	13/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells, Light rain
Thursday	14/07/2016	Sunny spells	Cloudy, Sunny spells
Friday	15/07/2016	Cloudy	Cloudy, Sunny spells
Saturday	16/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E48 Wheatsheaf 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JULY 2016

3267-LON SITE E49 – MARIA STREET LEVEL CROSSING

Job Number	3267-LON-E49
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	3



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Maria Street 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 9th July 2016 to Sunday 17th 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.

Maria Street Level Crossing – Busiest Quarter Hourly Periods

No horse-riders were observed to use the level crossing for the duration of the census. For cyclists, the busiest quarter hourly period occurred at 17:00 on Day 5 with 3 cyclists.

For pedestrians, the busiest quarter hourly period occurred at 08:30 on Day 3 with 25 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 9th July 2016 and continued for nine days until Sunday 17th 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 E49, Maria Street Level Crossing, was Monday 11th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	151	34	2	1	0	1	9	0	0	198
Sunday 10/07/2016	118	15	3	6	6	0	5	0	0	153
Monday 11/07/2016	209	72	14	6	6	0	20	2	0	329
Tuesday 12/07/2016	152	43	7	0	2	0	17	0	1	222
Wednesday 13/07/2016	155	45	7	0	5	0	12	0	0	224
Thursday 14/07/2016	148	43	10	0	1	0	18	0	1	221
Friday 15/07/2016	170	41	9	0	2	0	16	0	1	239
Saturday 16/07/2016	179	23	12	1	3	0	8	0	0	226
Sunday 17/07/2016	173	35	1	0	2	2	12	0	0	225
	1455	351	65	14	27	3	117	2	3	2037

Equestrians and cyclists

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

Saturday 09/07/2016	0	0	1	2	3
Sunday 10/07/2016	0	0	0	10	10
Monday 11/07/2016	0	0	7	8	15
Tuesday 12/07/2016	0	0	4	3	7
Wednesday 13/07/2016	0	0	9	9	18
Thursday 14/07/2016	0	0	5	6	11
Friday 15/07/2016	0	0	6	10	16
Saturday 16/07/2016	0	0	0	0	0
Sunday 17/07/2016	0	0	7	14	21
	0	0	39	62	101

Weather

AM

PM

Saturday	09/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	10/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Monday	11/07/2016	Sunny, Passing clouds	Cloudy
Tuesday	12/07/2016	Sunny, Passing clouds	Cloudy, Light rain
Wednesday	13/07/2016	Sunny spells	Cloudy
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny	Sunny, Passing clouds
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E49 Maria Street Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E51 THORNFIELD WOOD LEVEL CROSSING

Job Number	3267-LON-E51
Checked	13/10/2016
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 census at Site Thornfield Wood 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 09th July 2016 to Sunday 17th 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

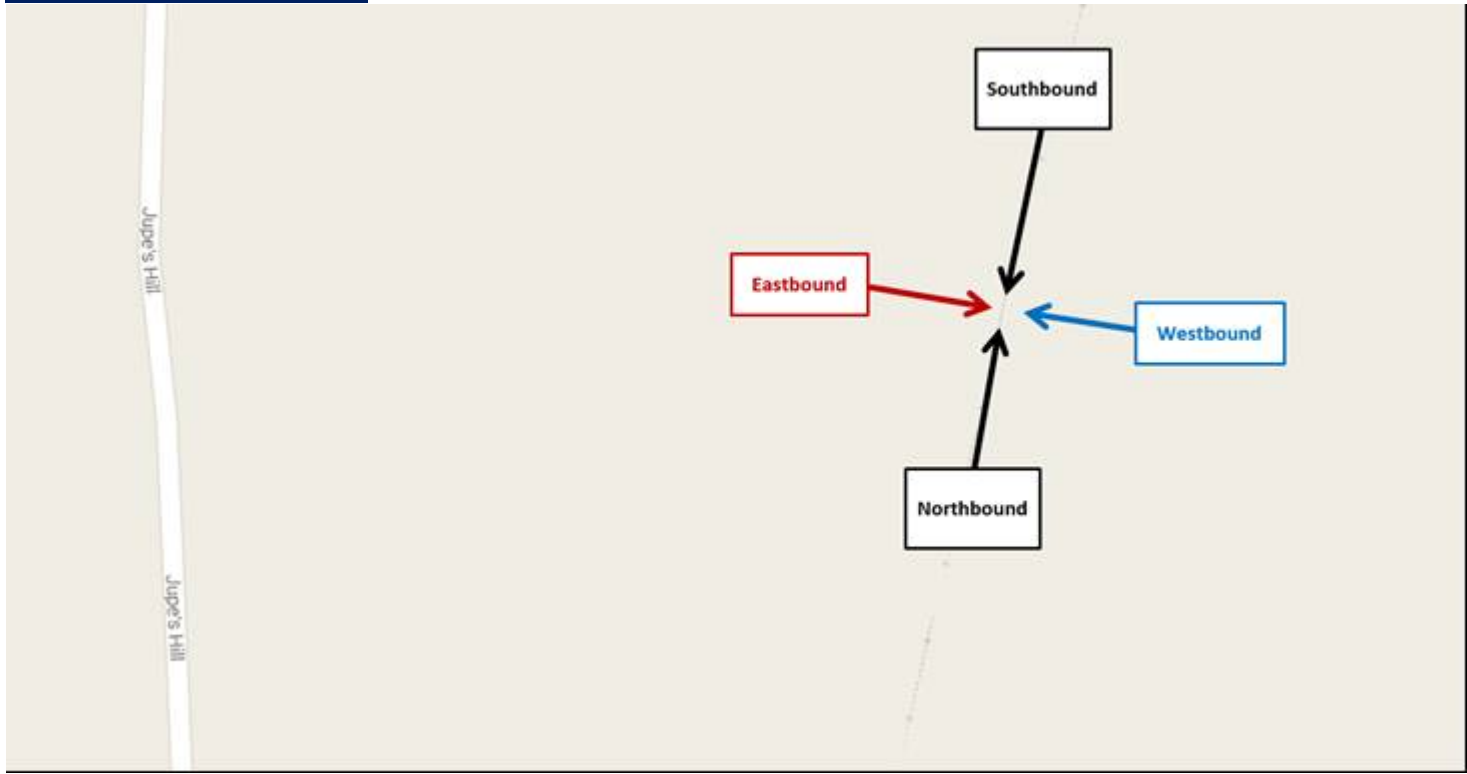
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Thornfield Wood 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 21:15 on Day 1 with 4 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E51, Thornfield Wood Level Crossing, is Tuesday 12th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	4	0	0	0	0	0	0	0	0	4
Sunday 10/07/2016	3	0	0	0	0	0	0	0	0	3
Monday 11/07/2016	2	0	0	0	0	0	0	0	0	2
Tuesday 12/07/2016	5	0	0	0	0	0	0	0	0	5
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 16/07/2016	2	0	0	0	0	0	0	0	0	2
Sunday 17/07/2016	1	0	0	0	0	0	0	0	0	1
	19	0	0	0	0	0	0	0	0	19

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy	Passing clouds
Sunday	10/07/2016	Cloudy	Sunny, Passing clouds
Monday	11/07/2016	Cloudy	Sunny, Passing clouds
Tuesday	12/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Wednesday	13/07/2016	Sunny, Passing clouds	Cloudy
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Saturday	16/07/2016	Sunny spells	Sunny, Passing clouds
Sunday	17/07/2016	Sunny spells	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E51 Thornfield Wood 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E52 GOLDEN SQUARE LEVEL CROSSING

Job Number	3267-LON-E52
Checked	13/10/2016
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 census at Golden Square 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 09th July 2016 to Sunday 17th 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. 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.

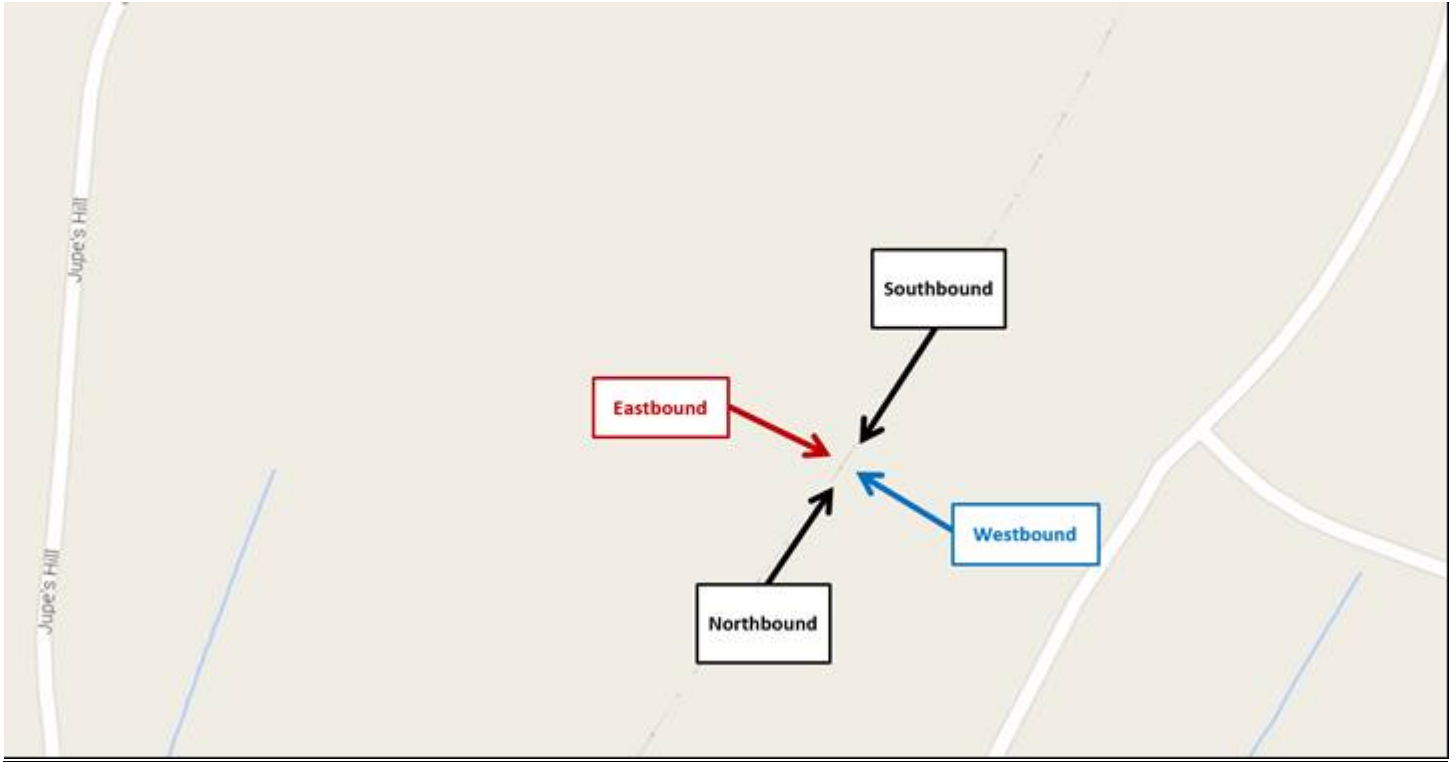
Site E52 Golden Square Level Crossing – Busiest Quarter Hourly Periods

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

For pedestrians, the busiest quarter hourly period occurred at 19:15 on Day 2 with 1 pedestrian*.

* 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E52 Golden Square Level Crossing, is Friday 15th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	1	0	0	0	0	0	0	0	0	1
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	3

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Sunny, Passing clouds	Cloudy
Sunday	10/07/2016	Cloudy	Sunny, Passing clouds
Monday	11/07/2016	Cloudy	Sunny, Passing clouds
Tuesday	12/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Wednesday	13/07/2016	Cloudy	Sunny, Passing clouds
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E52 Golden Square 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E53 – JOSSELYNS LEVEL CROSSING

Job Number	3267-LON-E53
Checked	13/10/2016
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 census at Josselyns 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 09th July 2016 to Sunday 17th 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. 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.

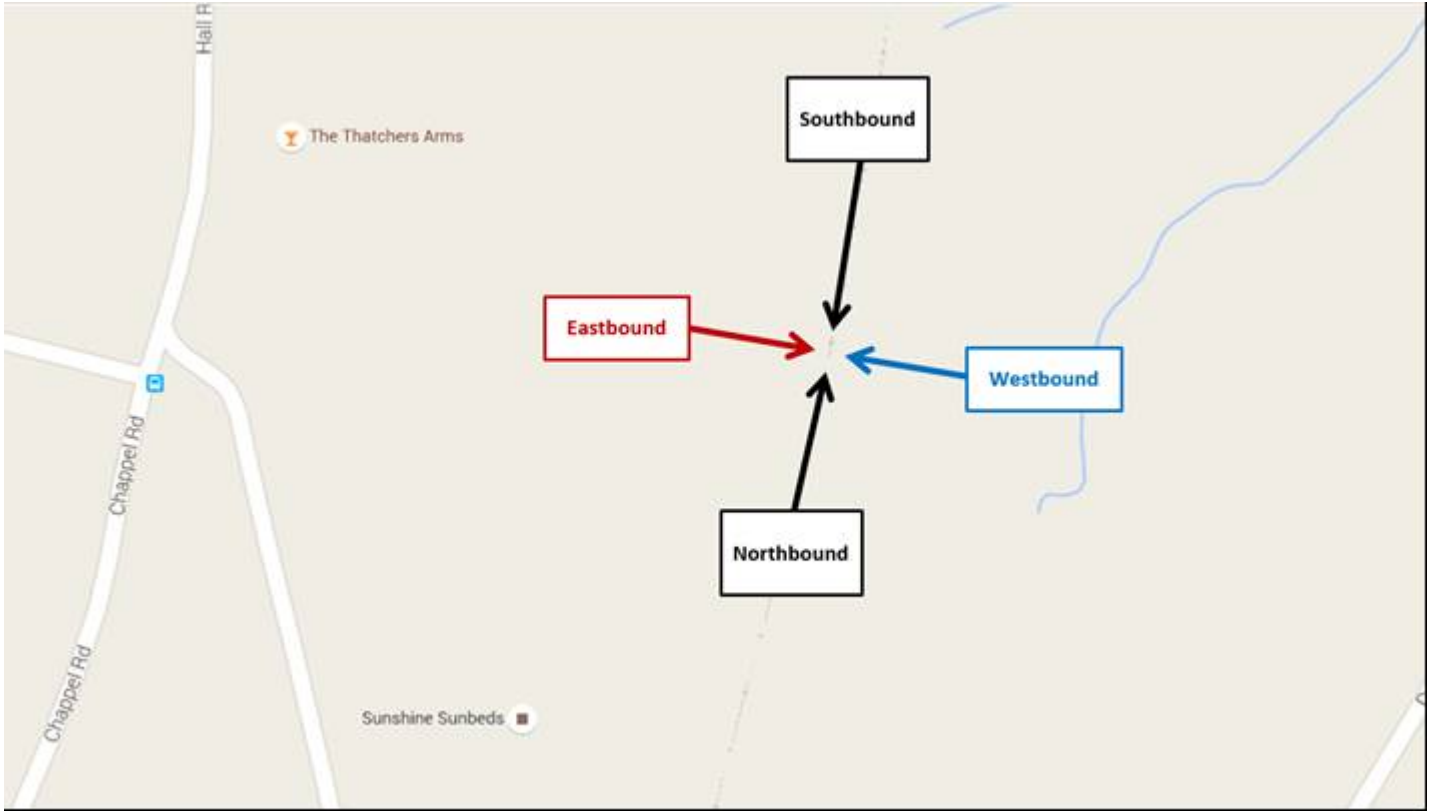
Site E53 Josselyns Level Crossing – Busiest Quarter Hourly Periods

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 1 with 1 pedestrian*.

* 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 days for 3267-LON Site E53 Josselyns Level Crossing, is Saturday 9th and Wednesday 13th July 2016.

Pedestrians

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

Saturday	09/07/2016	2	0	0	0	0	0	0	0	2
Sunday	10/07/2016	0	0	0	0	0	0	0	0	0
Monday	11/07/2016	0	0	0	0	0	0	0	0	0
Tuesday	12/07/2016	0	0	0	0	0	0	0	0	0
Wednesday	13/07/2016	2	0	0	0	0	0	0	0	2
Thursday	14/07/2016	1	0	0	0	0	0	0	0	1
Friday	15/07/2016	0	0	0	0	0	0	0	0	0
Saturday	16/07/2016	0	0	0	0	0	0	0	0	0
Sunday	17/07/2016	0	0	0	0	0	0	0	0	0
		5	0	0	0	0	0	0	0	5

Equestrians and Cyclists*

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

Saturday	09/07/2016			
Sunday	10/07/2016			
Monday	11/07/2016			
Tuesday	12/07/2016	0	0	0
Wednesday	13/07/2016	0	0	0
Thursday	14/07/2016	0	0	0
Friday	15/07/2016	0	0	0
Saturday	16/07/2016	0	0	0
Sunday	17/07/2016	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	09/07/2016	Cloudy	Cloudy, Sunny spells
Sunday	10/07/2016	Cloudy	Cloudy, Sunny spells
Monday	11/07/2016	Cloudy	Cloudy, Sunny spells
Tuesday	12/07/2016	Cloudy, Sunny spells	Cloudy, Passing clouds
Wednesday	13/07/2016	Cloudy	Cloudy
Thursday	14/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells
Friday	15/07/2016	Sunny, Passing clouds	Cloudy
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Cloudy	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E53 Josselyns 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE E54 BURES LEVEL CROSSING

Job Number	3267-LON-E54
Checked	13/10/2016
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 census at Bures 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 09th July 2016 to Sunday 17th 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

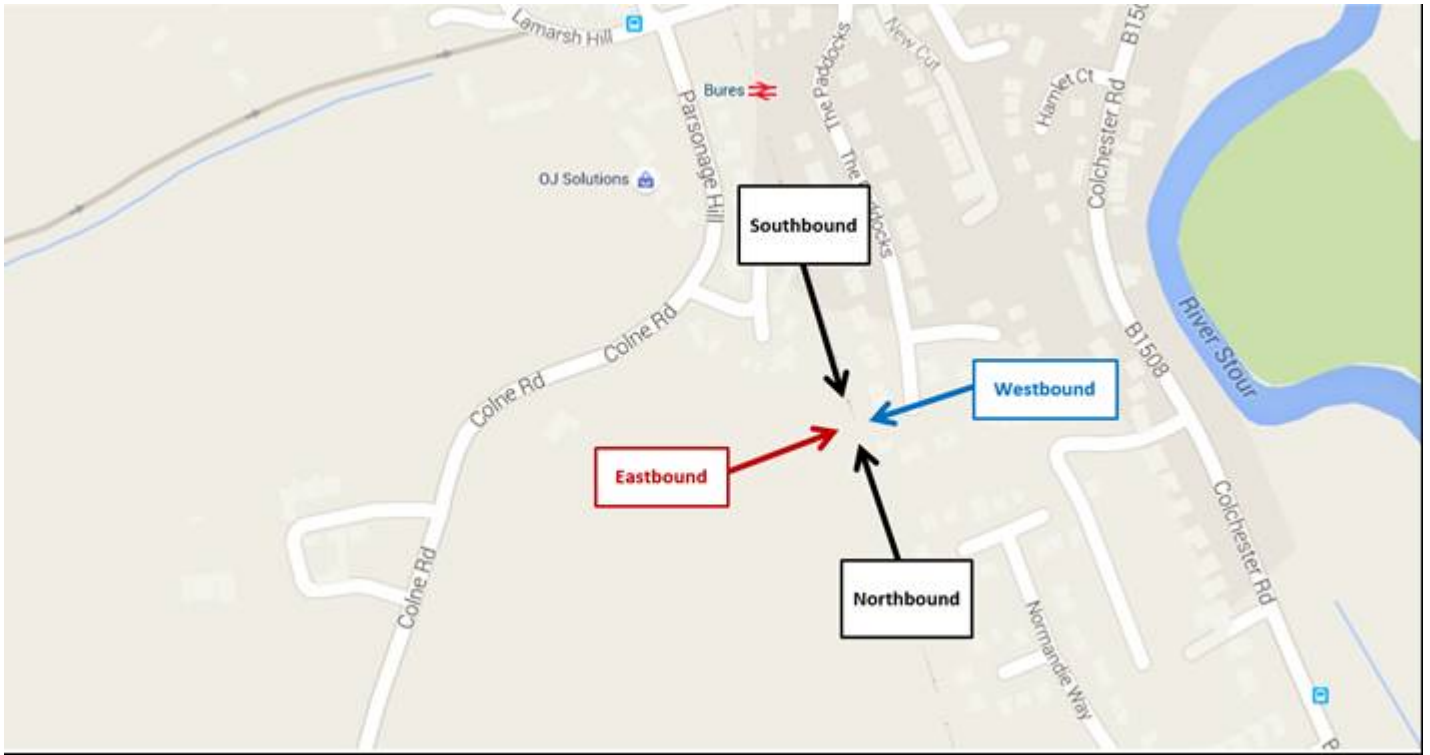
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Site E54 Bures 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 1 with 8 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

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

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 E54 Bures Level Crossing, is Wednesday 13th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	2	0	8	0	0	0	0	0	0	10
Sunday 10/07/2016	3	0	0	1	0	0	0	0	0	4
Monday 11/07/2016	3	0	0	0	0	0	0	0	0	3
Tuesday 12/07/2016	1	0	0	0	0	0	0	0	0	1
Wednesday 13/07/2016	15	0	0	0	0	0	0	0	0	15
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	1	0	0	0	0	0	0	0	0	1
	25	0	8	1	0	0	0	0	0	34

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Cloudy	Cloudy
Sunday	10/07/2016	Cloudy	Cloudy, Sunny spells
Monday	11/07/2016	Cloudy	Cloudy
Tuesday	12/07/2016	Cloudy, Sunny spells	Cloudy
Wednesday	13/07/2016	Cloudy	Cloudy
Thursday	14/07/2016	Sunny	Cloudy, Sunny spells
Friday	15/07/2016	Sunny	Cloudy
Saturday	16/07/2016	Sunny spells	Sunny spells
Sunday	17/07/2016	Dry, Cloudy	Sunny spells

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site E54 Bures 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE H04 TEDNAMBURY LEVEL CROSSING

Job Number	3267-LON-H04
Checked	13/10/2016
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 census at Tednambury 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 09th July 2016 to Sunday 17th 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. 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.

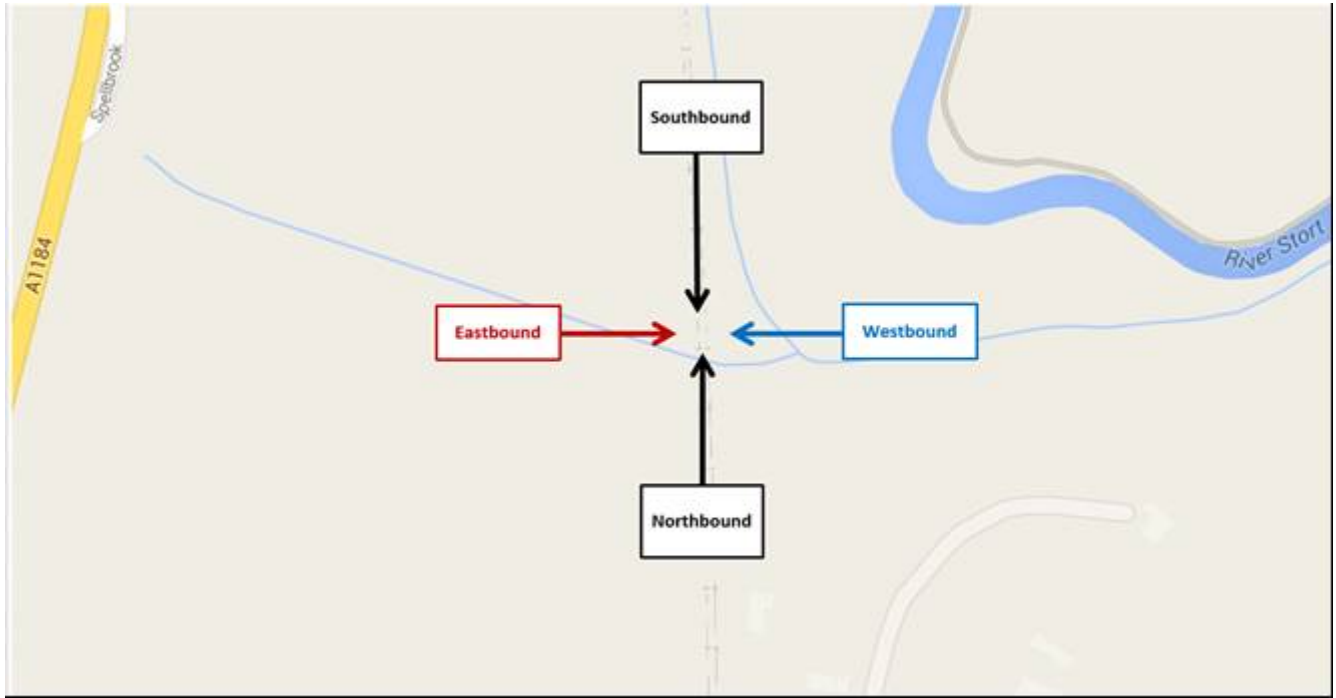
Site H04 Tednambury Level Crossing – Busiest Quarter Hourly Periods

No horse-riders were observed on the level crossing during this census. For cyclists, the busiest quarter hourly period occurred at 07:15 on Day 5 with 1 pedestrian*.

For pedestrians, the busiest quarter hourly period occurred at 09:15 on Day 8 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 H04, Tednambury Level Crossing, is Saturday 16th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	3	0	0	0	0	0	0	0	0	3
Sunday 10/07/2016	2	0	0	0	0	0	0	0	0	2
Monday 11/07/2016	2	0	0	0	0	0	0	0	0	2
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	3	0	0	0	0	0	0	0	0	3
Friday 15/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 16/07/2016	5	1	0	0	0	0	0	0	0	6
Sunday 17/07/2016	5	0	0	2	0	0	0	0	0	7
	21	1	0	2	0	0	0	0	0	24

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	1
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	1
Sunday 17/07/2016	0	0	0
	0	0	2

*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	09/07/2016	Cloudy	Cloudy
Sunday	10/07/2016	Cloudy	Cloudy, Sunny spells
Monday	11/07/2016	Cloudy	Cloudy, Sunny spells
Tuesday	12/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells, Light rain
Wednesday	13/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells
Thursday	14/07/2016	Passing clouds	Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Cloudy
Saturday	16/07/2016	Sunny, Passing clouds	Cloudy
Sunday	17/07/2016	Cloudy, Sunny spells	Cloudy, Sunny spells

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site H04 Tednambury 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE H05 PATTENS LEVEL CROSSING

Job Number	3267-LON-H05
Checked	13/10/2016
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 census at Pattens 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 09th July 2016 to Sunday 17th 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. 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.

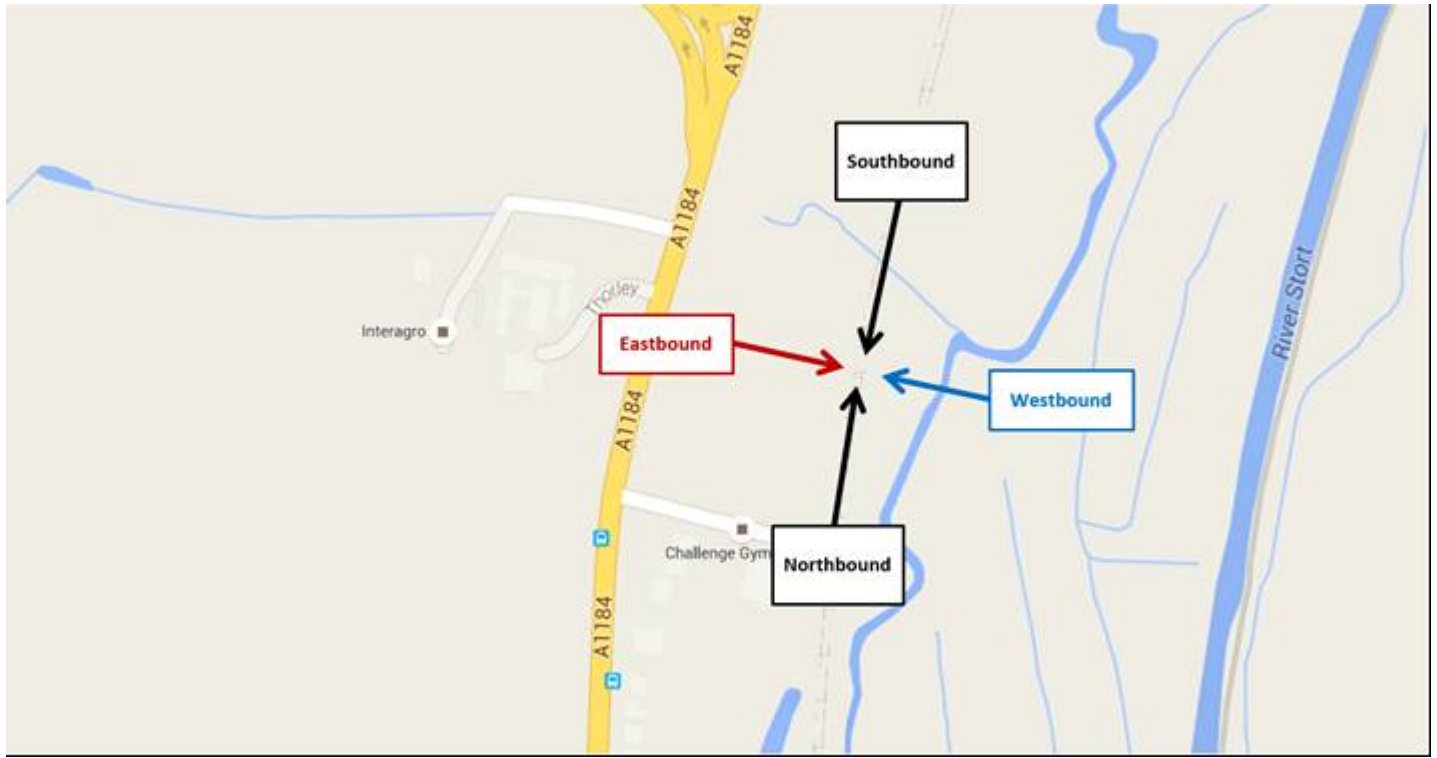
Site H05 Pattens Level Crossing – Busiest Quarter Hourly Periods

No horse-riders were observed on the level crossing during this census. For cyclists, the busiest quarter hourly period occurred at 19:15 on Day 6* with 2 cyclists.

For pedestrians, the busiest quarter hourly period occurred at 16:30 on Day 1 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 H05 Pattens Level Crossing, is Sunday 17th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	10	3	0	0	0	0	0	0	0	13
Sunday 10/07/2016	9	2	0	0	0	0	0	0	0	11
Monday 11/07/2016	7	0	0	0	0	0	0	0	0	7
Tuesday 12/07/2016	8	0	0	1	0	0	0	0	0	9
Wednesday 13/07/2016	6	0	0	0	0	0	0	0	0	6
Thursday 14/07/2016	8	0	0	3	0	0	0	0	0	11
Friday 15/07/2016	9	0	0	0	0	0	0	0	0	9
Saturday 16/07/2016	17	0	0	0	0	0	0	0	0	17
Sunday 17/07/2016	26	0	0	0	0	0	0	0	0	26
	100	5	0	4	0	0	0	0	0	109

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	2
Friday 15/07/2016	0	0	1
Saturday 16/07/2016	0	0	2
Sunday 17/07/2016	0	0	0
	0	0	5

*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	09/07/2016	Dry, Clouds	Dry, Clouds
Sunday	10/07/2016	Dry, Clouds	Dry, Clouds
Monday	11/07/2016	Dry, Clouds	Dry, Clouds
Tuesday	12/07/2016	Dry, Clouds, Sunny spells	Dry, Clouds
Wednesday	13/07/2016	Dry, Passing clouds	Dry, Clouds
Thursday	14/07/2016	Sunny, Passing clouds	Dry, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Dry, Clouds
Saturday	16/07/2016	Dry, Clouds, Sunny spells	Dry, Clouds
Sunday	17/07/2016	Dry, Clouds, Sunny spells	Dry, Clouds, Sunny spells

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site H05 Pattens 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON Site H06 GILSTON LEVEL CROSSING

Job Number	3267-LON-H06
Checked	13/10/2016
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 census at H06 Gilston 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 09th July 2016 to Sunday 17th 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. 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.

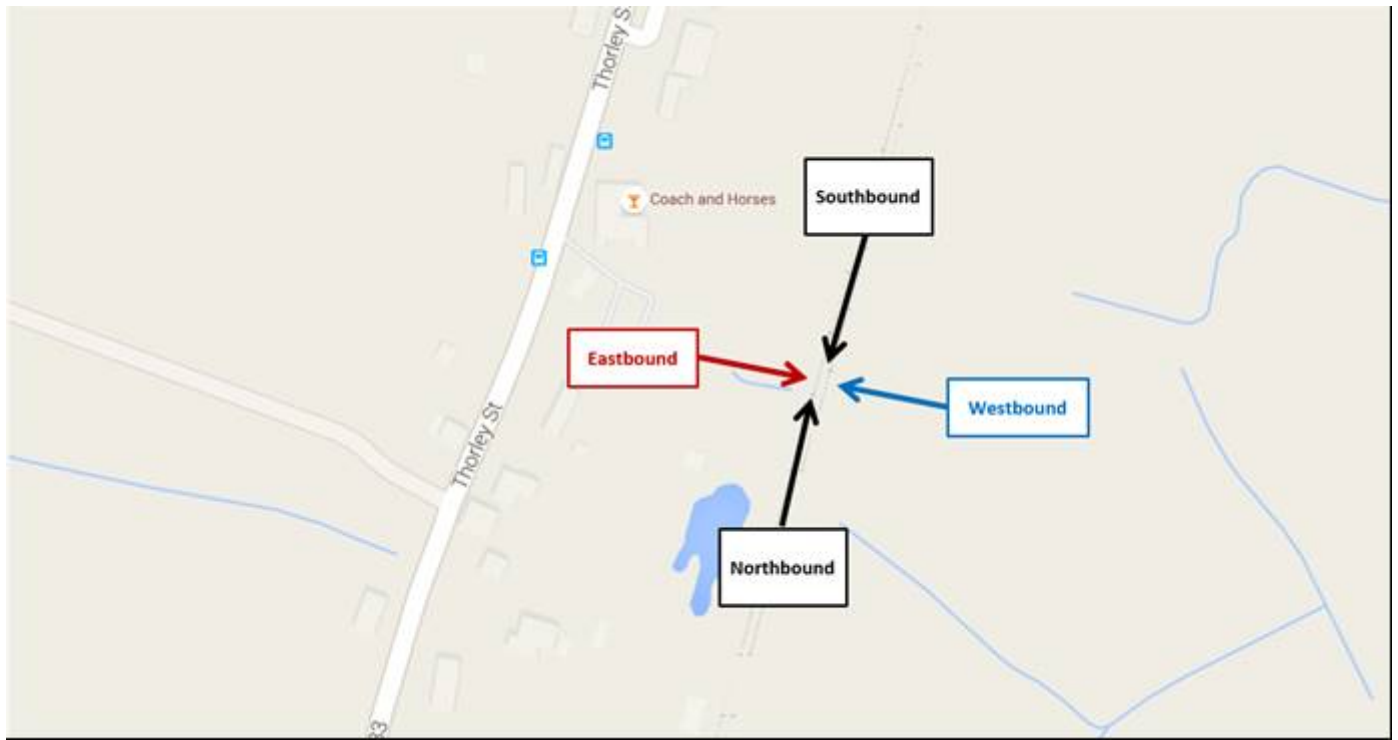
Gilston Level Crossing – Busiest Quarter Hourly Periods

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

For Pedestrians, the busiest quarter hourly period occurred at 10:15 on Day 8 with 10 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 H06 Gilston Level Crossing, is Saturday 16th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	6	0	0	0	0	0	0	0	0	6
Sunday 10/07/2016	5	0	0	0	0	0	0	0	0	5
Monday 11/07/2016	2	0	0	0	0	0	0	0	0	2
Tuesday 12/07/2016	2	0	0	0	0	0	0	0	0	2
Wednesday 13/07/2016	2	0	0	0	0	0	0	0	0	2
Thursday 14/07/2016	4	0	0	0	0	0	0	0	0	4
Friday 15/07/2016	4	0	0	0	0	0	0	0	0	4
Saturday 16/07/2016	18	0	0	0	1	0	0	0	0	19
Sunday 17/07/2016	7	0	0	0	0	0	0	0	0	7
	50	0	0	0	1	0	0	0	0	51

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Dry, Cloudy	Dry, Cloudy
Sunday	10/07/2016	Dry, Cloudy	Sunny, Passing clouds
Monday	11/07/2016	Dry, Cloudy	Sunny, Passing clouds
Tuesday	12/07/2016	Sunny, Passing clouds	Cloudy, Light rain, Cloudy
Wednesday	13/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Dry, Cloudy
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site H06 Gilston 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE HA02 WOODHALL CRESCENT LEVEL CROSSING

Job Number	3267-LON-HA02
Checked	13/10/2016
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 census at Woodhall Crescent 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 09th July 2016 to Sunday 17th 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. 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.

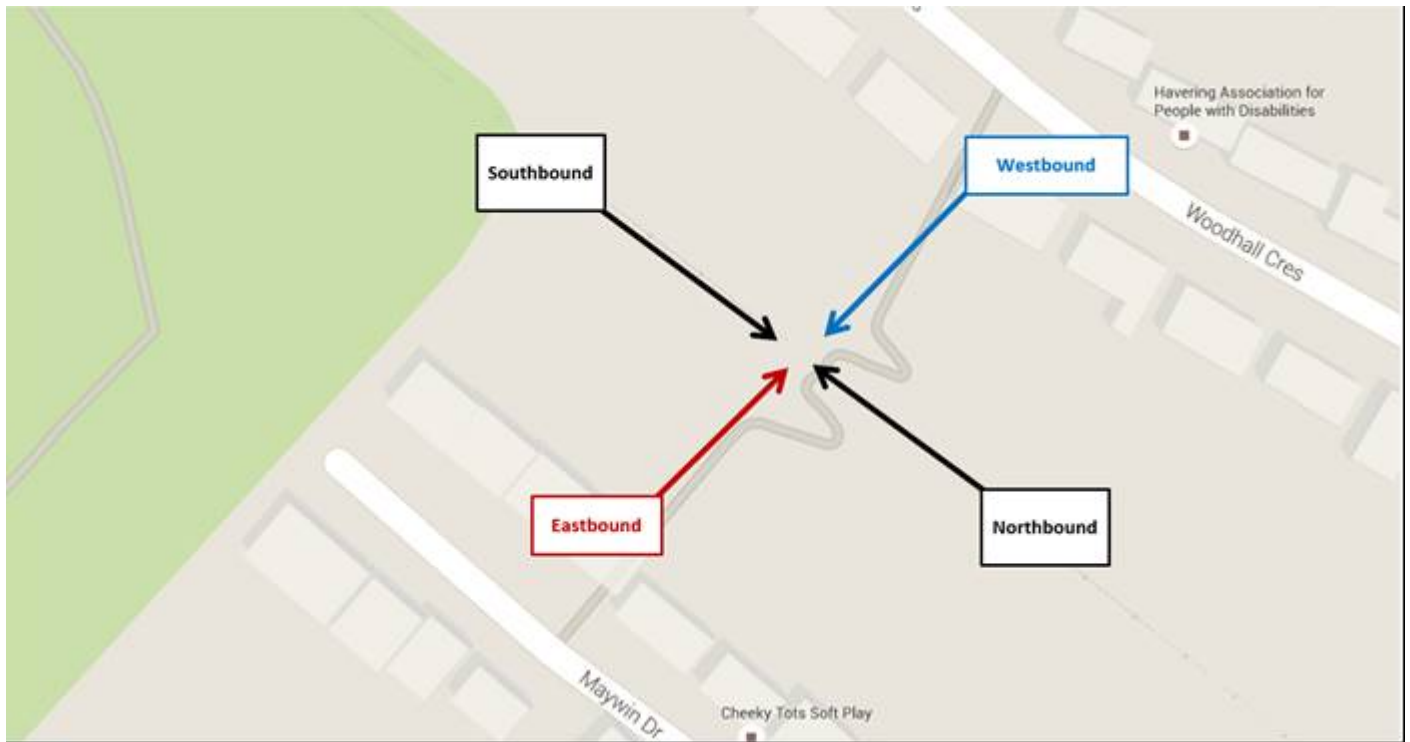
Woodhall Crescent Level Crossing – Busiest Quarter Hourly Periods

For cyclists & Equestrians, the busiest quarter hourly period occurred at 15:45 on Day 5 with 3 pedestrians.

For Pedestrians, the busiest quarter hourly period occurred at 16:45 on Day 3 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 HA02 Woodhall Crescent Level Crossing, is Friday 15th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	6	0	0	0	0	0	0	0	0	6
Monday 11/07/2016	9	0	0	0	0	0	0	0	0	9
Tuesday 12/07/2016	0	0	2	0	0	0	0	0	0	2
Wednesday 13/07/2016	5	0	0	0	0	0	0	0	0	5
Thursday 14/07/2016	6	0	0	0	0	0	0	0	0	6
Friday 15/07/2016	15	0	0	0	0	0	0	0	0	15
Saturday 16/07/2016	4	1	3	0	0	0	1	0	0	9
Sunday 17/07/2016	3	0	0	0	1	0	0	0	0	4
	48	1	5	0	1	0	1	0	0	56

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	3
Thursday 14/07/2016	0	0	6
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	0	0	0
	0	0	9

*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	09/07/2016	Sunny, Passing clouds	Dry, Passing clouds
Sunday	10/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Monday	11/07/2016	Dry, Passing clouds	Sunny, Passing clouds
Tuesday	12/07/2016	Sunny, Passing clouds	Sunny, Passing clouds, Cloudy
Wednesday	13/07/2016	Sunny, Passing clouds	Sunny, Passing clouds, Light rain
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Dry, Cloudy
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site HA02 Woodhall Crescent 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE HA04 EVE'S LEVEL CROSSING

Job Number	3267-LON-HA04
Checked	11/10/2016
Date	10/10/2016
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 Eve's 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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

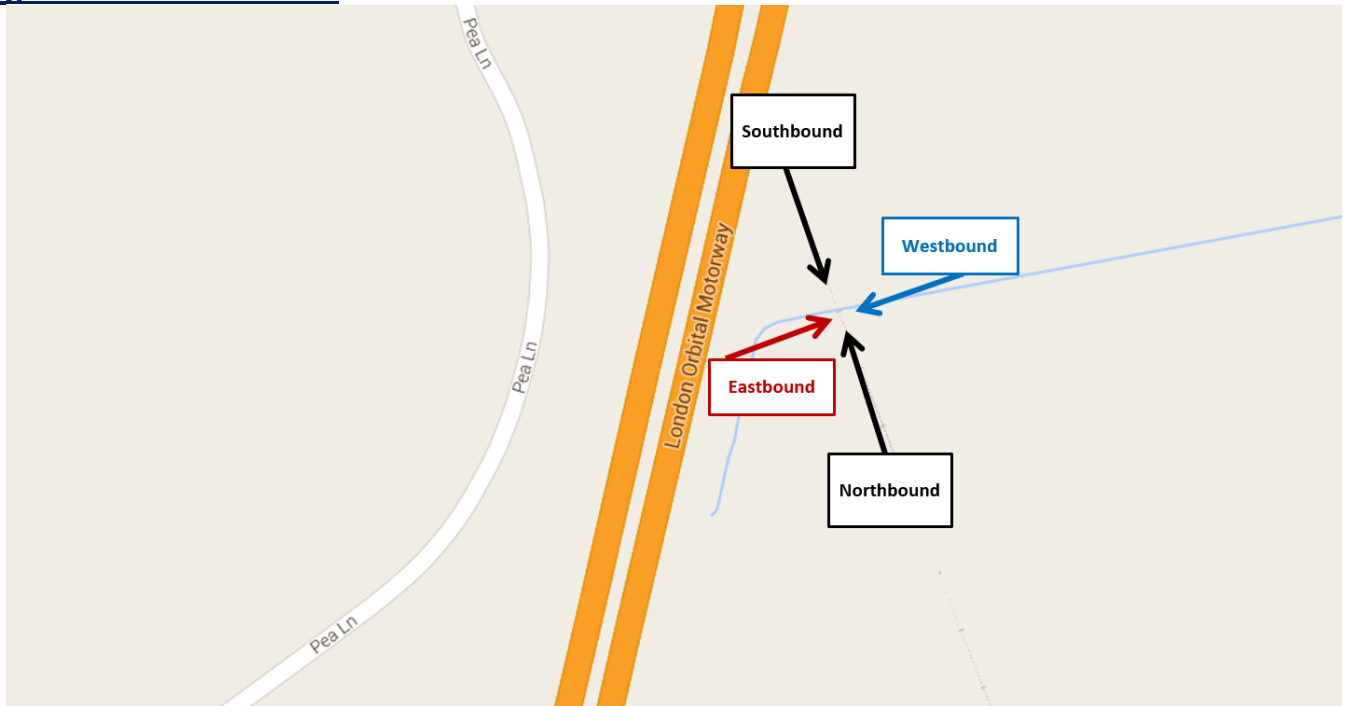
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations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

Eve's 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. No pedestrians used 3267-LON Site HA04 Eve's Level Crossing over the 9 day period.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	0	0	0	0	0	0	0	0	0	0
Monday 11/07/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	0	0	0	0	0	0	0	0	0	0
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	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 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Sunny, Passing cloud	Dry, Cloudy
Sunday	10/07/2016	Dry, Cloudy	Sunny, Passing cloud
Monday	11/07/2016	Sunny, Passing cloud	Sunny, Passing cloud
Tuesday	12/07/2016	Sunny, Passing cloud	Dry, Cloudy
Wednesday	13/07/2016	Sunny, Passing cloud	Sunny, Passing cloud
Thursday	14/07/2016	Sunny, Passing cloud	Sunny, Passing cloud
Friday	15/07/2016	Sunny, Passing cloud	Sunny, Passing cloud
Saturday	16/07/2016	Dry, Cloudy	Sunny, Passing cloud
Sunday	17/07/2016	Sunny, Passing cloud	Sunny, Passing cloud

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site HA04 Eve’s 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE T01 - NUMBER 131 LEVEL CROSSING

Job Number	3267-LON-T01
Checked	Ross De Vere
Date	10/10/2016
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 Number 131 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

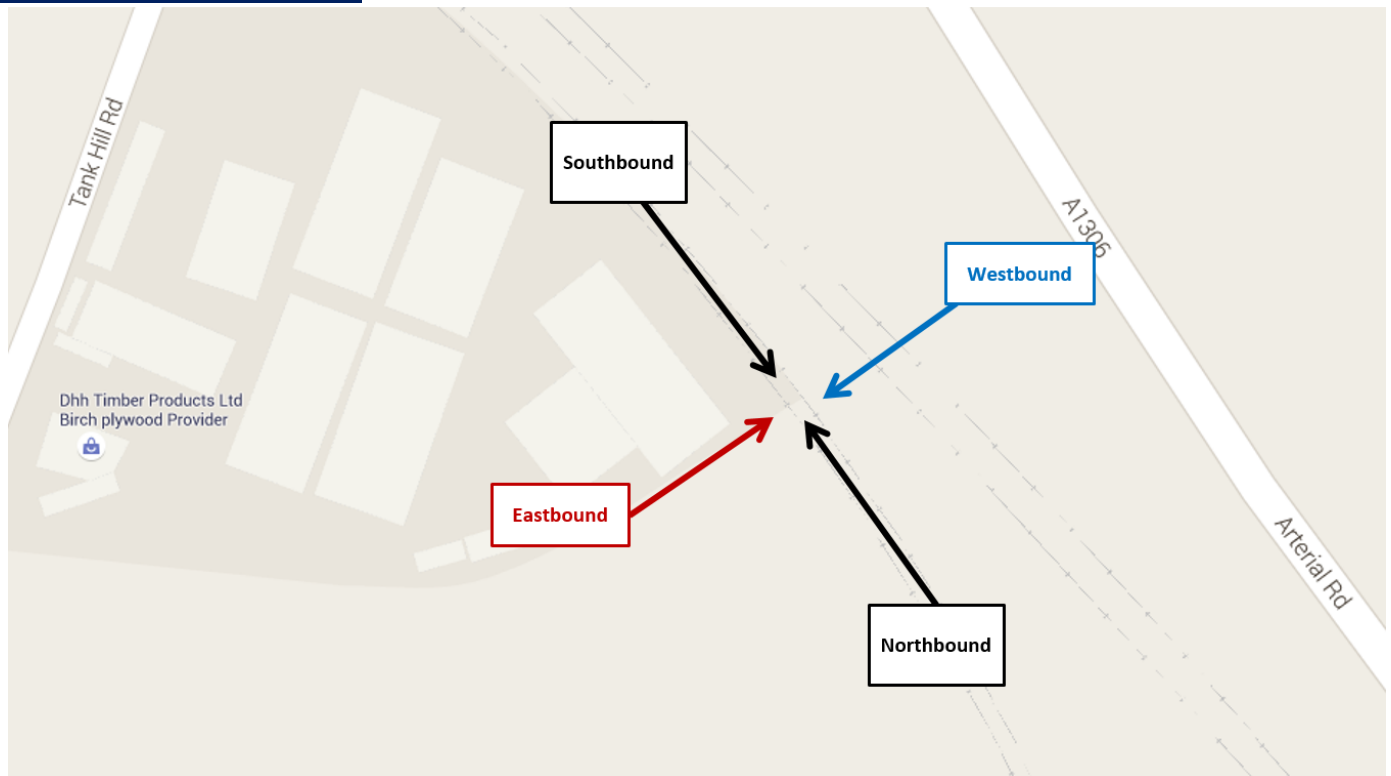
T01 - Number 131 Level Crossing – Busiest Quarter Hourly Periods

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

For Pedestrians, the busiest quarter hourly period occurred at 14:00 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 T01 Number 131 Level Crossing, is Monday 11th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	2	0	0	0	0	2
Sunday 10/07/2016	1	0	0	0	0	0	0	0	0	1
Monday 11/07/2016	2	0	0	0	0	0	0	0	0	2
Tuesday 12/07/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	1	0	0	0	0	0	0	0	0	1
Friday 15/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 16/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 17/07/2016	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	2	0	0	0	0	8

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	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	09/07/2016	Dry, Cloudy	Dry, Cloudy
Sunday	10/07/2016	Dry, Cloudy	Sunny, Passing clouds
Monday	11/07/2016	Dry, Cloudy	Dry, Cloudy, Light Rain
Tuesday	12/07/2016	Sunny, Passing clouds	Dry, Cloudy
Wednesday	13/07/2016	Sunny, Passing clouds	Dry, Cloudy
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Dry, Cloudy
Saturday	16/07/2016	Dry, Cloudy	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site T01 Number 131 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE T04 JEFFERIES LEVEL CROSSING

Job Number	3267-LON-T04
Checked	11/10/2016
Date	10/10/2016
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 Jefferies 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

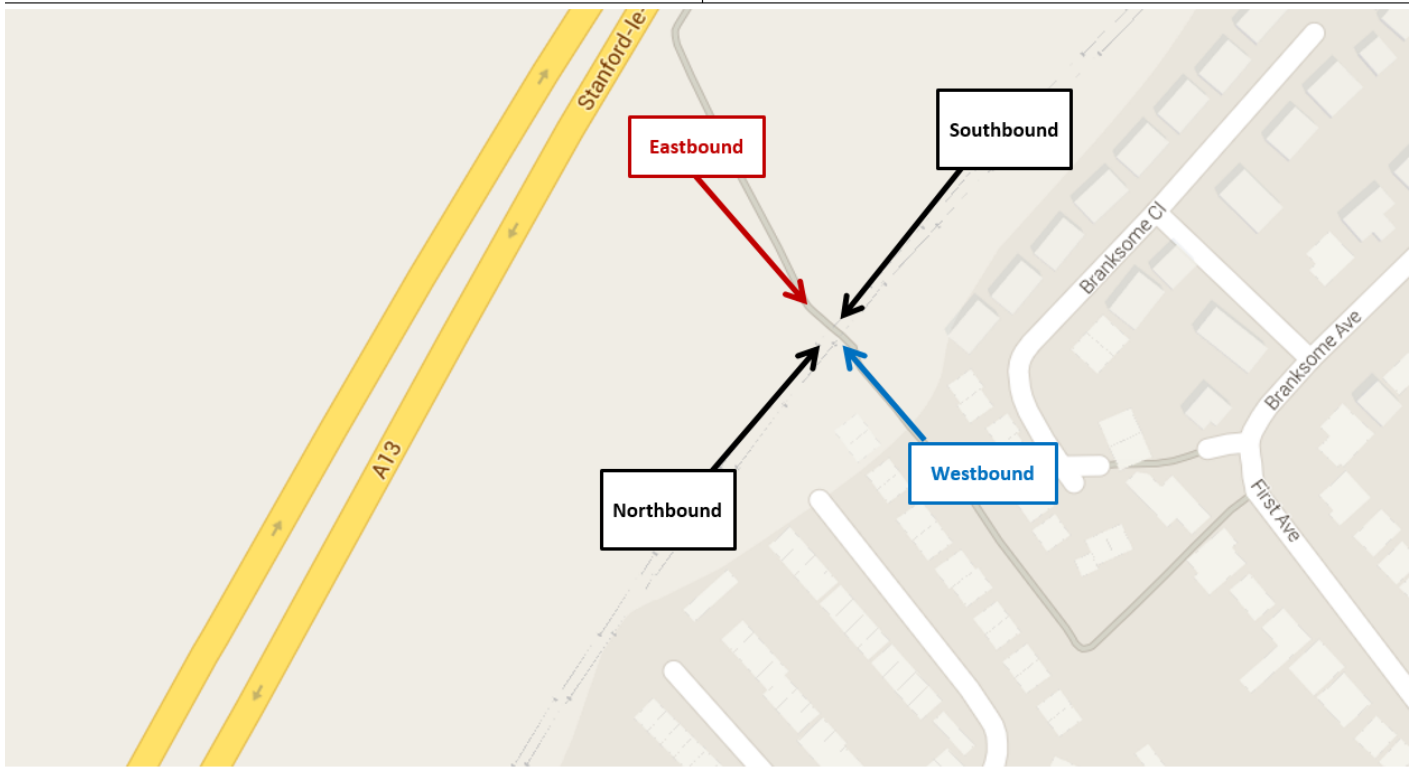
Jefferies Level Crossing – Busiest Quarter Hourly Periods

For Cyclists & Equestrian, the busiest quarter hourly period occurred at 18:45 on Day 5 with 1 pedestrians*.

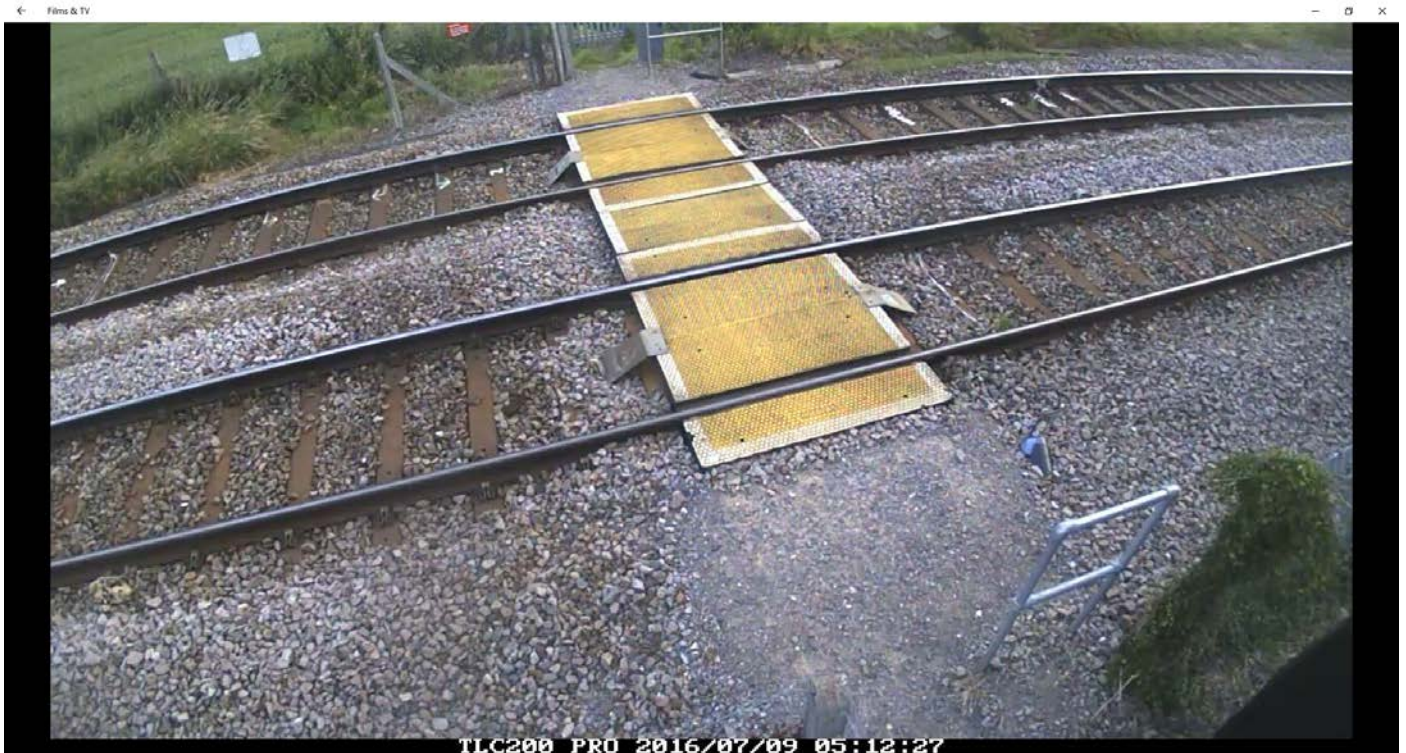
For Pedestrians, the busiest quarter hourly period occurred at 20:15 on Day 1 with 6 pedestrians*.

* 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 census undertaken at the Level Crossing was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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. On day 5 (13th July 2016) at 21:32:49 a motorcycle was pushed over the level crossing, and at 21:55:56 a motorcycle was ridden over the level crossing.

Footage will be provided for the census, as per the specification. The busiest day for 3267-LON Site Site T04 Jefferies Level Crossing, is Thursday 14th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	12	0	6	0	0	0	0	0	0	18
Sunday 10/07/2016	26	0	0	0	0	0	0	0	0	26
Monday 11/07/2016	13	0	0	0	0	0	0	0	2	15
Tuesday 12/07/2016	6	0	0	0	0	0	0	0	0	6
Wednesday 13/07/2016	7	0	0	0	0	0	0	0	4	11
Thursday 14/07/2016	24	0	0	0	0	0	0	0	0	24
Friday 15/07/2016	13	0	0	0	0	0	0	0	0	13
Saturday 16/07/2016	19	2	0	0	0	0	0	0	0	21
Sunday 17/07/2016	19	0	0	0	0	0	0	0	0	19
	139	2	6	0	0	0	0	0	6	153

Equestrians and Cyclists*

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

Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	0
Wednesday 13/07/2016	0	1	2
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	4
Sunday 17/07/2016	0	0	1
	0	1	7

*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	09/07/2016	Sunny, Passing clouds	Dry, Cloudy
Sunday	10/07/2016	Dry, Cloudy	Sunny, Passing clouds
Monday	11/07/2016	Dry, Cloudy	Sunny, Passing clouds
Tuesday	12/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Wednesday	13/07/2016	Sunny, Passing clouds	Dry, Cloudy
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Dry, Cloudy
Saturday	16/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site T04 Jefferies 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JULY 2016

3267-LON SITE T05 HOWELLS FARM LEVEL CROSSING

Job Number	3267-LON-T05
Checked	11/10/2016
Date	10/10/2016
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 Howells Farm 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 09th July 2016 to Sunday 17th July 2016 over the hours 00:00 – 24:00 each day. 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.

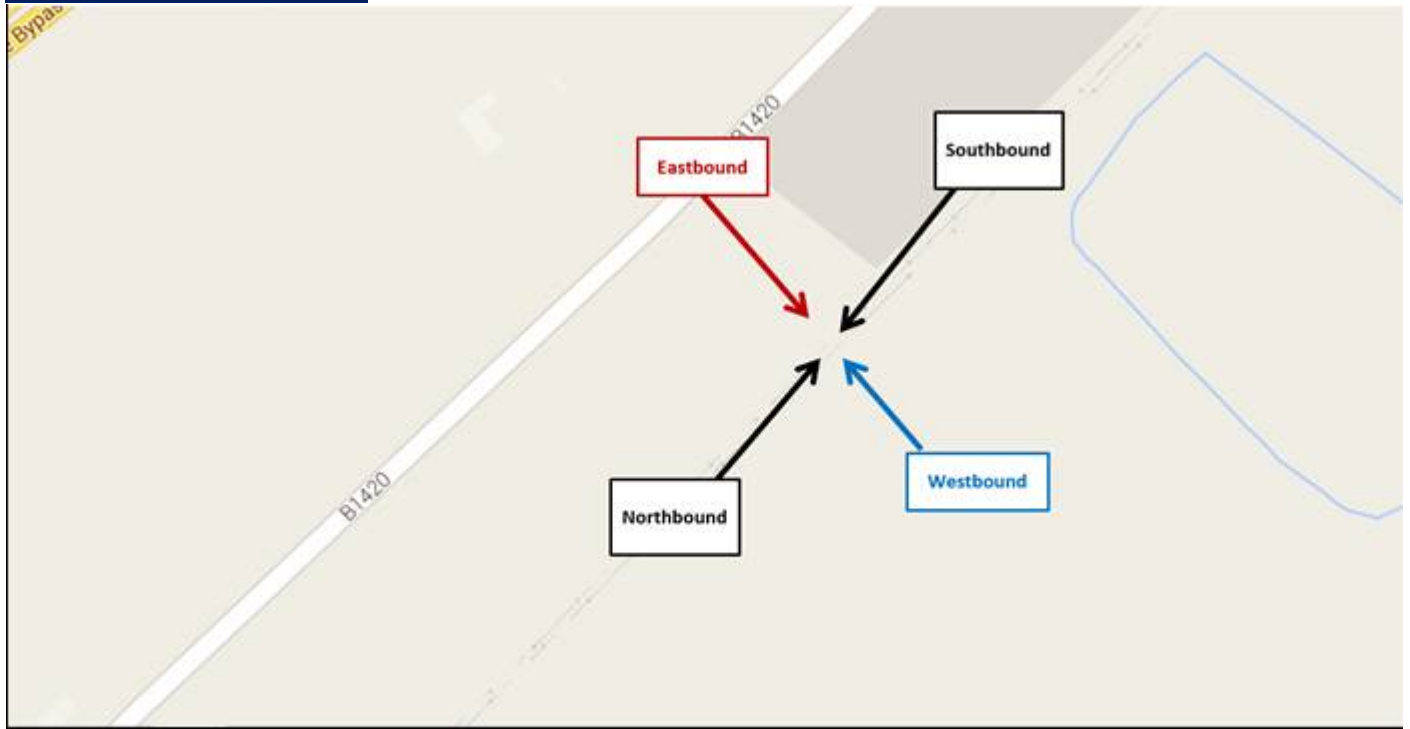
Howells Farm Level Crossing – Busiest Quarter Hourly Periods

For Cyclists & Equestrian, the busiest quarter hourly period occurred at 11:00 on Day 4 with 1 pedestrians*.

For Pedestrians, the busiest quarter hourly period occurred at 11:45 on Day 6 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 was successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 09th July 2016 and continued for nine days until Sunday 17th July 2016 with census hours of 00:00 to 24:00. 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 T05 Howells Farm Level Crossing, is Tuesday 12th July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 09/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 10/07/2016	3	0	0	0	0	0	0	0	0	3
Monday 11/07/2016	2	0	0	0	0	0	0	0	0	2
Tuesday 12/07/2016	3	0	0	0	0	0	0	0	0	3
Wednesday 13/07/2016	0	0	0	0	0	0	0	0	0	0
Thursday 14/07/2016	2	0	0	0	0	0	0	0	0	2
Friday 15/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 16/07/2016	2	0	0	0	0	0	0	0	0	2
Sunday 17/07/2016	4	0	0	0	0	0	0	0	2	6
	16	0	0	0	0	0	0	0	2	18

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday 09/07/2016			
Sunday 10/07/2016			
Monday 11/07/2016			
Tuesday 12/07/2016	0	0	1
Wednesday 13/07/2016	0	0	0
Thursday 14/07/2016	0	0	0
Friday 15/07/2016	0	0	0
Saturday 16/07/2016	0	0	0
Sunday 17/07/2016	0	0	1
	0	0	2

*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	09/07/2016	Dry, Cloudy	Dry, Cloudy
Sunday	10/07/2016	Dry, Cloudy	Sunny, Passing Clouds
Monday	11/07/2016	Dry, Cloudy	Dry, Cloudy, Little rain, Passing clouds
Tuesday	12/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Wednesday	13/07/2016	Dry, Cloudy, Little rain	Dry, Cloudy, Little rain
Thursday	14/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Friday	15/07/2016	Sunny, Passing clouds	Sunny, Passing clouds
Saturday	16/07/2016	Dry, Cloudy	Sunny, Passing clouds
Sunday	17/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site T05 Howells Farm 9-Day Census”