

acstro

Transport Statement

**Residential Development
Sandy Lane
Ystradowen
Vale of Glamorgan**

September 2023

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Revision History

A	4 th July 2023	First Issue
B	13 th July 2023	Speed Survey Results Included
C	15 th September 2023	For Planning

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1 Introduction

- 1.1 Acstro has been appointed to produce a Transport Statement to support a planning application for the construction of 46 homes, including 19 affordable homes, on land at Sandy Lane, Ystradowen, Vale of Glamorgan.
- 1.2 The site's location and extent is shown in Figure 1 below.



Figure 1 Location Plan

- 1.3 This document considers the transport implications of the proposed development. It demonstrates that the site is in a sustainable location that is closely related to existing facilities and services and is accessible to pedestrians, cyclists and public transport users. It is also demonstrated that safe vehicular access to the site can be provided and adequate parking provision is made for the future occupiers and users of the site.

1.4 The structure of the Transport Statement is as follows:

- Section 2 describes the relevant planning policy context that is relevant in terms of transport issues;
- Section 3 describes the site's location, its proximity to services and facilities and its accessibility by all forms of transport.
- Section 4 describes the proposed development and its access arrangements. An estimate of the likely trip generation of the proposed development of the land is also provided.
- Section 5 provides a summary and conclusion.

2 Policy Context

[Future Wales - The National Plan 2040](#)

- 2.1 This is the national development framework that sets out the direction for development in Wales to 2040.
- 2.2 Policies 11 and 12 relate to national and regional connectivity, respectively. These seek to encourage longer-distance trips to be made by public transport, while also making longer journeys possible by electric vehicles. In urban areas, to support sustainable growth and regeneration, the priorities are improving and integrating active travel and public transport. In rural areas the priorities are supporting the uptake of ultra-low emission vehicles and diversifying and sustaining local bus services. Active travel must be an essential and integral component of all new developments.
- 2.3 Planning authorities must act to reduce levels of car parking in urban areas, including supporting car-free developments in accessible locations and developments with car parking spaces that allow them to be converted to other uses over time. Where car parking is provided for new non-residential development, planning authorities should seek a minimum of 10% of car parking spaces to have electric vehicle charging points.

[Planning Policy Wales \(11th Edition\)](#)

- 2.4 Planning Policy Wales (PPW) sets out the land use planning policies of the Welsh Government. The primary objective of PPW is to ensure that the planning system contributes towards the delivery of sustainable development and improves the social, economic, environmental and cultural well-being of Wales.
- 2.5 In terms of transport related policies paragraph 4.1.1 states that “the planning system should enable people to access jobs and services through shorter, more efficient and sustainable journeys, by walking, cycling and public transport”.
- 2.6 Paragraph 4.1.10 states that “the planning system has a key role to play in reducing the need to travel and supporting sustainable transport, by facilitating developments which:
 - are sited in the right locations, where they can be easily accessed by sustainable modes of travel and without the need for a car;
 - are designed in a way which integrates them with existing land uses and neighbourhoods; and
 - make it possible for all short journeys within and beyond the development to be easily made by walking and cycling.”
- 2.7 PPW advocates a sustainable transport hierarchy for planning, the hierarchy being, from top to bottom:
 - Walking and Cycling
 - Public Transport
 - Ultra Low Emission Vehicles
 - Other Private Motor Vehicles
- 2.8 It is Welsh Government policy to require the use of a sustainable transport hierarchy in relation to new development, which prioritises walking, cycling and public transport ahead of the private motor vehicles.

- 2.9 The transport hierarchy recognises that Ultra Low Emission Vehicles (ULEV) also have an important role to play in the decarbonisation of transport, particularly in rural areas with limited public transport services. To this end the provision of ULEV charging points is encouraged within new developments.
- 2.10 PPW recommends (4.1.50) that “a design-led approach to the provision of car parking should be taken, which ensures an appropriate level of car parking is integrated in a way which does not dominate the development. Parking provision should be informed by the local context, including public transport accessibility, urban design principles and the objective of reducing reliance on the private car and supporting a modal shift to walking, cycling and public transport. Planning authorities must support schemes which keep parking levels down, especially off-street parking, when well designed”.

TAN18 Transportation

- 2.11 Planning Policy Wales Technical Advice Note 18 (TAN18) details the Welsh Government Government’s policies in terms of transportation and repeats the general principles advocated in PPW i.e. that development is encouraged in sustainable, accessible, locations that will reduce the need to travel by car. Its aim is to promote an efficient and sustainable transport system and to counter the negative impacts associated with road traffic growth, for example increased air pollution, green house gases and congestion (2.1). It sees the integration of transport and land use planning as key (2.3) in achieving the Welsh Government Governments’ sustainable development policy objectives by:
- promoting travel efficient settlement patterns;
 - ensuring new development is located where there is good access by public transport, walking and cycling thereby minimizing the need for travel and fostering social inclusion;
 - managing parking provision;
 - ensuring that new development includes appropriate provision for pedestrians, cycling, public transport, and traffic management and parking/servicing;
 - encouraging the location of development near other related uses to encourage multi-purpose trips; and
 - ensuring that transport infrastructure necessary to serve new development allows existing transport networks to continue to perform their identified functions.
- 2.12 The needs of walkers and cyclists must be taken into consideration and the use of these most sustainable forms of transport encouraged in all developments (TAN18 Chapter 6). Similarly, all development should be accessible by public transport (Chapter 7).

The Active Travel (Wales) Act 2013

- 2.13 The Active Travel (Wales) Act 2013 is Welsh Government legislation aimed to support an increase in the level of walking and cycling in Wales; to encourage a shift in travel behaviour to active travel modes, and to facilitate the building of walking and cycling infrastructure.
- 2.14 The Active Travel (Wales) Act 2013 requires local authorities in Wales to produce maps of walking and cycling networks in their local area, known as Active Travel Network Maps (ATNMs). These maps are designed to show two main things:

- **Existing routes** – those current walking and cycling routes that already meet Welsh Government active travel standards, meaning they can be readily used for everyday journeys, and
- **Future routes** – new routes that the local authority proposes to create in the future, as well as current routes that are planned for improvement to bring them up to the standards.



- | | | | |
|---|-------------------------------------|---|-----------------------------------|
|  | Existing walking routes |  | Future walking routes |
|  | Existing cycling routes |  | Future cycling routes |
|  | Existing walking and cycling routes |  | Future walking and cycling routes |

Figure 2 Extract from Active Travel Network Map (Source: DataMapWales)

2.15 There is future walking and cycling route shown running through Ystradowen, along Cowbridge Road. The future route links the village to Talbot Green to the north and Cowbridge to the south. The route is identified as being delivered in the medium-term.

3 Existing Conditions

- 3.1 The site is located in Ystradowen, a village located approximately 4km north of Cowbridge and 5km south of Pontyclun.
- 3.2 The amenities located within the village include a public house, church, village hall, children's park and a garage / filling station with an associated convenience store.
- 3.3 A wider range of services and facilities are available in Cowbridge, which is some 4km to the south of the site, or Pontyclun / Talbot Green, some 6km to the north.

Active Travel

- 3.4 The village's amenities are within a short walk of the site . The site is accessed on foot via the existing footways that run alongside Sandy Lane, St Owain's Crescent and Cowbridge Road. The footway on Sandy Lane currently terminates at the site's south western corner. This will be extended into the site as part of the development.
- 3.5 Figure 3 shows the areas that can be accessed within a 30-minute cycle of the application site. It is considered feasible that some journeys from the site to locations within this catchment area can be made by bike. This includes Cowbridge to the south and Talbot Green to the north. The delivery of the proposed Active Travel Route between Cowbridge and Talbot Green will enhance provision for cyclists and encourage more use of this form of transport.

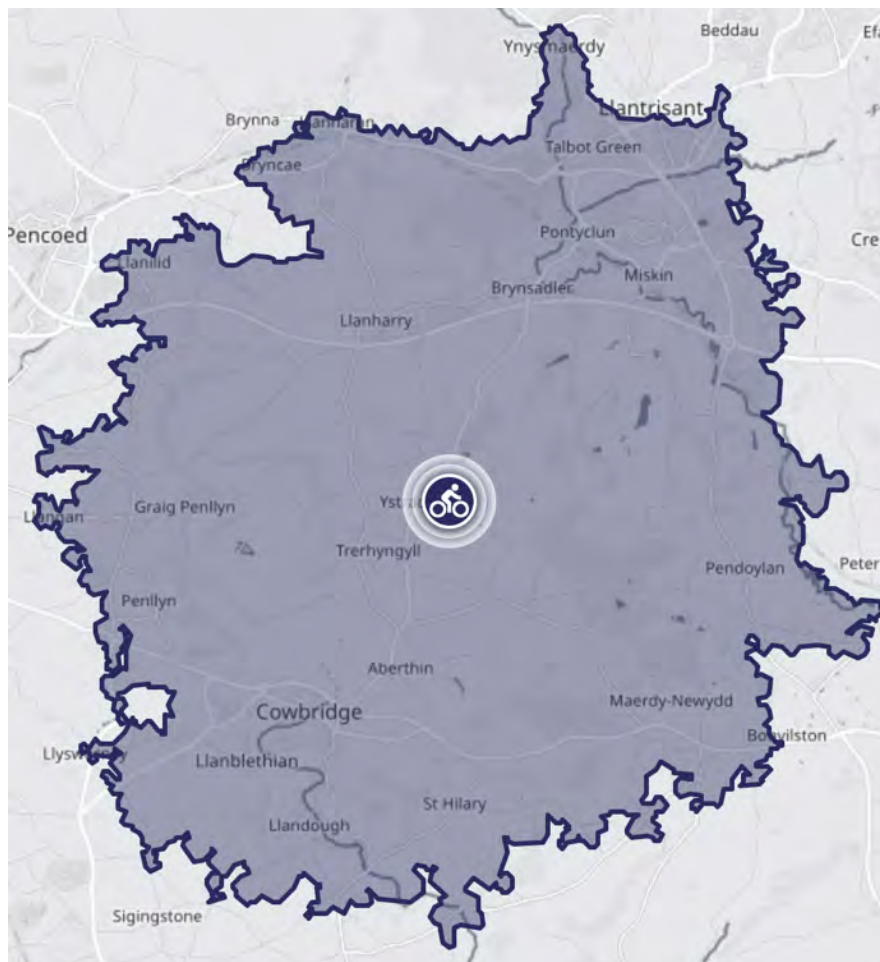


Figure 3 30-Minute Cycle Catchment

Public Transport

- 3.6 The nearest bus stop to the site are located on Cowbridge Road (Tymawr Close stops). They are a 350m / 4 minute walk from the site and provide access to the 321 (Llantwit Major – Talbot Green) bus service. This runs every two hours, in each direction, Mondays to Saturdays. Journey times to Cowbridge are around 10 minutes and to Talbot Green are around 15 minutes.

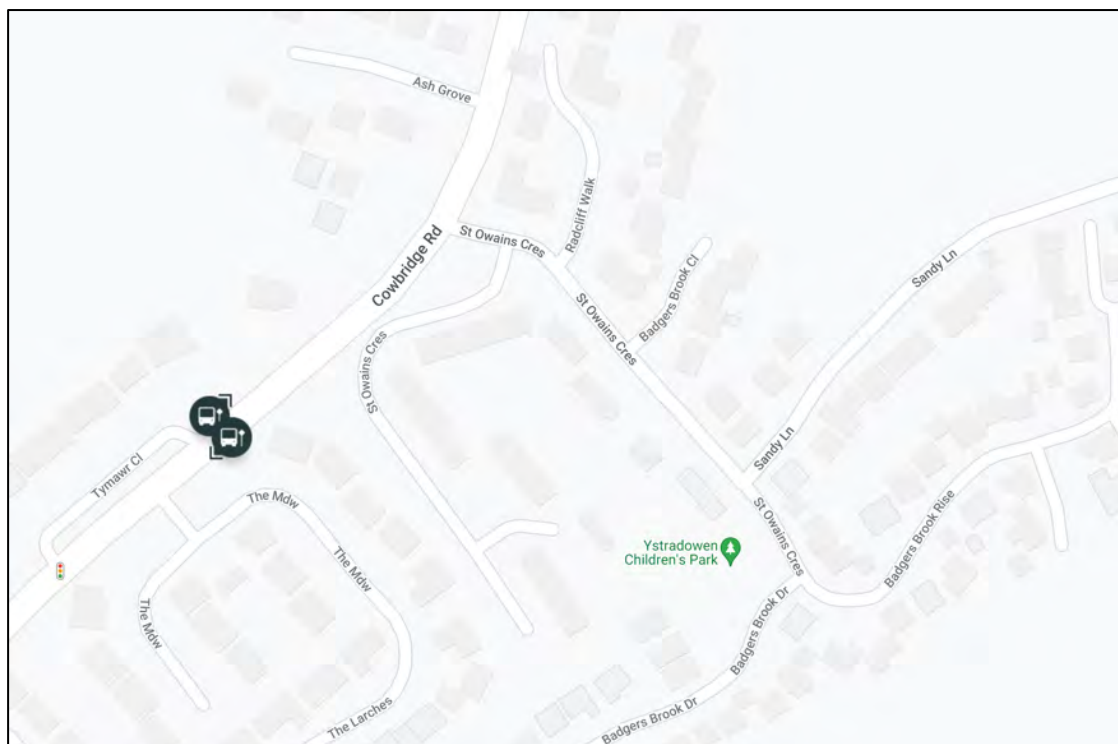


Figure 4 Bus Stop Locations

Highway Access

- 3.7 The site is located adjacent to and will be accessed from Sandy Lane. To the west of the site, Sandy Lane has residential properties on both sides. It has 5.5m to 6m wide carriageway with 2m wide footways on both sides. It is currently subject to a 30mph speed limit and it is assumed that this will reduce to 20mph when this becomes the default speed limit for restricted roads in Wales in September 2023.
- 3.8 Adjacent to the site, Sandy Lane is subject to national speed limits. There are no segregated footways on the northern side of the road. The footway on the southern side of the road extends some 35m to the east of the site's south western corner before terminating. Continuing eastwards along the site's frontage the carriageway narrows to around 3m in places, allowing single file traffic movement only.
- 3.9 A 7-day traffic speed and volume survey was undertaken on Sandy Lane, adjacent to the site, commencing 4th July 2023. The results are provided in full in Appendix 1 and summarised below.

Appendix 1 Sandy Lane traffic Survey

	Southwest bound	Northeast bound	Two-Way
Average Weekday Daily (24 Hr) Flow	205	207	412
Average Weekday am Peak Hour Flow	18	32	50
Average Weekday pm Peak Hour Flow	28	18	44
Average Weekday 85 th Percentile Speed	26.8mph	25.6mph	26.2mph

Table 1 Traffic Survey Summary

- 3.10 Traffic speed (85th percentile) for southwest bound movements was recorded at 26.8mph. Stopping sight distance (SSD) for this speed is calculated¹ as being 37m.
- 3.11 Sandy Lane connects to St Owain’s Crescent some 60m to the west of the site. St Owain’s Crescent is a residential street and has a 6m wide carriageway with footways on both sides. It, in turn links with Cowbridge Road (A4222), the main street that run through the village.
- 3.12 The roads around the site have a good safety record with no recorded injury accidents within the latest five-year period for which data is available (2017 to 2021 inclusive).

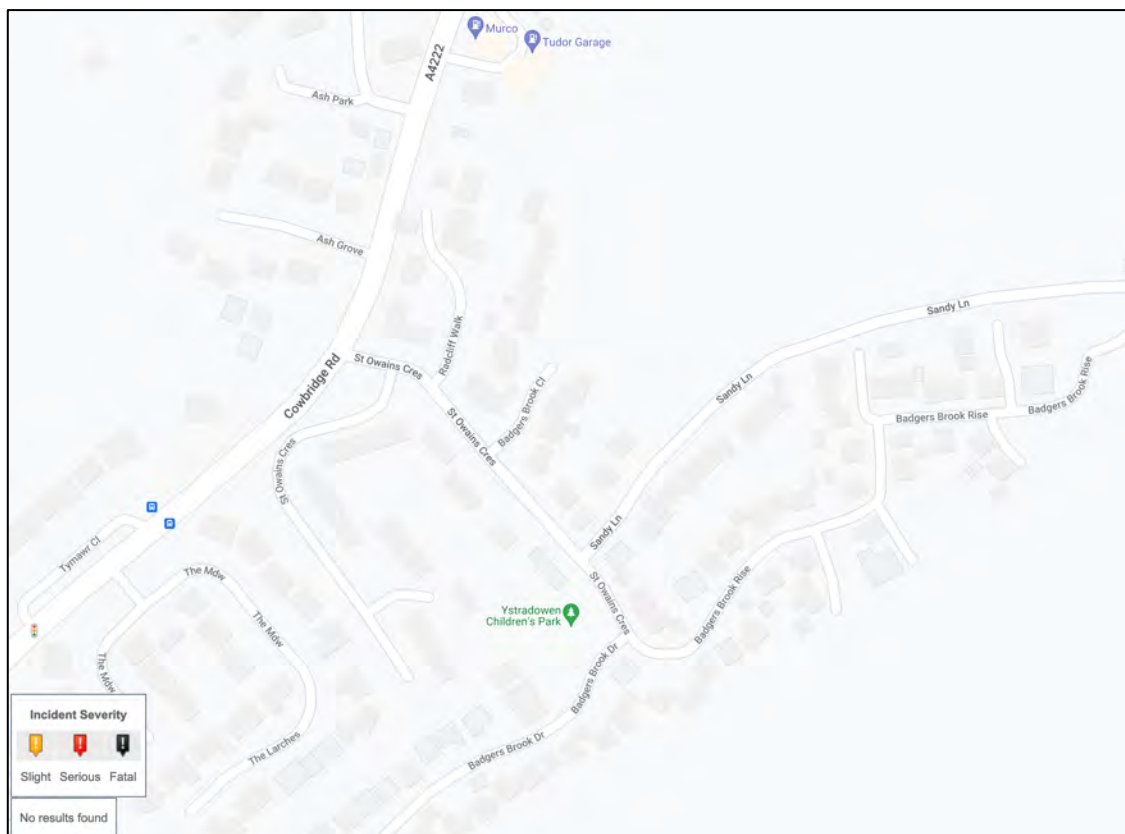


Figure 5 Injury Accident Location & Severity 2017 - 2021

¹ Calculation based on ‘Manual for Streets 2’ para. 10.1.5

4 Proposed Development

- 4.1 The planning application is for the construction of 46 homes, including 19 affordable homes.



Figure 6 Proposed Development

- 4.2 The site's access arrangements are shown in Appendix 2.

Appendix 2 Proposed Access Arrangement

- 4.3 The main body of the site will be served by an adoptable estate road that has a 5.5m wide carriageway and 2m footways on both sides. At the northern end of the site, this leads to a 6.8m wide shared surface street that serves plots 16 to 21 and a pumping station. Swept path analysis has been undertaken to ensure that the layout can accommodate and provide adequate turning space for a 11.2m long refuse vehicle and that a fire tender can access the properties served by a private drive.
- 4.4 The cul-de-sac that serves plots 22 to 29 has been designed to ensure that refuse collection requirements, in terms of carry distances for residents from properties to a bin collection point and for operatives from the collection point to the vehicle are acceptable.

- 4.5 Visibility splays of at least 2.4m x 43m are available from the site's access, which exceed the 2.4m x 37m requirement that is based on the recorded 85th percentile speed (see 3.10). It is proposed that the speed limit sign will be relocated to the site's south eastern corner, subject to any necessary Traffic Regulation Order, in order that the site's frontage is contained within the urban speed limit area.
- 4.6 Nine properties will be accessed directly from Sandy Lane. Sandy Lane will be widened across the whole of the frontage of the site to provide a 5.5m wide carriageway and a new 2m wide footway along its northern side. The new footway will provide safe pedestrian access to all of these properties and provides future proofing of active travel provision and connectivity to the wider area. Vehicle crossovers with dropped-kerbs will be provided where new driveways are accessed by crossing the new footway.

Trip Generation

- 4.7 The potential trip generation of the proposed development of the sites has been estimated by reference to the TRICS trip rate database, a database of over 8,000 traffic surveys of various types of development throughout the UK and Ireland.
- 4.8 From the TRICS database evidence of the trip rates of privately owned housing developments in suburban and edge of town locations in mainland Britain (excluding Greater London) have been analysed. The detailed TRICS output is provided as Appendix 3 and summarised in the following tables.

Appendix 3 TRICS Trip Rate Data

Time Range	Trip Rate per Dwelling			Trip Generation (46 Dwellings)		
	Arrivals	Departures	Total	Arrivals	Departures	Total
am peak Hour 08:00-09:00	0.137	0.37	0.507	6	17	23
pm Peak Hour 17:00-18:00	0.341	0.16	0.501	16	7	23

Table 2 Vehicle Trip Rates & Proposed Development Trip Generation

- 4.9 The TRICS data suggests that the site has the potential to generate around 23 peak hour vehicle movements. This equates to no more than one additional vehicle movement every 2 to 3 minutes on average during the busiest hours and is not considered to be significant.

5 Summary & Conclusion

5.1 In summary this Transport Statement has demonstrated that:

- The proposed development is in an appropriate location that is accessible to pedestrians, cyclists and public transport users.
- The amenities available within the village are accessible on foot. A wider range of services and facilities is available in Cowbridge and Talbot Green, both of which are within cycling distance to the site and are connected to Ystradowen by the 321 bus service.
- Users of the development could therefore access it by sustainable modes of transport and would not be reliant on the car.
- A safe and appropriate access to the site can be provided from Sandy Lane.
- It is estimated that the site has the potential to generate around 23 peak hour vehicle movements. This equates to no more than one additional vehicle movement every 2 to 3 minutes on average during the busiest hours and is not considered to be significant.

5.2 It is considered that the application site meets planning policy requirements in terms of being in an appropriate location that is safely accessible by all forms of transport and that the impacts of the development on the continued operation and safety of the surrounding highway network would be acceptable.

5.3 It is concluded therefore that there are no transport related issues that should prevent planning permission for the proposed development from being granted.

Appendix 1 Sandy Lane traffic Survey

Ystradowen ATC, Sandy Lane



Direction: Southwestbound

Hour Beginning	Tue 04/07/2023	Wed 05/07/2023	Thu 06/07/2023	Fri 07/07/2023	Sat 08/07/2023	Sun 09/07/2023	Mon 10/07/2023	5-Day Ave.	7-Day Ave.
00:00	0	0	0	1	0	1	0	0	0
01:00	0	0	0	0	1	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0
03:00	0	1	0	0	0	0	1	0	0
04:00	0	1	0	0	1	2	0	0	1
05:00	1	0	2	0	1	0	0	1	1
06:00	1	1	0	1	2	0	0	1	1
07:00	5	7	6	9	2	2	6	7	5
08:00	11	16	12	40	3	6	12	18	14
09:00	14	16	15	21	7	7	20	17	14
10:00	12	8	16	13	8	11	9	12	11
11:00	10	12	10	14	13	11	16	12	12
12:00	9	9	7	28	17	11	13	13	13
13:00	9	9	10	20	13	8	12	12	12
14:00	12	9	9	20	3	8	9	12	10
15:00	28	22	24	44	10	10	24	28	23
16:00	13	19	16	18	9	5	10	15	13
17:00	16	17	18	36	15	4	25	22	19
18:00	11	12	17	17	8	11	11	14	12
19:00	7	8	7	7	6	12	5	7	7
20:00	19	4	4	5	5	6	3	7	7
21:00	3	3	3	3	3	1	3	2	2
22:00	2	2	4	5	1	1	2	3	2
23:00	0	1	5	0	0	1	0	1	1
Total									
12H(7-19)	150	156	160	280	108	94	167	183	159
16H(6-22)	180	172	174	296	124	113	176	200	176
18H(6-24)	182	175	183	301	125	115	178	204	180
24H(0-24)	183	177	185	302	128	118	179	205	182
AM Peak	09:00	08:00	10:00	08:00	11:00	10:00	09:00	08:00	08:00
	14	16	16	40	13	11	20	18	14
PM Peak	15:00	15:00	15:00	15:00	12:00	19:00	17:00	15:00	15:00
	28	22	24	44	17	12	25	28	23

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Direction: Northeastbound

Hour Beginning	Tue 04/07/2023	Wed 05/07/2023	Thu 06/07/2023	Fri 07/07/2023	Sat 08/07/2023	Sun 09/07/2023	Mon 10/07/2023	5-Day Ave.	7-Day Ave.
00:00	0	0	0	0	2	0	0	0	0
01:00	1	0	1	0	0	0	0	0	0
02:00	0	0	0	1	0	0	0	0	0
03:00	0	0	0	0	0	0	1	0	0
04:00	0	1	0	0	1	0	0	0	0
05:00	3	2	1	2	0	1	2	2	2
06:00	4	3	5	3	0	0	2	3	2
07:00	12	13	13	23	7	5	11	14	12
08:00	28	27	28	40	5	4	35	32	24
09:00	15	17	10	26	9	11	16	17	15
10:00	13	14	17	19	20	16	11	15	16
11:00	8	12	10	12	8	9	10	10	10
12:00	6	10	17	20	7	6	8	12	11
13:00	13	8	11	14	7	7	9	11	10
14:00	17	12	11	18	6	12	13	14	13
15:00	17	17	10	25	11	7	11	16	14
16:00	18	18	16	25	9	7	11	18	15
17:00	12	7	13	14	8	8	18	13	11
18:00	16	5	11	13	4	11	14	12	11
19:00	10	4	7	4	7	5	6	6	6
20:00	4	9	5	3	2	2	6	5	4
21:00	3	2	3	0	3	0	1	2	2
22:00	2	0	5	6	2	1	0	3	2
23:00	0	0	2	1	1	0	0	1	1
Total									
12H(7-19)	175	160	167	249	101	103	167	184	160
16H(6-22)	196	178	187	259	113	110	182	200	175
18H(6-24)	198	178	194	266	116	111	182	204	178
24H(0-24)	202	181	196	269	119	112	185	207	181
AM Peak	08:00	08:00	08:00	08:00	10:00	10:00	08:00	08:00	08:00
	28	27	28	40	20	16	35	32	24
PM Peak	16:00	16:00	12:00	15:00	15:00	14:00	17:00	16:00	16:00
	18	18	17	25	11	12	18	18	15

Paul Castle Associates

Direction: Total Flow

Hour Beginning	Tue 04/07/2023	Wed 05/07/2023	Thu 06/07/2023	Fri 07/07/2023	Sat 08/07/2023	Sun 09/07/2023	Mon 10/07/2023	5-Day Ave.	7-Day Ave.
00:00	0	0	0	1	2	1	0	0	1
01:00	1	0	1	0	1	0	0	0	0
02:00	0	0	0	1	0	0	0	0	0
03:00	0	1	0	0	0	0	2	1	0
04:00	0	2	0	0	2	2	0	0	1
05:00	4	2	3	2	1	1	2	3	2
06:00	5	4	5	4	2	0	2	4	3
07:00	17	20	19	32	9	7	17	21	17
08:00	39	43	40	80	8	10	47	50	38
09:00	29	33	25	47	16	18	36	34	29
10:00	25	22	33	32	28	27	20	26	27
11:00	18	24	20	26	21	20	26	23	22
12:00	15	19	24	48	24	17	21	25	24
13:00	22	17	21	34	20	15	21	23	21
14:00	29	21	20	38	9	20	22	26	23
15:00	45	39	34	69	21	17	35	44	37
16:00	31	37	32	43	18	12	21	33	28
17:00	28	24	31	50	23	12	43	35	30
18:00	27	17	28	30	12	22	25	25	23
19:00	17	12	14	11	13	17	11	13	14
20:00	23	13	9	8	7	8	9	12	11
21:00	6	5	6	3	6	1	2	4	4
22:00	4	2	9	11	3	2	2	6	5
23:00	0	1	7	1	1	0	0	2	2
Total									
12H(7-19)	325	316	327	539	209	197	334	366	320
16H(6-22)	376	350	361	555	237	223	358	400	351
18H(6-24)	380	353	377	567	241	226	360	407	358
24H(0-24)	385	358	381	571	247	230	364	412	362
AM Peak	08:00	08:00	08:00	08:00	10:00	10:00	08:00	08:00	08:00
	39	43	40	80	28	27	47	50	38
PM Peak	15:00	15:00	15:00	15:00	12:00	18:00	17:00	15:00	15:00
	45	39	34	69	24	22	43	44	37

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Ystradowen ATC, Sandy Lane

Direction: Southwestbound

	Total Volume	LIGHT	OGV1	OGV2	BUS
Tue 4 Jul 2023	183	144	39	0	0
Wed 5 Jul 2023	177	141	36	0	0
Thu 6 Jul 2023	185	149	36	0	0
Fri 7 Jul 2023	302	222	76	2	2
Sat 8 Jul 2023	128	109	18	1	0
Sun 9 Jul 2023	118	103	14	1	0
Mon 10 Jul 2023	179	150	29	0	0
5 Day Ave.	205	161	43	0	0
7 Day Ave.	182	145	35	1	0

Direction: Northeastbound

	Total Volume	LIGHT	OGV1	OGV2	BUS
Tue 4 Jul 2023	202	162	40	0	0
Wed 5 Jul 2023	181	112	67	0	2
Thu 6 Jul 2023	196	109	85	0	2
Fri 7 Jul 2023	269	147	118	0	4
Sat 8 Jul 2023	119	77	42	0	0
Sun 9 Jul 2023	112	66	46	0	0
Mon 10 Jul 2023	185	100	82	0	3
5 Day Ave.	207	126	78	0	2
7 Day Ave.	181	110	69	0	2

Direction: Total Flow

	Total Volume	LIGHT	OGV1	OGV2	BUS
Tue 4 Jul 2023	385	306	79	0	0
Wed 5 Jul 2023	358	253	103	0	2
Thu 6 Jul 2023	381	258	121	0	2
Fri 7 Jul 2023	571	369	194	2	6
Sat 8 Jul 2023	247	186	60	1	0
Sun 9 Jul 2023	230	169	60	1	0
Mon 10 Jul 2023	364	250	111	0	3
5 Day Ave.	412	287	122	0	3
7 Day Ave.	362	256	104	1	2

	Total Volume	LIGHT	OGV1	OGV2	BUS
Tue 4 Jul 2023	100.0%	78.7%	21.3%	0.0%	0.0%
Wed 5 Jul 2023	100.0%	79.7%	20.3%	0.0%	0.0%
Thu 6 Jul 2023	100.0%	80.5%	19.5%	0.0%	0.0%
Fri 7 Jul 2023	100.0%	73.5%	25.2%	0.7%	0.7%
Sat 8 Jul 2023	100.0%	85.2%	14.1%	0.8%	0.0%
Sun 9 Jul 2023	100.0%	87.3%	11.9%	0.8%	0.0%
Mon 10 Jul 2023	100.0%	83.8%	16.2%	0.0%	0.0%
5 Day Ave.	100.0%	78.6%	21.1%	0.2%	0.2%
7 Day Ave.	100.0%	80.0%	19.5%	0.3%	0.2%

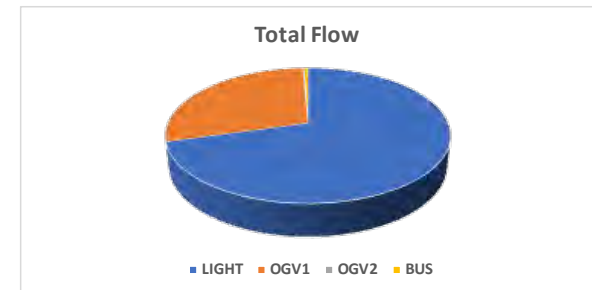
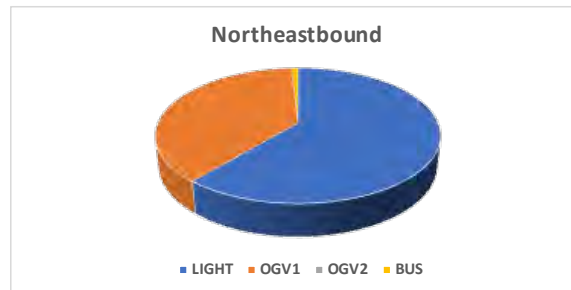
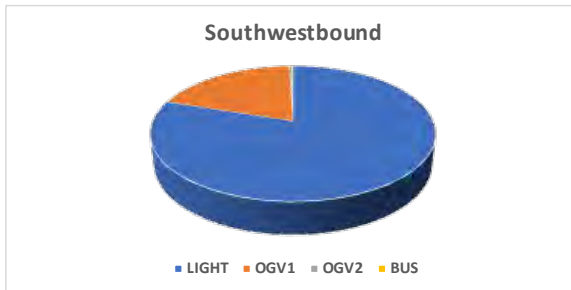
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	Total Volume	LIGHT	OGV1	OGV2	BUS
Tue 4 Jul 2023	100.0%	80.2%	19.8%	0.0%	0.0%
Wed 5 Jul 2023	100.0%	61.9%	37.0%	0.0%	1.1%
Thu 6 Jul 2023	100.0%	55.6%	43.4%	0.0%	1.0%
Fri 7 Jul 2023	100.0%	54.6%	43.9%	0.0%	1.5%
Sat 8 Jul 2023	100.0%	64.7%	35.3%	0.0%	0.0%
Sun 9 Jul 2023	100.0%	58.9%	41.1%	0.0%	0.0%
Mon 10 Jul 2023	100.0%	54.1%	44.3%	0.0%	1.6%
5 Day Ave.	100.0%	61.0%	37.9%	0.0%	1.1%
7 Day Ave.	100.0%	61.2%	38.0%	0.0%	0.9%

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	Total Volume	LIGHT	OGV1	OGV2	BUS
Tue 4 Jul 2023	100.0%	79.5%	20.5%	0.0%	0.0%
Wed 5 Jul 2023	100.0%	70.7%	28.8%	0.0%	0.6%
Thu 6 Jul 2023	100.0%	67.7%	31.8%	0.0%	0.5%
Fri 7 Jul 2023	100.0%	64.6%	34.0%	0.4%	1.1%
Sat 8 Jul 2023	100.0%	75.3%	24.3%	0.4%	0.0%
Sun 9 Jul 2023	100.0%	73.5%	26.1%	0.4%	0.0%
Mon 10 Jul 2023	100.0%	68.7%	30.5%	0.0%	0.8%
5 Day Ave.	100.0%	69.7%	29.5%	0.1%	0.6%
7 Day Ave.	100.0%	70.6%	28.7%	0.2%	0.5%

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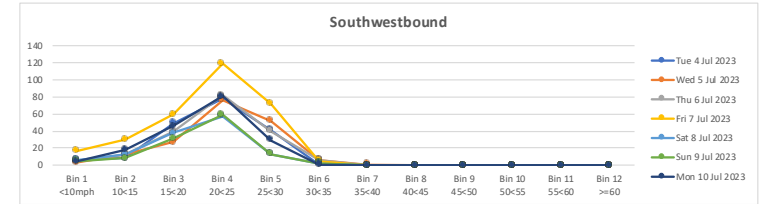


Ystradowen ATC, Sandy Lane

Direction: Southwestbound

	Total Volume	85th Percentile	Mean Average	Standard Deviation	Bin 1 <10mph	Bin 2 10<15	Bin 3 15<20	Bin 4 20<25	Bin 5 25<30	Bin 6 30<35	Bin 7 35<40	Bin 8 40<45	Bin 9 45<50	Bin 10 50<55	Bin 11 55<60	Bin 12 >=60
Tue 4 Jul 2023	183	26.4	21.4	4.8	6	8	49	78	41	1	0	0	0	0	0	0
Wed 5 Jul 2023	177	28.0	22.7	5.1	3	12	27	76	52	6	1	0	0	0	0	0
Thu 6 Jul 2023	185	27.1	21.8	5.1	5	13	39	82	40	6	0	0	0	0	0	0
Fri 7 Jul 2023	302	27.0	21.1	5.7	17	30	59	119	72	5	0	0	0	0	0	0
Sat 8 Jul 2023	128	25.2	20.1	5.0	6	12	38	57	13	2	0	0	0	0	0	0
Sun 9 Jul 2023	118	25.6	20.6	4.8	5	8	31	59	13	2	0	0	0	0	0	0
Mon 10 Jul 2023	179	25.7	20.8	4.8	4	18	46	81	29	1	0	0	0	0	0	0
5 Day Ave.	205	26.8	21.5	5.1	7	16	44	87	47	4	0	0	0	0	0	0
7 Day Ave.	182	26.4	21.2	5.0	7	14	41	79	37	3	0	0	0	0	0	0

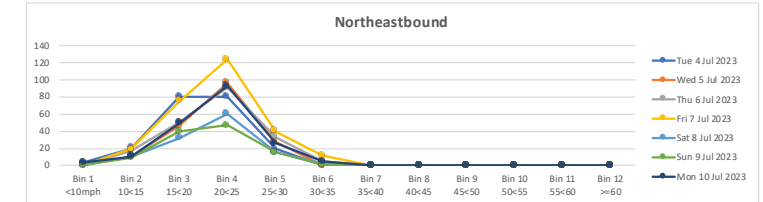
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Direction: Northeastbound

	Total Volume	85th Percentile	Mean Average	Standard Deviation	Bin 1 <10mph	Bin 2 10<15	Bin 3 15<20	Bin 4 20<25	Bin 5 25<30	Bin 6 30<35	Bin 7 35<40	Bin 8 40<45	Bin 9 45<50	Bin 10 50<55	Bin 11 55<60	Bin 12 >=60
Tue 4 Jul 2023	202	24.2	19.8	4.2	3	20	80	80	19	0	0	0	0	0	0	0
Wed 5 Jul 2023	181	25.5	21.4	4.0	1	10	46	96	28	0	0	0	0	0	0	0
Thu 6 Jul 2023	196	26.1	21.3	4.6	1	17	50	91	33	4	0	0	0	0	0	0
Fri 7 Jul 2023	269	26.3	21.6	4.6	0	19	75	124	40	11	0	0	0	0	0	0
Sat 8 Jul 2023	119	25.5	21.1	4.3	0	10	32	60	15	2	0	0	0	0	0	0
Sun 9 Jul 2023	112	25.1	20.6	4.4	1	9	39	47	15	1	0	0	0	0	0	0
Mon 10 Jul 2023	185	25.9	21.3	4.5	3	10	49	93	26	4	0	0	0	0	0	0
5 Day Ave.	207	25.6	21.1	4.4	2	15	60	97	29	4	0	0	0	0	0	0
7 Day Ave.	181	25.5	21.0	4.4	1	14	53	84	25	3	0	0	0	0	0	0

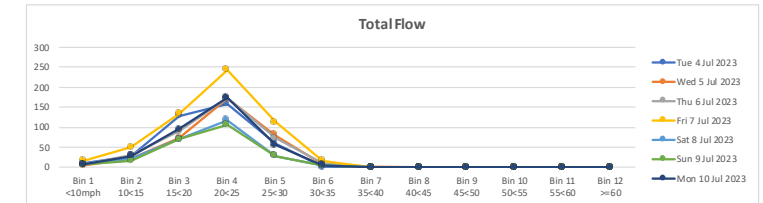
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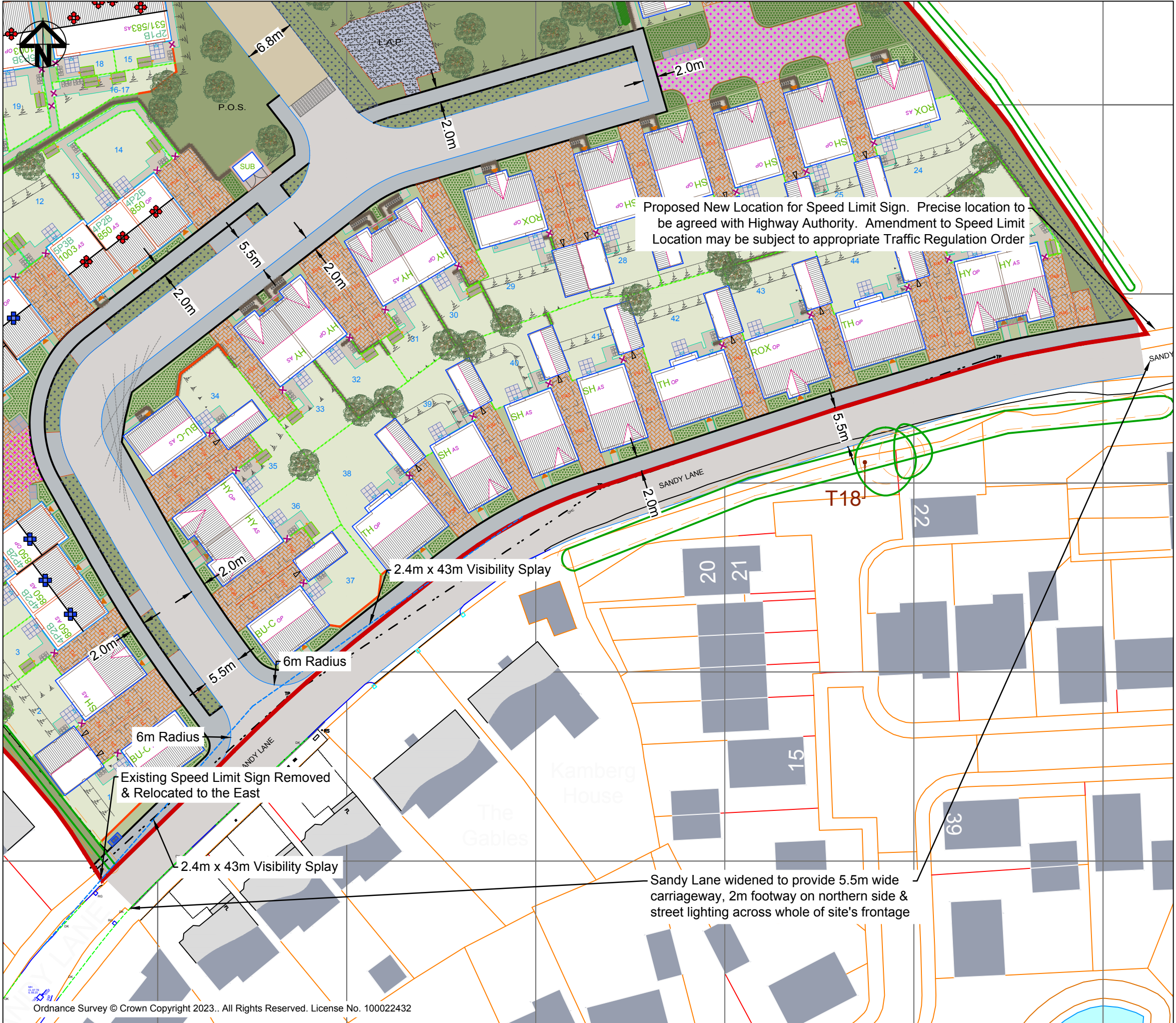
Direction: Total Flow

	Total Volume	85th Percentile	Mean Average	Standard Deviation	Bin 1 <10mph	Bin 2 10<15	Bin 3 15<20	Bin 4 20<25	Bin 5 25<30	Bin 6 30<35	Bin 7 35<40	Bin 8 40<45	Bin 9 45<50	Bin 10 50<55	Bin 11 55<60	Bin 12 >=60
Tue 4 Jul 2023	385	25.3	20.6	4.6	9	28	129	158	60	1	0	0	0	0	0	0
Wed 5 Jul 2023	358	26.8	22.0	4.6	4	22	73	172	80	6	1	0	0	0	0	0
Thu 6 Jul 2023	381	26.6	21.5	4.9	6	30	89	173	73	10	0	0	0	0	0	0
Fri 7 Jul 2023	571	26.7	21.3	5.2	17	49	134	243	112	16	0	0	0	0	0	0
Sat 8 Jul 2023	247	25.4	20.6	4.7	6	22	70	117	28	4	0	0	0	0	0	0
Sun 9 Jul 2023	230	25.4	20.6	4.6	6	17	70	106	28	3	0	0	0	0	0	0
Mon 10 Jul 2023	364	25.8	21.0	4.6	7	28	95	174	55	5	0	0	0	0	0	0
5 Day Ave.	412	26.2	21.3	4.8	9	31	104	184	76	8	0	0	0	0	0	0
7 Day Ave.	362	26.0	21.1	4.7	8	28	94	163	62	6	0	0	0	0	0	0

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Appendix 2 Proposed Access Arrangement



Proposed New Location for Speed Limit Sign. Precise location to be agreed with Highway Authority. Amendment to Speed Limit Location may be subject to appropriate Traffic Regulation Order

2.4m x 43m Visibility Splay

6m Radius

6m Radius

Existing Speed Limit Sign Removed & Relocated to the East

2.4m x 43m Visibility Splay

Sandy Lane widened to provide 5.5m wide carriageway, 2m footway on northern side & street lighting across whole of site's frontage

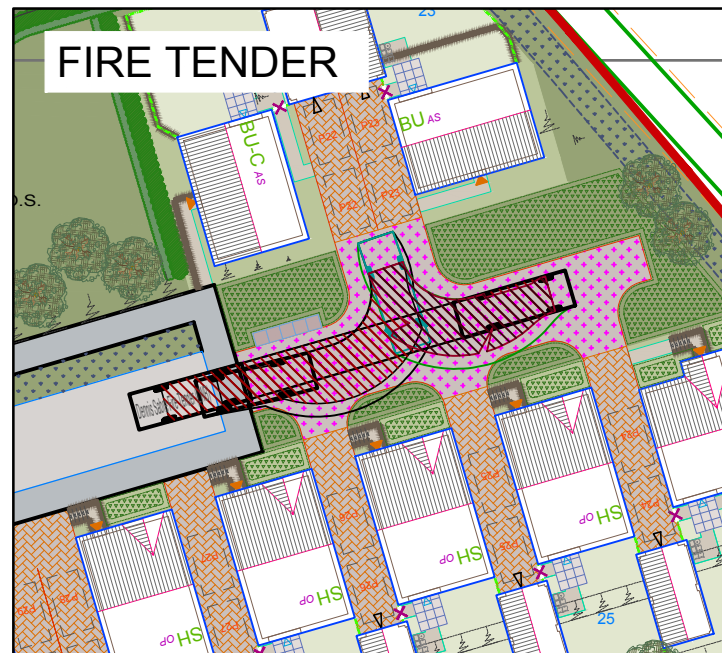
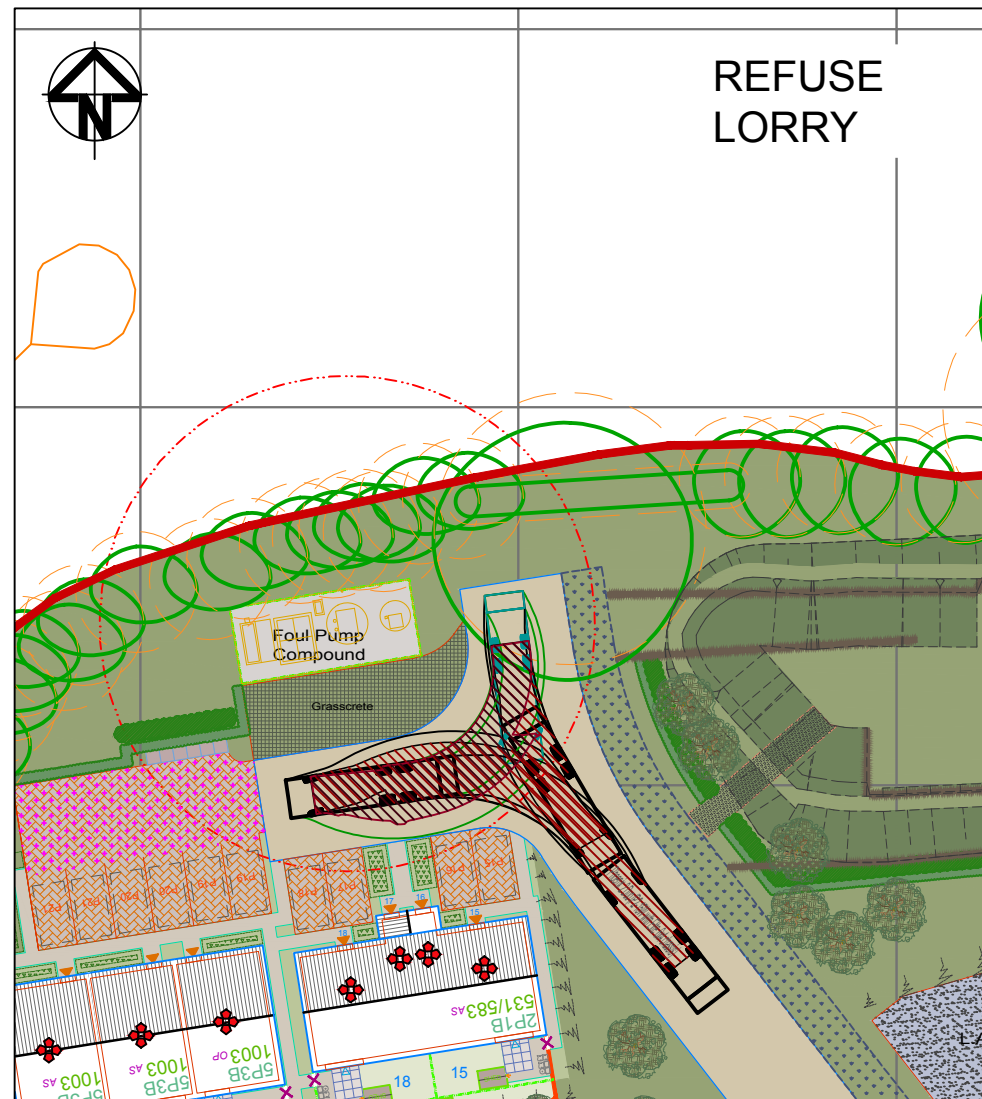
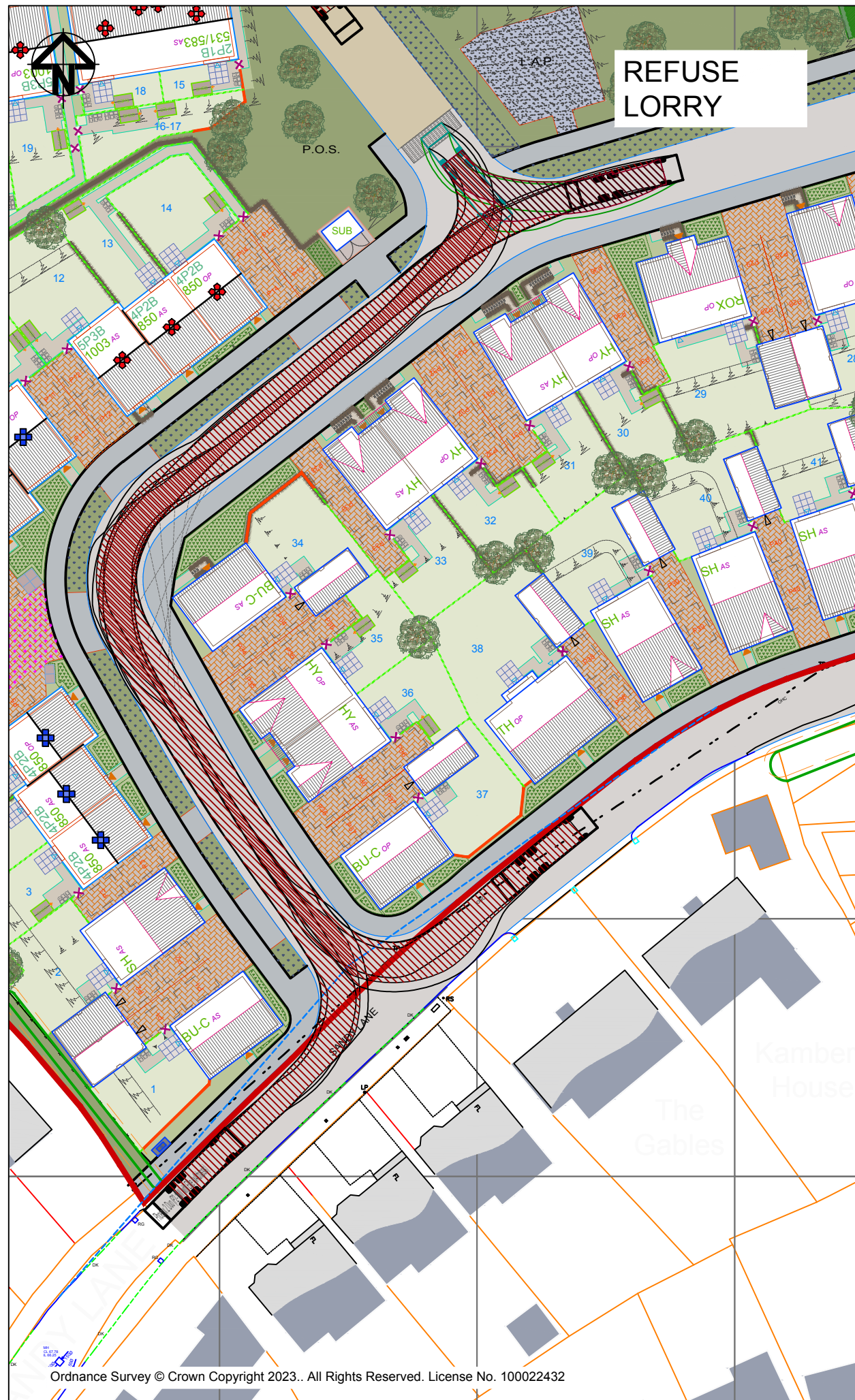
B	Revised Layout	15-09-23
A	First Issue	05-07-23

acstro

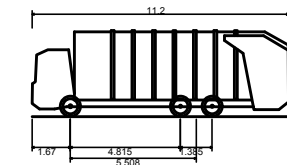
Yr Hen Farchnad, Unit 19,
Carmarthen Street, Llandeilo SA19 6BJ

mail@acstro.com
www.acstro.com
Tel: 01558 824021

Project	SANDY LANE YSTRADOWEN	
Drawing	PROPOSED ACCESS	
Drawing No.	1679-ACS-XX-ZZ-DR-T-001-B	
Scale	1:500 @ A3	



Dennis Sabre Fire Tender (LWB)
 Overall Length 7.700m
 Overall Width 2.430m
 Overall Body Height 3.512m
 Min Body Ground Clearance 0.397m
 Track Width 2.380m
 Lock to lock time 5.00s
 Kerb to Kerb Turning Radius 7.400m



Phoenix 2 Duo (P2-15W with Elite 6x4 chassis)
 Overall Length 11.200m
 Overall Width 2.530m
 Overall Body Height 3.751m
 Min Body Ground Clearance 0.304m
 Track Width 2.500m
 Lock to lock time 4.00s
 Kerb to Kerb Turning Radius 9.500m

C	Revised Layout	15-09-23
B	Fire Tender	24-08-23
A	First Issue	05-07-23

acstro

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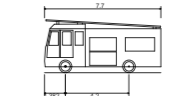
Project	SANDY LANE YSTRADOWEN
Drawing	PROPOSED ACCESS SWEEP PATH ANALYSIS
Drawing No.	1679-ACS-XX-ZZ-DR-T-002-C
Scale	1:500 @ A3



Site Key

- Site Boundary
- Travel Route from Fire Tender to Front Door of Furthest Plot
- Fire Tender Parked Location

Vehicle Tracking Shown Based on the Below Vehicle



Dennis Sabre Fire Tender (LWB)	7.200m
Overall Length	2.400m
Overall Width	2.100m
Overall Height	2.100m
Min. Ramp Clearance	2.100m
Track Width	2.100m
Lock to lock	2.100m
Kerb to Kerb Turning Radius	7.300m

Fire Tender Turning Area.
Vehicle Tracking Imported from Swept Path Analysis Drawing Provided by Acstro (Drawing Ref: 1679-ACS-XX-ZZ-DR-T-002-B)

REV.	DESCRIPTION	DATE
CLIENT		
JOB TITLE		
Sandy Lane, Ystradowen		
DRAWING TITLE		
Fire Strategy Plan		
SCALE @ A2	DATE	DRAWN BY
1:500	September '23	RW
JOB NO.	DRAWING NO.	REVISION
1941	FIRE-01	-



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Figured dimensions must be taken in preference to scaled dimensions and any discrepancies are to be referred to Hammond Architectural Ltd. Contractors, subcontractors and suppliers must verify all dimensions on site before commencing any work or making any workshop drawings.

12m = Internal run to furthest point of Plot 21

20m to front door (Plot 21)

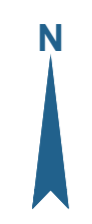
12.5m = Internal run to furthest point of Plot 24

13m to front door (Plot 24)

23m to front door (Plot 7)






13m = Internal run to furthest point of Plot 7

63.7m

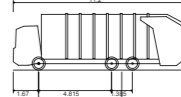




Site Key

-  Site Boundary
-  Bin Collection Point
-  Rear Garden Bin Storage Area
-  Carry Distance From Bin Collection Point to Refuse Vehicle
-  Residents Carry Distance From Plot to Bin Collection Point

Vehicle Tracking Shown Based on the Below Vehicle



Phoenix 2 Duo (P2-15W with Elite 6x4 chassis)

- Overall Length: 11.200m
- Overall Width: 2.500m
- Overall Height: 3.750m
- Bin Body Ground Clearance: 0.240m
- Track Width: 2.000m
- Lock to lock spine: 4.500m
- Kerb to Kerb Turning Radius: 9.500m



REV.	DESCRIPTION	DATE
CLIENT		
 Lewis Homes		
JOB TITLE		
Sandy Lane, Ystradowen		
DRAWING TITLE		
Refuse Collection Strategy Plan		
SCALE @ A2	DATE	DRAWN BY
1:500	September '23	RW
JOB NO.	DRAWING NO.	REVISION
1941	RCS-01	-



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Appendix 3 TRICS Trip Rate Data

Calculation Reference: AUDIT-648801-221207-1248

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Selected regions and areas:

02	SOUTH EAST	
	BO BEDFORD	1 days
	CT CENTRAL BEDFORDSHIRE	1 days
	ES EAST SUSSEX	4 days
	EX ESSEX	2 days
	HC HAMPSHIRE	8 days
	HF HERTFORDSHIRE	2 days
	KC KENT	5 days
	MW MEDWAY	1 days
	SC SURREY	3 days
	SP SOUTHAMPTON	1 days
	WS WEST SUSSEX	5 days
03	SOUTH WEST	
	BC BOURNEMOUTH CHRISTCHURCH & POOLE	1 days
	DC DORSET	1 days
	DV DEVON	2 days
	SD SWINDON	1 days
	SM SOMERSET	1 days
	TB TORBAY	1 days
04	EAST ANGLIA	
	NF NORFOLK	10 days
	PB PETERBOROUGH	1 days
	SF SUFFOLK	3 days
05	EAST MIDLANDS	
	DY DERBY	1 days
	LN LINCOLNSHIRE	1 days
	NT NOTTINGHAMSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
	ST STAFFORDSHIRE	3 days
	WK WARWICKSHIRE	2 days
	WM WEST MIDLANDS	1 days
	WO WORCESTERSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NE NORTH EAST LINCOLNSHIRE	1 days
	NY NORTH YORKSHIRE	3 days
08	NORTH WEST	
	AC CHESHIRE WEST & CHESTER	1 days
	EC CHESHIRE EAST	1 days
	LC LANCASHIRE	1 days
09	NORTH	
	CB CUMBRIA	1 days
	DH DURHAM	2 days
10	WALES	
	PS POWYS	2 days
	VG VALE OF GLAMORGAN	1 days

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

Primary 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: No of Dwellings
 Actual Range: 8 to 371 (units:)
 Range Selected by User: 6 to 400 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/14 to 30/06/22

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	18 days
Tuesday	13 days
Wednesday	23 days
Thursday	15 days
Friday	9 days

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

Selected survey types:

Manual count	72 days
Directional ATC Count	6 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:

Edge of Town Centre	7
Suburban Area (PPS6 Out of Centre)	14
Edge of Town	57

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	72
Village	1
Out of Town	3
No Sub Category	2

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 78 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®.

Population within 500m Range:

All Surveys Included

Secondary Filtering selection (Cont.):

Population within 1 mile:

1,000 or Less	1 days
1,001 to 5,000	5 days
5,001 to 10,000	18 days
10,001 to 15,000	26 days
15,001 to 20,000	10 days
20,001 to 25,000	10 days
25,001 to 50,000	8 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	14 days
25,001 to 50,000	7 days
50,001 to 75,000	9 days
75,001 to 100,000	12 days
100,001 to 125,000	2 days
125,001 to 250,000	25 days
250,001 to 500,000	9 days

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

Car ownership within 5 miles:

0.5 or Less	1 days
0.6 to 1.0	21 days
1.1 to 1.5	53 days
1.6 to 2.0	3 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	32 days
No	46 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	77 days
2 Poor	1 days

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

Covid-19 Restrictions	Yes	At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions
-----------------------	-----	--

LIST OF SITES relevant to selection parameters

1	AC-03-A-04 LONDON ROAD NORTHWICH LEFTWICH Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 24 <i>Survey date: THURSDAY 06/06/19</i>	TOWN HOUSES	CHESHIRE WEST & CHESTER	<i>Survey Type: MANUAL</i>
2	BC-03-A-02 HURSTDENE ROAD BOURNEMOUTH CASTLE LANE WEST Edge of Town Residential Zone Total No of Dwellings: 28 <i>Survey date: MONDAY 24/03/14</i>	BUNGALOWS	BOURNEMOUTH CHRISTCHURCH & POOLE	<i>Survey Type: MANUAL</i>
3	BO-03-A-01 CARNOUSTIE DRIVE BEDFORD GREAT DENHAM Edge of Town Residential Zone Total No of Dwellings: 30 <i>Survey date: THURSDAY 15/10/20</i>	DETACHED HOUSES	BEDFORD	<i>Survey Type: MANUAL</i>
4	CB-03-A-05 MACADAM WAY PENRITH Edge of Town Centre Residential Zone Total No of Dwellings: 50 <i>Survey date: TUESDAY 21/06/16</i>	DETACHED/TERRACED HOUSING	CUMBRIA	<i>Survey Type: MANUAL</i>
5	CT-03-A-01 ARLESEY ROAD STOTFOLD Edge of Town Residential Zone Total No of Dwellings: 46 <i>Survey date: WEDNESDAY 22/06/22</i>	MIXED HOUSES	CENTRAL BEDFORDSHIRE	<i>Survey Type: MANUAL</i>
6	DC-03-A-09 A350 SHAFTESBURY Edge of Town No Sub Category Total No of Dwellings: 50 <i>Survey date: FRIDAY 19/11/21</i>	MIXED HOUSES	DORSET	<i>Survey Type: MANUAL</i>
7	DH-03-A-01 GREENFIELDS ROAD BISHOP AUCKLAND Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 50 <i>Survey date: TUESDAY 28/03/17</i>	SEMI DETACHED	DURHAM	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

8	DH-03-A-03 PILGRIMS WAY DURHAM	SEMI -DETACHED & TERRACED	DURHAM
	Edge of Town Residential Zone Total No of Dwellings: 57 <i>Survey date: FRIDAY 19/10/18</i>		<i>Survey Type: MANUAL</i>
9	DV-03-A-02 MILLHEAD ROAD HONITON	HOUSES & BUNGALOWS	DEVON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 116 <i>Survey date: FRIDAY 25/09/15</i>		<i>Survey Type: MANUAL</i>
10	DV-03-A-03 LOWER BRAND LANE HONITON	TERRACED & SEMI DETACHED	DEVON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 70 <i>Survey date: MONDAY 28/09/15</i>		<i>Survey Type: MANUAL</i>
11	DY-03-A-01 RADBOURNE LANE DERBY	MIXED HOUSES	DERBY
	Edge of Town Residential Zone Total No of Dwellings: 371 <i>Survey date: TUESDAY 10/07/18</i>		<i>Survey Type: MANUAL</i>
12	EC-03-A-06 GREYSTOKE ROAD MACCLESFIELD HURDSFIELD	TERRACED HOUSES	CHESHIRE EAST
	Edge of Town Residential Zone Total No of Dwellings: 24 <i>Survey date: MONDAY 24/11/14</i>		<i>Survey Type: MANUAL</i>
13	ES-03-A-03 SHEPHAM LANE POLEGATE	MIXED HOUSES & FLATS	EAST SUSSEX
	Edge of Town Residential Zone Total No of Dwellings: 212 <i>Survey date: MONDAY 11/07/16</i>		<i>Survey Type: MANUAL</i>
14	ES-03-A-04 NEW LYDD ROAD CAMBER	MIXED HOUSES & FLATS	EAST SUSSEX
	Edge of Town Residential Zone Total No of Dwellings: 134 <i>Survey date: FRIDAY 15/07/16</i>		<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

15	ES-03-A-05 RATTLE ROAD NEAR EASTBOURNE STONE CROSS Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	MIXED HOUSES & FLATS	99 05/06/19	EAST SUSSEX	<i>Survey Type: MANUAL</i>
16	ES-03-A-07 NEW ROAD HAILSHAM HELLINGLY Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: THURSDAY</i>	MIXED HOUSES & FLATS	91 07/11/19	EAST SUSSEX	<i>Survey Type: MANUAL</i>
17	EX-03-A-02 MANOR ROAD CHIGWELL GRANGE HILL Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	DETACHED & SEMI-DETACHED	97 27/11/17	ESSEX	<i>Survey Type: MANUAL</i>
18	EX-03-A-03 KESTREL GROVE RAYLEIGH Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	MIXED HOUSES	123 27/09/21	ESSEX	<i>Survey Type: MANUAL</i>
19	HC-03-A-21 PRIESTLEY ROAD BASINGSTOKE HOUNDMILLS Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: TUESDAY</i>	TERRACED & SEMI-DETACHED	39 13/11/18	HAMPSHIRE	<i>Survey Type: MANUAL</i>
20	HC-03-A-22 BOW LAKE GARDENS NEAR EASTLEIGH BISHOPSTOKE Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	MIXED HOUSES	40 31/10/18	HAMPSHIRE	<i>Survey Type: MANUAL</i>
21	HC-03-A-23 CANADA WAY LIPHOOK Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: TUESDAY</i>	HOUSES & FLATS	62 19/11/19	HAMPSHIRE	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

22	HC-03-A-24 STONEHAM LANE EASTLEIGH	MIXED HOUSES & FLATS		HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		243	
	<i>Survey date: WEDNESDAY</i>		<i>10/11/21</i>	<i>Survey Type: MANUAL</i>
23	HC-03-A-26 BOTLEY ROAD WHITELEY	MIXED HOUSES & FLATS		HAMPSHIRE
	Edge of Town Out of Town Total No of Dwellings:		270	
	<i>Survey date: THURSDAY</i>		<i>24/06/21</i>	<i>Survey Type: MANUAL</i>
24	HC-03-A-27 DAIRY ROAD ANDOVER	MIXED HOUSES		HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		73	
	<i>Survey date: TUESDAY</i>		<i>16/11/21</i>	<i>Survey Type: MANUAL</i>
25	HC-03-A-28 EAGLE AVENUE WATERLOOVILLE LOVEDEAN	MIXED HOUSES & FLATS		HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		125	
	<i>Survey date: MONDAY</i>		<i>08/11/21</i>	<i>Survey Type: MANUAL</i>
26	HC-03-A-29 CROW LANE RINGWOOD CROW	MIXED HOUSES & FLATS		HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		195	
	<i>Survey date: THURSDAY</i>		<i>30/06/22</i>	<i>Survey Type: MANUAL</i>
27	HF-03-A-03 HARE STREET ROAD BUNTINGFORD	MIXED HOUSES		HERTFORDSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		160	
	<i>Survey date: MONDAY</i>		<i>08/07/19</i>	<i>Survey Type: MANUAL</i>
28	HF-03-A-04 HOLMSIDE RISE WATFORD SOUTH OXHEY	TERRACED HOUSES		HERTFORDSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		8	
	<i>Survey date: TUESDAY</i>		<i>08/06/21</i>	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

29	KC-03-A-03 HYTHE ROAD ASHFORD WILLESBOROUGH Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 51 <i>Survey date: THURSDAY 14/07/16</i>	MI XED HOUSES & FLATS	KENT	<i>Survey Type: MANUAL</i>
30	KC-03-A-04 KILN BARN ROAD AYLESFORD DITTON Edge of Town Residential Zone Total No of Dwellings: 110 <i>Survey date: FRIDAY 22/09/17</i>	SEMI -DETACHED & TERRACED	KENT	<i>Survey Type: MANUAL</i>
31	KC-03-A-06 MARGATE ROAD HERNE BAY Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 363 <i>Survey date: WEDNESDAY 27/09/17</i>	MI XED HOUSES & FLATS	KENT	<i>Survey Type: MANUAL</i>
32	KC-03-A-07 RECVLVER ROAD HERNE BAY Edge of Town Residential Zone Total No of Dwellings: 288 <i>Survey date: WEDNESDAY 27/09/17</i>	MI XED HOUSES	KENT	<i>Survey Type: MANUAL</i>
33	KC-03-A-09 WESTERN LINK FAVERSHAM DAVINGTON Edge of Town Residential Zone Total No of Dwellings: 14 <i>Survey date: WEDNESDAY 09/06/21</i>	MI XED HOUSES & FLATS	KENT	<i>Survey Type: MANUAL</i>
34	LC-03-A-31 GREENSIDE PRESTON COTTAM Edge of Town Residential Zone Total No of Dwellings: 32 <i>Survey date: FRIDAY 17/11/17</i>	DETACHED HOUSES	LANCASHIRE	<i>Survey Type: MANUAL</i>
35	LN-03-A-04 EGERTON ROAD LINCORN Edge of Town Centre Residential Zone Total No of Dwellings: 30 <i>Survey date: MONDAY 29/06/15</i>	DETACHED & SEMI -DETACHED	LINCOLNSHIRE	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

36	MW-03-A-02	MIXED HOUSES		MEDWAY
	OTTERHAM QUAY LANE			
	RAINHAM			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		19	
	Survey date: MONDAY		06/06/22	Survey Type: MANUAL
37	NE-03-A-03	PRIVATE HOUSES		NORTH EAST LINCOLNSHIRE
	STATION ROAD			
	SCUNTHORPE			
	Edge of Town Centre			
	Residential Zone			
	Total No of Dwellings:		180	
	Survey date: TUESDAY		20/05/14	Survey Type: MANUAL
38	NF-03-A-03	DETACHED HOUSES		NORFOLK
	HALING WAY			
	THETFORD			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		10	
	Survey date: WEDNESDAY		16/09/15	Survey Type: MANUAL
39	NF-03-A-06	MIXED HOUSES		NORFOLK
	BEAUFORT WAY			
	GREAT YARMOUTH			
	BRADWELL			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		275	
	Survey date: MONDAY		23/09/19	Survey Type: MANUAL
40	NF-03-A-07	MIXED HOUSES & FLATS		NORFOLK
	SILFIELD ROAD			
	WYMONDHAM			
	Edge of Town			
	Out of Town			
	Total No of Dwellings:		297	
	Survey date: FRIDAY		20/09/19	Survey Type: DIRECTIONAL ATC COUNT
41	NF-03-A-10	MIXED HOUSES & FLATS		NORFOLK
	HUNSTANTON ROAD			
	HUNSTANTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		17	
	Survey date: WEDNESDAY		12/09/18	Survey Type: DIRECTIONAL ATC COUNT
42	NF-03-A-16	MIXED HOUSES & FLATS		NORFOLK
	NORWICH COMMON			
	WYMONDHAM			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		138	
	Survey date: TUESDAY		20/10/15	Survey Type: DIRECTIONAL ATC COUNT
43	NF-03-A-24	MIXED HOUSES & FLATS		NORFOLK
	HUNSTANTON ROAD			
	HUNSTANTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		127	
	Survey date: WEDNESDAY		22/09/21	Survey Type: DIRECTIONAL ATC COUNT

LIST OF SITES relevant to selection parameters (Cont.)

44	NF-03-A-25 WOODFARM LANE GORLESTON-ON-SEA	MIXED HOUSES & FLATS		NORFOLK
	Edge of Town Residential Zone Total No of Dwellings:		55	
	<i>Survey date: TUESDAY</i>		<i>21/09/21</i>	<i>Survey Type: MANUAL</i>
45	NF-03-A-26 HEATH DRIVE HOLT	MIXED HOUSES		NORFOLK
	Edge of Town Residential Zone Total No of Dwellings:		91	
	<i>Survey date: WEDNESDAY</i>		<i>22/09/21</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>
46	NF-03-A-28 NORTH WALSHAM ROAD NORTH WALSHAM	MIXED HOUSES		NORFOLK
	Edge of Town Residential Zone Total No of Dwellings:		100	
	<i>Survey date: WEDNESDAY</i>		<i>22/09/21</i>	<i>Survey Type: DIRECTIONAL ATC COUNT</i>
47	NF-03-A-30 BRANDON ROAD SWAFFHAM	MIXED HOUSES		NORFOLK
	Edge of Town Residential Zone Total No of Dwellings:		266	
	<i>Survey date: THURSDAY</i>		<i>23/09/21</i>	<i>Survey Type: MANUAL</i>
48	NT-03-A-08 WIGHAY ROAD HUCKNALL	DETACHED HOUSES		NOTTINGHAMSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		36	
	<i>Survey date: MONDAY</i>		<i>18/10/21</i>	<i>Survey Type: MANUAL</i>
49	NY-03-A-12 RACECOURSE LANE NORTHALLERTON	TOWN HOUSES		NORTH YORKSHIRE
	Edge of Town Centre Residential Zone Total No of Dwellings:		47	
	<i>Survey date: TUESDAY</i>		<i>27/09/16</i>	<i>Survey Type: MANUAL</i>
50	NY-03-A-13 CATTERICK ROAD CATTERICK GARRISON OLD HOSPITAL COMPOUND Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings:	TERRACED HOUSES		NORTH YORKSHIRE
	<i>Survey date: WEDNESDAY</i>		10	<i>Survey Type: MANUAL</i>
			<i>10/05/17</i>	

LIST OF SITES relevant to selection parameters (Cont.)

51	NY-03-A-14 PALACE ROAD RIPON	DETACHED & BUNGALOWS		NORTH YORKSHIRE
	Edge of Town Residential Zone Total No of Dwellings:		45	
	<i>Survey date: WEDNESDAY</i>		<i>18/05/22</i>	<i>Survey Type: MANUAL</i>
52	PB-03-A-04 EASTFIELD ROAD PETERBOROUGH	DETACHED HOUSES		PETERBOROUGH
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings:		28	
	<i>Survey date: MONDAY</i>		<i>17/10/16</i>	<i>Survey Type: MANUAL</i>
53	PS-03-A-01 BRYN GLAS WELSHPOOL	MIXED HOUSES		POWYS
	Edge of Town Centre Residential Zone Total No of Dwellings:		16	
	<i>Survey date: MONDAY</i>		<i>11/05/15</i>	<i>Survey Type: MANUAL</i>
54	PS-03-A-02 GUNROG ROAD WELSHPOOL	DETACHED/SEMI-DETACHED		POWYS
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings:		28	
	<i>Survey date: MONDAY</i>		<i>11/05/15</i>	<i>Survey Type: MANUAL</i>
55	SC-03-A-04 HIGH ROAD BYFLEET	DETACHED & TERRACED		SURREY
	Edge of Town Residential Zone Total No of Dwellings:		71	
	<i>Survey date: THURSDAY</i>		<i>23/01/14</i>	<i>Survey Type: MANUAL</i>
56	SC-03-A-05 REIGATE ROAD HORLEY	MIXED HOUSES		SURREY
	Edge of Town Residential Zone Total No of Dwellings:		207	
	<i>Survey date: MONDAY</i>		<i>01/04/19</i>	<i>Survey Type: MANUAL</i>
57	SC-03-A-07 FOLLY HILL FARNHAM	MIXED HOUSES		SURREY
	Edge of Town Residential Zone Total No of Dwellings:		41	
	<i>Survey date: WEDNESDAY</i>		<i>11/05/22</i>	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

58	SD-03-A-01 HEADLANDS GROVE SWINDON	SEMI DETACHED	SWINDON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 27 <i>Survey date: THURSDAY 22/09/16</i>		
59	SF-03-A-05 VALE LANE BURY ST EDMUNDS	DETACHED HOUSES	SUFFOLK
	Edge of Town Residential Zone Total No of Dwellings: 18 <i>Survey date: WEDNESDAY 09/09/15</i>		
60	SF-03-A-09 FOXHALL ROAD IPSWICH	MIXED HOUSES & FLATS	SUFFOLK
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 179 <i>Survey date: THURSDAY 24/06/21</i>		
61	SF-03-A-10 LOVETOFTS DRIVE IPSWICH WHITEHOUSE	TERRACED & SEMI-DETACHED	SUFFOLK
	Edge of Town Residential Zone Total No of Dwellings: 149 <i>Survey date: TUESDAY 22/06/21</i>		
62	SH-03-A-06 ELLESMERE ROAD SHREWSBURY	BUNGALOWS	SHROPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 16 <i>Survey date: THURSDAY 22/05/14</i>		
63	SM-03-A-01 WEMBDON ROAD BRIDGWATER NORTHFIELD	DETACHED & SEMI	SOMERSET
	Edge of Town Residential Zone Total No of Dwellings: 33 <i>Survey date: THURSDAY 24/09/15</i>		
64	SP-03-A-02 BARNFIELD WAY NEAR SOUTHAMPTON HEDGE END	MIXED HOUSES & FLATS	SOUTHAMPTON
	Edge of Town Out of Town Total No of Dwellings: 250 <i>Survey date: TUESDAY 12/10/21</i>		
65	ST-03-A-06 STANFORD ROAD WOLVERHAMPTON BLAKENHALL	SEMI-DET. & TERRACED	STAFFORDSHIRE
	Edge of Town Centre No Sub Category Total No of Dwellings: 17 <i>Survey date: FRIDAY 09/05/14</i>		

LIST OF SITES relevant to selection parameters (Cont.)

66	ST-03-A-07 BEACONSIDE STAFFORD MARSTON GATE Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	DETACHED & SEMI -DETACHED 248 22/11/17	STAFFORDSHIRE	<i>Survey Type: MANUAL</i>
67	ST-03-A-08 SILKMORE CRESCENT STAFFORD MEADOWCROFT PARK Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	DETACHED HOUSES 26 22/11/17	STAFFORDSHIRE	<i>Survey Type: MANUAL</i>
68	TB-03-A-01 BRONSHILL ROAD TORQUAY Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	TERRACED HOUSES 37 30/09/15	TORBAY	<i>Survey Type: MANUAL</i>
69	VG-03-A-01 ARTHUR STREET BARRY Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	SEMI -DETACHED & TERRACED 12 08/05/17	VALE OF GLAMORGAN	<i>Survey Type: MANUAL</i>
70	WK-03-A-03 BRESE AVENUE WARWICK GUYS CLIFFE Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i>	DETACHED HOUSES 23 25/09/19	WARWICKSHIRE	<i>Survey Type: MANUAL</i>
71	WK-03-A-04 DALEHOUSE LANE KENILWORTH Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: FRIDAY</i>	DETACHED HOUSES 49 27/09/19	WARWICKSHIRE	<i>Survey Type: MANUAL</i>
72	WM-03-A-05 COUNDON ROAD COVENTRY Edge of Town Centre Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i>	TERRACED & DETACHED 89 21/11/16	WEST MIDLANDS	<i>Survey Type: MANUAL</i>
73	WO-03-A-07 RYE GRASS LANE REDDITCH Edge of Town Residential Zone Total No of Dwellings: <i>Survey date: THURSDAY</i>	MIXED HOUSES & FLATS 47 01/10/20	WORCESTERSHIRE	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

74	WS-03-A-04	MIXED HOUSES		WEST SUSSEX
	HILLS FARM LANE			
	HORSHAM			
	BROADBRIDGE HEATH			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		151	
	Survey date: THURSDAY		11/12/14	Survey Type: MANUAL
75	WS-03-A-08	MIXED HOUSES		WEST SUSSEX
	ROUNDSTONE LANE			
	ANGMERING			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		180	
	Survey date: THURSDAY		19/04/18	Survey Type: MANUAL
76	WS-03-A-12	MIXED HOUSES		WEST SUSSEX
	MADGWICK LANE			
	CHICHESTER			
	WESTHAMPNETT			
	Edge of Town			
	Village			
	Total No of Dwellings:		152	
	Survey date: WEDNESDAY		16/06/21	Survey Type: MANUAL
77	WS-03-A-13	MIXED HOUSES & FLATS		WEST SUSSEX
	LITTLEHAMPTON ROAD			
	WORTHING			
	WEST DURRINGTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		197	
	Survey date: WEDNESDAY		23/06/21	Survey Type: MANUAL
78	WS-03-A-14	MIXED HOUSES		WEST SUSSEX
	TODDINGTON LANE			
	LITTLEHAMPTON			
	WICK			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		117	
	Survey date: WEDNESDAY		20/10/21	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
 TOTAL 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	78	101	0.083	78	101	0.300	78	101	0.383
08:00 - 09:00	78	101	0.137	78	101	0.370	78	101	0.507
09:00 - 10:00	78	101	0.135	78	101	0.172	78	101	0.307
10:00 - 11:00	78	101	0.129	78	101	0.156	78	101	0.285
11:00 - 12:00	78	101	0.137	78	101	0.150	78	101	0.287
12:00 - 13:00	78	101	0.155	78	101	0.159	78	101	0.314
13:00 - 14:00	78	101	0.165	78	101	0.149	78	101	0.314
14:00 - 15:00	78	101	0.158	78	101	0.185	78	101	0.343
15:00 - 16:00	78	101	0.259	78	101	0.169	78	101	0.428
16:00 - 17:00	78	101	0.277	78	101	0.162	78	101	0.439
17:00 - 18:00	78	101	0.341	78	101	0.160	78	101	0.501
18:00 - 19:00	78	101	0.268	78	101	0.152	78	101	0.420
19:00 - 20:00	1	97	0.062	1	97	0.052	1	97	0.114
20:00 - 21:00	1	97	0.031	1	97	0.021	1	97	0.052
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.337			2.357			4.694

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.*

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Parameter summary

Trip rate parameter range selected: 8 - 371 (units:)
 Survey date range: 01/01/14 - 30/06/22
 Number of weekdays (Monday-Friday): 82
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 12
 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.

acstro

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