

**LAND EAST OF TYE LANE, WALBERTON**

**TRANSPORT STATEMENT**

**REPORT REF NO. 183246-02A**

**PROJECT NO. 183246**

**SEPTEMBER 2020**

# **LAND EAST OF TYE LANE, WALBERTON**

## **TRANSPORT STATEMENT**

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**SEPTEMBER 2020**

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**DRAWINGS**

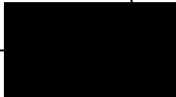
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| REV | ISSUE PURPOSE          | AUTHOR | CHECKED | APPROVED                                                                            | DATE       |
|-----|------------------------|--------|---------|-------------------------------------------------------------------------------------|------------|
| -   | Draft for Team Comment | MRH    | KM      | DRAFT ONLY                                                                          | 17-08-2020 |
| -   | Final                  | MRH    | MRH     | KM                                                                                  | 26-08-2020 |
| A   | Updated layout         | MRH    | MRH     |  | -09-2020   |

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## 1.0 INTRODUCTION

- 1.1 Ardent Consulting Engineers (ACE) has been appointed by Vistry Group PLC to provide highways and transportation advice to support a planning application of the proposed residential development at Land East of Tye Lane, Walberton, submitted to Arun District Council (ADC).
- 1.2 A Reserved Matters (RM) application (reference: WA/95/18/RES) was approved on the 16<sup>th</sup> April 2019 and detailed the appearance, landscaping, layout and scale for 175 new dwellings.
- 1.3 The planning application is for a revision to part of the permitted and partially implemented development at Tye Lane, Walberton. The description of development is as follows:

*Full Planning Application to revise the approved and partly implemented permission (WA/95/18/RES and WA/44/17/OUT) at land at Tye Lane, Walberton to provide for 30 additional dwellings including 9 affordable units with associated landscaping, road layout, access and parking.*

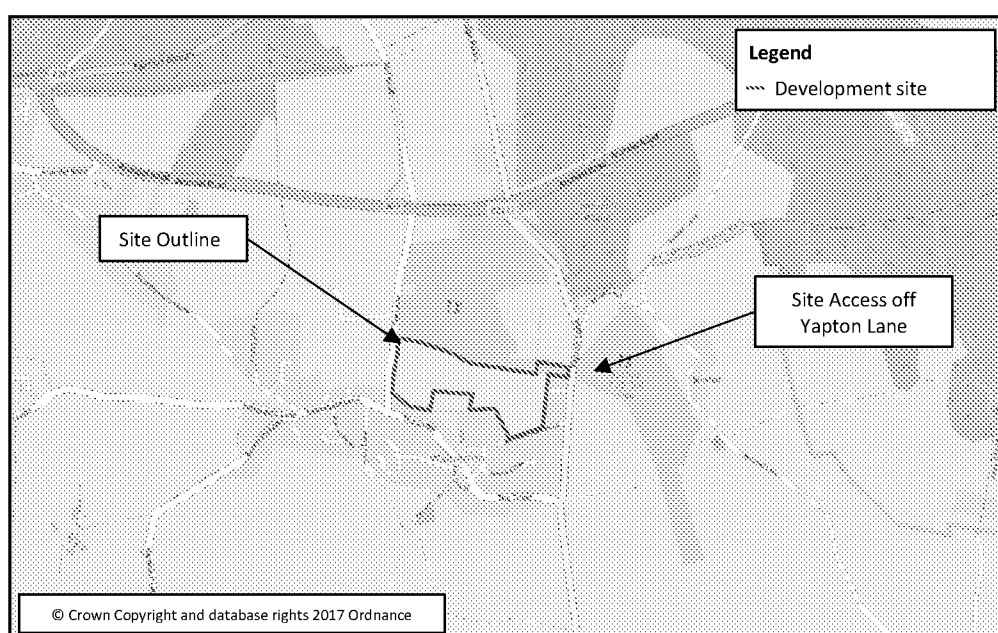
- 1.4 The proposal seeks to provide 30 new dwellings on the approved development site (WA/95/18/RES and WA/44/17/OUT) which was granted consent for a total of 175 dwellings. A total of 81 residential units were to be situated within the area proposed to be revised by this current planning application. The proposal will therefore provide a total of 111 dwellings incorporating 9 affordable units (an uplift of 30 dwellings from the approved 81 dwellings). Across the wider site this will deliver 205 new dwellings in total.

- 1.5 The proposed site layout plan, drawing reference '6913 PL\_LOC\_1', is submitted separately as part of the planning submission.
- 1.6 The vehicular access to the site from Yapton Lane was approved as part of the outline planning permission, (WA/44/17/OUT) in 2018; and is located in the north east corner of the site, directly onto Yapton Lane. The vehicular access to the proposals will be retained as per the consented arrangements.
- 1.7 Following this introduction, the remainder of this report is structured as follows: -
- **Section 2.0** provides a description of the existing site conditions in relation to location, the surrounding highway, access, parking, servicing and refuse collection arrangements and examines the accessibility of the site by all available transport modes and considers the proximity of the site to local facilities;
  - **Section 3.0** provides a description of the proposed development including site access, parking and servicing arrangements;
  - **Section 4.0** derives the weekday peak hour trip generation for the proposed residential development and compares against the consented scheme;
  - **Section 5.0** provides a summary and sets out the conclusions.

## 2.0 EXISTING SITUATION

### Site Location

- 2.1 The site, as shown in **Plate 2.1**, is situated at the north side of Walberton Village and is bound by: Yapton Lane to the east; Tye Lane to the west and Avisford Park Hotel and Golf Club to the north.



**Plate 2.1: Site Location**

### ***Local Highway Network***

- 2.2 Yapton Lane is a two-way single carriageway road of varying width, between 6.5m and 7.1m, and has a footway along its western side.
- 2.3 Yapton Lane provides a connection between the centre of Walberton village via The Street to the south and to the A27 to the north.
- 2.4 Tye Lane is a two-way single carriageway road approximately 4.8m wide that forms the western site boundary. It also connects with the A27 to the north and to the centre of Walberton village to the south via The Street.

- 2.5 The A27 is part of the strategic road network connecting Brighton and Chichester locally.

### ***Pedestrian and Cycling Infrastructure***

- 2.6 The consented scheme proposed improvements to the connections from the site with Walverton village and existing infrastructure locally. These are summarised below:

- Yapton Lane – Proposed site access will contain footways which will connect to the existing footways along the western site of Yapton Lane; and
- A shared pedestrian / cycle path will be provided to the west of the site that will connect to Tye Lane.

- 2.7 In addition to the above, Tye Lane is lightly trafficked and although there are no dedicated footways, it is regularly used by cyclists and walkers.

- 2.8 There is also a new shared cycle/pedestrian route that runs between Walberton and Barnham railway station which provides an off-road route.

- 2.9 On the basis of the above, the consented pedestrian and cycling infrastructure will be conducive for future residents to undertake sustainable forms of transport and integrated with the existing facilities locally.

### ***Public Transport Accessibility***

#### ***Bus Services***

- 2.10 The nearest bus stops are located on Yapton Lane, approximately 475m to the east of the centre of the site or a 6-minute walk. Facilities

in the form of bus flagpole and timetable information are provided and these will be upgraded as part of the application.

- 2.11 Further stops are located 550m from the site at The Street, adjacent to the Holly Tree Junction.
- 2.12 The bus stops are served by two regular services, the 85/85A and 66, which operate Monday to Saturday. A summary of the frequencies of these services are provided within **Table 2.1** below.

**Table 2.1: Bus Service Frequency**

| Route  | Bus Stop                                         | Destination                                                                                   | Service Frequency  |                    |         |
|--------|--------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|--------------------|---------|
|        |                                                  |                                                                                               | Weekday            | Saturdays          | Sundays |
| 85/85A | Yapton Lane                                      | Arundel –<br>Walberton –<br>Fontwell –<br>Chichester                                          | Every 2<br>Hours   | Every 2<br>Hours   | -       |
| 66     | The Street<br>– Old<br>Vicarage /<br>Post Office | Bognor regis<br>– Yapton –<br>Walberton –<br>Barnham –<br>Bognor Regis<br>(circular<br>Route) | Every 4-5<br>Hours | Every 4-5<br>Hours | -       |

- 2.13 In addition to the above, there are also three school services from the bus stop at The Street which travel to Ormiston Six Villages Academy, Chichester High School and St Philip Howard School.

#### *Rail Services*

- 2.14 Barnham Railway Station is located some 3km to the south of the site and is accessible via bus route 66 / 85A.
- 2.15 In addition to using the bus, future residents could also use the previously mentioned designated off-road shared footway / cycleway that runs between Walberton and Barnham.

2.16 In terms of facilities at Barnham railway station, there are 142 car parking spaces, 2 accessible spaces and 62 secure cycle storages spaces.

2.17 Destinations from this station include Southampton, London, Portsmouth, Brighton, Chichester, Bognor Regis and Littlehampton. Up to date information regarding timetables can be accessed [www.nationalrail.co.uk](http://www.nationalrail.co.uk).

#### *Local Amenities and Services*

2.18 The site is situated within close proximity of several shops and amenities within Walberton Village Centre. The location of these facilities are summarised below within **Table 2.2**:

**Table 2.2: Local Service / Amenities**

| Service / Amenity             | Road Name  | Distance from Site |
|-------------------------------|------------|--------------------|
| Laundrette                    | The Street | 500m South         |
| Dentist                       | The Street | 500m South         |
| Convenience Store             | The Street | 500m South         |
| Public House (The Holly Tree) | The Street | 575m South         |

2.19 The Chartered Institution of Highways and Transportation (CIHT) document "Guidelines for Providing For Journeys on Foot" (2000) notes in paragraph 1.12 that walking accounts for over a quarter of all journeys and four fifths of journeys less than one mile. Infrastructure that supports efficient travel on foot is therefore of great importance in the continuation of the promotion of sustainable travel and walking as a viable alternative to short car trips. The list above therefore illustrates that the site is suitable located to promote sustainable travel within the local area.

### 3.0 PROPOSED DEVELOPMENT

- 3.1 A full description of the proposed redevelopment of the site is contained in the supporting documents accompanying the planning application.
- 3.2 The proposal seeks to provide 30 new dwellings on the approved development site (WA/95/18/RES and WA/44/17/OUT) which was granted consent for a total of 175 dwellings. A total of 81 residential units were to be situated within the area proposed to be revised by this current planning application. The proposal will therefore provide a total of 111 dwellings incorporating 9 affordable units (an uplift of 30 dwellings from the approved 81 dwellings). Across the wider site this will deliver 205 new dwellings in total.
- 3.3 Access to the site is to remain as per the consented arrangement, whilst the provision of open space and other onsite facilities also remains unchanged.
- 3.4 The updated schedule of accommodation for the replanned area is included on **Table 3.1**.

**Table 3.1: Consented and Proposed Schedule of Accommodation**

| Bedrooms     | Consented      |                    | Proposed       |                    |
|--------------|----------------|--------------------|----------------|--------------------|
|              | Market housing | Affordable housing | Market housing | Affordable housing |
| 1            | -              | -                  | -              | 2                  |
| 2            | 10             | -                  | 35             | 7                  |
| 3            | 29             | -                  | 55             | -                  |
| 4            | 42             | -                  | 12             | -                  |
| <b>Total</b> | <b>81</b>      | <b>0</b>           | <b>102</b>     | <b>9</b>           |

#### Access

- 3.5 Access to the site is from Yapton Lane in the form of a priority "T" junction, reflecting the consented arrangements that also included

the provision of footway along the western side of Yapton Lane to tie into the existing footway.

#### *Internal Layout*

- 3.6 The proposed layout largely reflects the approved highway geometry and involves changes to the plot types to accommodate the additional dwellings.
- 3.7 From the site access, a central spine road extends west through the site and incorporates 5.5m wide carriageway and a dedicated footway provision, with a turning head at its western extent. As per the consented arrangements, the central spine road is anticipated to be put forward for adoption.
- 3.8 Leading off the spine road, short loops and cul-de-sacs provide access to additional dwellings and incorporate suitable turning head facilities.

#### *Refuse Collection*

- 3.9 Refuse collection will be provided for as per the consented application.
- 3.10 As shown on **ACE Drawing No. 183246-001** the layout has been designed to allow refuse vehicles to get within a suitable distance of each property or refuse collection points and also allow suitable turning provision for fire tenders, as well as private cars.

#### *Car Parking Provision*

- 3.11 As per the details confirmed within the pre-application letter submitted to Arun by ECE planning, the propose re-plan seeks to deliver a scheme compliant with adopted Arun Parking Standards with at least 2 spaces proposed per 2/3 bedroom houses, and 3 spaces per 4 bedroom house.
- 3.12 The WSCC Guidance on Parking at New Developments sets out residential parking demand for each Parking Behaviour Zone (PBZ). The site lays within PBZ1. **Table 3.2** shows the WSCC parking

demand, as set out in Table 2 of the WSCC Guidance on Parking at new developments (2020) and applies it to the proposed unit mix of development proposals.

**Table 3.2: WSCC Parking Demand**

| Bedrooms     | PBZ1 (spaces per dwelling) | Development proposals | Parking Demand |
|--------------|----------------------------|-----------------------|----------------|
| 1            | 1.5                        | 2                     | 3              |
| 2            | 1.7                        | 42                    | 71.4           |
| 3            | 2.2                        | 55                    | 121            |
| 4+           | 2.7                        | 12                    | 32.4           |
| <b>Total</b> |                            | <b>111</b>            | <b>228</b>     |

3.13 The WSCC parking guidance sets the parking demand of the site at 228 spaces.

3.14 2020 Arun Parking Standards (which are rounded to whole numbers compared to the WSCC Guidance), require:

- 1 bedroom (1-3 habitable rooms) – 2 parking spaces
- bedroom (4 habitable rooms) – 2 parking spaces
- bedroom (5-6 habitable rooms) – 2 parking spaces
- 4+ bedroom (7+ habitable rooms) – 3 parking spaces

3.15 Based on the proposed unit mix this equates to a total demand of 234 spaces.

3.16 It is proposed that there will be 224 allocated external parking spaces and 12 garage spaces, equating to a total of 236 spaces which is in accordance with both the Arun and WSCC parking requirements.

3.17 28 visitor spaces are also provided, in excess of the 10% visitor parking requirement (based on the number of units) set out within the Arun Parking Standards, which would require 12 spaces for the 111 units.

- 3.18 Overall, the level of parking therefore well within the 10% accepted level of variation set out within WSCC guidance.
- 3.19 In reviewing 2011 Census data on Car Ownership for Walberton Ward, within which the site is located, privately owned houses with 6 habitable rooms have parking demand amounting to 1.72 spaces per dwelling, whilst 7 habitable rooms have parking demand amounting to 1.80 spaces per dwelling and dwellings with 8+ habitable rooms have 2.04 spaces per dwelling.
- 3.20 Noting that the Arun parking standards require 3 spaces per dwelling and WSCC 2.7 spaces per dwelling for larger dwellings, it is clear from the Census data that only 2 of those spaces would likely be utilised for parking demand and the provision is therefore suitable.
- 3.21 Furthermore, it is noted that the original wider scheme was over providing visitor parking spaces with a total of 47 spaces (whereas only 35 were required to meet standards). WSCC parking guidance requires visitor parking to be provided at 0.2 spaces per dwelling, which is based on DCLG Residential Car Parking Research guidance, and a study of one site in 1996 on the outskirts of Reading which sets out there this is for up to 0.2 spaces per unit. The overall site will contain 205 dwellings so therefore up to 41 visitor spaces are required. Within the replan area the proposal seeks to increase visitor provision by 6 spaces, totalling at 53 spaces across the wider site.
- 3.22 Given the re-plan area incorporates further visitor parking, retaining an overprovision, and Census data indicates on-plot parking will cater for anticipated demand, the scheme satisfactorily accommodates appropriate levels of car parking.
- 3.23 Electric Vehicle (EV) charging points will be provided in line with the more stringent of the WSCC and Arun Parking standards. Arun Parking standards require all houses with a driveway and garage to be supplied with Active EV charging for all spaces, and for a development

completing in 2021, 26% of the remaining spaces require an Active EV charging point, resulting in 90 spaces with Active EV charging. WSCC guidance states that 33% of spaces require an Active EV charging point, resulting in 75 spaces. Therefore the Arun Parking Standards will be adopted.

#### *Cycle Parking Provision*

- 3.24 Cycle parking provision will be provided in excess of the requirements set out in WSCC's Guidance on Parking at New Developments as shown on **Table 3.3** below with 2 spaces provided for each home, either on-plot for the houses, within a dedicated cycle store, or in a suitably sized garage.

**Table 3.3: WSCC Cycle Parking**

| Bedrooms     | Cycle Space Requirement<br>(per unit) | Proposed No. Units | Cycle Spaces Proposed |
|--------------|---------------------------------------|--------------------|-----------------------|
| 1            | 1                                     | 2                  | 4                     |
| 2            | 1                                     | 42                 | 84                    |
| 3            | 2                                     | 55                 | 110                   |
| 4+           | 2                                     | 12                 | 24                    |
| <b>Total</b> |                                       | <b>111</b>         | <b>222</b>            |

#### *Adoption Plan*

- 3.25 The central spine road will be offered for adoption as public highway, which will include both the adjacent footways and swales. The areas anticipated to be put forward for adoption are set out within **ACE Drawing 183246-002**.

- 3.26 This will be agreed post application through a separate Section 38 Agreement.

#### *Construction*

- 3.27 A Construction Management Plan (CMP) (reference: 183240-06C) was produced by ACE to support a RM application for the consented scheme. The CMP established measures to minimise the impact of

the construction of the development on the surrounding area. The measures as set out within the approved CMP will be utilised for the current proposals, although there are ongoing discussions regarding the opportunity to provide a dedicated construction access via Tye Lane, which would remove the need for construction and residential traffic to 'mix', reducing the opportunity for conflict.

#### *Off-Site Highway Improvements*

- 3.28 As part of the previous submission, off-site highway improvements have already been agreed as part of a S278 agreement with WSCC including amendments to signage, improved crossings etc. Further discussions are also ongoing with Highways England regarding improvements to the A27 Junction with Yapton Lane.

## 4.0 TRIP GENERATION

### Methodology

- 4.1 This section examines the potential person trip movements associated with the uplift in dwellings at the development, and the overall impact on the surrounding highway.
- 4.2 The consented outline application for 175 dwellings was supported by a Transport Assessment (TA) that considered the potential impact of residential development on the site, with this assessment undertaken for a 200-unit scheme for robustness.
- 4.3 This previously agreed methodology has been adopted to determine the impact of the revised proposal.
- 4.4 The consented scheme TA considered 'Private Housing' trip rates to predict the level of traffic associated with the approved scheme. We have applied these agreed trip rates (outputs at **Appendix A**) to both the private and affordable elements of the proposed scheme, which is considered robust.
- 4.5 **Table 4.1** sets out the trip rates adopted as well as providing a comparison between the trip generation assessment set out in the TA which accompanied the consented scheme, and proposed scheme.

**Table 4.1: Trip Generation**

| Site                                                      | Weekday AM Peak<br>(08:00-09:00) |              | Weekday PM Peak<br>(17:00-18:00) |              | Weekday 12-hour<br>(07:00-19:00) |              |
|-----------------------------------------------------------|----------------------------------|--------------|----------------------------------|--------------|----------------------------------|--------------|
|                                                           | Arr                              | Dep          | Arr                              | Dep          | Arr                              | Dep          |
| <b>Vehicle Trip Rates – Private Houses (per dwelling)</b> | <b>0.107</b>                     | <b>0.523</b> | <b>0.321</b>                     | <b>0.161</b> | <b>2.838</b>                     | <b>2.923</b> |
| Consented Trip Generation (200 houses)                    | 29                               | 80           | 73                               | 42           | 483                              | 505          |
| <b>Proposed Trip Generation (205 houses)</b>              | <b>29</b>                        | <b>82</b>    | <b>75</b>                        | <b>43</b>    | <b>495</b>                       | <b>518</b>   |
| Net Change                                                | +1                               | +2           | +2                               | +1           | +12                              | +13          |

\*Minor errors present due to rounding.

- 4.6 As can be seen in **Table 4.1** the proposed development is expected to result in an increase of up to three two-way trips during the AM/PM weekday peak hours, with a total of 25 additional one-way trips over a 12-hour weekday. This is an immaterial increase in trips and would have not have any perceivable impact on the operation, capacity or safety of the local highway network.

### Traffic Impact Assessment

- 4.7 Junction capacity modelling was undertaken as part of the original application on the basis of a 200-dwelling scheme in lieu of the consented 175 dwelling scheme. These proposals therefore only amount to an additional 5 dwellings above the number of units previously assessed.
- 4.8 The net uplift of 5-dwellings equates to an increase of three additional two-way vehicle movements in the AM and PM peak hours.
- 4.9 **Table 4.2** shows the 2031 junction capacity assessment for the site access from the original TA for the consented scheme, which was undertaken using PICADY junction capacity assessment software.

**Table 4.2: Site Access Assessment Results  
(2031 with Development)**

|             | Morning Peak |             |           | Evening Peak |             |           |
|-------------|--------------|-------------|-----------|--------------|-------------|-----------|
|             | RFC          | Queue (Veh) | Delay (s) | RFC          | Queue (Veh) | Delay (s) |
| Site Access | 0.19         | <1          | 11        | 0.08         | <1          | 8         |
| Yapton Lane | 0.04         | <1          | 6         | 0.10         | <1          | 5         |

- 4.10 The Ratio of Flow to Capacity (RFC) of the site access junction is very low, operating well within capacity. As such, it is considered an additional 3 two-way vehicular movements in a peak hour would result in an imperceivable impact to the operation of this junction.

- 4.11 A number of other junctions including the A27 junction improvements were previously assessed as part of the previous application, however considering the low number of additional vehicular trips associated with these proposals it is considered there would be an imperceivable impact to the operation, capacity or safety, particularly each of these junctions.

## 5.0 CONCLUSIONS

- 5.1 This Transport Statement has been prepared to support a planning application for an uplift in the number of dwellings at the consented and partially implemented development at Tye Lane, Walberton.
- 5.2 The proposals will result in an uplift of 30 residential units at the site to provide a total of 205 dwellings, together with associated landscaping and public open space.
- 5.3 It is proposed that the consented access arrangements from Yapton Lane will be unchanged from the consented scheme.
- 5.4 The internal layout largely reflects the consented arrangements, with a central spine road offered for adoption. Vehicular turning can be accommodated, with the refuse collection strategy remaining as consented.
- 5.5 Parking provision has been reviewed and incorporated in accordance with policy requirements and is considered suitable when considered against the forecast demand, based on an assessment of census data.
- 5.6 Based on the trip generation analysis, it is considered that the proposed development would not have an adverse impact on the existing highway network from an operation, capacity or highway safety perspective when compared to the consented scheme. There would be a negligible impact on the surrounding junctions with only 3 additional trips in the am and pm peak hours.
- 5.7 Overall, it is demonstrated that the development proposals would not adversely affect the performance of the local highway and public transport networks, accords with local, regional and national planning policies, and should therefore be considered acceptable on highways grounds.

## **Appendix A**

Calculation Reference: AUDIT-236601-170411-0446

**TRIP RATE CALCULATION SELECTION PARAMETERS:**

Land Use : 03 - RESIDENTIAL  
 Category : A - HOUSES PRIVATELY OWNED

**VEHICLES**Selected regions and areas:

|           |                                           |        |
|-----------|-------------------------------------------|--------|
| <b>02</b> | <b>SOUTH EAST</b>                         |        |
|           | EX ESSEX                                  | 1 days |
|           | HC HAMPSHIRE                              | 1 days |
|           | SC SURREY                                 | 1 days |
|           | WS WEST SUSSEX                            | 1 days |
| <b>03</b> | <b>SOUTH WEST</b>                         |        |
|           | CW CORNWALL                               | 1 days |
|           | DC DORSET                                 | 1 days |
|           | DV DEVON                                  | 2 days |
| <b>04</b> | <b>EAST ANGLIA</b>                        |        |
|           | NF NORFOLK                                | 1 days |
|           | SF SUFFOLK                                | 2 days |
| <b>05</b> | <b>EAST MIDLANDS</b>                      |        |
|           | LN LINCOLNSHIRE                           | 2 days |
| <b>06</b> | <b>WEST MIDLANDS</b>                      |        |
|           | SH SHROPSHIRE                             | 2 days |
|           | WM WEST MIDLANDS                          | 1 days |
| <b>07</b> | <b>YORKSHIRE &amp; NORTH LINCOLNSHIRE</b> |        |
|           | NE NORTH EAST LINCOLNSHIRE                | 1 days |
|           | NY NORTH YORKSHIRE                        | 3 days |
|           | SY SOUTH YORKSHIRE                        | 1 days |
| <b>08</b> | <b>NORTH WEST</b>                         |        |
|           | CH CHESHIRE                               | 2 days |
| <b>09</b> | <b>NORTH</b>                              |        |
|           | CB CUMBRIA                                | 1 days |
| <b>10</b> | <b>WALES</b>                              |        |
|           | CF CARDIFF                                | 1 days |
| <b>11</b> | <b>SCOTLAND</b>                           |        |
|           | FA FALKIRK                                | 1 days |
|           | FI FIFE                                   | 1 days |
|           | SR STIRLING                               | 1 days |

*This section displays the number of survey days per TRICS® sub-region in the selected set*

**Secondary Filtering selection:**

*This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.*

Parameter: Number of dwellings  
 Actual Range: 51 to 432 (units: )  
 Range Selected by User: 50 to 500 (units: )

**Public Transport Provision:**

Selection by: Include all surveys

Date Range: 01/04/07 to 29/11/16

*This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.*

**Selected survey days:**

|           |        |
|-----------|--------|
| Monday    | 8 days |
| Tuesday   | 7 days |
| Wednesday | 4 days |
| Thursday  | 5 days |
| Friday    | 4 days |

*This data displays the number of selected surveys by day of the week.*

**Selected survey types:**

|                       |         |
|-----------------------|---------|
| Manual count          | 28 days |
| Directional ATC Count | 0 days  |

*This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.*

**Selected Locations:**

|                                    |    |
|------------------------------------|----|
| Suburban Area (PPS6 Out of Centre) | 15 |
| Edge of Town                       | 13 |

*This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.*

**Selected Location Sub Categories:**

|                  |    |
|------------------|----|
| Residential Zone | 23 |
| No Sub Category  | 5  |

*This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.*

**Secondary Filtering selection:****Use Class:**

|    |         |
|----|---------|
| C3 | 28 days |
|----|---------|

*This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.*

**Secondary Filtering selection (Cont.):**Population within 1 mile:

|                  |        |
|------------------|--------|
| 1,001 to 5,000   | 2 days |
| 5,001 to 10,000  | 7 days |
| 10,001 to 15,000 | 6 days |
| 15,001 to 20,000 | 8 days |
| 20,001 to 25,000 | 4 days |
| 25,001 to 50,000 | 1 days |

*This data displays the number of selected surveys within stated 1-mile radii of population.*

Population within 5 miles:

|                    |        |
|--------------------|--------|
| 5,001 to 25,000    | 3 days |
| 25,001 to 50,000   | 4 days |
| 50,001 to 75,000   | 2 days |
| 75,001 to 100,000  | 5 days |
| 100,001 to 125,000 | 6 days |
| 125,001 to 250,000 | 5 days |
| 250,001 to 500,000 | 3 days |

*This data displays the number of selected surveys within stated 5-mile radii of population.*

Car ownership within 5 miles:

|            |         |
|------------|---------|
| 0.6 to 1.0 | 6 days  |
| 1.1 to 1.5 | 22 days |

*This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.*

Travel Plan:

|     |         |
|-----|---------|
| Yes | 2 days  |
| No  | 26 days |

*This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.*

PTAL Rating:

|                 |         |
|-----------------|---------|
| No PTAL Present | 28 days |
|-----------------|---------|

*This data displays the number of selected surveys with PTAL Ratings.*

LIST OF SITES relevant to selection parameters

|          |                                    |                               |  |                     |
|----------|------------------------------------|-------------------------------|--|---------------------|
| <b>1</b> | <b>CB-03-A-04</b>                  | <b>SEMI DETACHED</b>          |  | <b>CUMBRIA</b>      |
|          | MOORCLOSE ROAD                     |                               |  |                     |
|          | SALTERBACK                         |                               |  |                     |
|          | WORKINGTON                         |                               |  |                     |
|          | Edge of Town                       |                               |  |                     |
|          | No Sub Category                    |                               |  |                     |
|          | Total Number of dwellings:         | 82                            |  |                     |
|          | Survey date: FRIDAY                | 24/04/09                      |  | Survey Type: MANUAL |
| <b>2</b> | <b>CF-03-A-02</b>                  | <b>MIXED HOUSES</b>           |  | <b>CARDIFF</b>      |
|          | DROPE ROAD                         |                               |  |                     |
|          | CARDIFF                            |                               |  |                     |
|          | Edge of Town                       |                               |  |                     |
|          | Residential Zone                   |                               |  |                     |
|          | Total Number of dwellings:         | 196                           |  |                     |
|          | Survey date: FRIDAY                | 05/10/07                      |  | Survey Type: MANUAL |
| <b>3</b> | <b>CH-03-A-02</b>                  | <b>HOUSES/ FLATS</b>          |  | <b>CHESHIRE</b>     |
|          | SYDNEY ROAD                        |                               |  |                     |
|          | CREWE                              |                               |  |                     |
|          | Edge of Town                       |                               |  |                     |
|          | Residential Zone                   |                               |  |                     |
|          | Total Number of dwellings:         | 174                           |  |                     |
|          | Survey date: TUESDAY               | 14/10/08                      |  | Survey Type: MANUAL |
| <b>4</b> | <b>CH-03-A-06</b>                  | <b>SEMI-DET./ BUNGALOWS</b>   |  | <b>CHESHIRE</b>     |
|          | CREWE ROAD                         |                               |  |                     |
|          | CREWE                              |                               |  |                     |
|          | Suburban Area (PPS6 Out of Centre) |                               |  |                     |
|          | No Sub Category                    |                               |  |                     |
|          | Total Number of dwellings:         | 129                           |  |                     |
|          | Survey date: TUESDAY               | 14/10/08                      |  | Survey Type: MANUAL |
| <b>5</b> | <b>CW-03-A-02</b>                  | <b>SEMI D./ DETACHED</b>      |  | <b>CORNWALL</b>     |
|          | BOSVEAN GARDENS                    |                               |  |                     |
|          | TRURO                              |                               |  |                     |
|          | Suburban Area (PPS6 Out of Centre) |                               |  |                     |
|          | Residential Zone                   |                               |  |                     |
|          | Total Number of dwellings:         | 73                            |  |                     |
|          | Survey date: TUESDAY               | 18/09/07                      |  | Survey Type: MANUAL |
| <b>6</b> | <b>DC-03-A-01</b>                  | <b>DETACHED</b>               |  | <b>DORSET</b>       |
|          | ISAACS CLOSE                       |                               |  |                     |
|          | POOLE                              |                               |  |                     |
|          | Suburban Area (PPS6 Out of Centre) |                               |  |                     |
|          | Residential Zone                   |                               |  |                     |
|          | Total Number of dwellings:         | 51                            |  |                     |
|          | Survey date: WEDNESDAY             | 16/07/08                      |  | Survey Type: MANUAL |
| <b>7</b> | <b>DV-03-A-02</b>                  | <b>HOUSES &amp; BUNGALOWS</b> |  | <b>DEVON</b>        |
|          | MILLHEAD ROAD                      |                               |  |                     |
|          | HONITON                            |                               |  |                     |
|          | Suburban Area (PPS6 Out of Centre) |                               |  |                     |
|          | Residential Zone                   |                               |  |                     |
|          | Total Number of dwellings:         | 116                           |  |                     |
|          | Survey date: FRIDAY                | 25/09/15                      |  | Survey Type: MANUAL |

LIST OF SITES relevant to selection parameters (Cont.)

|           |                                     |                                     |                     |
|-----------|-------------------------------------|-------------------------------------|---------------------|
| <b>8</b>  | <b>DV-03-A-03</b>                   | <b>TERRACED &amp; SEMI DETACHED</b> | <b>DEVON</b>        |
|           | LOWER BRAND LANE                    |                                     |                     |
|           | HONITON                             |                                     |                     |
|           | Suburban Area (PPS6 Out of Centre)  |                                     |                     |
|           | Residential Zone                    |                                     |                     |
|           | Total Number of dwellings:          | 70                                  |                     |
|           | Survey date: MONDAY                 | 28/09/15                            | Survey Type: MANUAL |
| <b>9</b>  | <b>EX-03-A-01</b>                   | <b>SEMI -DET.</b>                   | <b>ESSEX</b>        |
|           | MILTON ROAD                         |                                     |                     |
|           | CORRINGHAM                          |                                     |                     |
|           | STANFORD-LE-HOPE                    |                                     |                     |
|           | Edge of Town                        |                                     |                     |
|           | Residential Zone                    |                                     |                     |
|           | Total Number of dwellings:          | 237                                 |                     |
|           | Survey date: TUESDAY                | 13/05/08                            | Survey Type: MANUAL |
| <b>10</b> | <b>FA-03-A-02</b>                   | <b>MIXED HOUSES</b>                 | <b>FALKIRK</b>      |
|           | ROSEBANK AVENUE & SPRINGFIELD DRIVE |                                     |                     |
|           | FALKIRK                             |                                     |                     |
|           | Suburban Area (PPS6 Out of Centre)  |                                     |                     |
|           | Residential Zone                    |                                     |                     |
|           | Total Number of dwellings:          | 161                                 |                     |
|           | Survey date: WEDNESDAY              | 29/05/13                            | Survey Type: MANUAL |
| <b>11</b> | <b>FI-03-A-03</b>                   | <b>MIXED HOUSES</b>                 | <b>FIFE</b>         |
|           | WOODMILL ROAD                       |                                     |                     |
|           | DUNFERMLINE                         |                                     |                     |
|           | Edge of Town                        |                                     |                     |
|           | Residential Zone                    |                                     |                     |
|           | Total Number of dwellings:          | 155                                 |                     |
|           | Survey date: MONDAY                 | 30/04/07                            | Survey Type: MANUAL |
| <b>12</b> | <b>HC-03-A-18</b>                   | <b>HOUSES &amp; FLATS</b>           | <b>HAMPSHIRE</b>    |
|           | CANADA WAY                          |                                     |                     |
|           | LIPHOOK                             |                                     |                     |
|           | Suburban Area (PPS6 Out of Centre)  |                                     |                     |
|           | Residential Zone                    |                                     |                     |
|           | Total Number of dwellings:          | 62                                  |                     |
|           | Survey date: TUESDAY                | 29/11/16                            | Survey Type: MANUAL |
| <b>13</b> | <b>LN-03-A-01</b>                   | <b>MIXED HOUSES</b>                 | <b>LINCOLNSHIRE</b> |
|           | BRANT ROAD                          |                                     |                     |
|           | BRACEBRIDGE                         |                                     |                     |
|           | LINCOLN                             |                                     |                     |
|           | Edge of Town                        |                                     |                     |
|           | Residential Zone                    |                                     |                     |
|           | Total Number of dwellings:          | 150                                 |                     |
|           | Survey date: TUESDAY                | 15/05/07                            | Survey Type: MANUAL |
| <b>14</b> | <b>LN-03-A-02</b>                   | <b>MIXED HOUSES</b>                 | <b>LINCOLNSHIRE</b> |
|           | HYKEHAM ROAD                        |                                     |                     |
|           | LINCOLN                             |                                     |                     |
|           | Suburban Area (PPS6 Out of Centre)  |                                     |                     |
|           | Residential Zone                    |                                     |                     |
|           | Total Number of dwellings:          | 186                                 |                     |
|           | Survey date: MONDAY                 | 14/05/07                            | Survey Type: MANUAL |

LIST OF SITES relevant to selection parameters (Cont.)

|           |                                    |                                     |                                |
|-----------|------------------------------------|-------------------------------------|--------------------------------|
| <b>15</b> | <b>NE-03-A-02</b>                  | <b>SEMI DETACHED &amp; DETACHED</b> | <b>NORTH EAST LINCOLNSHIRE</b> |
|           | HANOVER WALK                       |                                     |                                |
|           | SCUNTHORPE                         |                                     |                                |
|           | Edge of Town                       |                                     |                                |
|           | No Sub Category                    |                                     |                                |
|           | Total Number of dwellings:         | 432                                 |                                |
|           | Survey date: MONDAY                | 12/05/14                            | Survey Type: MANUAL            |
| <b>16</b> | <b>NF-03-A-02</b>                  | <b>HOUSES &amp; FLATS</b>           | <b>NORFOLK</b>                 |
|           | DEREHAM ROAD                       |                                     |                                |
|           | NORWICH                            |                                     |                                |
|           | Suburban Area (PPS6 Out of Centre) |                                     |                                |
|           | Residential Zone                   |                                     |                                |
|           | Total Number of dwellings:         | 98                                  |                                |
|           | Survey date: MONDAY                | 22/10/12                            | Survey Type: MANUAL            |
| <b>17</b> | <b>NY-03-A-06</b>                  | <b>BUNGALOWS &amp; SEMI DET.</b>    | <b>NORTH YORKSHIRE</b>         |
|           | HORSEFAIR                          |                                     |                                |
|           | BOROUGHBRIDGE                      |                                     |                                |
|           | Suburban Area (PPS6 Out of Centre) |                                     |                                |
|           | Residential Zone                   |                                     |                                |
|           | Total Number of dwellings:         | 115                                 |                                |
|           | Survey date: FRIDAY                | 14/10/11                            | Survey Type: MANUAL            |
| <b>18</b> | <b>NY-03-A-09</b>                  | <b>MIXED HOUSING</b>                | <b>NORTH YORKSHIRE</b>         |
|           | GRAMMAR SCHOOL LANE                |                                     |                                |
|           | NORTHALLERTON                      |                                     |                                |
|           | Suburban Area (PPS6 Out of Centre) |                                     |                                |
|           | Residential Zone                   |                                     |                                |
|           | Total Number of dwellings:         | 52                                  |                                |
|           | Survey date: MONDAY                | 16/09/13                            | Survey Type: MANUAL            |
| <b>19</b> | <b>NY-03-A-10</b>                  | <b>HOUSES AND FLATS</b>             | <b>NORTH YORKSHIRE</b>         |
|           | BOROUGHBRIDGE ROAD                 |                                     |                                |
|           | RIPON                              |                                     |                                |
|           | Edge of Town                       |                                     |                                |
|           | No Sub Category                    |                                     |                                |
|           | Total Number of dwellings:         | 71                                  |                                |
|           | Survey date: TUESDAY               | 17/09/13                            | Survey Type: MANUAL            |
| <b>20</b> | <b>SC-03-A-04</b>                  | <b>DETACHED &amp; TERRACED</b>      | <b>SURREY</b>                  |
|           | HIGH ROAD                          |                                     |                                |
|           | BYFLEET                            |                                     |                                |
|           | Edge of Town                       |                                     |                                |
|           | Residential Zone                   |                                     |                                |
|           | Total Number of dwellings:         | 71                                  |                                |
|           | Survey date: THURSDAY              | 23/01/14                            | Survey Type: MANUAL            |
| <b>21</b> | <b>SF-03-A-01</b>                  | <b>SEMI DETACHED</b>                | <b>SUFFOLK</b>                 |
|           | A1156 FELIXSTOWE ROAD              |                                     |                                |
|           | RACECOURSE                         |                                     |                                |
|           | IPSWICH                            |                                     |                                |
|           | Suburban Area (PPS6 Out of Centre) |                                     |                                |
|           | Residential Zone                   |                                     |                                |
|           | Total Number of dwellings:         | 77                                  |                                |
|           | Survey date: WEDNESDAY             | 23/05/07                            | Survey Type: MANUAL            |

LIST OF SITES relevant to selection parameters (Cont.)

|           |                                    |                                 |                         |
|-----------|------------------------------------|---------------------------------|-------------------------|
| <b>22</b> | <b>SF-03-A-02</b>                  | <b>SEMI DET./ TERRACED</b>      | <b>SUFFOLK</b>          |
|           | STOKE PARK DRIVE                   |                                 |                         |
|           | MAIDENHALL                         |                                 |                         |
|           | IPSWICH                            |                                 |                         |
|           | Edge of Town                       |                                 |                         |
|           | Residential Zone                   |                                 |                         |
|           | Total Number of dwellings:         | 230                             |                         |
|           | Survey date: THURSDAY              | 24/05/07                        | Survey Type: MANUAL     |
| <b>23</b> | <b>SH-03-A-04</b>                  | <b>TERRACED</b>                 | <b>SHROPSHI RE</b>      |
|           | ST MICHAEL'S STREET                |                                 |                         |
|           | SHREWSBURY                         |                                 |                         |
|           | Suburban Area (PPS6 Out of Centre) |                                 |                         |
|           | No Sub Category                    |                                 |                         |
|           | Total Number of dwellings:         | 108                             |                         |
|           | Survey date: THURSDAY              | 11/06/09                        | Survey Type: MANUAL     |
| <b>24</b> | <b>SH-03-A-05</b>                  | <b>SEMI -DETACHED/ TERRACED</b> | <b>SHROPSHI RE</b>      |
|           | SANDCROFT                          |                                 |                         |
|           | SUTTON HILL                        |                                 |                         |
|           | TELFORD                            |                                 |                         |
|           | Edge of Town                       |                                 |                         |
|           | Residential Zone                   |                                 |                         |
|           | Total Number of dwellings:         | 54                              |                         |
|           | Survey date: THURSDAY              | 24/10/13                        | Survey Type: MANUAL     |
| <b>25</b> | <b>SR-03-A-01</b>                  | <b>DETACHED</b>                 | <b>STIRLI NG</b>        |
|           | BENVIEW                            |                                 |                         |
|           | STIRLING                           |                                 |                         |
|           | Suburban Area (PPS6 Out of Centre) |                                 |                         |
|           | Residential Zone                   |                                 |                         |
|           | Total Number of dwellings:         | 115                             |                         |
|           | Survey date: MONDAY                | 23/04/07                        | Survey Type: MANUAL     |
| <b>26</b> | <b>SY-03-A-01</b>                  | <b>SEMI DETACHED HOUSES</b>     | <b>SOUTH YORKSHI RE</b> |
|           | A19 BENTLEY ROAD                   |                                 |                         |
|           | BENTLEY RISE                       |                                 |                         |
|           | DONCASTER                          |                                 |                         |
|           | Suburban Area (PPS6 Out of Centre) |                                 |                         |
|           | Residential Zone                   |                                 |                         |
|           | Total Number of dwellings:         | 54                              |                         |
|           | Survey date: WEDNESDAY             | 18/09/13                        | Survey Type: MANUAL     |
| <b>27</b> | <b>WM-03-A-03</b>                  | <b>MIXED HOUSI NG</b>           | <b>WEST MI DLANDS</b>   |
|           | BASELEY WAY                        |                                 |                         |
|           | ROWLEYS GREEN                      |                                 |                         |
|           | COVENTRY                           |                                 |                         |
|           | Edge of Town                       |                                 |                         |
|           | Residential Zone                   |                                 |                         |
|           | Total Number of dwellings:         | 84                              |                         |
|           | Survey date: MONDAY                | 24/09/07                        | Survey Type: MANUAL     |
| <b>28</b> | <b>WS-03-A-04</b>                  | <b>MIXED HOUSES</b>             | <b>WEST SUSSEX</b>      |
|           | HILLS FARM LANE                    |                                 |                         |
|           | BROADBRIDGE HEATH                  |                                 |                         |
|           | HORSHAM                            |                                 |                         |
|           | Edge of Town                       |                                 |                         |
|           | Residential Zone                   |                                 |                         |
|           | Total Number of dwellings:         | 151                             |                         |
|           | Survey date: THURSDAY              | 11/12/14                        | Survey Type: MANUAL     |

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

**VEHICLES****Calculation factor: 1 DWELLS****BOLD print indicates peak (busiest) period**

| Time Range    | ARRIVALS  |             |              | DEPARTURES |             |              | TOTALS    |             |              |
|---------------|-----------|-------------|--------------|------------|-------------|--------------|-----------|-------------|--------------|
|               | No. Days  | Ave. DWELLS | Trip Rate    | No. Days   | Ave. DWELLS | Trip Rate    | No. Days  | Ave. DWELLS | Trip Rate    |
| 00:00 - 01:00 |           |             |              |            |             |              |           |             |              |
| 01:00 - 02:00 |           |             |              |            |             |              |           |             |              |
| 02:00 - 03:00 |           |             |              |            |             |              |           |             |              |
| 03:00 - 04:00 |           |             |              |            |             |              |           |             |              |
| 04:00 - 05:00 |           |             |              |            |             |              |           |             |              |
| 05:00 - 06:00 |           |             |              |            |             |              |           |             |              |
| 06:00 - 07:00 |           |             |              |            |             |              |           |             |              |
| 07:00 - 08:00 | 28        | 127         | 0.076        | 28         | 127         | 0.287        | 28        | 127         | 0.363        |
| 08:00 - 09:00 | 28        | 127         | 0.143        | <b>28</b>  | <b>127</b>  | <b>0.401</b> | 28        | 127         | 0.544        |
| 09:00 - 10:00 | 28        | 127         | 0.155        | 28         | 127         | 0.190        | 28        | 127         | 0.345        |
| 10:00 - 11:00 | 28        | 127         | 0.143        | 28         | 127         | 0.183        | 28        | 127         | 0.326        |
| 11:00 - 12:00 | 28        | 127         | 0.162        | 28         | 127         | 0.156        | 28        | 127         | 0.318        |
| 12:00 - 13:00 | 28        | 127         | 0.186        | 28         | 127         | 0.167        | 28        | 127         | 0.353        |
| 13:00 - 14:00 | 28        | 127         | 0.172        | 28         | 127         | 0.169        | 28        | 127         | 0.341        |
| 14:00 - 15:00 | 28        | 127         | 0.170        | 28         | 127         | 0.185        | 28        | 127         | 0.355        |
| 15:00 - 16:00 | 28        | 127         | 0.276        | 28         | 127         | 0.191        | 28        | 127         | 0.467        |
| 16:00 - 17:00 | 28        | 127         | 0.306        | 28         | 127         | 0.189        | 28        | 127         | 0.495        |
| 17:00 - 18:00 | <b>28</b> | <b>127</b>  | <b>0.364</b> | 28         | 127         | 0.212        | <b>28</b> | <b>127</b>  | <b>0.576</b> |
| 18:00 - 19:00 | 28        | 127         | 0.264        | 28         | 127         | 0.197        | 28        | 127         | 0.461        |
| 19:00 - 20:00 |           |             |              |            |             |              |           |             |              |
| 20:00 - 21:00 |           |             |              |            |             |              |           |             |              |
| 21:00 - 22:00 |           |             |              |            |             |              |           |             |              |
| 22:00 - 23:00 |           |             |              |            |             |              |           |             |              |
| 23:00 - 24:00 |           |             |              |            |             |              |           |             |              |
| Total Rates:  |           |             | 2.417        |            |             | 2.527        |           |             | 4.944        |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

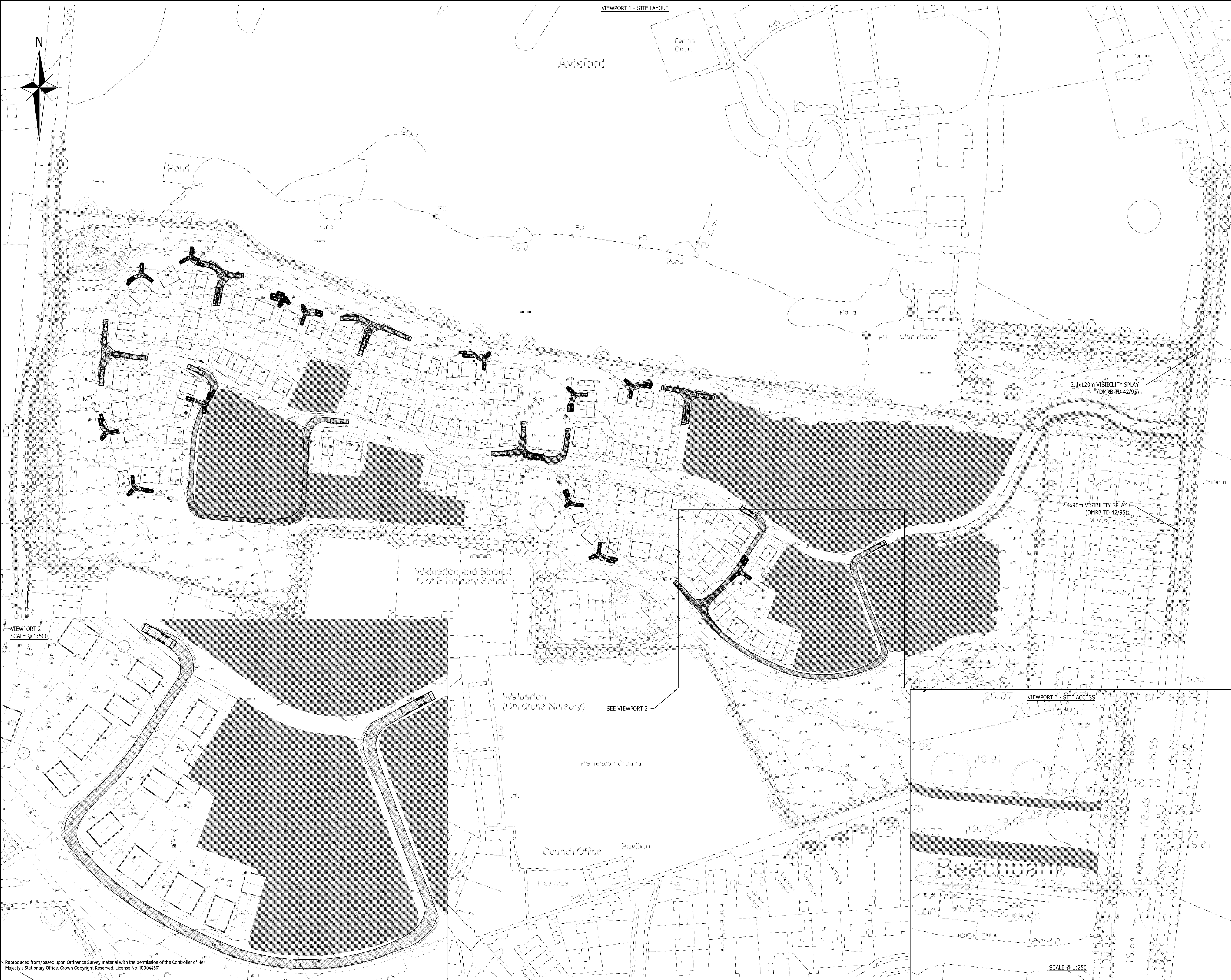
To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is:  $COUNT/TRP * FACT$ . Trip rates are then rounded to 3 decimal places.

**Parameter summary**

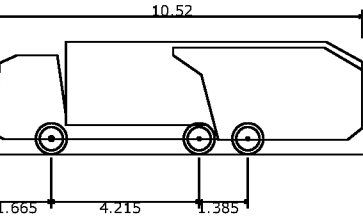
Trip rate parameter range selected: 51 - 432 (units: )  
 Survey date range: 01/04/07 - 29/11/16  
 Number of weekdays (Monday-Friday): 28  
 Number of Saturdays: 0  
 Number of Sundays: 0  
 Surveys automatically removed from selection: 2  
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

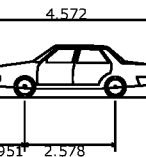
## Drawings



VEHICLE USED:



Phoenix 2-23W (with Elite 2 6x4 chassis)  
Overall Length 10.520m  
Overall Width 2.530m  
Overall Body Height 2.511m  
Min Body Ground Clearance 0.416m  
Track Width 2.530m  
Lock to lock time 4.00s  
Kerb to Kerb Turning Radius 9.950m



Skoda Octavia  
Overall Length 4.572m  
Overall Width 1.769m  
Overall Body Height 1.488m  
Min Body Ground Clearance 0.249m  
Max Track Width 1.713m  
Lock to lock time 4.00s  
Kerb to Kerb Turning Radius 5.100m

KEY

- AREA UNDER CONSTRUCTION AND NOT SUBJECT TO THIS APPLICATION
- 2.4x25m VISIBILITY SPLAY
- RCP REFUSE COLLECTION POINT

FOR INFORMATION ONLY

|     |                           |     |     |     |            |
|-----|---------------------------|-----|-----|-----|------------|
| A   | RED LINE BOUNDARY REMOVED | MRH | DH  | KM  | 04.08.2020 |
| Rev | Description               | Dn  | Chk | App | Date       |

**ARDENT** CONSULTING ENGINEERS

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worksafe  
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www.worksafeconsultant.com

SSIP

BSI  
BUREAU VERITAS  
CERTIFIED

Client:

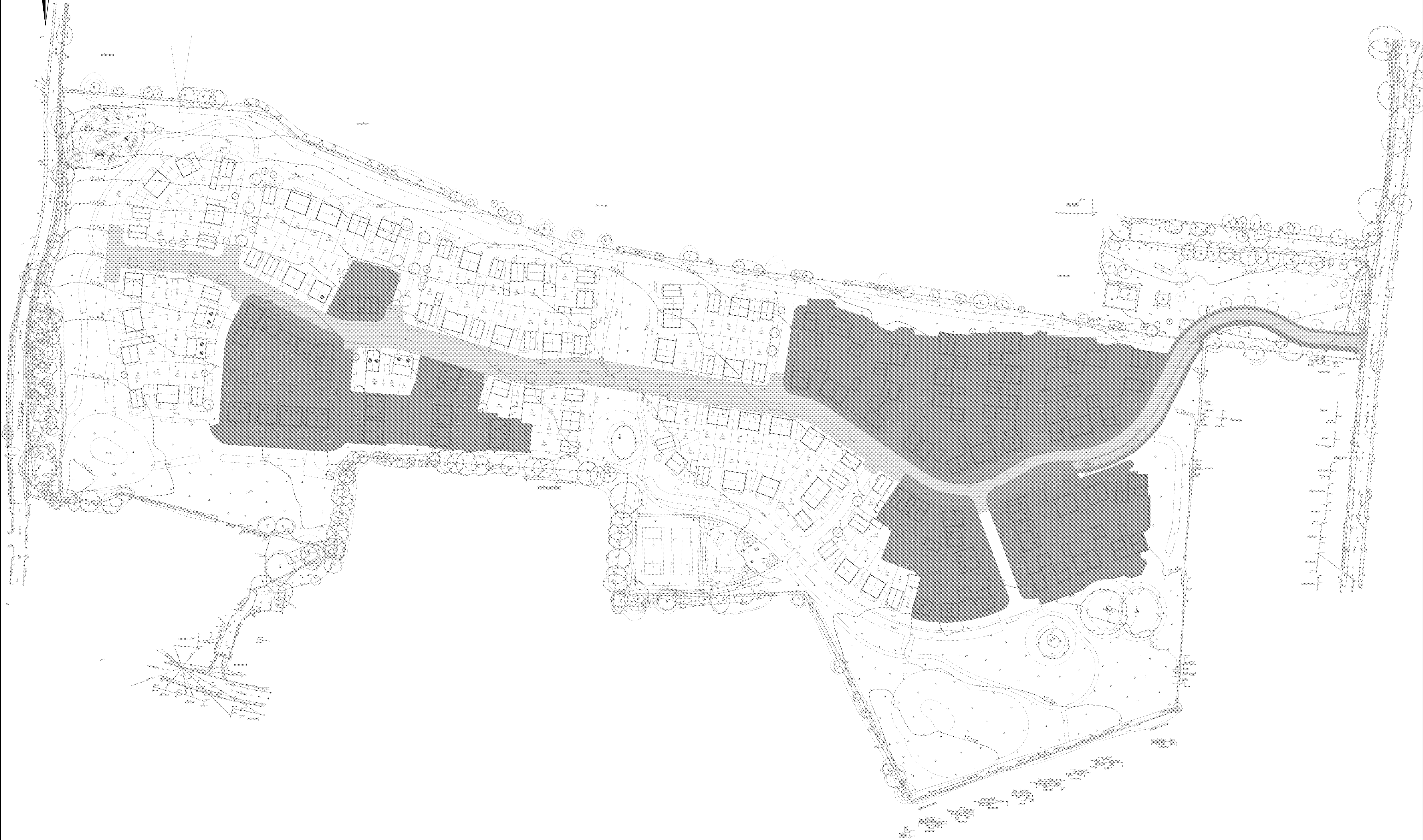
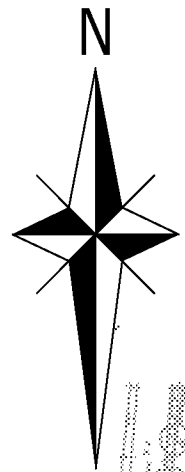
VISTRY SOUTH EAST

Project Title:  
**LAND EAST OF TYE LANE,  
WALBERTON - NEW APPLICATION**

Drawing Title:  
**SWEPT PATH ANALYSIS, REFUSE  
LOCATIONS AND SITE ACCESS DRAWING**

|                |            |             |
|----------------|------------|-------------|
| A1 Scale       | Date       | Designed by |
| 1:1000         | 13.08.2020 | MRH         |
| Drawn by       | Checked by | Approved by |
| MRH            | DH         | KM          |
| Drawing Number | 183246-001 |             |

Rev  
A



KEY:

HIGHWAY ADOPTION

AREA UNDER CONSTRUCTION  
AND NOT SUBJECT TO THIS  
APPLICATION

FOR INFORMATION  
ONLY

| Rev                                                                                                                                                                                                                                                                                                                                                                                                          | Description | Drn         | Chk | App | Date |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----|-----|------|
| <div>ARDENT CONSULTING ENGINEERS</div> <div>Third Floor<br/>The Hallmark Building<br/>52-56 Leadenhall Street<br/>London<br/>EC3M 5JE<br/>Tel: 020 7680 4088<br/>Web: <a href="http://www.ardent-ce.co.uk">www.ardent-ce.co.uk</a><br/>E-mail: <a href="mailto:enquiries@ardent-ce.co.uk">enquiries@ardent-ce.co.uk</a></div> <div>worksafe consultant<br/>www.smaritd.com<br/>SSIP<br/>BUREAU VERITAS</div> |             |             |     |     |      |
| Client:                                                                                                                                                                                                                                                                                                                                                                                                      |             |             |     |     |      |
| VISTRY SOUTH EAST                                                                                                                                                                                                                                                                                                                                                                                            |             |             |     |     |      |
| Project Title:                                                                                                                                                                                                                                                                                                                                                                                               |             |             |     |     |      |
| LAND EAST OF TYE LANE,<br>WALBERTON                                                                                                                                                                                                                                                                                                                                                                          |             |             |     |     |      |
| Drawing Title:                                                                                                                                                                                                                                                                                                                                                                                               |             |             |     |     |      |
| HIGHWAY ADOPTION PLAN                                                                                                                                                                                                                                                                                                                                                                                        |             |             |     |     |      |
| A1 Scale                                                                                                                                                                                                                                                                                                                                                                                                     | Date        | Designed by |     |     |      |
| 1:1000                                                                                                                                                                                                                                                                                                                                                                                                       | 14.08.2020  | KI          |     |     |      |
| Drawn by                                                                                                                                                                                                                                                                                                                                                                                                     | Checked by  | Approved by |     |     |      |
| MRH                                                                                                                                                                                                                                                                                                                                                                                                          | DH          | KM          |     |     |      |
| Drawing Number                                                                                                                                                                                                                                                                                                                                                                                               |             |             |     |     | Rev  |
| 183246-002                                                                                                                                                                                                                                                                                                                                                                                                   |             |             |     |     | -    |