

Technical Note

Introduction & Scope of Assessment

- 1.1 This Technical Note (TN) on highways and transport has been prepared on behalf of Jamie Orton to consider highways matters relating to the proposed residential development under Use Class C3 comprising of 10 residential dwelling units on land at Scyld, Horsemere Green Lane, Climping.
- 1.2 This technical note seeks to determine that the proposals would not result in any material traffic impact.

Existing Site Description & Proposed Development

- 1.3 The site is located between Littlehampton and Burndell in West Sussex. The Local Planning Authority is Arun District Council. The surrounding area consists of residential properties and farmland.
- 1.1 The site in relation to the regional and local highway network is illustrated at **Figure 1.1** and **Figure 1.2** respectively.
- 1.4 The proposals include refurbishment an existing dwelling and the construction of 9 new private houses, consisting of four 4/5-bed detached houses, three 4-bed detached houses and three 3-bed detached houses with a parking provision of 17 spaces including 5 visitor spaces including highways and landscaping alterations.
- 1.5 The Curtis Leeves Technical Ltd proposals drawing 1840 101 Revision 1 is included within this TN in **Appendix A**.

Parking Provision

- 1.6 Standards of parking provision for residential development are described in Supplementary Planning Guidance Complements Policy GEN12 of the Arun District Local Plan 2003, which relates to the provision of parking in new development. These standards represent the maximum provision for parking.
- 1.7 Table 1 (Housing and Estate Development) states that, for single house & estate developments (where development does not exceed 15 units), for each dwelling of 1, 2 or 3 bedrooms, a maximum provision of 2 car spaces and 1 space for visitors should be provided in curtilage where possible. For each dwelling with 4 or more bedrooms a maximum of 3 garages or car spaces and 1 space for visitors should provided in curtilage where possible.

- 1.8 In terms of operational requirements for car spaces, these are required to be provided to a size 4.8m x 2.4m to accommodate a private car of average dimensions.
- 1.9 The proposals include 10 private houses with a parking provision of 17 spaces including 5 visitor spaces and therefore comply with standards.

Visibility Requirements

- 1.10 In respect of the inter-visibility between vehicles emerging from proposed residential development and traffic on Horsemere Green Lane, the two key elements to be assessed are the setback distance, or 'x' distance, along the minor arm and the distance a driver can see along the major road (i.e. Horsemere Green Lane when exiting, or 'y' distance).
- 1.11 The 'x' distance is regarded as a function of capacity. The shorter the distance, the slower traffic will approach a give-way line. The longer the distance, the more opportunities there will be for approaching drivers to look for gaps in traffic on the major road and therefore enable them to approach at a higher speed.
- 1.12 At an 'x' distance of 2.4 metres, an approaching driver will have to slow to a virtual stop at the give way line to observe traffic on the major road without encroaching onto it. Consequently, only one vehicle at a time can safely exit from the minor road under these operating conditions. It is clearly evident that the volume of traffic emerging from the new access way will be low and therefore a 2.4 metre 'x' distance is appropriate.
- 1.13 The 'y' distance is based upon sight stopping distances (SSDs) of traffic approaching on the major arm of a junction. The recorded speed of traffic will be used to determine the appropriate visibility or 'y' distances to the left and right along Horsemere Green Lane for the proposed site access junctions.
- 1.14 The SSD is the distance within which drivers (on the major arm of a junction) need to be able to see ahead and stop from a given speed. In other words, SSDs are a function of vehicle speed, deceleration rate and driver reaction time. The basic formula for calculating SSD is outlined within Design Manual for Roads and Bridges (DMRB) as appropriate. Therefore, a signposted speed of 30mph (48kph) would require a SSD of 43 metres in both directions.
- 1.15 From **Figure 1.3** it can be seen that the required 'y' distances, as detailed above, can be achieved both to the right and left of each site access without obstruction or encroaching onto land under ownership by a third party from an 'x' distance (or set-back distance) of 2.4 metres along the centre of the proposed new carriageway.
- 1.16 Within the visibility splays, all landscaping would be maintained at a maximum height of 600mm so as not to obstruct sightlines.

Movement & Access

- 1.17 The proposed vehicular access through the site will be by means of a shared surface access road provided to a width of 4.8m with a 1.5m footway. The refurbished residential dwelling will retain its existing access. Furthermore, all dwellings will be within 45 metres of the internal access road, which runs through the development, and therefore access for fire appliances to individual properties would not be required.

Delivery & Servicing Arrangement

- 1.18 The proposed site layout, including parking and access arrangements is provided in **Appendix A** with Swept Path Analysis of a private car accessing the site and the garages shown in **Figures 1.4 & 1.5**.
- 1.19 In relation to refuse collection, Swept Path Analysis of a refuse collection vehicle is shown in **Figure 1.6 & 1.7** showing the collection vehicle entering and exiting the site in a forward gear. Bin storage for the residential units will be stored within the curtilage of each dwelling, as outlined within Manual for Streets (MfS) bin stand locations would result in an operative carry distance no greater than 25 metres.
- 1.20 Given the size of the proposed development, the number of service deliveries would be low and restricted to a weekly collection of refuse plus occasional home delivery services. **Figure 1.8 & 1.9** show the swept path of a delivery vehicle turning within the turning area within the site.
- 1.21 Should the need arise for a fire appliance to attend the site, the swept path analysis of a standard fire tender is shown in **Figure 1.10 & 1.11**.

Trip Generation Analysis

- 1.22 To establish typical trips to the current site and the development proposals, the TRICS (Trip Rate Information Computer System) database version 7.4.4 has been interrogated to identify similar developments comprising of sample sites from the Residential Houses Privately Owned datasets.
- 1.23 Sample sites for the existing and proposed uses have been selected which are located within South East England, edge of town or suburban locations surveyed between 2009 and 2017. The full TRICS output is contained within **Appendix B** of this note and summarised within **Table 1.1**.

Proposed Residential Use

- 1.24 The table below provides a summary of the predicted weekday daily profile of multi-modal trip rates by mode of travel associated with the proposed 9 new residential units based on trip rates derived from the TRICS database.

Proposed Residential	AM Peak		PM Peak		Daily	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
Vehicles	1	4	3	1	21	22
Public Transport	0	0	0	0	1	1
Cycle	0	0	0	0	1	1
Pedestrians	0	1	1	1	6	5
Total Persons	1	5	4	2	29	29

Table 1.1: Peak and Daily Trip Profile (Proposed C3 Residential Use)

- 1.25 From **Table 1.1** it can be seen that during the weekday AM & PM peak hourly and daily periods, the proposed residential development has the ability to generate in the order of 58 person trip movements, of which 22 two-way daily movements would be vehicular trips with the remainder undertaken by modes other than private car, principally walking and public transport.
- 1.26 Furthermore, in terms of servicing, given the size of the proposed development, the number of service deliveries would be low and restricted to a weekly collection of refuse plus occasional home delivery services.

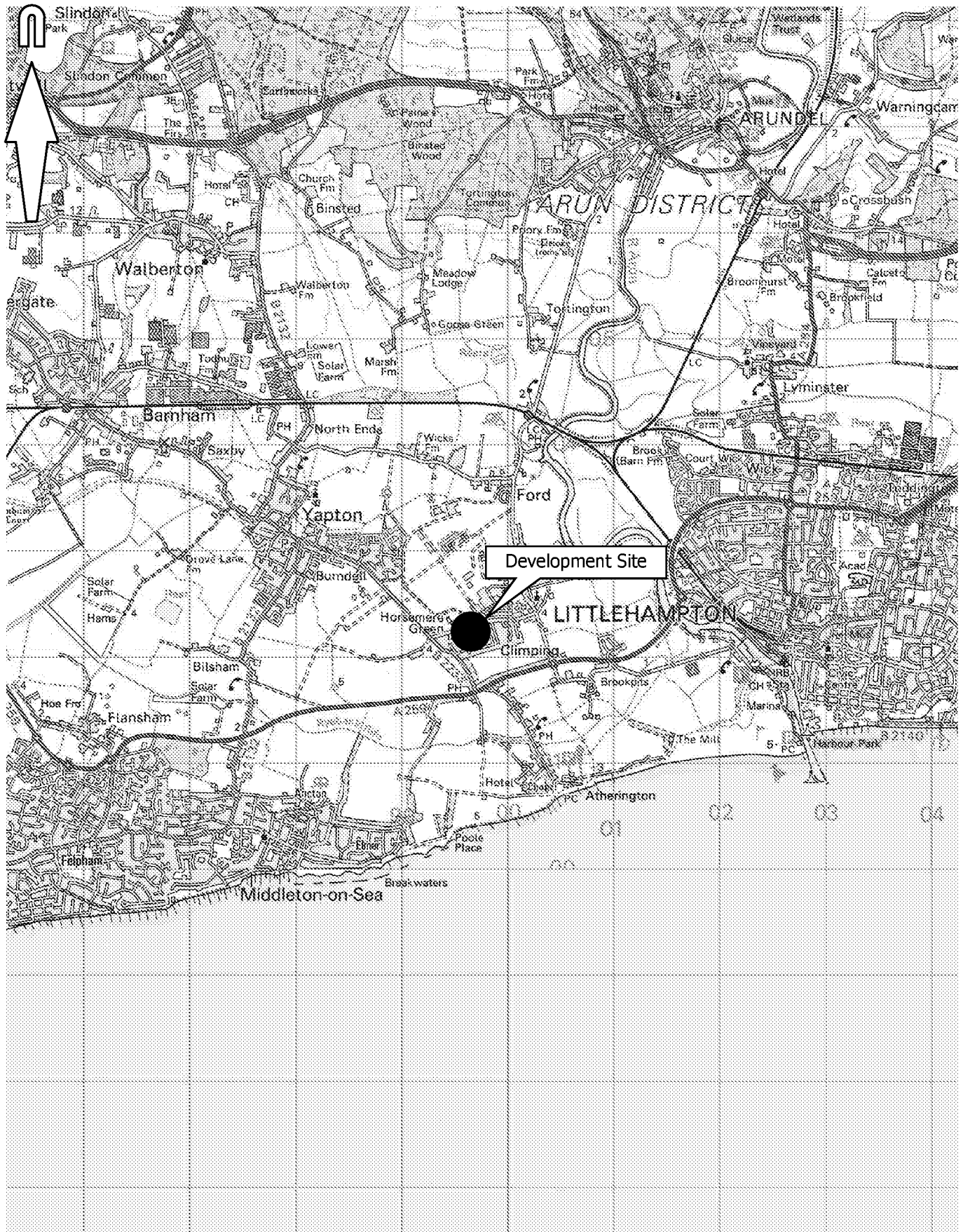
Trip Generating Summary

- 1.27 The proposed C3 residential development is expected to generate up to 6 vehicle trips during both peak hours, equivalent to 1 movement every 12 minutes. Overall the impact on the operation of the surrounding highway and transport networks would be negligible.

Summary and Conclusions

- 1.28 This Technical Note on highways and transport has been prepared on behalf of Jamie Orton to consider the trip generation implications relating to the proposed residential development at Scyld, Horsemere Green Lane, Climping. The proposals consist of a residential scheme of 10 residential units including 17 associated parking spaces and 5 visitor spaces.
- 1.29 A summary of the findings within the Technical Note are provided below:
- » Required visibility splays have been demonstrated onto Horsemere Green Lane in accordance with relevant guidance for the posted speed limit;
 - » The proposed residential parking provision is in accordance with local parking standards;
 - » Fire access, refuse collection and servicing provisions have been set out;
 - » Over a daily period, the proposed residential use will generate a combined total of 22 two-way vehicle movements;
 - » The proposed use will generate up to 5 vehicle trips during both peak hours, equivalent to 1 movement every 16 minutes; and
 - » Overall the impact on the operation of the surrounding highway and transport networks would be negligible.
- 1.30 On the basis of the findings within this Technical Note and in the context of the guidelines within para. 32 of the NPPF it is considered that there are no residual cumulative impacts in terms of highway safety or the operational capacity of the surrounding transport network, and therefore planning permission should not be withheld on transport grounds.

FIGURES



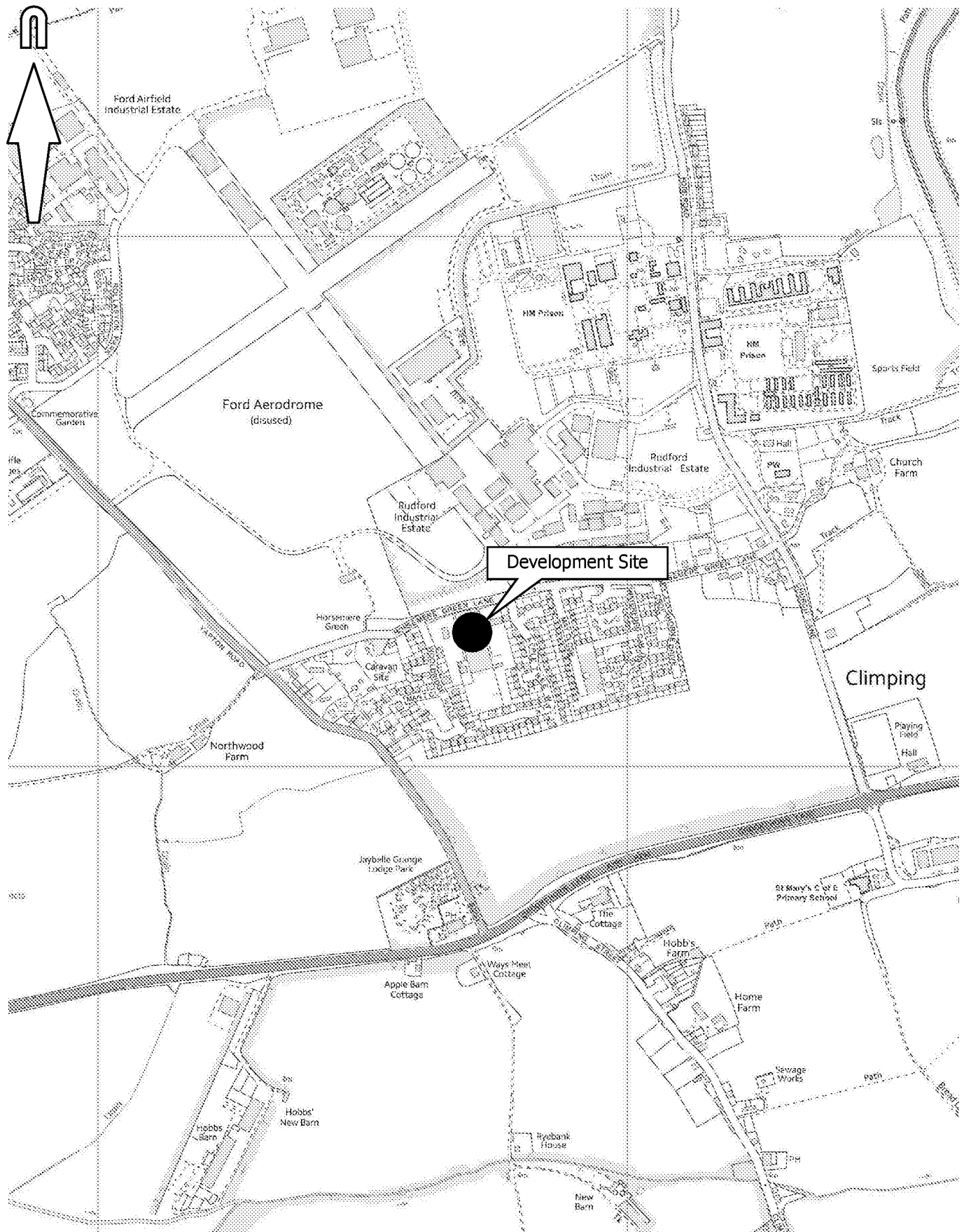
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Site in Relation to the Regional Highway Network

Scale 1:50 000

Figure 1.1



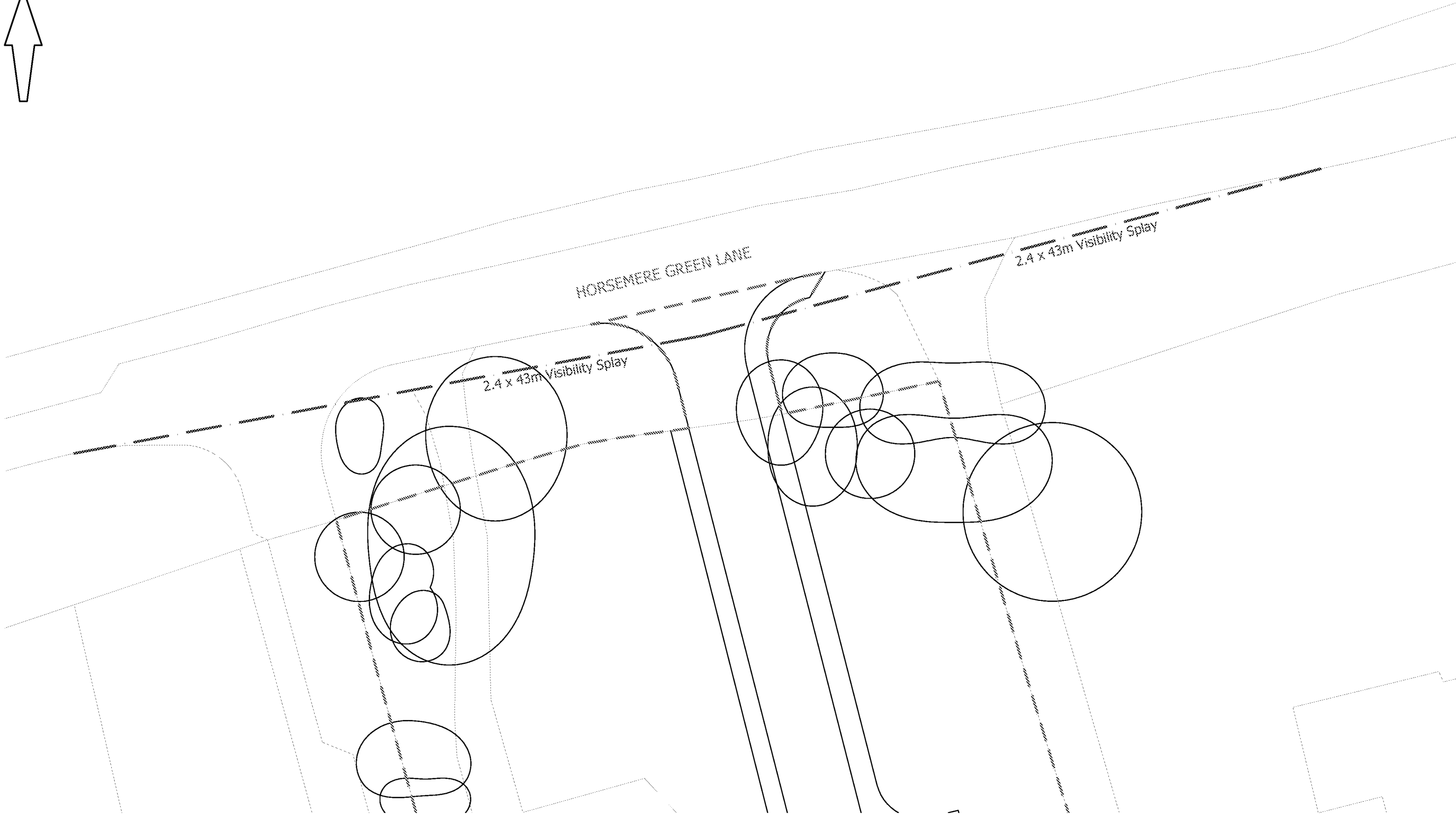
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Site in Relation to the Local Highway Network

Scale 1:10 000

Figure 1.2



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client
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title
VISIBILITY SPLAYS AT ACCESS

scale 1:250 @ A3 drawn by JME checked by BC

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FIGURE 1.3



4.312

0.007

0.906

2.503

Medium Sized Car

Overall Length4.319m

Overall Width1.686m

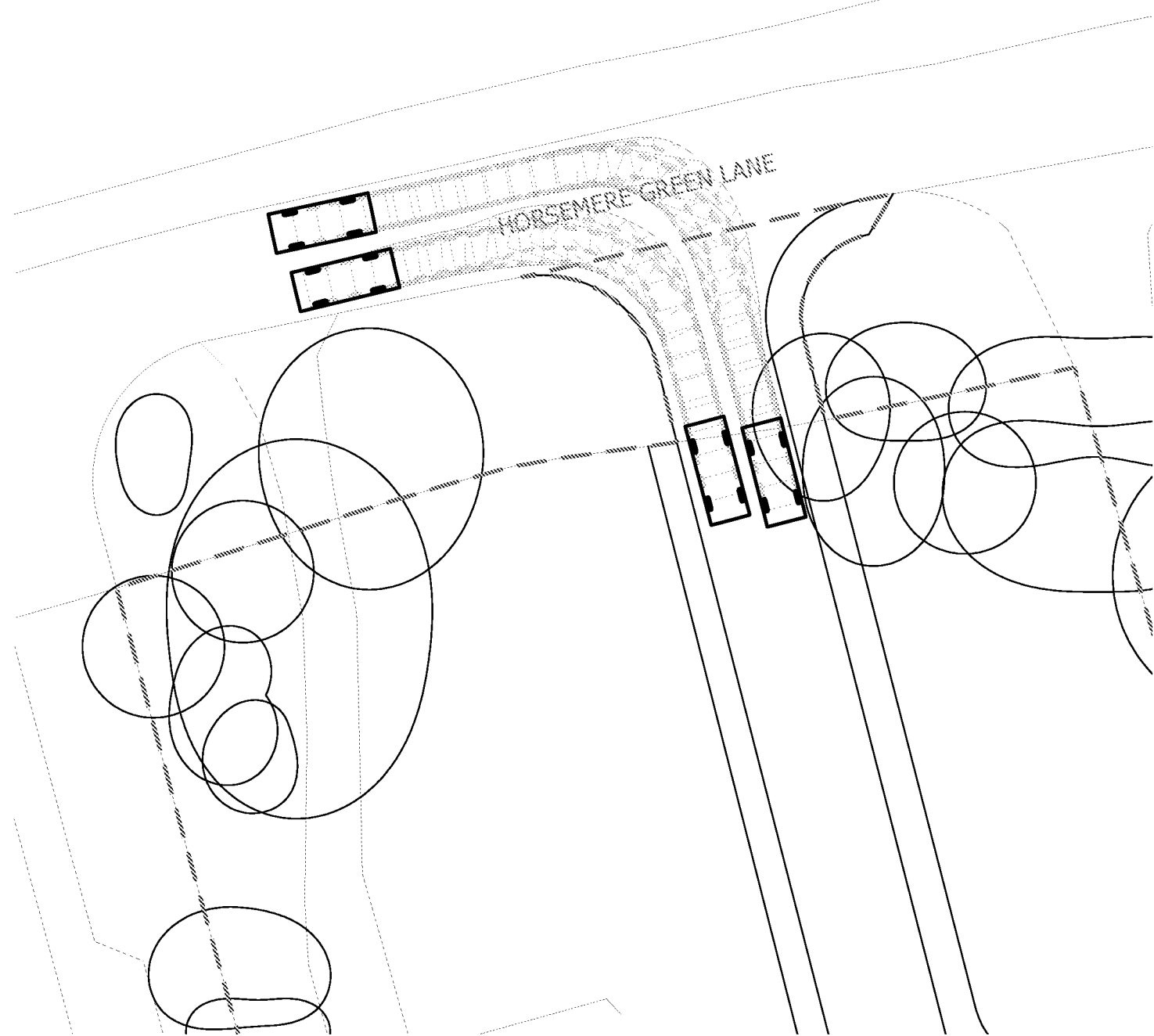
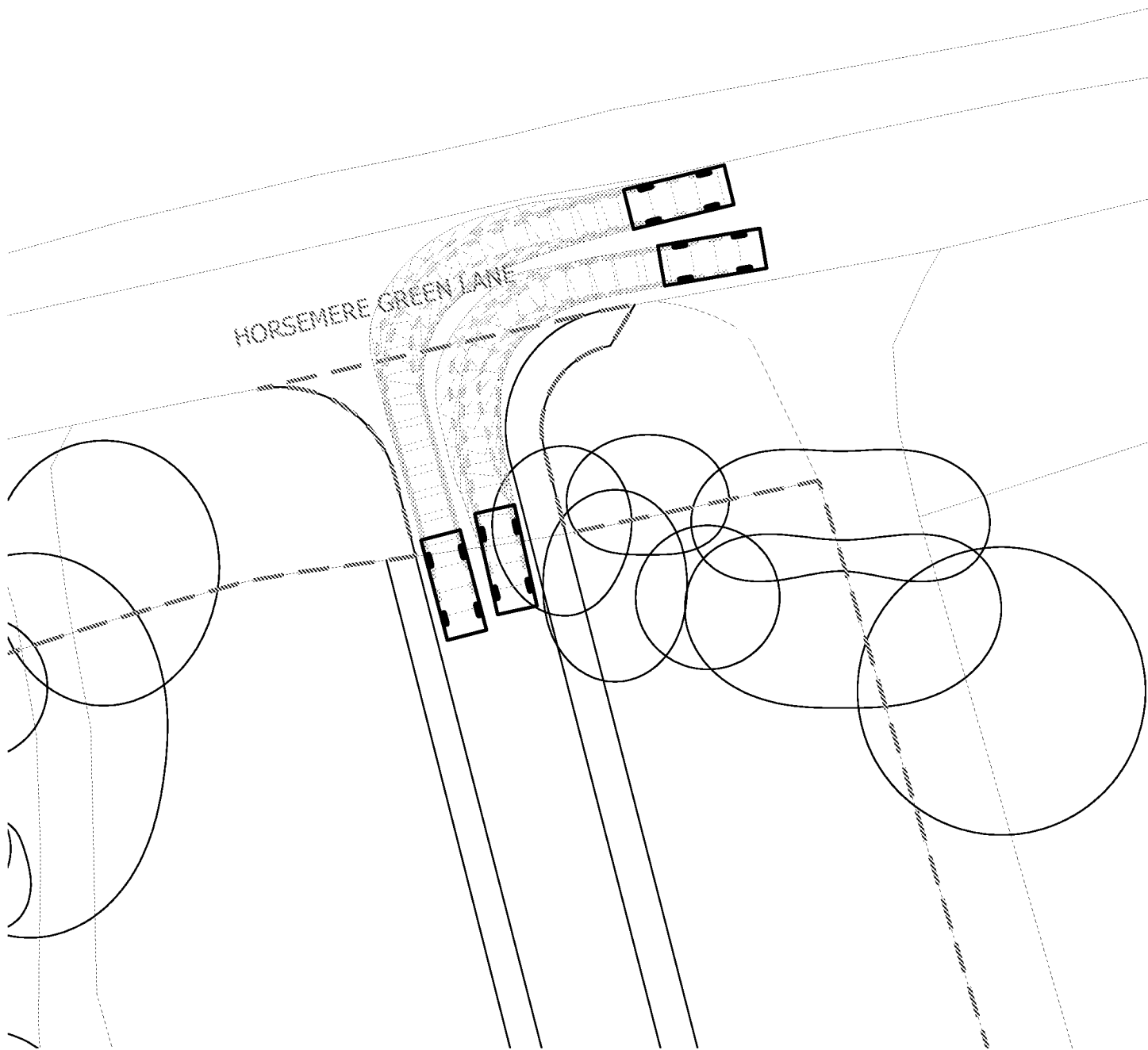
Overall Body Height1.466m

Min Body Ground Clearance0.228m

Max Track Width1.591m

Lock to lock time4.00s

Kerb to Kerb Turning Radius5.042m



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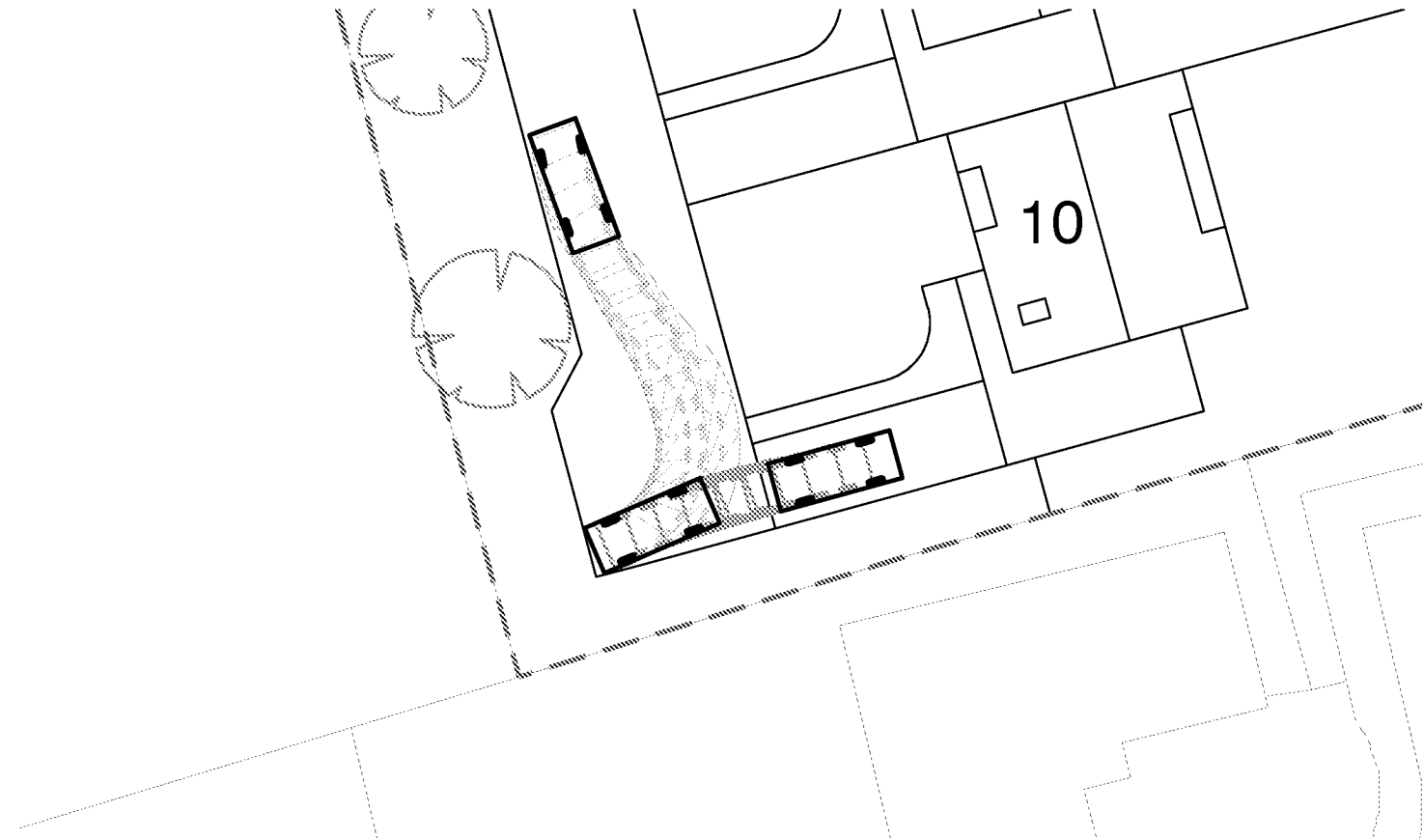
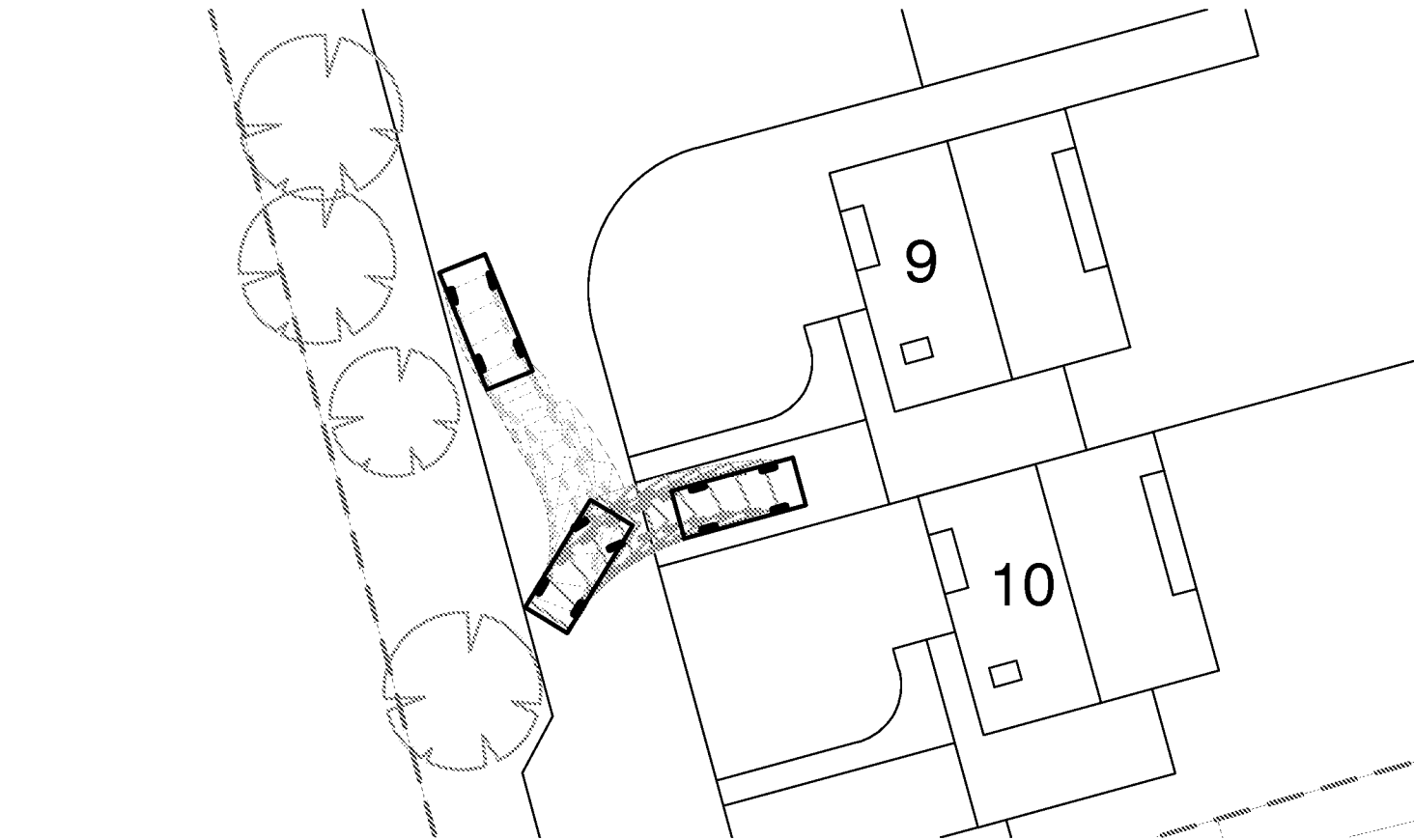
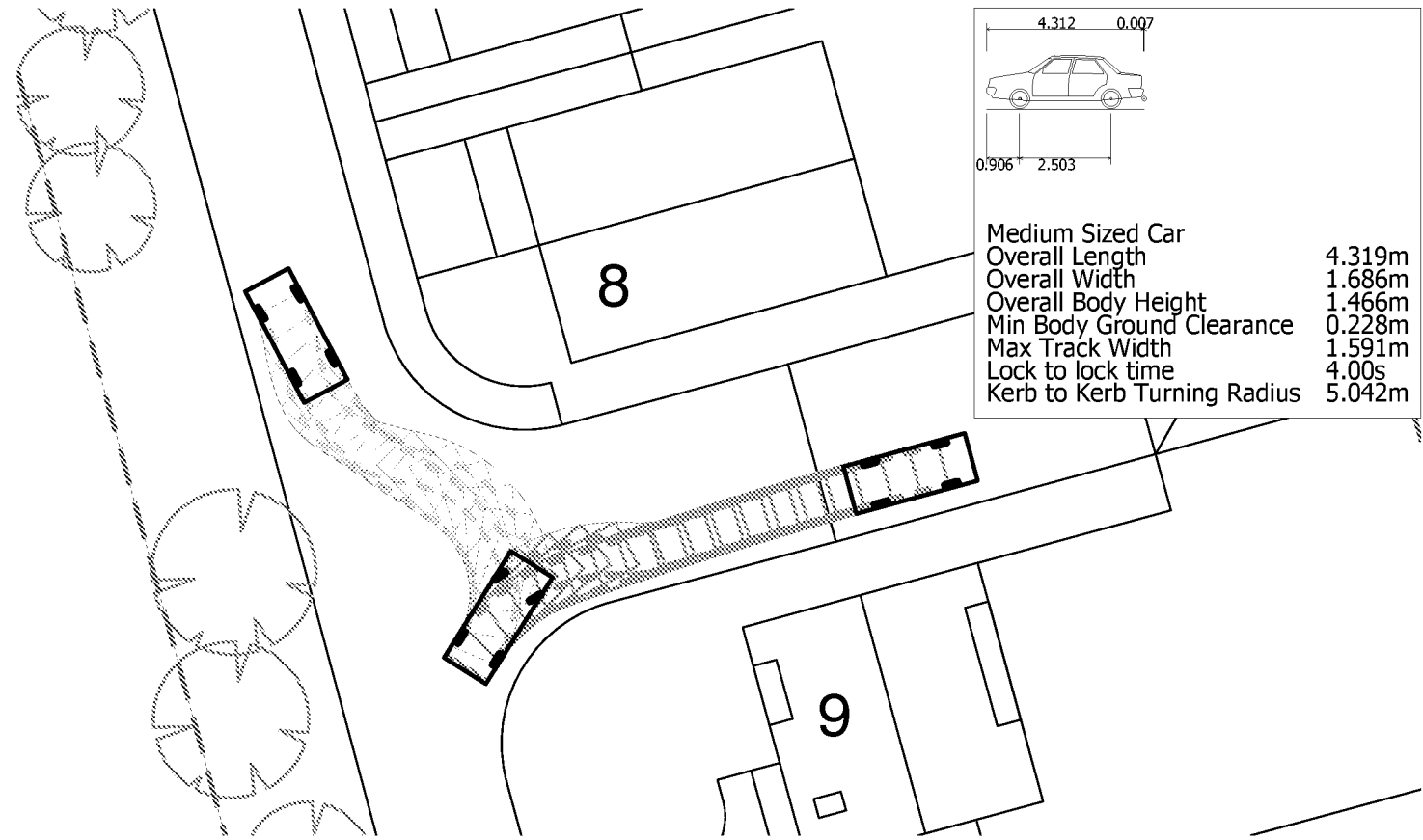
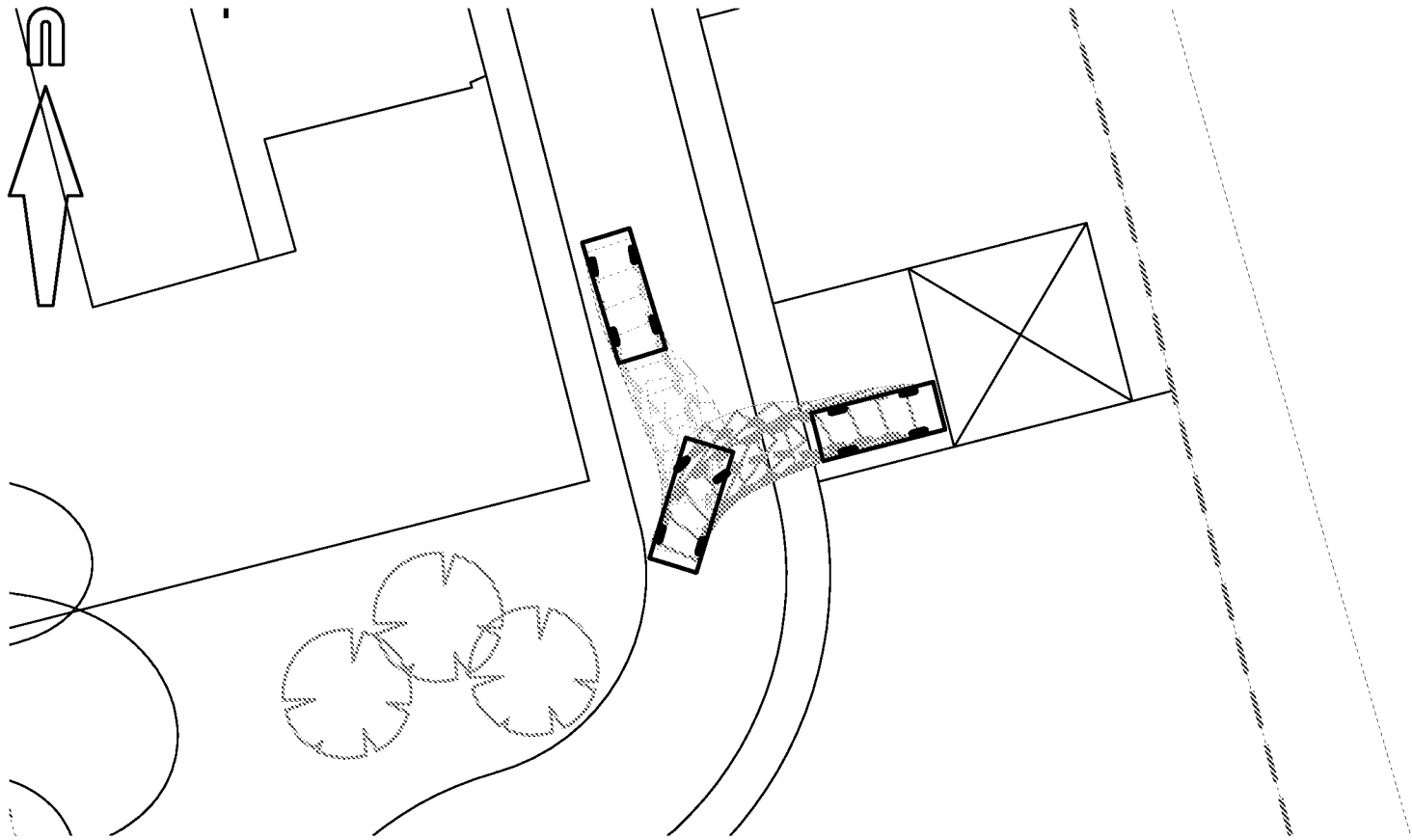
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SWEPT PATH ANALYSIS
CARS PASSING AT PASSING AREAS

scale 1:250 @ A3 drawn by JME checked by BC

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drawing number rev.

FIGURE 1.4



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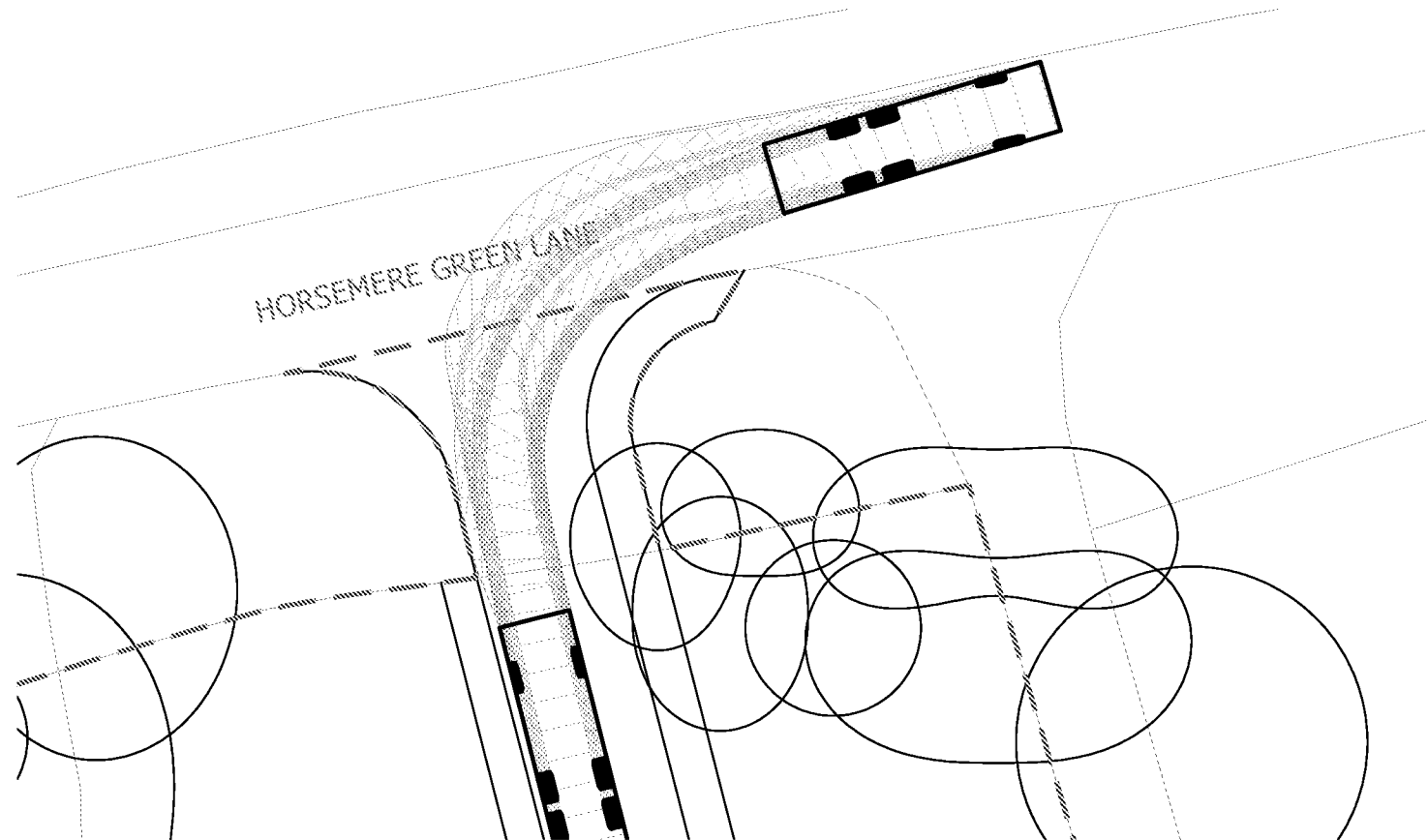
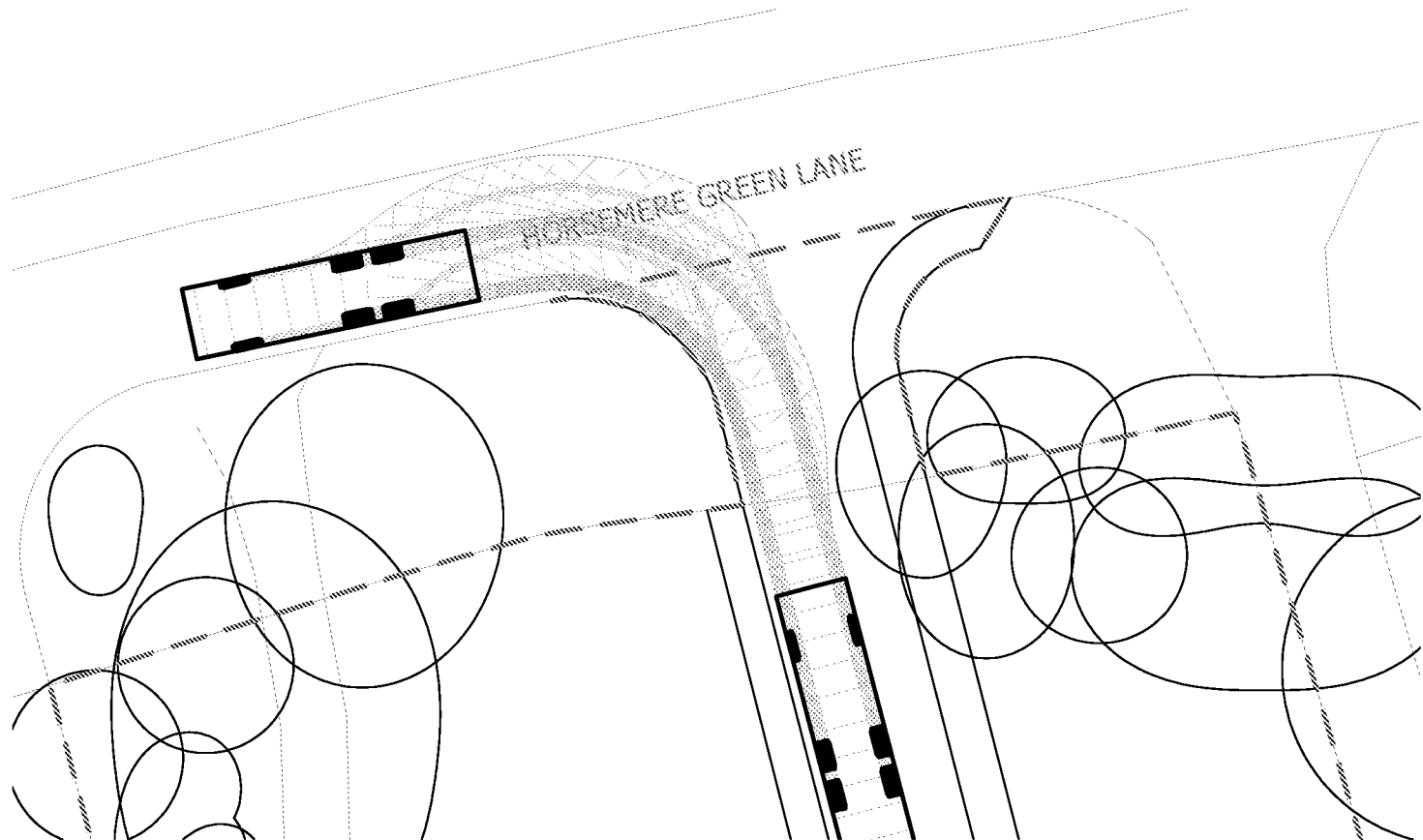
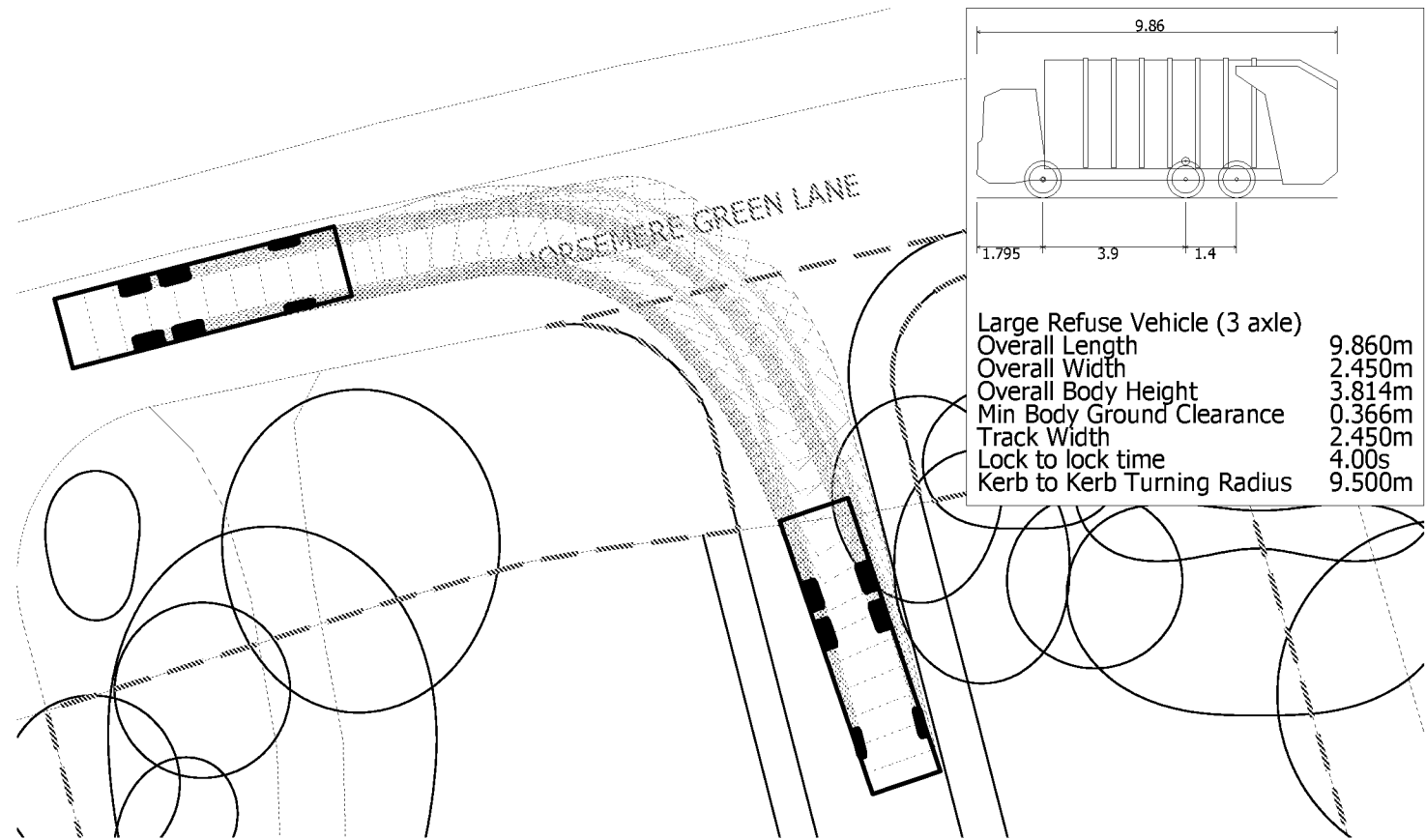
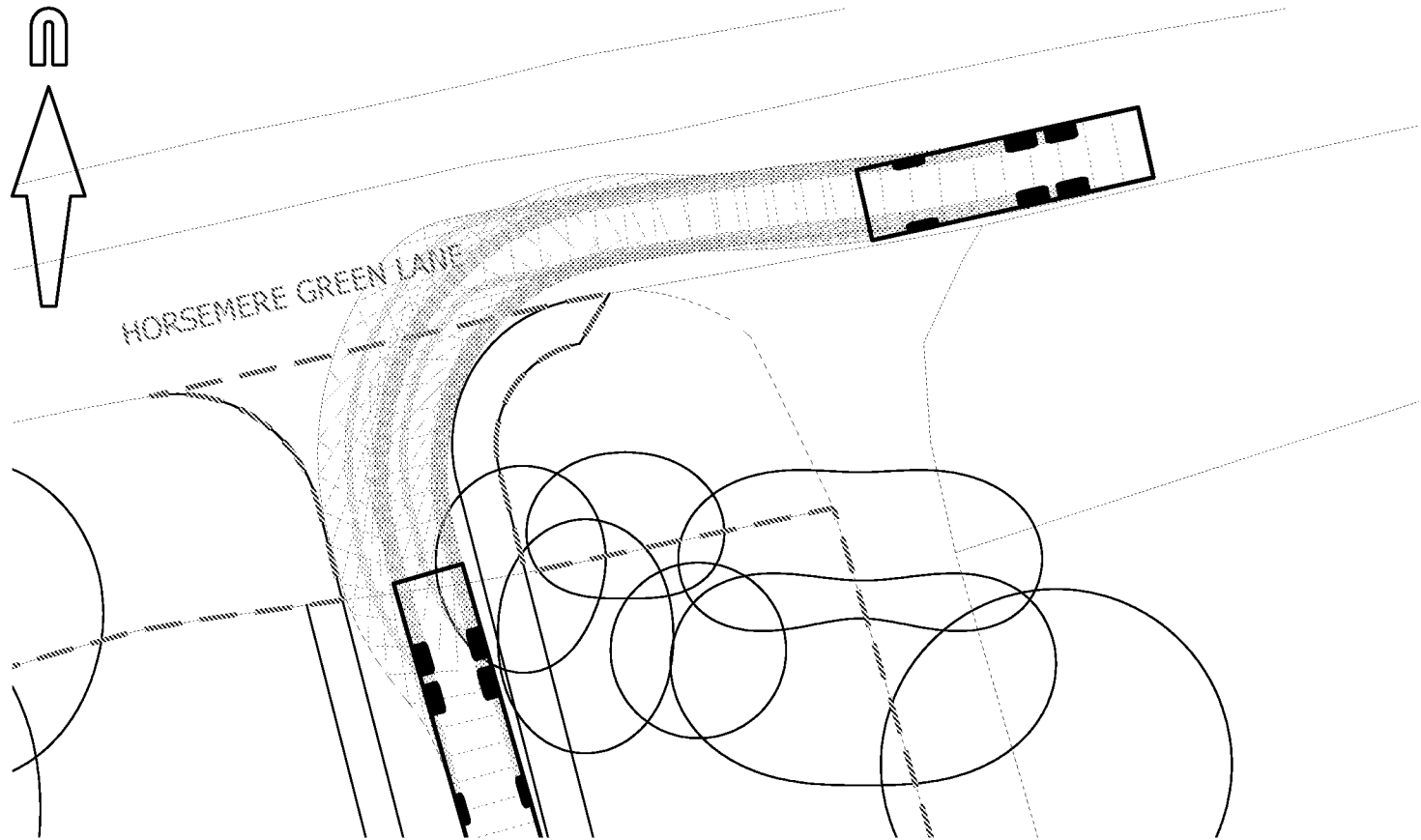
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title

SWEPT PATH ANALYSIS
CAR USING A SELECTION OF BAYS

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drawing number	FIGURE 1.5				rev.



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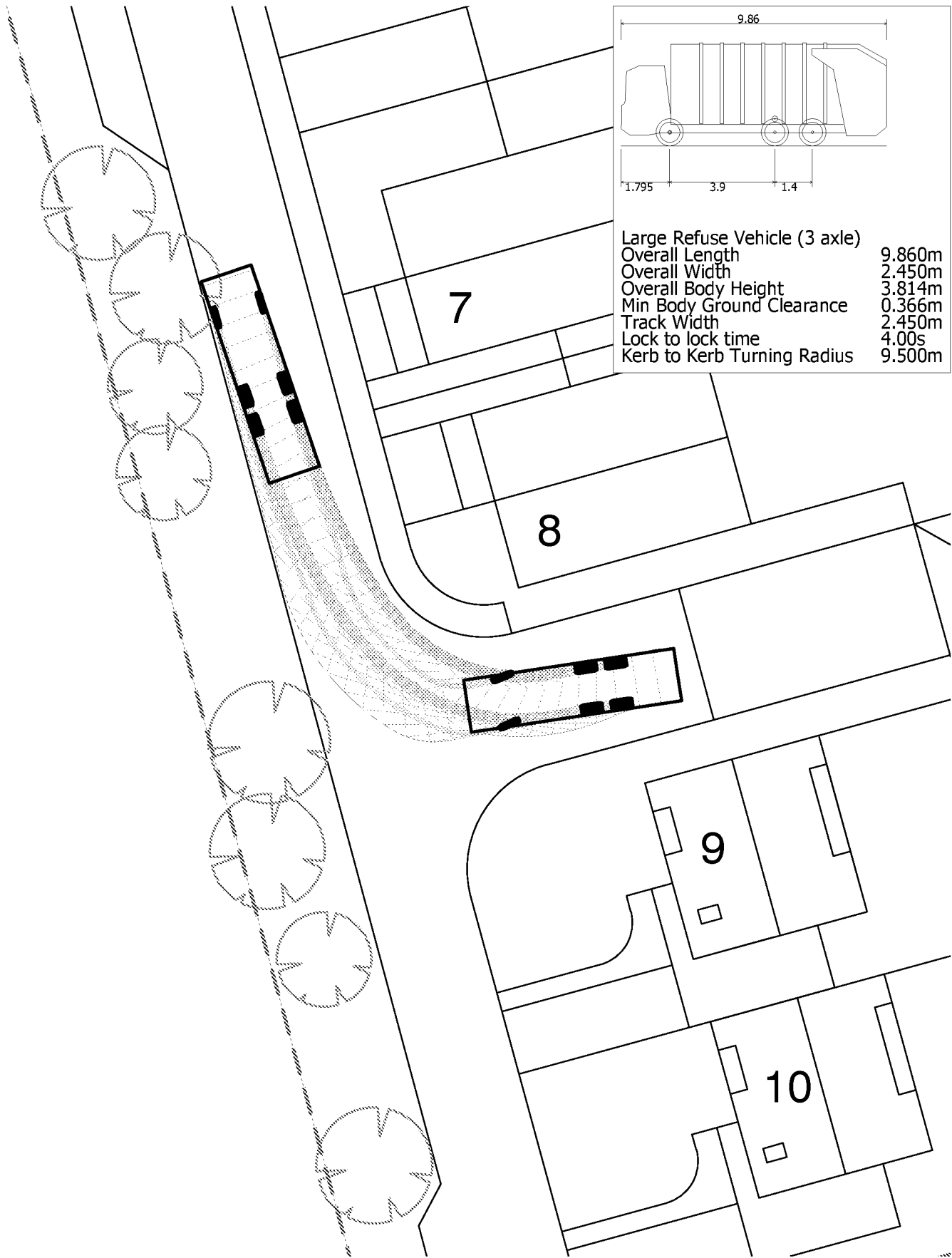
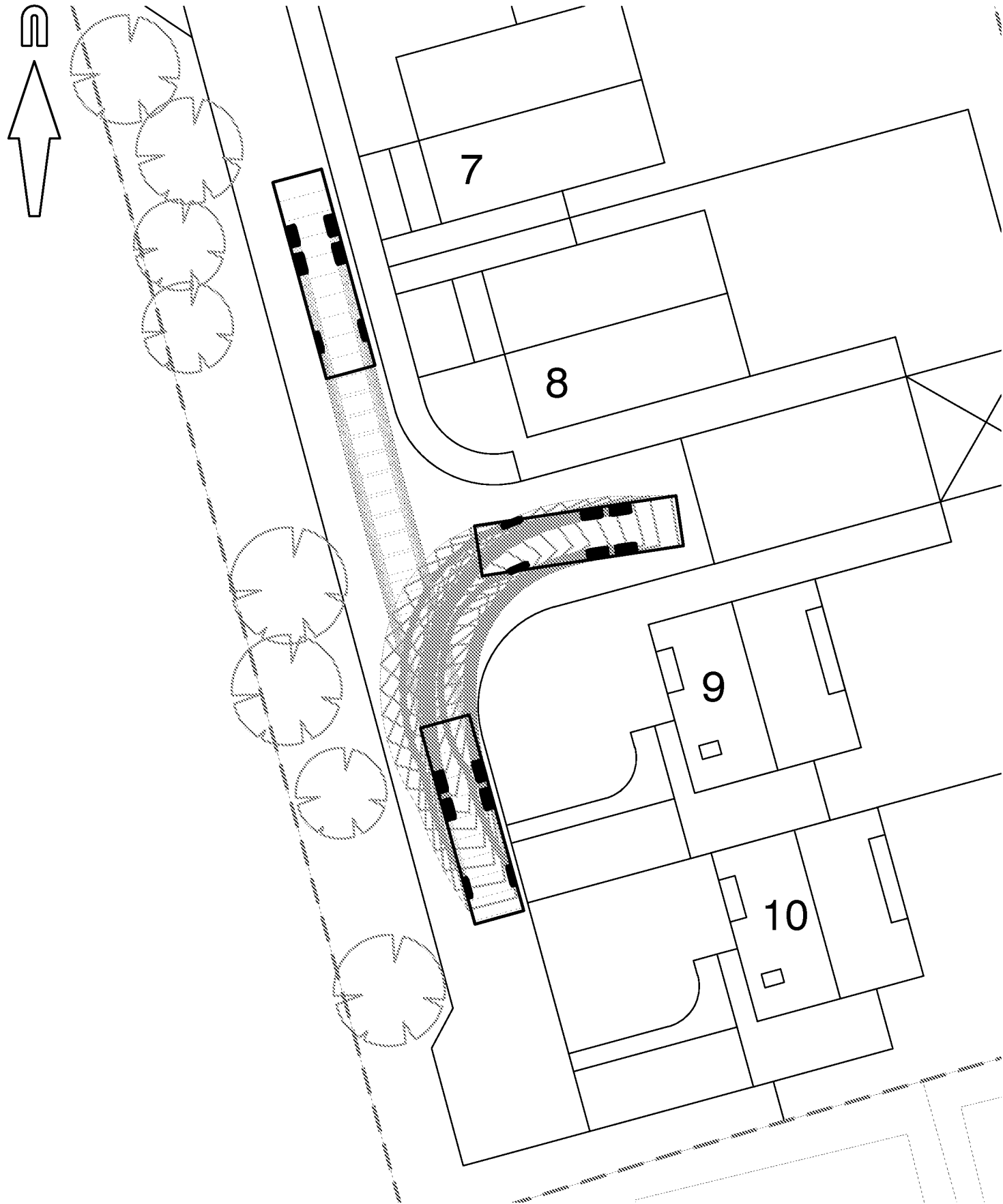
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SWEPT PATH ANALYSIS
LARGE REFUSE VEHICLE ENTERING/EXITING SITE

scale 1:250 @ A3 drawn by JME checked by BC

date AUGUST 2018 cad file FIGURES.DWG

drawing number rev.

FIGURE 1.6



Large Refuse Vehicle (3 axle)	9.860m
Overall Length	2.450m
Overall Width	3.814m
Overall Body Height	0.366m
Min Body Ground Clearance	2.450m
Track Width	4.00s
Lock to lock time	9.500m
Kerb to Kerb Turning Radius	

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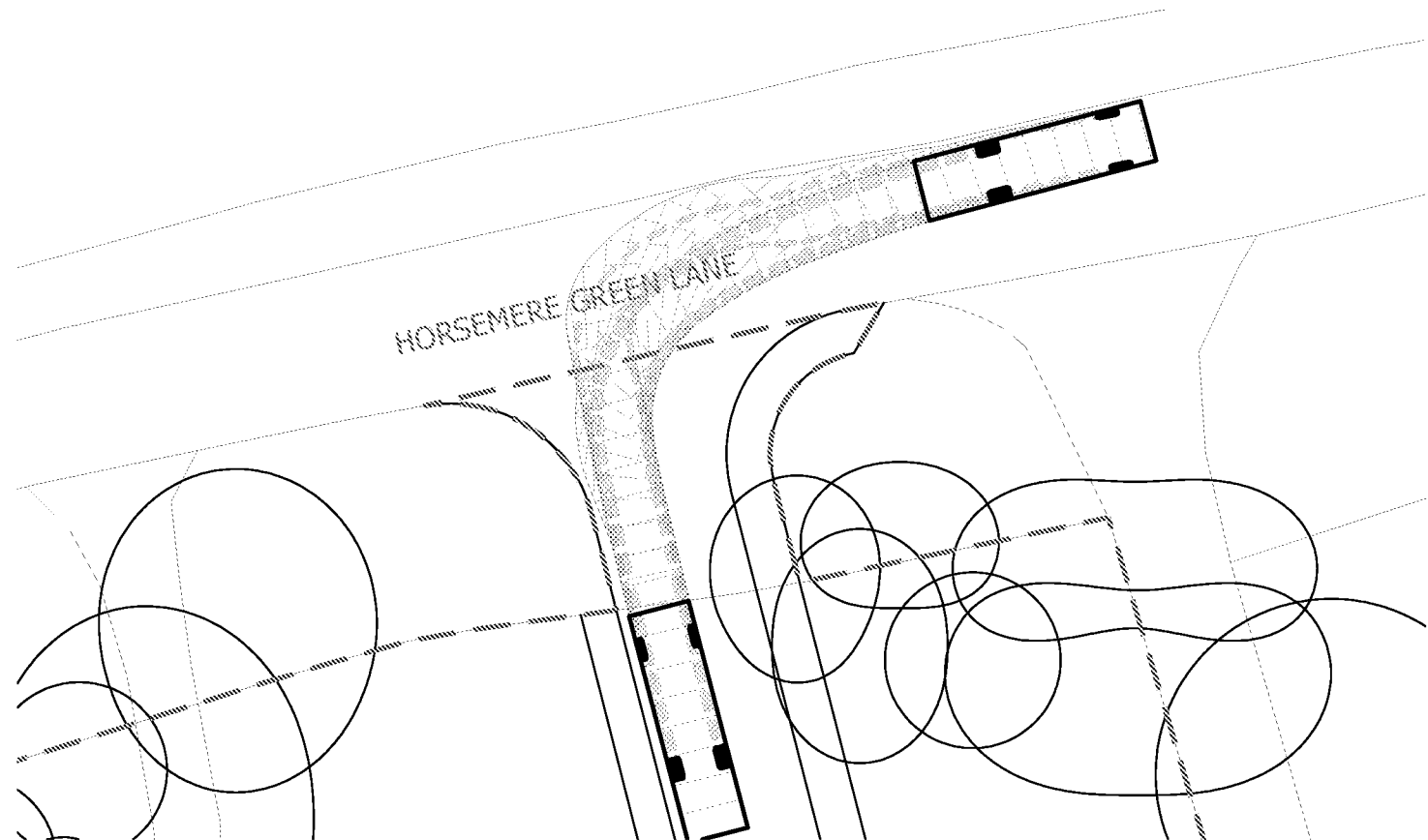
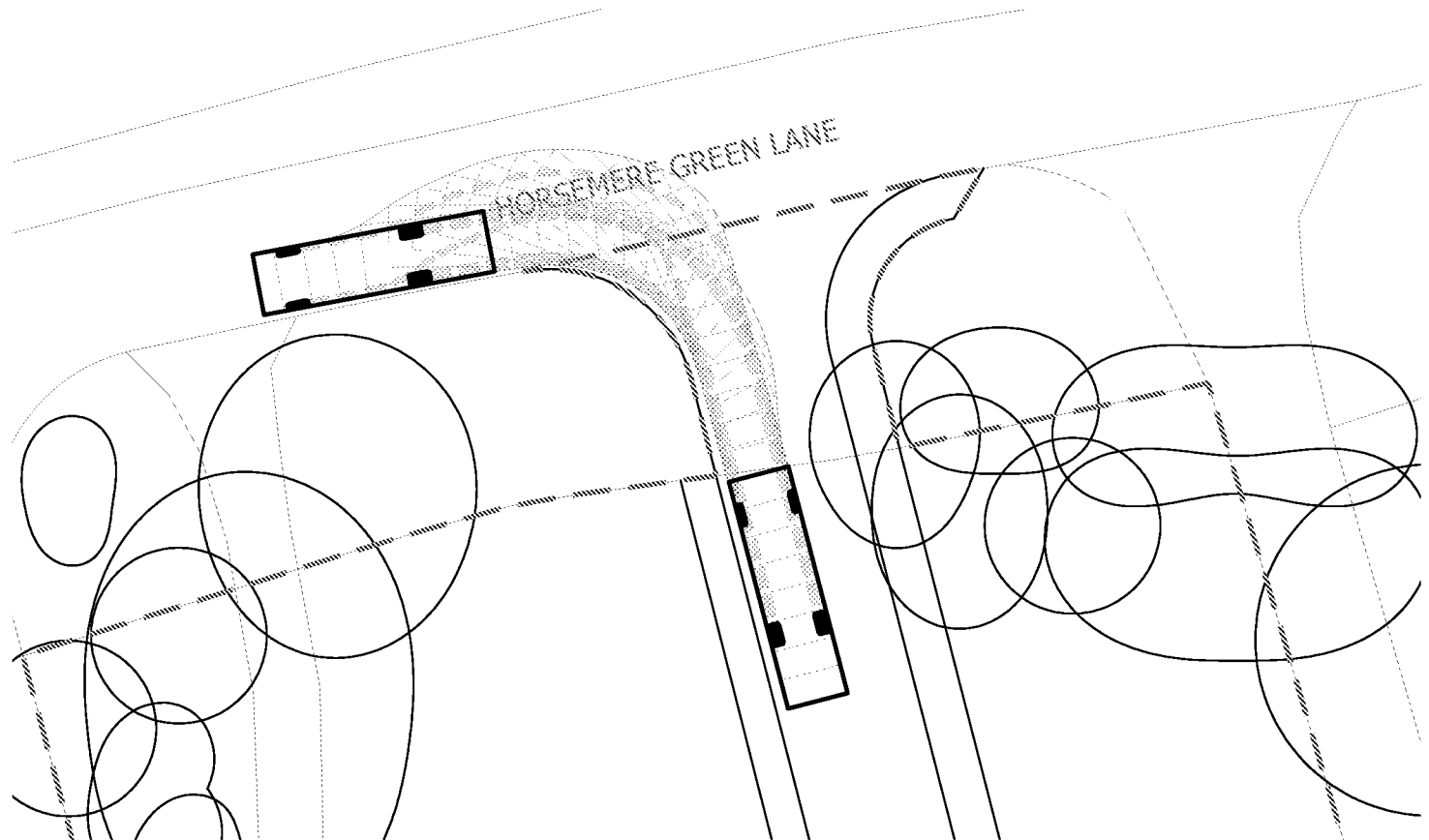
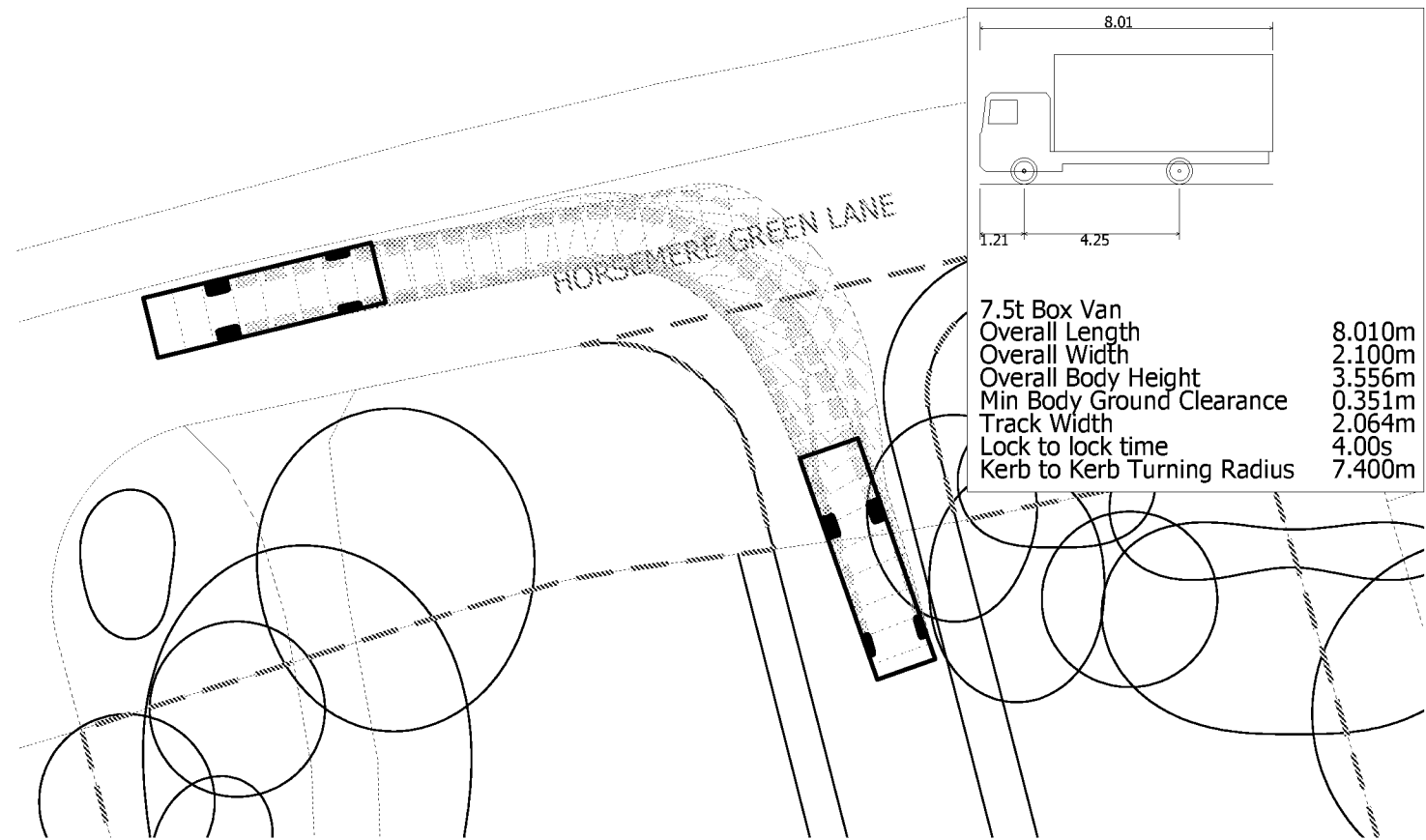
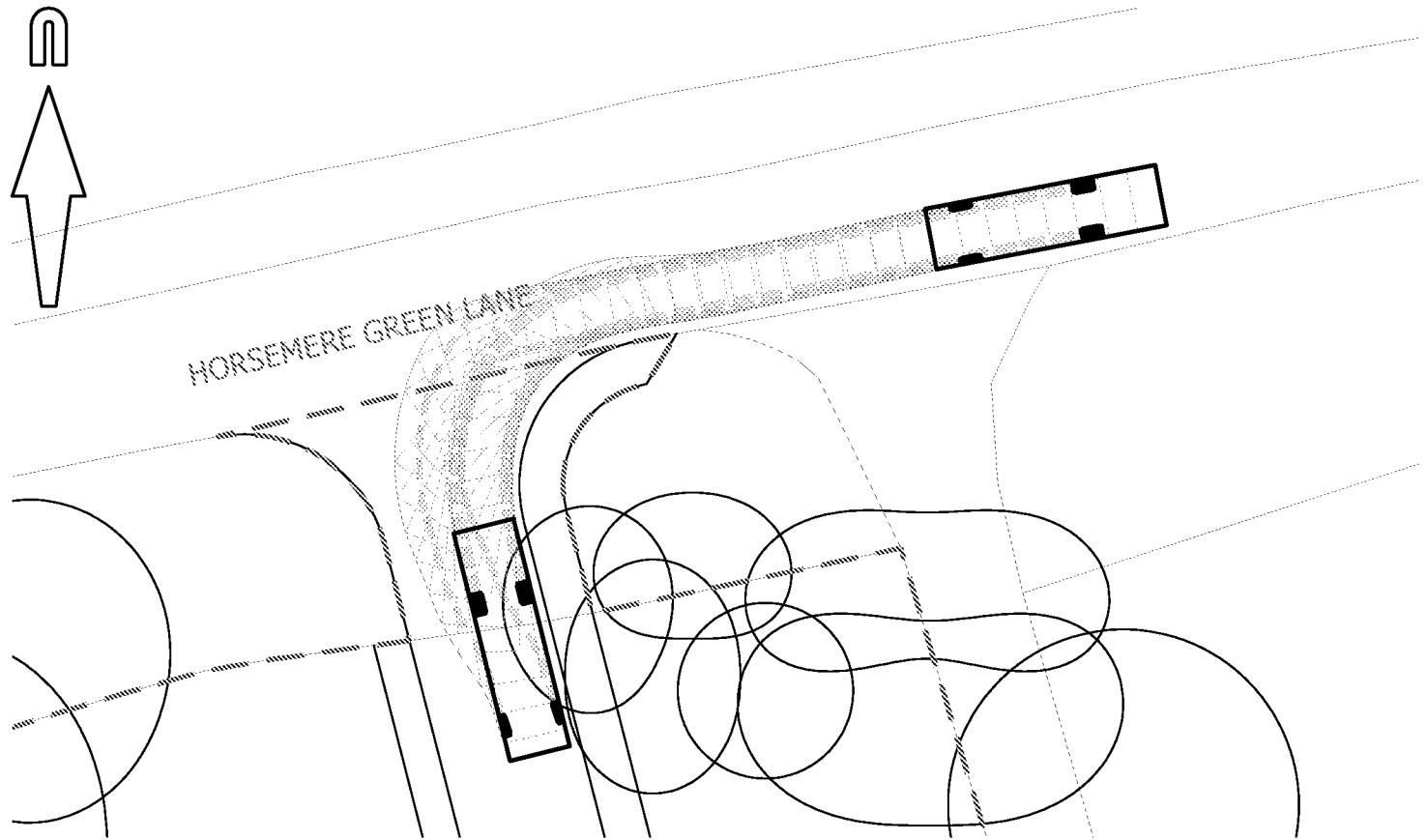
SWEPT PATH ANALYSIS
LARGE REFUSE VEHICLE TURNING ON SITE

scale 1:250 @ A3 drawn by JME checked by BC

date AUGUST 2018 cad file FIGURES.DWG

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FIGURE 1.7



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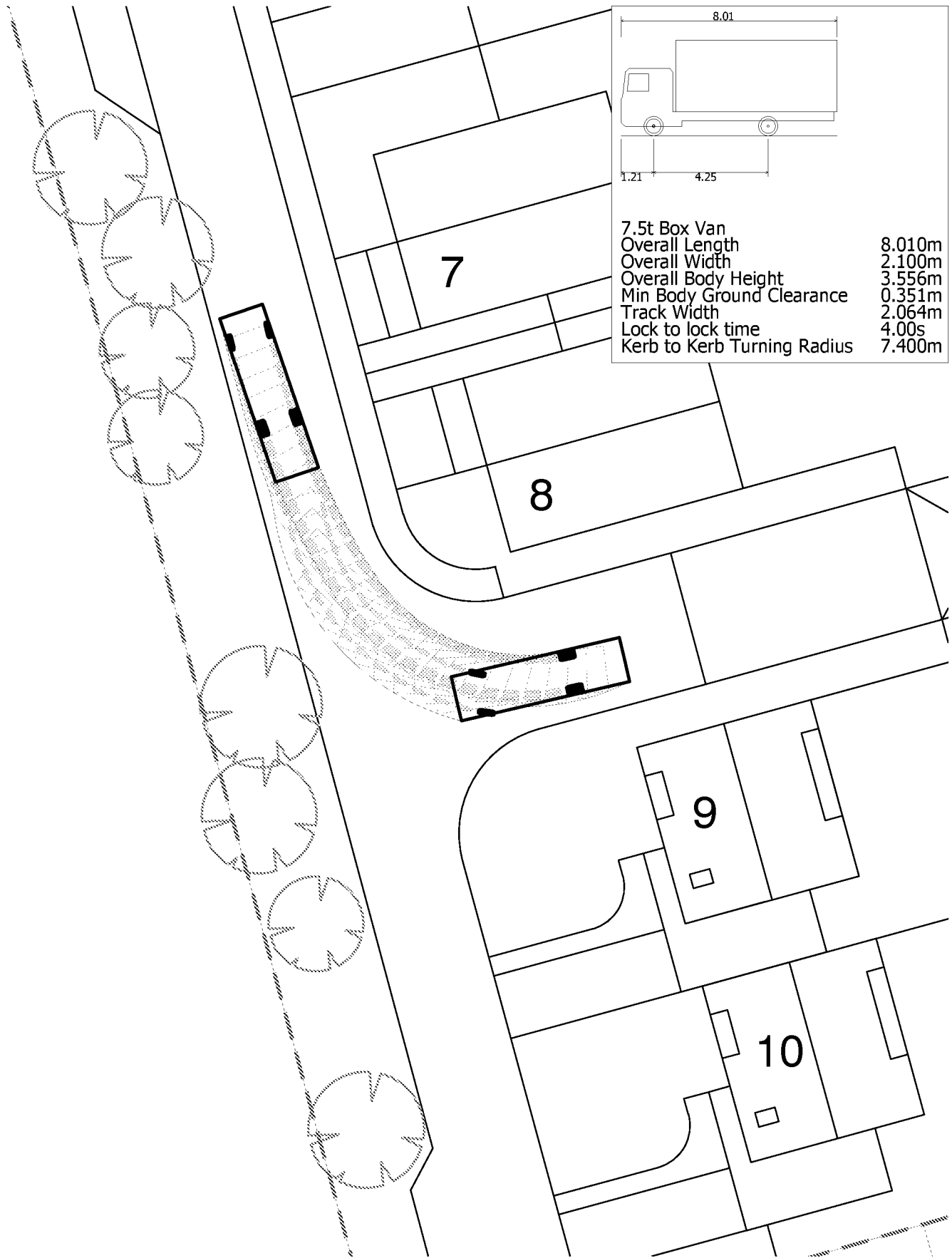
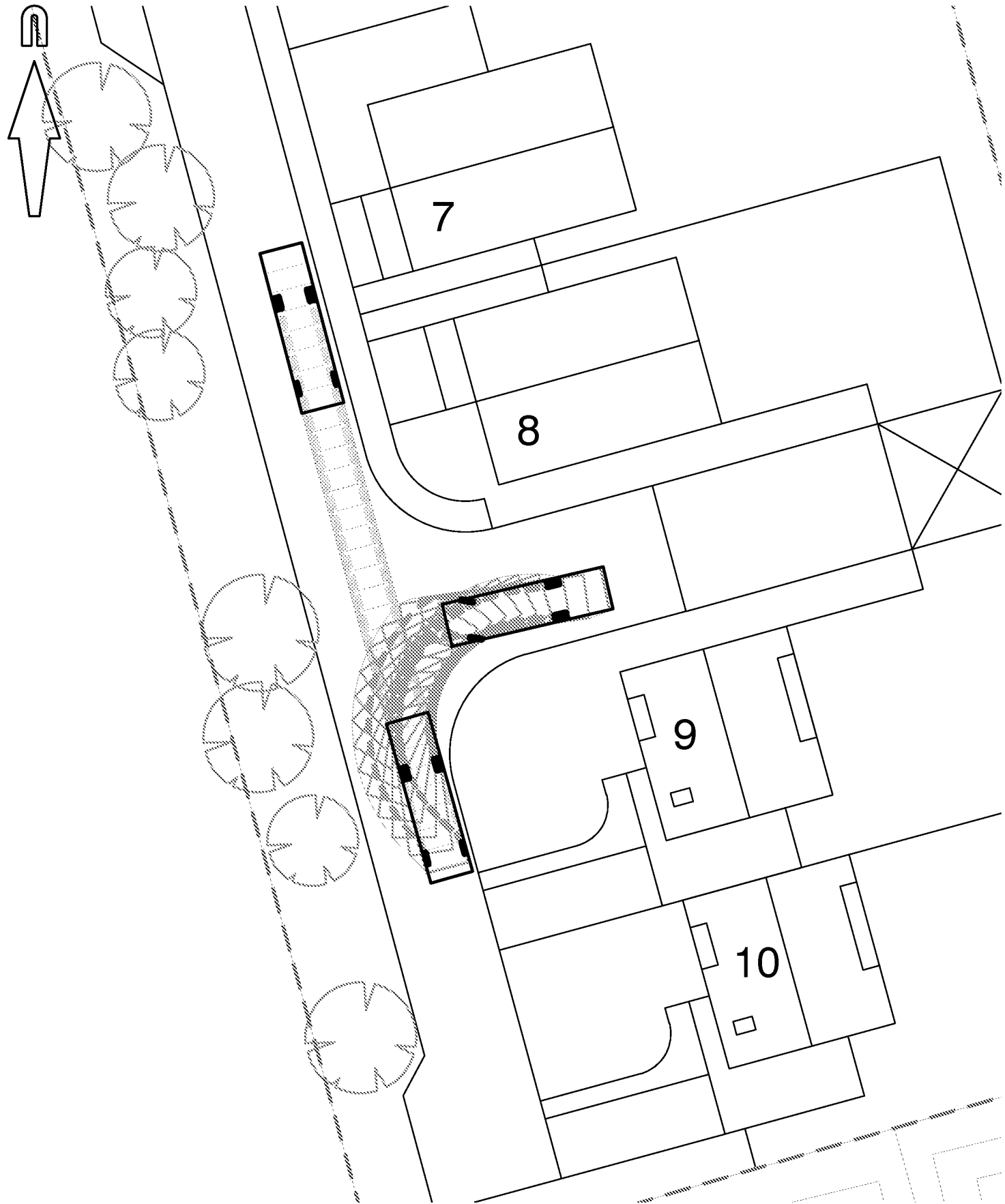
title
SWEPT PATH ANALYSIS
7.5t BOX VAN ENTERING/EXITING SITE

scale 1:250 @ A3 drawn by JME checked by BC

date AUGUST 2018 cad file FIGURES.DWG

drawing number rev.

FIGURE 1.8



8.01

1.214.25

7.5t Box Van

Overall Length8.010m

Overall Width2.100m

Overall Body Height3.556m

Min Body Ground Clearance0.351m

Track Width2.064m

Lock to lock time4.00s

Kerb to Kerb Turning Radius7.400m

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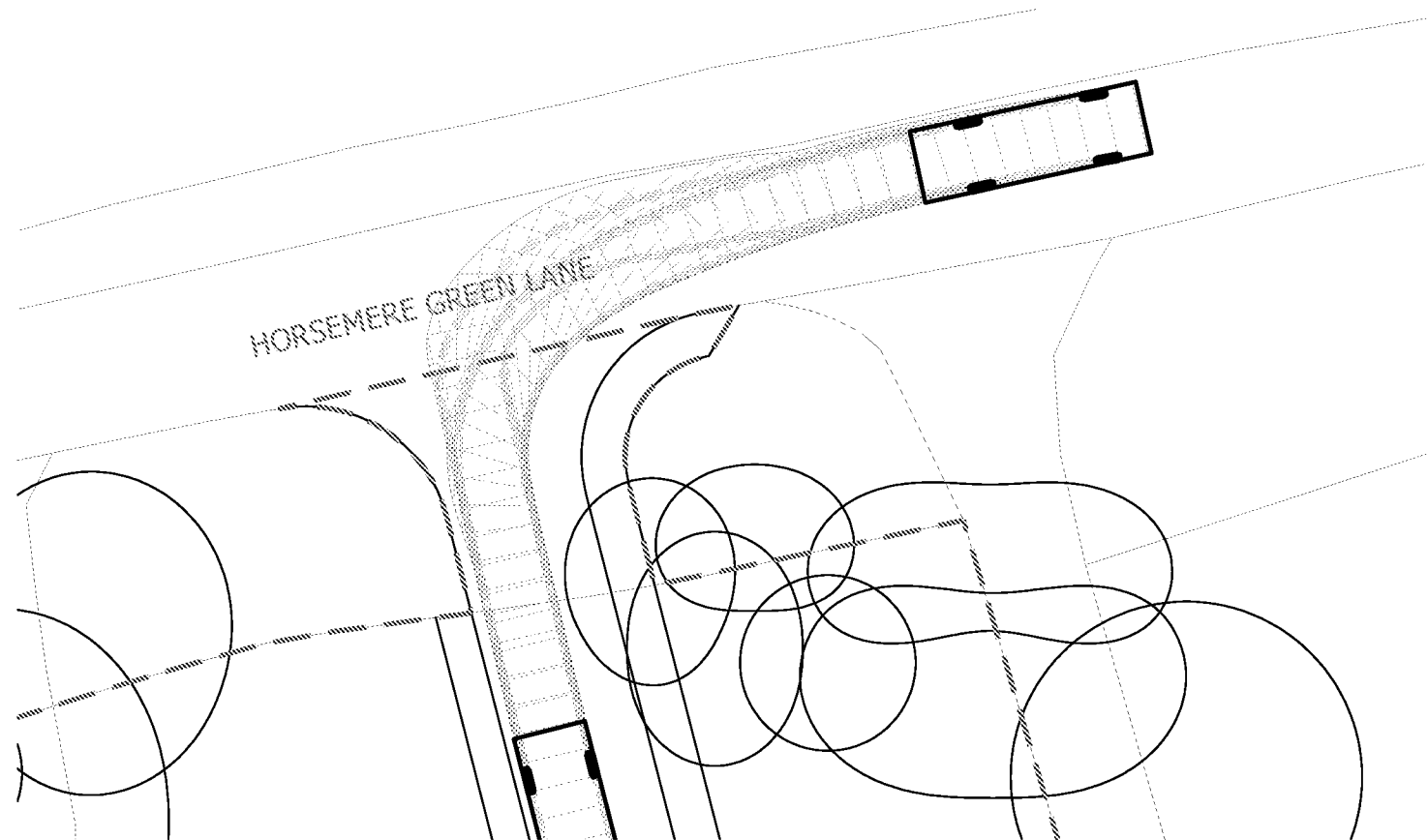
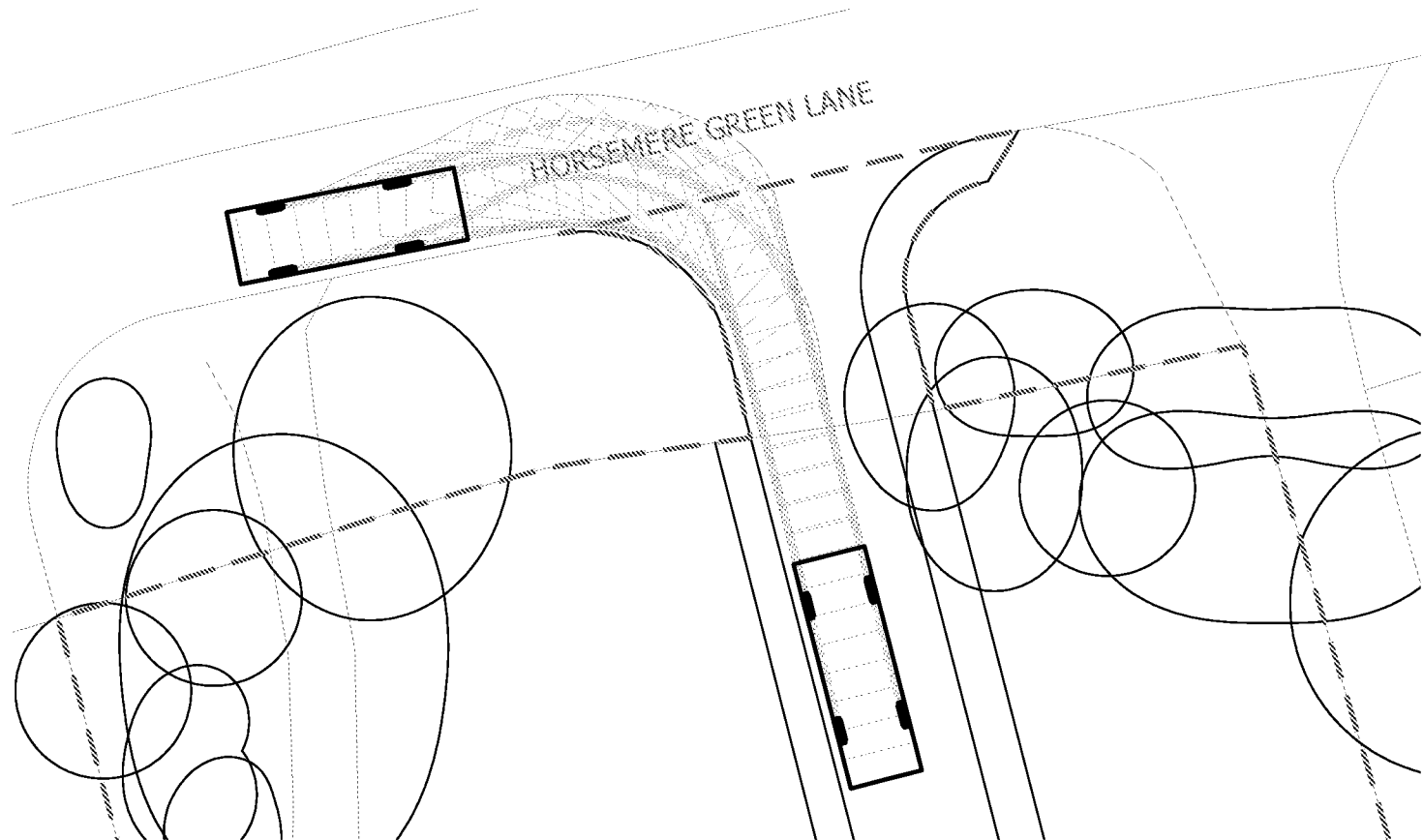
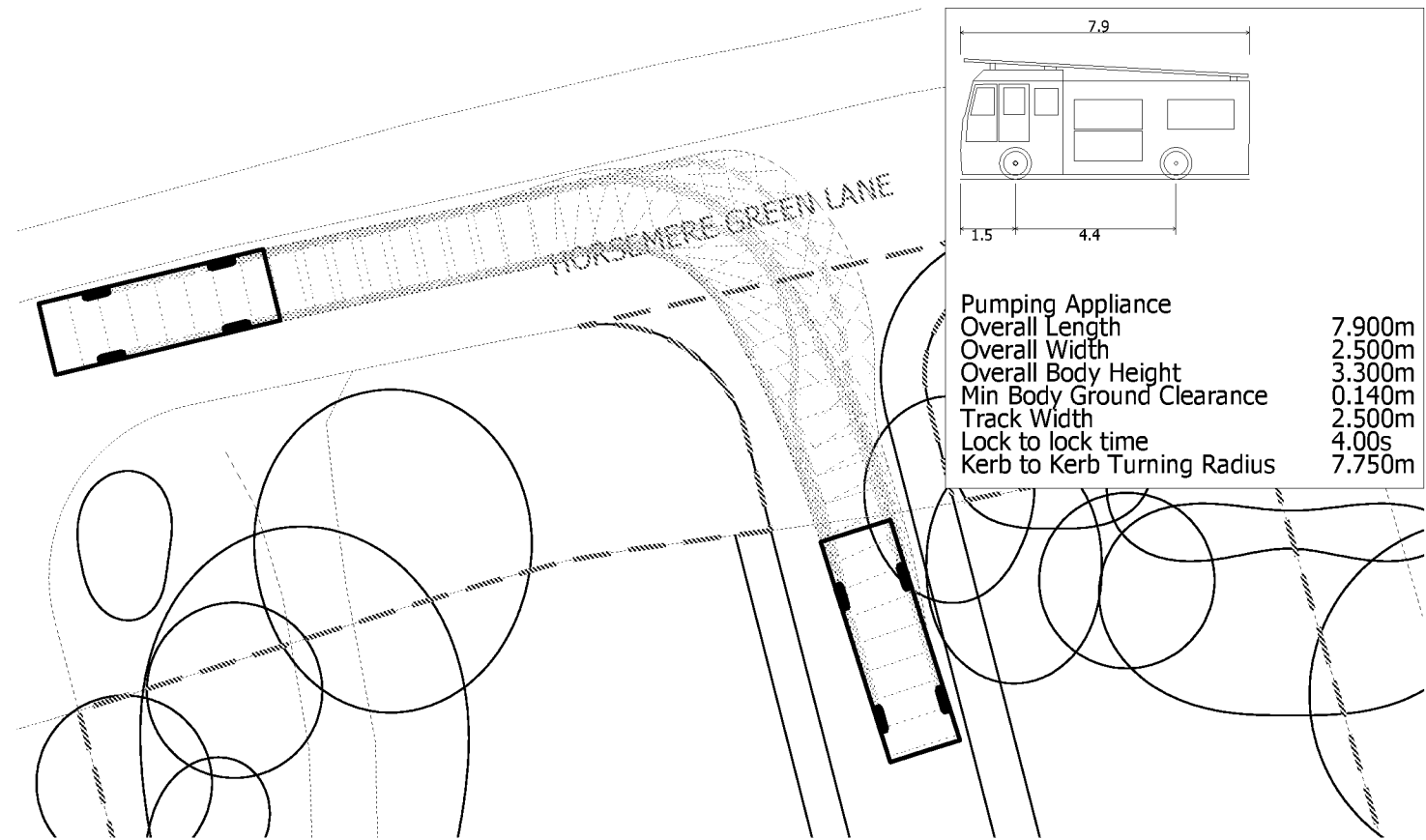
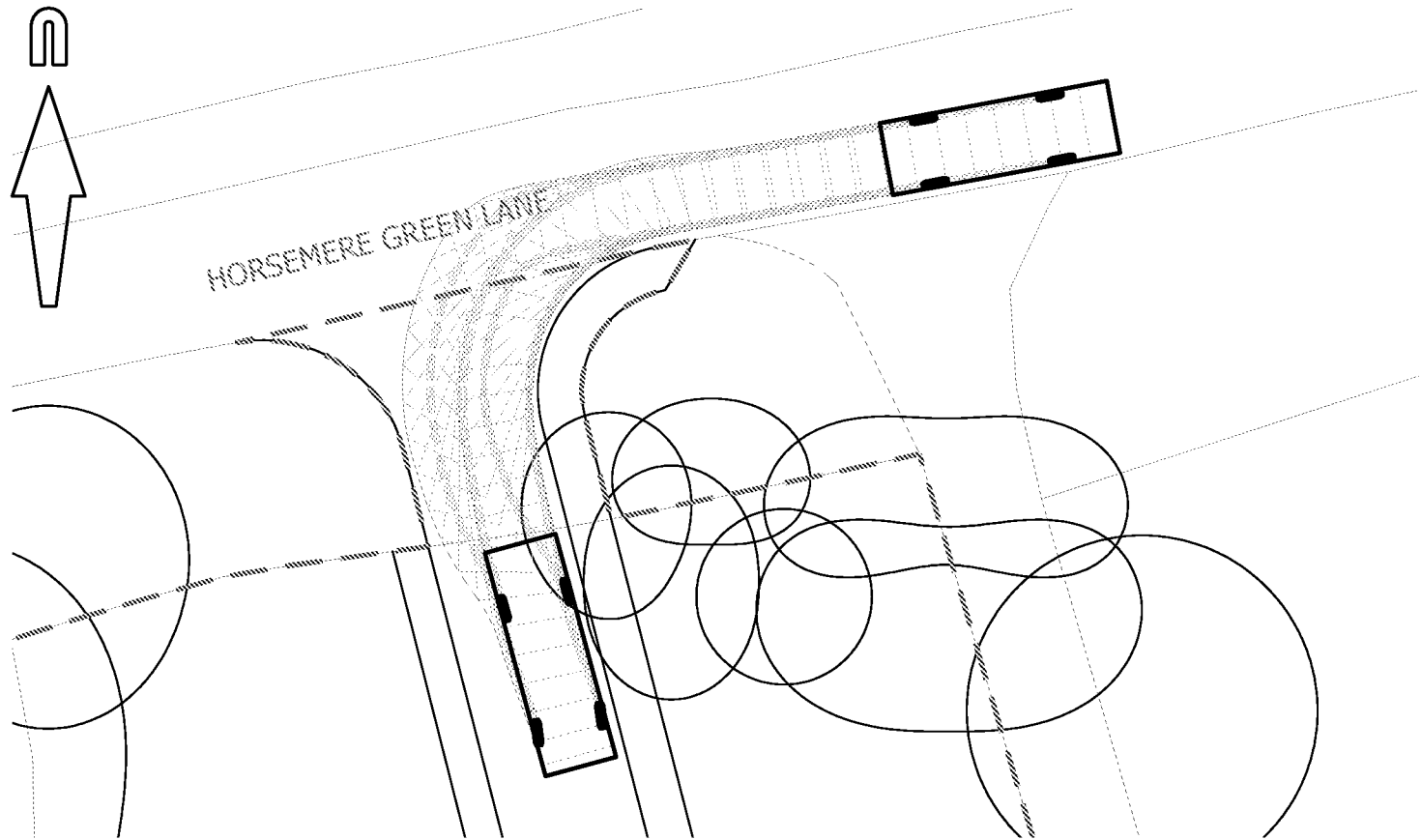
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SWEPT PATH ANALYSIS
7.5t BOX VAN TURNING ON SITE

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FIGURE 1.9



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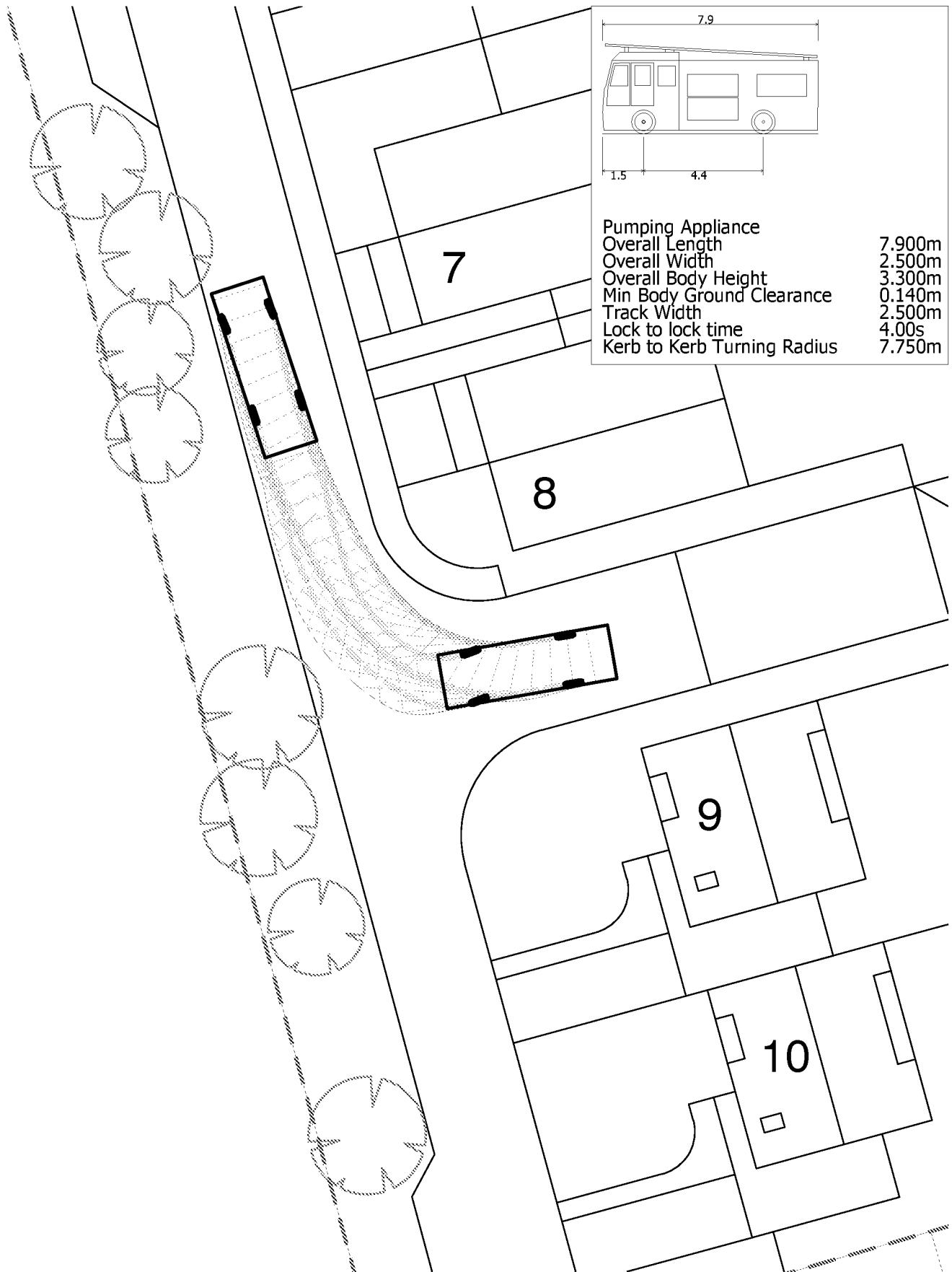
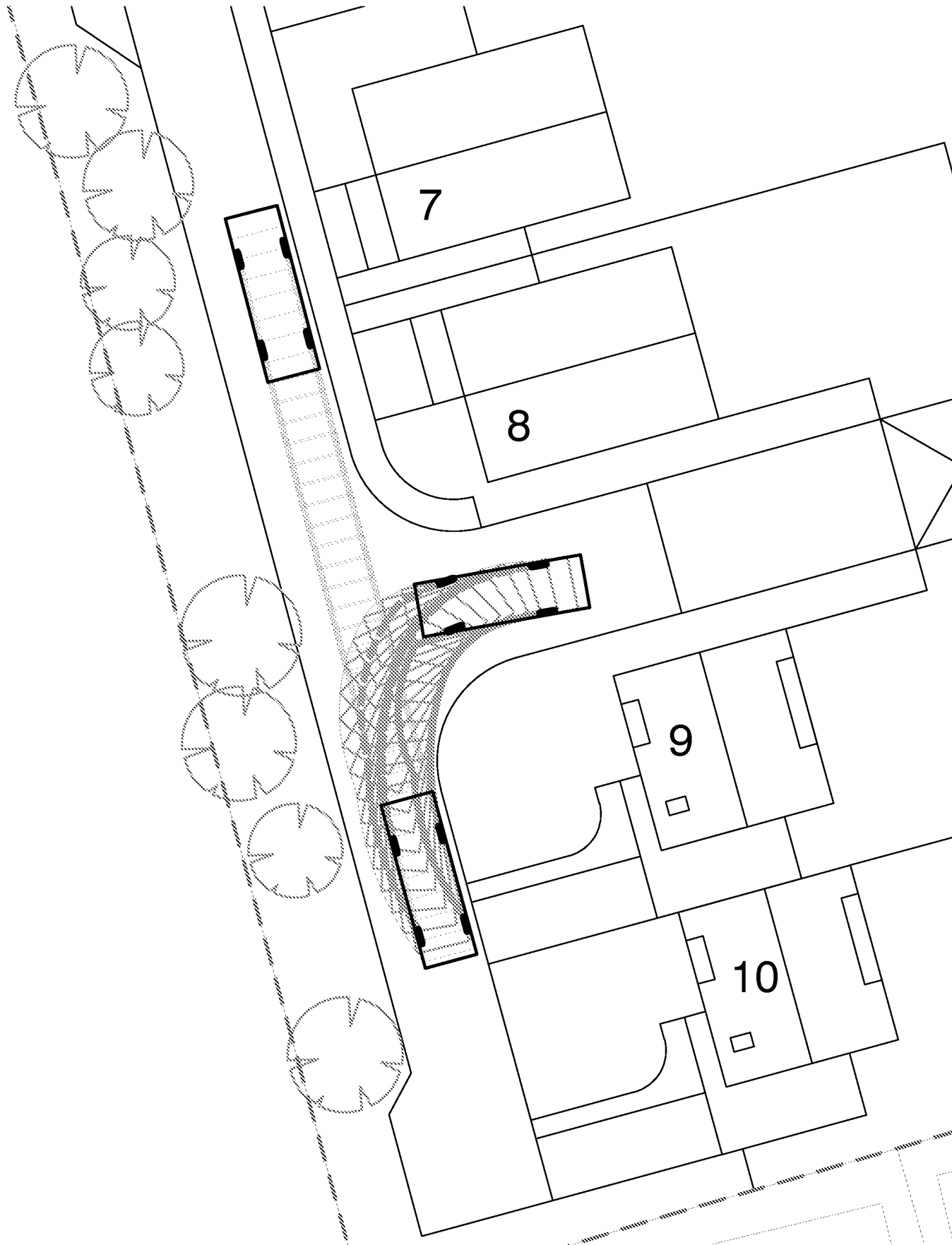
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SWEPT PATH ANALYSIS
PUMPING APPLIANCE ENTERING/EXITING SITE

scale 1:250 @ A3 drawn by JME checked by BC

date AUGUST 2018 cad file FIGURES.DWG

drawing number rev.

FIGURE 1.10



Pumping Appliance	7.900m
Overall Length	2.500m
Overall Width	3.300m
Overall Body Height	0.140m
Min Body Ground Clearance	2.500m
Track Width	4.00s
Lock to lock time	7.750m
Kerb to Kerb Turning Radius	

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**SWEPT PATH ANALYSIS
PUMPING APPLIANCE TURNING ON SITE**

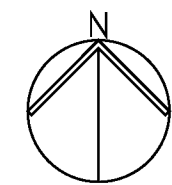
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date	AUGUST 2018	cad file	FIGURES.DWG		
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APPENDIX A: Architects Drawings

NOTES:
Dimensions to be checked on site before commencing work, any discrepancies shall be reported to Curtis Leves Technical Ltd. immediately.
Do not scale from these drawings except for planning purposes.
Use figured dimensions only.
Where applicable this drawing is to be read in conjunction with other consultative drawings.
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Physical Scale 1:1000
0 10m 20m 50m

Physical Scale 1:500
0 5m 10m 25m



CONTEXT PLAN 1:1000@A1



SITE PLAN 1:500@A1

Plot 1 - Existing Property 'Scyld' Refurbished - existing parking retained

Plots 2-5 - 4/5-Bed Detached Units - 2 parking spaces/unit + garage

Plots 6-8 - 4-Bed Detached Units - 2 parking spaces/unit + garage

Plots 9-10 - 3-Bed Link Detached Units - 1 parking space/unit + garage

5 on-site visitor parking spaces
Cycles and bins stored in garages (min. 3 x 6m)

SITE AREA 0.83 Hectares

DENSITY 12 Units per Hectare



Existing Trees to Remain



Indicative New Tree Planting

rev	description	date
status	PLANNING	



CURTIS LEVES TECHNICAL LTD

client			
Mr Jamie Orton			
project			
Scyld Horsemere Green Lane Climping			
title			
Context Plan and Site Plan			
date	scale @ A1	drawn	chld
Aug 2018	as shown	MRL	GBC
project no.	drawing no.	rev	
1840	101		P01

APPENDIX B: TRICS Output

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED			
Site Name:	Scyld, Sussex		
Calculation Factor:	1	Dwellings	
Number of Dwellings:	9	Dwellings	

Development Scenario:	Proposed Residential		
Trip Rate for:	VEHICLES		

Time Range	ARRIVALS			DEPARTURES			TOTALS			TRIPS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	Arr.	Dep.
	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate		
00:00-01:00										0	0
01:00-02:00										0	0
02:00-03:00										0	0
03:00-04:00										0	0
04:00-05:00										0	0
05:00-06:00										0	0
06:00-07:00										0	0
07:00-08:00	7	175	0.095	7	175	0.366	7	175	0.461	1	3
08:00-09:00	7	175	0.151	7	175	0.426	7	175	0.577	1	4
09:00-10:00	7	175	0.161	7	175	0.186	7	175	0.347	1	2
10:00-11:00	7	175	0.121	7	175	0.151	7	175	0.272	1	1
11:00-12:00	7	175	0.149	7	175	0.162	7	175	0.311	1	1
12:00-13:00	7	175	0.148	7	175	0.157	7	175	0.305	1	1
13:00-14:00	7	175	0.167	7	175	0.162	7	175	0.329	2	1
14:00-15:00	7	175	0.144	7	175	0.187	7	175	0.331	1	2
15:00-16:00	7	175	0.264	7	175	0.187	7	175	0.451	2	2
16:00-17:00	7	175	0.273	7	175	0.158	7	175	0.431	2	1
17:00-18:00	7	175	0.357	7	175	0.161	7	175	0.518	3	1
18:00-19:00	7	175	0.329	7	175	0.17	7	175	0.499	3	2
19:00-20:00										0	0
20:00-21:00										0	0
21:00-22:00										0	0
22:00-23:00										0	0
23:00-24:00										0	0
Daily Trip Rates:			2.359			2.473			4.832	21	22

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED			
Site Name:	Scyld, Sussex		
Calculation Factor:	1	Dwellings	
Number of Dwellings:	9	Dwellings	

Development Scenario:	PROPOSED RESIDENTIAL		
Trip Rate for:	CYCLISTS		

Time Range	ARRIVALS			DEPARTURES			TOTALS			TRIPS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	Arr.	Dep.
	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate		
00:00-01:00										0	0
01:00-02:00										0	0
02:00-03:00										0	0
03:00-04:00										0	0
04:00-05:00										0	0
05:00-06:00										0	0
06:00-07:00										0	0
07:00-08:00	7	175	0.008	7	175	0.007	7	175	0.015	0	0
08:00-09:00	7	175	0.001	7	175	0.01	7	175	0.011	0	0
09:00-10:00	7	175	0.001	7	175	0.002	7	175	0.003	0	0
10:00-11:00	7	175	0.002	7	175	0.004	7	175	0.006	0	0
11:00-12:00	7	175	0.003	7	175	0.003	7	175	0.006	0	0
12:00-13:00	7	175	0.002	7	175	0.002	7	175	0.004	0	0
13:00-14:00	7	175	0.002	7	175	0.007	7	175	0.009	0	0
14:00-15:00	7	175	0.002	7	175	0.001	7	175	0.003	0	0
15:00-16:00	7	175	0.006	7	175	0.005	7	175	0.011	0	0
16:00-17:00	7	175	0.011	7	175	0.014	7	175	0.025	0	0

17:00-18:00	7	175	0.018	7	175	0.012	7	175	0.03	0	0
18:00-19:00	7	175	0.007	7	175	0.006	7	175	0.013	0	0
19:00-20:00										0	0
20:00-21:00										0	0
21:00-22:00										0	0
22:00-23:00										0	0
23:00-24:00										0	0
Daily Trip Rates:			0.063			0.073			0.136	1	1

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED											
Site Name:		Scyld, Sussex									
Calculation Factor:		1	Dwellings								
Number of Dwellings:		9	Dwellings								

Development Scenario:		PROPOSED RESIDENTIAL									
Trip Rate for:		PEDESTRIANS									

Time Range	ARRIVALS			DEPARTURES			TOTALS			TRIPS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	Arr.	Dep.
	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate		
00:00-01:00										0	0
01:00-02:00										0	0
02:00-03:00										0	0
03:00-04:00										0	0
04:00-05:00										0	0
05:00-06:00										0	0
06:00-07:00										0	0
07:00-08:00	7	175	0.02	7	175	0.027	7	175	0.047	0	0
08:00-09:00	7	175	0.02	7	175	0.158	7	175	0.178	0	1
09:00-10:00	7	175	0.048	7	175	0.045	7	175	0.093	0	0
10:00-11:00	7	175	0.038	7	175	0.037	7	175	0.075	0	0
11:00-12:00	7	175	0.033	7	175	0.026	7	175	0.059	0	0
12:00-13:00	7	175	0.033	7	175	0.033	7	175	0.066	0	0
13:00-14:00	7	175	0.039	7	175	0.024	7	175	0.063	0	0
14:00-15:00	7	175	0.04	7	175	0.054	7	175	0.094	0	0
15:00-16:00	7	175	0.159	7	175	0.043	7	175	0.202	1	0
16:00-17:00	7	175	0.077	7	175	0.044	7	175	0.121	1	0
17:00-18:00	7	175	0.071	7	175	0.067	7	175	0.138	1	1
18:00-19:00	7	175	0.051	7	175	0.035	7	175	0.086	0	0
19:00-20:00										0	0
20:00-21:00										0	0
21:00-22:00										0	0
22:00-23:00										0	0
23:00-24:00										0	0
Daily Trip Rates:			0.629			0.593			1.222	6	5

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED											
Site Name:		Scyld, Sussex									
Calculation Factor:		1	Dwellings								
Number of Dwellings:		9	Dwellings								

Development Scenario:		PROPOSED RESIDENTIAL									
Trip Rate for:		PUBLIC TRANSPORT USERS									

Time Range	ARRIVALS			DEPARTURES			TOTALS			TRIPS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	Arr.	Dep.
	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate		
00:00-01:00										0	0
01:00-02:00										0	0
02:00-03:00										0	0
03:00-04:00										0	0
04:00-05:00										0	0
05:00-06:00										0	0
06:00-07:00										0	0
07:00-08:00	7	175	0.001	7	175	0.024	7	175	0.025	0	0

08:00-09:00	7	175	0	7	175	0.011	7	175	0.011	0	0
09:00-10:00	7	175	0.002	7	175	0.008	7	175	0.01	0	0
10:00-11:00	7	175	0.002	7	175	0.006	7	175	0.008	0	0
11:00-12:00	7	175	0.002	7	175	0.004	7	175	0.006	0	0
12:00-13:00	7	175	0.001	7	175	0.003	7	175	0.004	0	0
13:00-14:00	7	175	0.007	7	175	0.002	7	175	0.009	0	0
14:00-15:00	7	175	0.004	7	175	0.001	7	175	0.005	0	0
15:00-16:00	7	175	0.013	7	175	0.002	7	175	0.015	0	0
16:00-17:00	7	175	0.01	7	175	0.005	7	175	0.015	0	0
17:00-18:00	7	175	0.016	7	175	0	7	175	0.016	0	0
18:00-19:00	7	175	0.008	7	175	0	7	175	0.008	0	0
19:00-20:00										0	0
20:00-21:00										0	0
21:00-22:00										0	0
22:00-23:00										0	0
23:00-24:00										0	0
Daily Trip Rates:			0.066			0.066			0.132	1	1

Calculation Reference: AUDIT-807401-180313-0314

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

MULTI-MODAL VEHICLESSelected regions and areas:

02 SOUTH EAST	
ES EAST SUSSEX	1 days
HC HAMPSHIRE	1 days
KC KENT	1 days
SC SURREY	1 days
WS WEST SUSSEX	3 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: 37 to 805 (units:)
 Range Selected by User: 36 to 805 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/09 to 27/11/17

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	1 days
Wednesday	1 days
Thursday	4 days
Friday	1 days

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

Selected survey types:

Manual count	7 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)	3
Edge of Town	4

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	7
------------------	---

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.

LIST OF SITES relevant to selection parameters

1	ES-03-A-02	PRIVATE HOUSING	EAST SUSSEX
	SOUTH COAST ROAD		
	PEACEHAVEN		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:		37
	Survey date: FRIDAY		18/11/11
			Survey Type: MANUAL
2	HC-03-A-19	HOUSES & FLATS	HAMPSHIRE
	CANADA WAY		
	LIPHOOK		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:		62
	Survey date: MONDAY		27/11/17
			Survey Type: MANUAL
3	KC-03-A-03	MIXED HOUSES & FLATS	KENT
	HYTHE ROAD		
	WILLESBOROUGH		
	ASHFORD		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:		51
	Survey date: THURSDAY		14/07/16
			Survey Type: MANUAL
4	SC-03-A-04	DETACHED & TERRACED	SURREY
	HIGH ROAD		
	BYFLEET		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:		71
	Survey date: THURSDAY		23/01/14
			Survey Type: MANUAL
5	WS-03-A-04	MIXED HOUSES	WEST SUSSEX
	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
6	WS-03-A-05	TERRACED & FLATS	WEST SUSSEX
	UPPER SHOREHAM ROAD		
	SHOREHAM BY SEA		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:		48
	Survey date: WEDNESDAY		18/04/12
			Survey Type: MANUAL
7	WS-03-A-06	MIXED HOUSES	WEST SUSSEX
	ELLIS ROAD		
	S BROADBRIDGE HEATH		
	WEST HORSHAM		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:		805
	Survey date: THURSDAY		02/03/17
			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.

OFF-LINE VERSION Mayer Brown Lion House Woking

Licence No: 807401

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

MULTI-MODAL 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	7	175	0.095	7	175	0.366	7	175	0.461
08:00 - 09:00	7	175	0.151	7	175	0.426	7	175	0.577
09:00 - 10:00	7	175	0.161	7	175	0.186	7	175	0.347
10:00 - 11:00	7	175	0.121	7	175	0.151	7	175	0.272
11:00 - 12:00	7	175	0.149	7	175	0.162	7	175	0.311
12:00 - 13:00	7	175	0.148	7	175	0.157	7	175	0.305
13:00 - 14:00	7	175	0.167	7	175	0.162	7	175	0.329
14:00 - 15:00	7	175	0.144	7	175	0.187	7	175	0.331
15:00 - 16:00	7	175	0.264	7	175	0.187	7	175	0.451
16:00 - 17:00	7	175	0.273	7	175	0.158	7	175	0.431
17:00 - 18:00	7	175	0.357	7	175	0.161	7	175	0.518
18:00 - 19:00	7	175	0.329	7	175	0.170	7	175	0.499
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.359			2.473			4.832

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: $COUNT/TRP \times FACT$. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected:	37 - 805 (units:)
Survey date range:	01/01/09 - 27/11/17
Number of weekdays (Monday-Friday):	7
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.

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

MULTI-MODAL CYCLISTS**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	7	175	0.008	7	175	0.007	7	175	0.015
08:00 - 09:00	7	175	0.001	7	175	0.010	7	175	0.011
09:00 - 10:00	7	175	0.001	7	175	0.002	7	175	0.003
10:00 - 11:00	7	175	0.002	7	175	0.004	7	175	0.006
11:00 - 12:00	7	175	0.003	7	175	0.003	7	175	0.006
12:00 - 13:00	7	175	0.002	7	175	0.002	7	175	0.004
13:00 - 14:00	7	175	0.002	7	175	0.007	7	175	0.009
14:00 - 15:00	7	175	0.002	7	175	0.001	7	175	0.003
15:00 - 16:00	7	175	0.006	7	175	0.005	7	175	0.011
16:00 - 17:00	7	175	0.011	7	175	0.014	7	175	0.025
17:00 - 18:00	7	175	0.018	7	175	0.012	7	175	0.030
18:00 - 19:00	7	175	0.007	7	175	0.006	7	175	0.013
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.063			0.073			0.136

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.

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Parameter summary

Trip rate parameter range selected:	37 - 805 (units:)
Survey date range:	01/01/09 - 27/11/17
Number of weekdays (Monday-Friday):	7
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.

OFF-LINE VERSION Mayer Brown Lion House Woking

Licence No: 807401

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

MULTI-MODAL PEDESTRIANS**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	7	175	0.020	7	175	0.027	7	175	0.047
08:00 - 09:00	7	175	0.020	7	175	0.158	7	175	0.178
09:00 - 10:00	7	175	0.048	7	175	0.045	7	175	0.093
10:00 - 11:00	7	175	0.038	7	175	0.037	7	175	0.075
11:00 - 12:00	7	175	0.033	7	175	0.026	7	175	0.059
12:00 - 13:00	7	175	0.033	7	175	0.033	7	175	0.066
13:00 - 14:00	7	175	0.039	7	175	0.024	7	175	0.063
14:00 - 15:00	7	175	0.040	7	175	0.054	7	175	0.094
15:00 - 16:00	7	175	0.159	7	175	0.043	7	175	0.202
16:00 - 17:00	7	175	0.077	7	175	0.044	7	175	0.121
17:00 - 18:00	7	175	0.071	7	175	0.067	7	175	0.138
18:00 - 19:00	7	175	0.051	7	175	0.035	7	175	0.086
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.629			0.593			1.222

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.

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Parameter summary

Trip rate parameter range selected:	37 - 805 (units:)
Survey date range:	01/01/09 - 27/11/17
Number of weekdays (Monday-Friday):	7
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.

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

MULTI-MODAL PUBLIC TRANSPORT USERS

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	7	175	0.001	7	175	0.024	7	175	0.025
08:00 - 09:00	7	175	0.000	7	175	0.011	7	175	0.011
09:00 - 10:00	7	175	0.002	7	175	0.008	7	175	0.010
10:00 - 11:00	7	175	0.002	7	175	0.006	7	175	0.008
11:00 - 12:00	7	175	0.002	7	175	0.004	7	175	0.006
12:00 - 13:00	7	175	0.001	7	175	0.003	7	175	0.004
13:00 - 14:00	7	175	0.007	7	175	0.002	7	175	0.009
14:00 - 15:00	7	175	0.004	7	175	0.001	7	175	0.005
15:00 - 16:00	7	175	0.013	7	175	0.002	7	175	0.015
16:00 - 17:00	7	175	0.010	7	175	0.005	7	175	0.015
17:00 - 18:00	7	175	0.016	7	175	0.000	7	175	0.016
18:00 - 19:00	7	175	0.008	7	175	0.000	7	175	0.008
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.066			0.066			0.132

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:	37 - 805 (units:)
Survey date range:	01/01/09 - 27/11/17
Number of weekdays (Monday-Friday):	7
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.

