

Appendix H

Project Name:	Forty Acre Farm, Bedhampton
Document Reference:	041.0023/CDTN/1
Document Name:	Concept Design Check Technical Note
Prepared By:	Jessica Lloyd (09/08/17)
Checked By:	Mark Smith (10/08/17)
Approved By:	Mark Smith (10/08/17)

1. INTRODUCTION

- 1.1 This Concept Design Check Transport Note (CDTN) has been prepared by Paul Basham Associates on behalf of Barratt David Wilson Homes to support a Concept Design Check for the two ghost island right turn lanes as vehicle accesses for a proposed development of approximately 340 dwellings at Forty Acre Farm, Bedhampton. The site location is shown below in **Figure 1**.

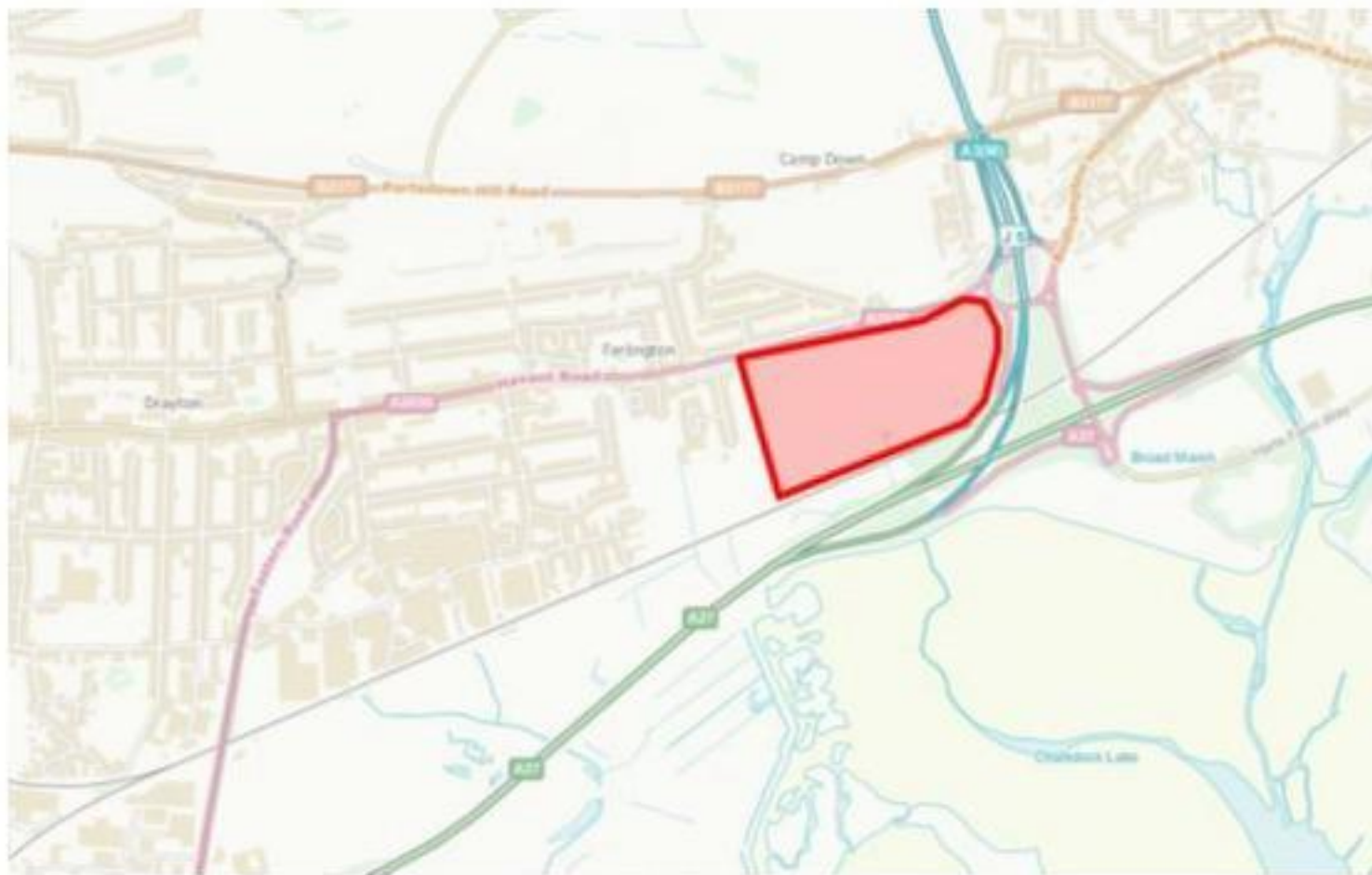


Figure 1: Site Location

- 1.2 A highways pre-application has been undertaken with Holly Drury at Hampshire County Council (HCC) in October 2016 where the following was agreed:
- Trip Rates
 - Trip Distribution (providing further explanation was given in the TA)
 - Scope of traffic impact assessment
 - Rusty Cutter roundabout and A27 Teardrop junction as a minimum to be modelled
 - Principle of two vehicular accesses, right turn lanes and lane width geometries

2. TRAFFIC GENERATION

2.1 The following trip rates were agreed through a pre-application with HCC, with the trip generation updated to reflect the latest development quantum:

TRICS	AM Peak (0800-0900)		PM Peak (1700-1800)		Total Daily Trips
	Arrivals	Departures	Arrivals	Departures	
Trip Rate per unit (Private Houses)	0.127	0.381	0.325	0.189	4.580
Trip Generation (341 Houses)	43	130	111	64	1562
TOTAL	173		175		1562

Table 1: Proposed Trip Generation

2.2 The trip rate assessment indicates that the proposed residential development would generate approximately 173 vehicle trips in the AM peak (0800-0900hrs), 175 vehicle trips in the PM peak (1700-1800hrs) and approximately 1562 trips across the day.

2.3 Based on the proposed site layout (attached as **Appendix A**) and the trip distributions agreed at the pre-application stage with 85% of trips traveling to/from the east and 15% to/from the west. It is proposed that 60% of all vehicle trips will utilise the eastern access and 40% will utilise the western access. This distribution is a result of a higher housing density in the western portion of the site but with more vehicles wishing to travel east, and therefore more likely to use internal roads to travel across to the eastern access.

2.4 Using the above distribution this would result in the following vehicle split:

TRICS	AM Peak (0800-0900)		PM Peak (1700-1800)		Total Daily Trips
	Arrivals	Departures	Arrivals	Departures	
Eastern Access (60%)	26	78	67	38	937
Western Access (40%)	17	52	44	26	625
TOTAL	173		175		1562

Table 2: Proposed Vehicle Splits Between Accesses

3. EXISTING CONDITIONS

- 3.1 Traffic surveys have been commissioned by PBA in the vicinity of the site to establish the existing traffic situation on the local road network in order to fully understand the likely impact of the development. A seven day traffic survey has been undertaken along the site frontage on Havant Road located to the west of the existing site access. The results of the survey are presented in **Table 3** with the full survey outputs attached as **Appendix B**.

Havant Road	Weekday AM Peak (0800-0900) Volume	Weekday PM Peak (1700-1800) Volume (%)	Daily Flow (5-Day Average)	7-day 85%ile Speeds
Eastbound	683 (58.3%)	445 (40.4%)	7666	40.5mph
Westbound	489 (41.7%)	657 (59.6%)	7384	40.3mph

Table 3: Havant Road Traffic Survey Summary

4. PROPOSED ACCESS DESIGN

- 4.1 The site would be served by two vehicular access points onto Havant Road (the principle of which was agreed through pre-application discussion with HCC). Both accesses would be of bellmouth arrangements 7m wide supported by 15m radii. The access road would reduce in width to 5.5m approximately 20m into the site. Such dimensions would allow two large vehicles to pass when concurrently turning in and out of the access and would allow large vehicles to enter and exit the site safely without utilising the other side of the road. The access would be constructed to HCC adoptable standards. The proposed access arrangement is demonstrated in **Appendix C**.
- 4.2 Both accesses would be flanked by 2.0m pedestrian footways either side which would connect to a 3m wide footway/cycleway creating a continuous footway along the southern side of Havant Road from the Forty Acres W-bound bus stop and Havant Road NE-bound bus stop.
- 4.3 According to DMRB TD 42/95, a ghost island right turn lane should be “considered” given the total quantum of traffic generated by the site (1562 vehicles) and the existing flows on Havant Road (11,237 daily two way movements).
- 4.4 Given the size of the proposed development, two accesses are proposed both facilitated by right turn lanes. Both right turn lanes have been designed in accordance with DMRB and consultation with Hampshire County Council. Both ghost island right turn lanes would be 3.0m, with through lanes 3.05m wide. The turning lengths are 10m in accordance with

paragraph 7.32 of DMRB. The taper length is 15m in accordance with design speeds for 70kph as outlined in paragraph 7.34 of DMRB. The deceleration length is 40m in accordance with design speeds of 70kph in relation to Table 7/5a and paragraphs 7.40 and 7.55 of DMRB. These dimensions were agreed through the pre-application.

- 4.5 A jug handle arrangement is proposed on the western extent of the footway/cycleway to provide a continuous connection for cyclists travelling eastbound. This includes creating a build out into the existing bus lane on the north side of Havant Road whilst also creating a cycle lane within the existing hatching for the bus layby. A swept path analysis has been undertaken through this arrangement with a 12.5m long single decker bus to ensure a bus can still enter and exit the layby sufficiently. This is demonstrated in **Appendix C**.
- 4.6 An independent Stage 1 Road Safety Audit (RSA) has been undertaken for the purpose of this concept design check of the accesses and footways, and the full report including the Designers Response is provided in **Appendix D**. The RSA highlighted the following issues of which most have been addressed in the latest designs:
- No margin strip on the footway/cycleway
 - Fencing required on the southern edge of the footway/cycleway
 - Risk of pedestrians waiting in the bus layby
 - Existing street furniture needs to be moved
 - No cycle access and exit points demarcated
 - Risk of pedestrian/cyclist collision at eastern bus stop
 - No crossing facilities for cyclists
 - Hatching around the refuge island
 - Confusing road markings
- 4.7 Whilst the majority of issues have been addressed the hatching around the refuge island will remain as previously proposed. The pedestrian refuge is 2.5m wide in accordance with Hampshire County Council's guidelines which is sufficient for the proposed end user and provides a safe crossing distance. This could be widened if HCC consider this necessary through this concept design check.

- 4.8 In order to inform visibility requirements, the results of the 7 day speed survey on Havant Road (**Appendix B**) have been used. The results of this survey (summarised previously in **Table 3**) demonstrate that visibility splays of 4.5m x 120m in the primary direction and secondary direction would be required. This drawing is attached within **Appendix C** for reference. These visibility splay lengths, calculated using Design Manual for Roads and Bridges guidance and speeds surveys were confirmed as acceptable to HCC Highways through the pre-application process.
- 4.9 A 3m footway/cycleway will be created from the south-eastern bus stop on Havant Road which would extend across the site and to an improved pedestrian crossing to the northern side of Havant Road to improve connectivity and permeability of the site as well as ensuring all parts of the site are easily accessible.

5. SUMMARY AND CONCLUSIONS

- 5.1 This CDTN has been prepared by Paul Basham Associates on behalf of Barratt David Wilson Homes to support a Concept Design Check on the two proposed vehicular access into Forty Acre Farm. These two access points will support access to approximately 340 residential units.
- 5.2 Automated Traffic Counts were undertaken in November 2015 to establish baseline traffic flows and 85th percentile speeds which have been used to calculate visibility splay requirements.
- 5.3 It is proposed that 60% of all vehicle trips would utilise the eastern access point given the housing density and propensity to travel east, whilst 40% would utilise the western access point.
- 5.4 Both accesses are proposed to be of a bellmouth arrangement with 15m radii supported by ghost island right turn lanes. The principle of the access design and geometries of the turning length, deceleration length, taper lengths and lane widths were agreed through the pre-application stage with Hampshire County Council.
- 5.5 A Stage 1 Road Safety Audit has been undertaken of the proposed access designs which highlighted a number of design issues. Most of these issues have been addressed except the existing hatching around the pedestrian refuge island which will remain as existing.



Hampshire
County Council

Forty Acre Farm, Bedhampton

Pre-Application Design Review Report Revision A

For Revision 'A' Details – See Section 6.1 Revision 'A' - Addendum

Job No: R.J506176.01 (JZ)
Report No: PAR506176-A



Stuart Jarvis BSc DipTP FCIHT MRTPI

Director of Economy, Transport and Environment, The Castle, Winchester



Forty Acre Farm, Bedhampton

Prepared by: Abayomi Kestinro

Signed:

Date: 13-09-17

Checked by: Graham Redman

Signed:

Date: 13th September 2017

Approved by: Kathie Murray

Signed:

Date: 13th September 2017

Report issued to Development Planning

Officer: Holly Drury

Date: 13th September 2017

REPORT EXPIRY DATE: 2 Years after Issue

Revision A

Prepared by: Abayomi Kestinro

Signed:

Date: 15th November 2017

Checked by: Graham Redman

Signed:

Date: 20th November 2017

Approved by: Kathie Murray

Signed:

Date: 20th November 2017

Report issued to Development Planning

Officer: Holly Drury

Date: 21st November 2017

REPORT EXPIRY DATE: 2 Years after Issue

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1. Scheme Details

1.1. Development Planning Officer

Name: Holly Drury
Tel: 01962 826996

1.2. Consultant Details

Name: Paul Basham Associates
Address: Lancaster Court, 8 Barnes Wallis Road, Fareham, Hampshire
PO15 5TU
Tel: 01489 668136
Contact: Jessica Lloyd (jessica@paulbashamassociates.com)

1.3. Developer

Name: Barratt David Wilson Homes
Address: Tollbar Way, Hedge End, Southampton, SO30 2UH
Contact: James Snelgar (james.snelgar@barratthomes.co.uk)

1.4. Scheme Location

A2030 Havant Road, Bedhampton. Opposite Auriol Drive.

1.5. Description of Highway Improvements

Provide two new accesses off Havant Road to service a new development of 340 homes. Construction of a new shared-use path on the southern side as well as improved pedestrian crossing facilities.

It is not clear if the internal road network is to be adopted via a Section 38 agreement.

1.6. Estimate

Consultant has not provided an estimate for the works.

1.7. Submitted Information

1.7.1. Drawings

Drawing no.	Rev	Drawing Title	Date Received
041.0023.003	D	Eastern Site Access Arrangement	31-08-17
041.0023.004	D	Western Site Access Arrangement	31-08-17
041.0023.005	D	Tracking	31-08-17

1.7.2. Documents

Document no.	Rev	Document Title	Date Received
		RSA 1 and designers response	31-08-17
041.0023/CDTN/1		Concept Design Check Technical Note	31-08-17

2. Design Check Details

2.1. Date documents received from Development Planning

The design check was received from development planning 5th September 2017.

2.2. Date review meeting was held

No meeting held.

2.3. Internal Consultations

Due to the high level nature of a pre application check no internal consultations were carried out.

2.4. Quality of Drawings etc. provided

Drawings were suitable to carry out a pre-application design check.

3. Comments on Design

3.1. General Comments

The concept design check transport note provided states that the form of the access has been agreed previously with HCC; however only the general principles were discussed. The purpose of the pre application review is to agree the best form of access for this location based on the updated information submitted.

The boundary with Portsmouth City Council should be indicated on the drawing to ascertain how the proposals link into the existing infrastructure.

Is there a need for two points of access, as stated in the CDTN at least 60% of the trips will use the eastern access and 85% of the traffic will be traveling east bound there doesn't seem to be a justification for two points of access.

There are concerns that with the level of flow on Havant Road vehicles exiting the access and turning right will struggle to find an appropriate gap. This could result in accidents. As per section 4 of TD16/07 a roundabout might be required to accommodate the right turning traffic out of the access.

Whilst a roundabout would address the issues raised to right turning traffic out of the access the land take up to achieve the appropriate deflection could pose issues to the developer from a viability point of view. As such signalling the eastern junction should be investigated. If possible one of the accesses for Auriol Drive should be incorporated into the design to create signalised cross roads.

It is unclear from the provided plans how the internal site will be linked and if the site will be offered for adoption. There appears to be an internal footway that runs through the site and into Westways. If the internal site is to be offered for adoption then the internal boundary footpath should be made shared-use if not already. This will remove the need to provide a shared-use path adjacent to Havant Road.

The proposed new development access would need to be designed in accordance with TD41/95 a "dwell" area of at least 15m shall be provided immediately adjacent to Havant Road.

If a signalised junction is progressed, consultant should look at repositioning the bus stop closer and introducing a pedestrian phase to offer pedestrians improved crossing facilities. This could result in reduced footway on the southern side of Havant Road.

3.2. Other elements of design

There are currently street lighting columns on Havant Road; these will need to be relocated to the back of any proposed footway.

As per HD42/17 a Walking, Cycling & Horse-Riding Assessment and Review should be provided with a future submission.

A stopping up order might be required for the existing access off Havant Road.

The proposed separation from the live carriageway should be 1m as this is the desirable minimum; this should also be a verge strip.

4. Statutory Requirements

Orders. (line / side road)	N / A
Compulsory Purchase Orders.	N / A
Traffic Regulation Orders.	N / A
Parking Restriction Orders.	N / A
Road Hump Regulation Consultations.	N / A
Public Consultation.	N / A
Hedgerow Regulation Act.	N / A
Footway Conversion	N / A

The process of any Statutory requirements will not be commenced until a written request is received from the Consultant; this should include an undertaking to pay all costs incurred.

Consultant to note that the procedure for dealing with any Statutory Requirements will normally take some four to six months, but in exceptional circumstances could exceed nine months. The scheme programme should take this into account.

Initial contact should be made with the Assistant Service Manager for Area

Office	Tel	Email
North	01256 764455	highways-transport.north@hants.gov.uk
East	01730 235800	highways-transport.east@hants.gov.uk
South	01329 824757	highways-transport.south@hants.gov.uk
West	023 8066 3311	highways-transport.west@hants.gov.uk

5. Future Submissions

5.1. Guidance

Consultant shall note that any future preliminary, combined or detail design submissions must be made in accordance with HCC's Section 278 Technical Submission Guidance, which can be found together with other important information for developers at;

<http://www3.hants.gov.uk/roads/highways-developers/construction-standards.htm>

5.2. Considerations

The comments below are to assist the Consultant in future submissions.

5.2.1. Officers

No further comments.

5.2.2. Preliminary Design Check

Sight visibilities / Land Plan

Consultant to confirm that all land required for visibility splays will be dedicated to the Highway Authority. A plan showing extent of existing highway, new development land for adoption and any third party land required is required.

Departures from DMRB / HCC Standards.

The Consultant is to provide an explanation of the case for inclusion of any departures or relaxation's to standards proposed, together with an assessment of risks involved in adopting such proposals, along with any mitigation measures proposed. An independent safety auditor's comment is also required.

The developer shall note that departures or relaxations will not be approved if their inclusion is considered inappropriate. Where proposals have been recommended for approval which are subsequently found to contain 'departures from standards' not previously indicated by the Developers Consultant it must be noted that acceptance of retrospective applications cannot be guaranteed.

Traffic speed surveys

The existing speed limit is to be confirmed. The 85th%ile speed of the site required if any Departures from Standard are included within proposals or if Consultant is applying Manual for Streets criteria.

Accident History Report.

The Consultant shall provide a narrative of the Accident History Report (most recent 5 years) from Hampshire Constabulary, contact the Collision Records Team by phone on 02380 479678 or E-mail:

collision.records@hampshire.pnn.police.uk and identify any trends that are addressed by the proposals or that could exacerbated.

5.2.3. Combined Design Check

HCC Standard Detail Drawing/Specification

The Consultant shall provide a list of HCC Standard Details, including Revision suffix, relevant to the works. It should be noted that

The latest HCC standard details may be found at:

<http://www3.hants.gov.uk/roads/highways-developers/construction-standards/standard-details.htm>

Also, for all but the smallest schemes a Contract Document will be required. The Consultant must confirm they have based their specification on the latest HCC model contract document. This specification can be supplied, but will need to be made "scheme specific".

Road Markings and Signing

Submission to be in accordance with the Traffic Sign Regulations & General Directions and any Highway Authority's requirements. A fully detailed sign schedule will be required for larger schemes.

Pavement Design.

The sub-base shall be recycled granular material as detailed in HCC Specification (Hampshire County Council Master Contract Documents). Virgin crushed rock sub-base may only be used where it can be demonstrated that recycled or secondary materials are not available locally.

Furthermore, during the first week of construction work equilibrium CBR values shall be established.

Street Lighting Proposals.

The consultant should note that Southern Electric Contracting will not undertake any servicing works until a 'Certificate of Approval for Illuminated Street Furniture Installation' has been signed the HCC Street Lighting Engineer.

It is a requirement of the Consultant to consult the relevant Local Lighting Authority regarding any proposals. Written confirmation of the consultation will be required prior to commencement of works on site.

<http://www3.hants.gov.uk/index/your-area/localpages/districts.htm> or

<http://www3.hants.gov.uk/index/council/localgov/parish.htm>

Drainage Proposals.

To promote the use of recycled plastic, please consider HAPAS certified recycled plastics, such as twinwall drainage piping. Installation of such piping should be installed as per manufacturer's recommendations.

Jetting of new drainage runs may be necessary at end of contract, in order to ensure all new pipe-work is free of debris and free running.

6. Recommendation on Proposals

RECOMMENDED TWO STAGE APPROACH

Extent of pre-application advice

Hampshire County Council pre-application advice is subject to the following terms:

- Any views or opinions expressed in responses are made at officer level in good faith and to the best of ability, without prejudice to the formal consideration of any planning application which will be subject to public consultation and ultimately determined by the relevant Planning Authority.*
- Any advice given by officers does not constitute a formal response or decision by the County Council. Save for cases of negligence, the County Council will not be liable for any loss or damage suffered arising from or in connection with the use of the advice.*
- The pre-application advice given may not necessarily be exhaustive but will be intended to highlight the main issues that need to be addressed / considered as part of the application process on the basis of the discussions that have taken place and the information that is available at the time.*
- Should the detail or the nature of the proposal change, further advice should be sought. Similarly, once the detail of any proposal has been worked up if not previously available, it may be helpful to seek further advice prior to the submission of an application.*
- The advice and any attachments to it are solely for the use of the individual to whom it is addressed. If you are not the intended recipient of the advice, you must not take any action based on its contents, nor disclose the communication to a third party.*

6.1. Revision 'A – Addendum 15-11-17

Following the issue of the Report (with concerns highlighted), the consultant has provided additional information for consideration.

Drawings issued new / updated –

None

Documents issued new / updated –

Addendum to RSA 1

041.023 – Westways PM Turning Count Survey

041.023 – Westways AM Turning Count Survey

HCC Comments

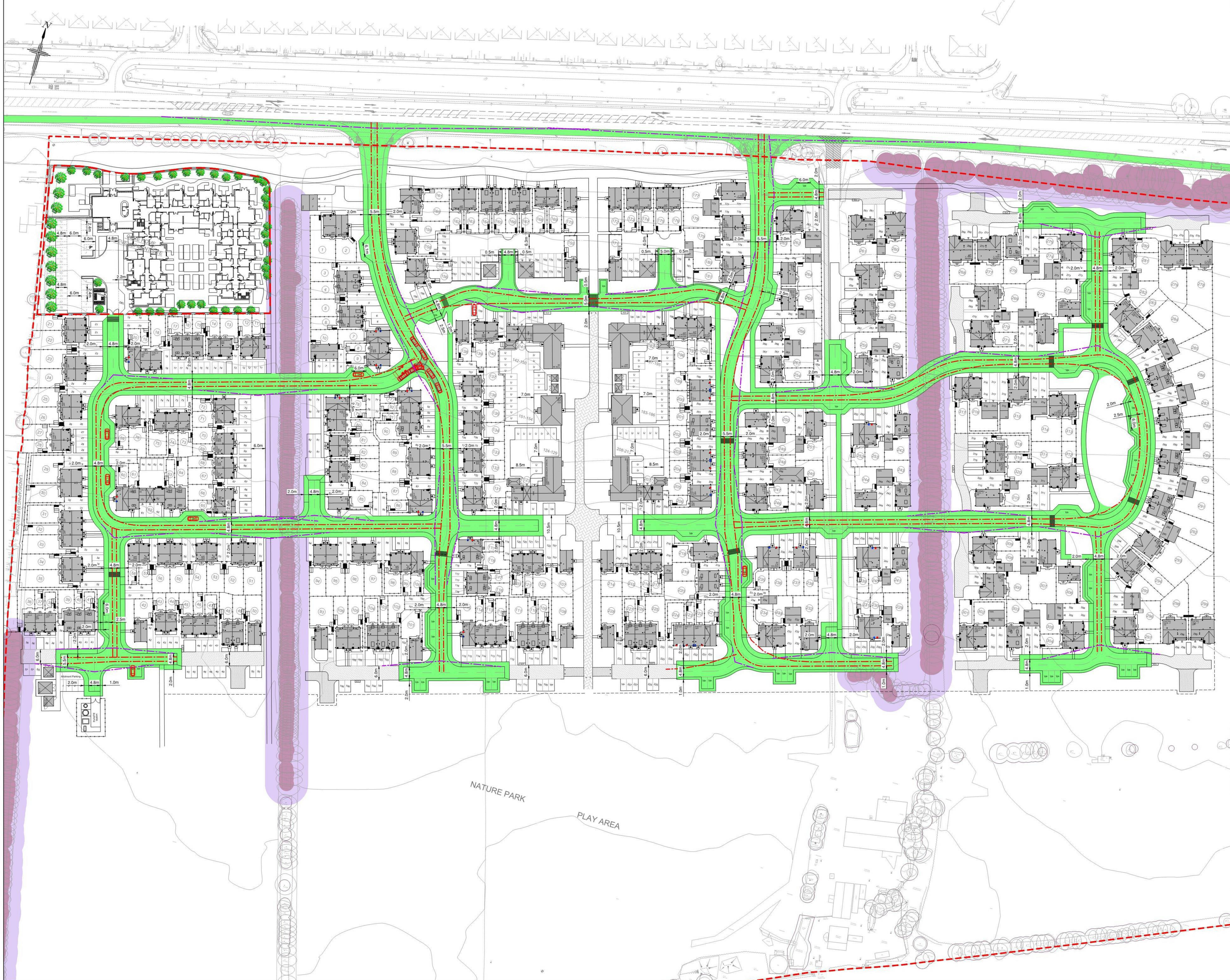
The consultant has demonstrated that whilst a majority of vehicles exiting the new access will be heading eastwards towards the A3 (M) junction they have confirmed that the AADT will only require a ghost island junction.

They have also provided turning movements for the existing Westways Junction onto Havant Road which shows a 50:50 split which supports their assumption that there will be no requirement for a signalised junction.

The proposed access arrangements are acceptable based on the revised details.

Comments raised in section 3.2 of the original report above are still applicable.

Appendix I



NOTES

- All dimensions are in metres unless stated otherwise.
- Do not scale from this drawing. Only written dimensions are to be used.
- Site layout based on ID Partnership Proposed Site Layout Plan, drawing number PL04 Revision U issued to RCP in .dwg format on 19/09/2019.
- Topographic Survey as per Steline survey drawing number 36FA01 dated August 2016.
- Layout review is subject to receipt of finalised layout proposal and the final highway layout design will be subject to the outcome of consultation with Hampshire County Council.
- Red indicates vehicle moving forward, blue indicates vehicle reversing.

CONSIDERATIONS FOR INTERNAL LAYOUTS

- Assumed speed limits:
 - A2030 Havant Road = 40mph
 - Roads Within Development = 20mph
 - Speed Control Bands within Shared Surface Areas = 12mph
- Junction visibility requirements:
 - For 40mph road = 2.4m x 90m (TD42/95).
 - For 20mph road = 2.4m x 25m (Manual for Streets).
- Forward visibility requirements:
 - 25m for 20mph (Manual for Streets).
 - 14m for 12mph (Manual for Streets).
- Ensure no planting or street furniture is proposed within visibility splays.
- Landscaping & any External Works Fencing (i.e. Picket Fencing within property curtilage) should be avoided wherever possible within visibility splays. However if necessary due to planning requirements, such features should be kept below 600mm in height where located within visibility splays.
- 0.5m adoptable service margins are to be introduced between highway edge and adjacent private parking bays which may require plots to be moved back and garden scales to be reduced to allow for the margin. Alternatively a 1.0m easement should be provided at the back of the highway edge. Preferred method subject to consultation with Hampshire County Council.
- 0.5m minimum adoptable service margins required within verges from edge of carriageway. Alternatively a 1.0m easement should be provided at the back of the highway edge. Preferred method subject to consultation with Hampshire County Council.
- Minimum road widths to be 3.7m to allow for Fire Tender access.
- A 1.2m - 2.0m footway will be required on the inside corner of speed control bands where used in shared surface areas.

KEY

Forward Visibility Splays	---
Junction Visibility Splays	---
Potential Adoptable Highways (Subject to consultation with HCC)	---
Root Protection Area	---

Speed Control Bend Typical Detail
Not to Scale

Any proposed works within Root Protection Areas are subject to supervision and approval by the Arboriculturist.

CDM NOTES

- EXISTING SERVICES: Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note H5 (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

SCALE BAR 1:500 at A0

R	19.09.19	Revised to latest site layout.	RM	TR	TR
O	03.09.19	Revised to latest site layout.	PJ	LD	TR
P	06.05.19	Revised to latest site layout.	RM	AC	TR
O	13.02.19	Revised to latest site layout.	TR	TR	TR
M	09.01.19	Revised to latest Site Layout.	NW	AC	TR
L	17.10.18	Note amended to latest Site Layout issued by IDP.	NW	TR	TR
K	21.09.18	Note amended to latest Site Layout issued by IDP.	NW	TR	TR
J	20.09.18	Visibility splays and annotation revised to latest site layout.	NW	TR	TR
Rev	Date	Details	By	Chkd	Appd

Client:-

BARRATT HOMES

DAVID WILSON HOMES
WHERE QUALITY LIVES

Site:-
Land at Forty Acre Farm, Havant Road, Havant

Drawing Title:-
HIGHWAY LAYOUT REVIEW

Date: June 2017 Scales: 1:500 at A0

Drawn: AC Checked: TRS Approved: TRS

Drawing No. **BSO/E4519/012 R**

PRELIMINARY

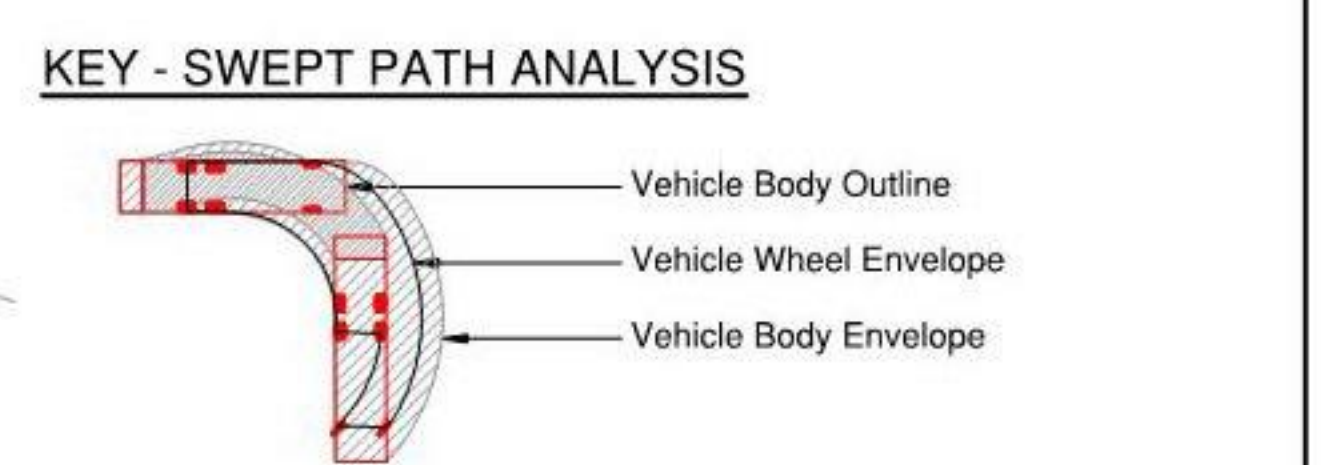
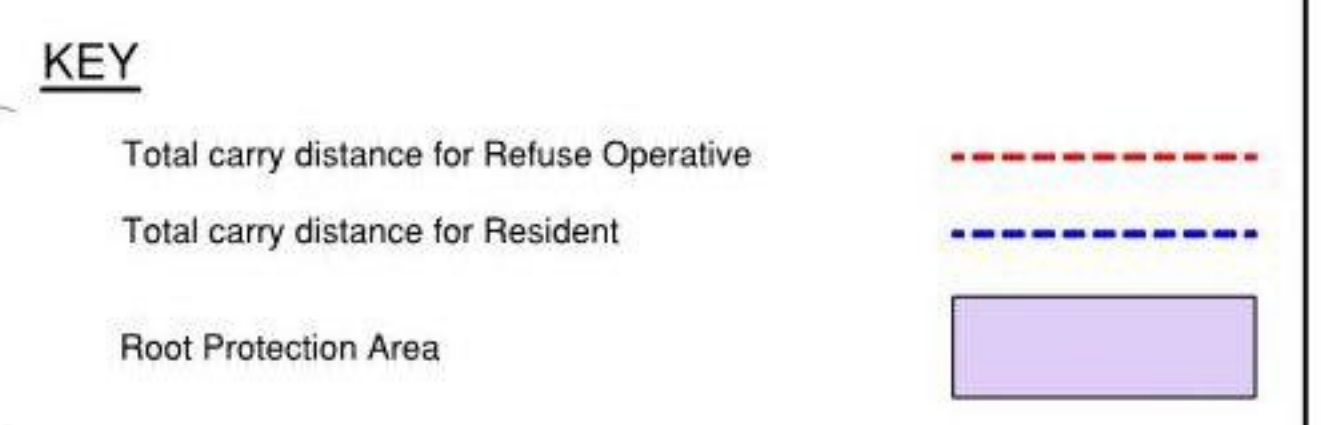
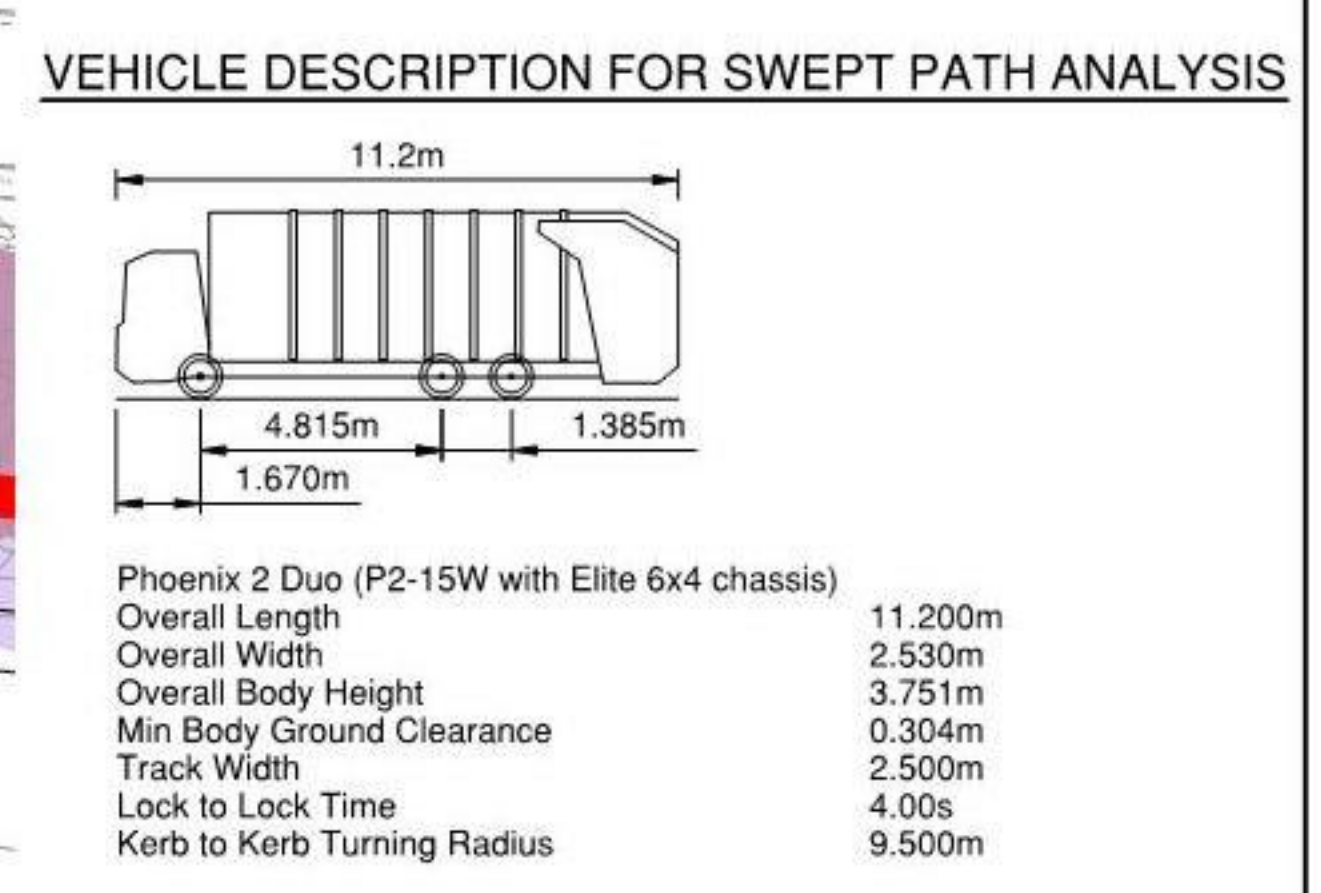
RCP Rogers Cory Partnership
Architectural and Civil Consultants
The Old School, Old School Road, Havant, Hampshire, PO15 5JH
T: 01329 787369 F: 01329 787369 E: info@rogerscory.co.uk W: rogerscory.co.uk

Appendix J



- NOTES**
1. All dimensions are in metres unless stated otherwise.
 2. Do not scale from this drawing. Only written dimensions are to be used.
 3. Site layout based on ID Partnership Proposed Site Layout Plan, drawing number PL04 Revision U issued to RCP in .dwg format on 19/09/2019.
 4. Topographic Survey as per Steline survey drawing number 36FA01 dated August 2016.
 5. Layout review is subject to receipt of finalised layout proposal and the final highway layout design will be subject to the outcome of consultation with Hampshire County Council.
 6. Red indicates vehicle moving forward, blue indicates vehicle reversing.

- CONSIDERATIONS FOR REFUSE STRATEGY**
1. Allowable carry distance for bins for residents is 30m.
 2. Allowable carry distance for bins for refuse operatives is 25m, 10m for Eurobins.



Any proposed works within Root Protection Areas are subject to supervision and approval by the Arboriculturist.

CDM NOTES

1. EXISTING SERVICES: Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note H5 (0) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

SCALE BAR 1:500 at A0

N	19.09.19	Revised to latest site layout.	RM	TR	TR
M	26.05.19	Revised to latest site layout.	NW	AC	TR
L	13.02.19	Revised to latest site layout.	TR	TR	TR
K	09.01.19	Revised to latest Site Layout.	NW	AC	TR
J	17.10.18	Tracking and annotation revised to latest site layout.	NW	AC	TR
H	21.09.18	Tracking and annotation revised to latest site layout.	NW	AC	TR
G	30.04.18	Turning head removed from opposite Plots 278 & 279.	AC	AC	TR
F	27.04.18	Annotation revised to latest site layout.	NW	AC	TR
E	25.04.18	Tracking revised to latest site layout.	NW	AC	TR
D	16.04.18	Tracking revised to latest site layout.	NW	AC	TR
C	07.02.18	Tracking revised to latest site layout.	NW	AC	TR
Rev	Date	Details	By	Chkd	Appd

Client: **BARRATT HOMES**

DAVID WILSON HOMES
WHERE QUALITY LIVES

Site: **Land at Forty Acre Farm, Havant Road, Havant**

Drawing Title: **REFUSE VEHICLE SWEEP PATH ANALYSIS**

Date: July 2017 Scales: 1:500 at A0

Drawn: AC Checked: SRV Approved: RJL

Drawing No. **BSO/E4519/014 N**

PRELIMINARY

RCP Rogers Cory Partnership
Architectural and Civil Consultants
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