

Technical note - Transport Statement Addendum

Project name	Amethyst Lane, Reading		
Design note title	Transport Statement Addendum		
Document reference	26887-HYD-XX-XX-RP-TP-4002		
Author	J. Dalley		
Revision	Final		
Date	3 November 2023	Approved	✓

1. Introduction

- 1.1.1 This Transport Statement Addendum has been prepared by Hydrock on behalf of Reading Borough Council to reflect layout changes to the proposed redevelopment of a site. The revisions to the site layout reflect wider post-application discussions with Reading Borough Council and the final masterplan is shown in Figure 1.1.



Figure 1.1: Site masterplan

11.2 The rest of this technical note provides supplementary analysis to accompany the revisions to the scheme. A list of the drawings which show the detail of the vehicle tracking and visibility are appended to this report and includes:

- » 26887-HYD-XX-XX-DR-TP-0032: LARGE CAR PASSING IN TURNING AREA
- » 26887-HYD-XX-XX-DR-TP-0033: LARGE CAR FORWARD VISIBILITY
- » 26887-HYD-XX-XX-DR-TP-0034: 10m RIGID PASSING LARGE CAR AT SOUTHERN BEND
- » 26887-HYD-XX-XX-DR-TP-0035: 10m RIGID PASSING REFUSE VEHICLE AT SOUTHERN BEND
- » 26887-HYD-XX-XX-DR-TP-0036: 10m RIGID PASSING 7.5t BOX VAN AT SOUTHERN BEND
- » 26887-HYD-XX-XX-DR-TP-0037: TWO 10m RIGID VEHICLES PASSING IN CENTRE OF SITE
- » 26887-HYD-XX-XX-DR-TP-0038: 10m RIGID PASSING A REFUSE VEHICLE IN CENTRE OF SITE
- » 26887-HYD-XX-XX-DR-TP-0039: 10m RIGID PASSING A 7.5t BOX VAN IN CENTRE OF SITE
- » 26887-HYD-XX-XX-DR-TP-0040: 10m RIGID TURNING
- » 26887-HYD-XX-XX-DR-TP-0041: REFUSE VEHICLE TURNING AND PASSING 10m RIGID
- » 26887-HYD-XX-XX-DR-TP-0042: 7.5t BOX VAN VEHICLE TURNING AND PASSING 10m RIGID
- » 26887-HYD-XX-XX-DR-TP-0043: 7.5t BOX VAN ACCESSING LOADING BAY
- » 26887-HYD-XX-XX-DR-TP-0044: LARGE CAR ACCESSING PARKING BAYS
- » 26887-HYD-XX-XX-DR-TP-0045: LARGE CAR ACCESSING PARKING BAYS
- » 26887-HYD-XX-XX-DR-TP-0046: LARGE CAR ACCESSING PARKING BAYS
- » 26887-HYD-XX-XX-DR-TP-0047: LARGE CAR ACCESSING PARKING BAYS
- » 26887-HYD-XX-XX-DR-TP-0048: 10m RIGID FORWARD VISIBILITY
- » 26887-HYD-XX-XX-DR-TP-0049: 10m RIGID VEHICLE PASSING AT SOUTHERN BEND
- » 26887-HYD-XX-XX-DR-TP-0050: 10m RIGID VEHICLE PASSING REFUSE VEHICLE AT SOUTHERN BEND 1
- » 26887-HYD-XX-XX-DR-TP-0051: 10m RIGID VEHICLE PASSING REFUSE VEHICLE AT SOUTHERN BEND 2
- » 26887-HYD-XX-XX-DR-TP-0052: E-REFUSE VEHICLE TURNING AND PASSING 10m RIGID
- » 26887-HYD-XX-XX-DR-TP-0053: 10m RIGID PASSING AN E-REFUSE VEHICLE IN CENTRE OF SITE
- » 26887-HYD-XX-XX-DR-TP-0054: 10m RIGID PASSING AN E-REFUSE VEHICLE AT THE SOUTHERN BEND 1
- » 26887-HYD-XX-XX-DR-TP-0055: 10m RIGID PASSING AN E-REFUSE VEHICLE AT THE SOUTHERN BEND 2

2. Proposed Development

- 2.1.1 The current proposals are for 17 residential dwellings, a reduction of two from the previous plans. This is comprised of ten 3-bed and seven 4-bed houses arranged into terraces and a respite care centre to the south. The respite centre remains as proposed in the original planning submission.
- 2.1.2 The access into the site will be a continuation of Amethyst Lane, as shown in the site masterplan. This access continues through the site in a broadly north-south orientation with a turning area provided at the northern end.

- 2.1.3 The alignment of the internal road network has been improved in response to highway officer comments, with the deflection at the bend in the centre of the site reduced to allow a straighter vehicle path through this.

3. Trip Generation

- 3.1.1 The previous site layout was for 21 dwellings and was anticipated to generate 7 two-way trips in the AM peak hour and 9 in the PM peak hour. The current proposal is for 17 dwellings. This quantum is anticipated to generate 6 two-way trips in the AM peak hour and 7 in the PM peak hour.
- 3.1.2 The new trip generation would be slightly lower and therefore the conclusions presented in the original Transport Statement (26887-HYD-XX-XX-RP-TP-4001) remain valid.
- 3.1.3 The respite centres trip generation remains unchanged from the previous submission.

4. Car Access

4.1 Overview

- 4.1.1 Tracking for a large car has been undertaken throughout the site. This demonstrates that two large cars can pass one another in all locations throughout the site, except for the exit of the eastern side of the turning area to the north.
- 4.1.2 It has been demonstrated in the drawings appended that a large car turning left has a forward visibility of at least 31.6m, which approximately corresponds to a 25mph design speed. This is considered to be greater than the likely speed of vehicles travelling through the site.
- 4.1.3 Overall, the layout is considered acceptable and it is noted that the frequency of two vehicles making entering and exiting movements would be low because of the sites trip generation.

5. Car Parking

- 5.1.1 The current scheme includes 18 car parking spaces associated with the 17 residential dwellings, all accessed from Amethyst Lane. All resident parking spaces are served with active EV charging.
- 5.1.2 Tracking drawings demonstrating that a large car can access these spaces are provided in Appendix A.
- 5.1.3 An additional five spaces and a minibus space are provided for the respite centre in a courtyard. This is unchanged from that presented in the original transport statement (26887-HYD-XX-XX-RP-TP-4001).

6. Deliveries and servicing

6.1 Overview

- 6.1.1 Vehicle tracking has been provided in Appendix A which demonstrates the site can be accessed by the following vehicles.
- » 10m rigid - Proxy for fire tender
 - » Phoenix 2 High Capacity Twin Pack 15 (with Elite 2 6x2ML chassis)

- » Dennis Eagle 6x2 RS eCollect
- » 7.5t box van

6.1.2 The layout has been designed to cater for delivery and servicing vehicles entering via Amethyst Lane and using the turning area to the north of the site.

6.2 Respite centre deliveries and servicing

6.2.1 A dedicated loading bay has been provided to allow for servicing of the respite centre using a 7.5t box van. The vehicle tracking included in Appendix A shows that this can be accessed.

6.3 Northern turning area (residential)

6.3.1 The northern turning area within the site has been designed to accommodate the turning of the design vehicles and the vehicle tracking is included in Appendix A.

6.3.2 The trip generation of the site has been reviewed and set out in the transport statement submitted as part of the planning application and from this it is forecast that there will not be two 10m rigid sized vehicles entering and exiting the site at the same time.

6.3.3 However, the tracking provided has sought to demonstrate that two 10m rigid HGVs can use the turning head at the same time, with the exiting vehicle giving way to the vehicle entering.

6.3.4 The existing vehicle will be able to see to two key points in the sites' internal road network where the swept path analysis shows that two 10m rigid vehicles can pass one another without having to make a reversing manoeuvre. The forward visibility measurements of 56.3m and 39.5m are shown in the drawing included in Appendix A.

6.3.5 It is acknowledged that the longer visibility splay crosses the car parking bays, but as noted in Paragraph 7.6.3 of Manual for Streets the eye height for lorry drivers is 2m, and therefore would be above the height of the majority of large cars. It is also noted that Manual for Streets 2 allows for visibility splays to cross parked vehicles, and that the overall body height of a standard 10m rigid is 3.65m. This would be therefore visible above the top of the parked vehicles.

6.3.6 Two 10m rigids using this area is considered to be a worst-case scenario, but additional vehicle tracking has been undertaken in order to demonstrate that a refuse vehicle and 7.5t box van can enter the turning area while the 10m rigid waits to exit the site. This is also included in Appendix A.

6.4 Central bend

6.4.1 The central part of the site includes a bend which has been tracked to confirm that two 10m rigid HGVs can pass one another. The forward visibility available means that the entering and exiting vehicles have sight of one another prior to meeting in the centre of the site.

6.4.2 Additional tracking has been undertaken on the assumption that the two vehicles will attempt to negotiate this area at the same time. The vehicle tracking provided shows that it is possible for them to pass each other in stages.

- » The two vehicles arrive in the centre of the site

- » The southbound vehicles pauses its movement whilst the northbound vehicle passes alongside.
- » The southbound vehicle continues once the rear of the northbound vehicle has passed the front of the southbound vehicle.
- » The northbound vehicle continues once the southbound vehicle has moved on.

6.4.3 Two 10m rigids using this area is considered to be the likely worst-case scenario as these do not turn as easily as the other vehicles considered in this assessment. However, additional vehicle tracking has been undertaken in order to demonstrate that a refuse vehicle and 7.5t box van can pass the 10m rigid in the same manner.

6.5 Southern bend

Large car passing a 10m rigid

- 6.5.1 Tracking has been provided which demonstrates how a large car and a 10m rigid vehicle would pass one another at the bend to the south of the site. The tracking shows that a large car or 10m rigid can wait in a location that allows each other to pass, and that there would not be a need for any excessive reversing of vehicles.
- 6.5.2 Analysis in paragraph 3.3.46 of the transport statement submitted alongside the application indicates that 14.9m of visibility is appropriate given the design speed and low 85th percentile speed around the southern bend. All of the forward visibilities shown on the drawings appended (and set out above) exceed this and therefore the provision for a car passing a 10m rigid is considered to be acceptable as drivers will have sufficient time to make their decision to stop or proceed with their journey.
- 6.5.3 The manoeuvrability of a 10m rigid HGV is less than the refuse vehicle and 7.5t box van and therefore it is considered these do not need to be tracked passing a car around this bend as the conclusion drawn would be the same as that for the analysis of the 10m rigid.

10m rigid passing refuse vehicle

- 6.5.4 Whilst considered to be an unlikely scenario, a refuse vehicle has been tracked passing a 10m rigid. The analysis shows that there are locations either side of the southern bend where this can occur.
- 6.5.5 The area within the site requires the exiting vehicle to wait whilst the entering vehicles passes. The passing point west of the respite centre access requires the vehicles to pass side by side in a step-by-step movement, and it is considered the drivers will be able to achieve this.
- 6.5.6 Owing to the driver position in the vehicle, and the speeds of vehicles travelling around the corner it is considered there is sufficient forward visibility.

10m rigid passing 7.5t box van

- 6.5.7 A 7.5t box van is a shorter, narrower and more manoeuvrable vehicle than the refuse vehicle that has been tracked in this assessment. Therefore, it can be concluded that this will also be able to pass the 10m rigid in the same location as the refuse vehicle.

10m rigid passing an 10m rigid

- 6.5.8 The existing alignment of Amethyst Lane allows two 10m rigid HGVs to pass in specific locations and the vehicle tracking included in Appendix A shows where vehicles entering

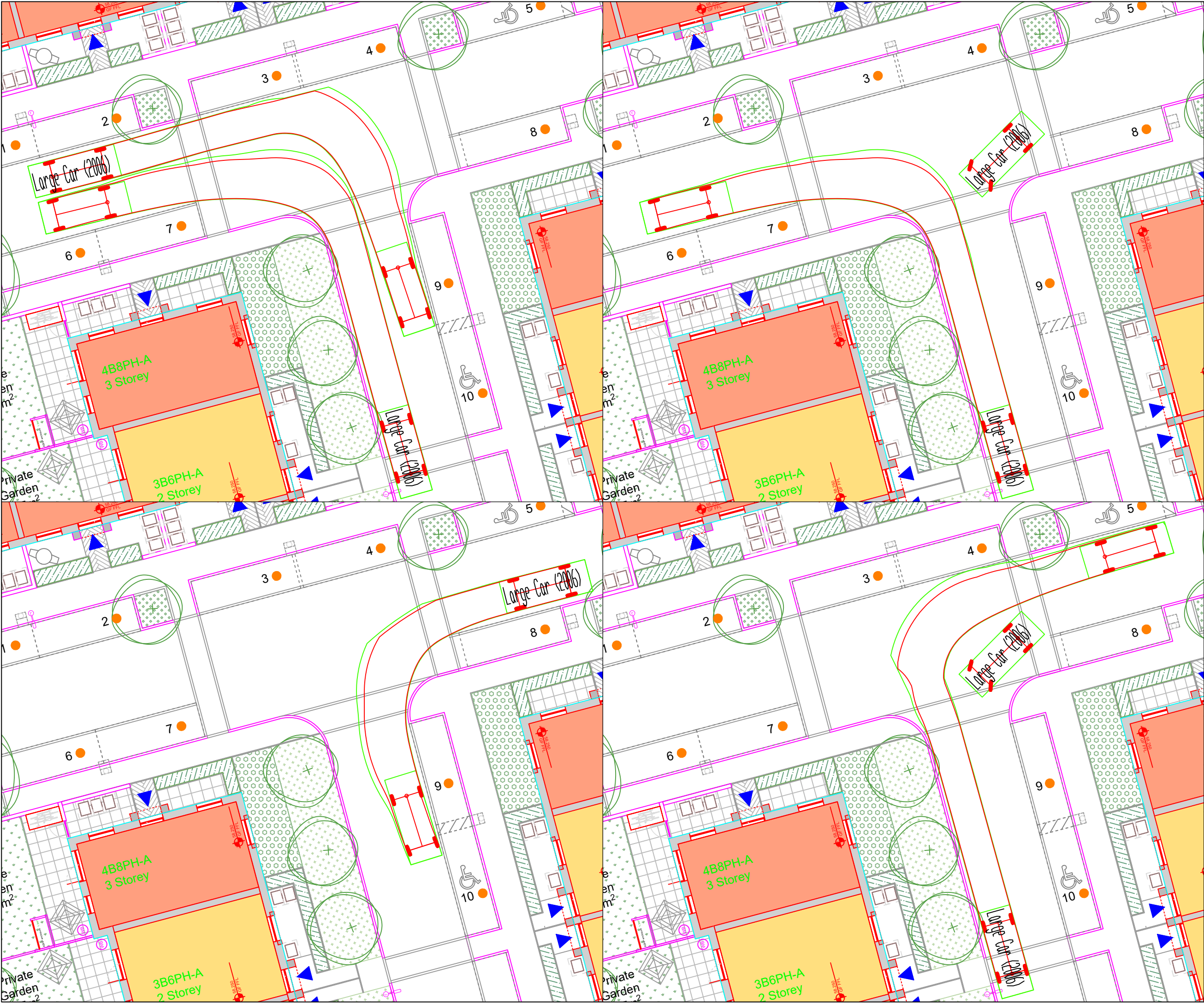
and exiting would need to wait in the extremely infrequent situation where two 10m rigid HGVs are entering and exiting the site at the same time (it is noted that the forecast trip generation demonstrated that two 10m rigid HGVs would not be entering and exiting the site at the same time).

- 6.5.9 Forward visibility envelopes have been drawn for the larger vehicles entering and exiting the and are shown in Appendix A. As noted previously the driver position (2m above the ground) and size of the 10m rigid vehicle allows for the driver to see and the approaching vehicle to be seen from the points where the 10m rigid HGVs can pass each other.

7. Summary

- 7.1.1 This Transport Statement Addendum has been prepared by Hydrock on behalf of Reading Borough Council to reflect layout changes to the proposed redevelopment of a site.
- 7.1.2 The revised layout has emerged from post-application comments from Reading Borough Councils planning and highways teams. Additional vehicle tracking has been undertaken and it is considered that this demonstrates the vehicles can enter and exit the site in forward gears.

Appendix A Vehicle Tracking and Visibility Drawings

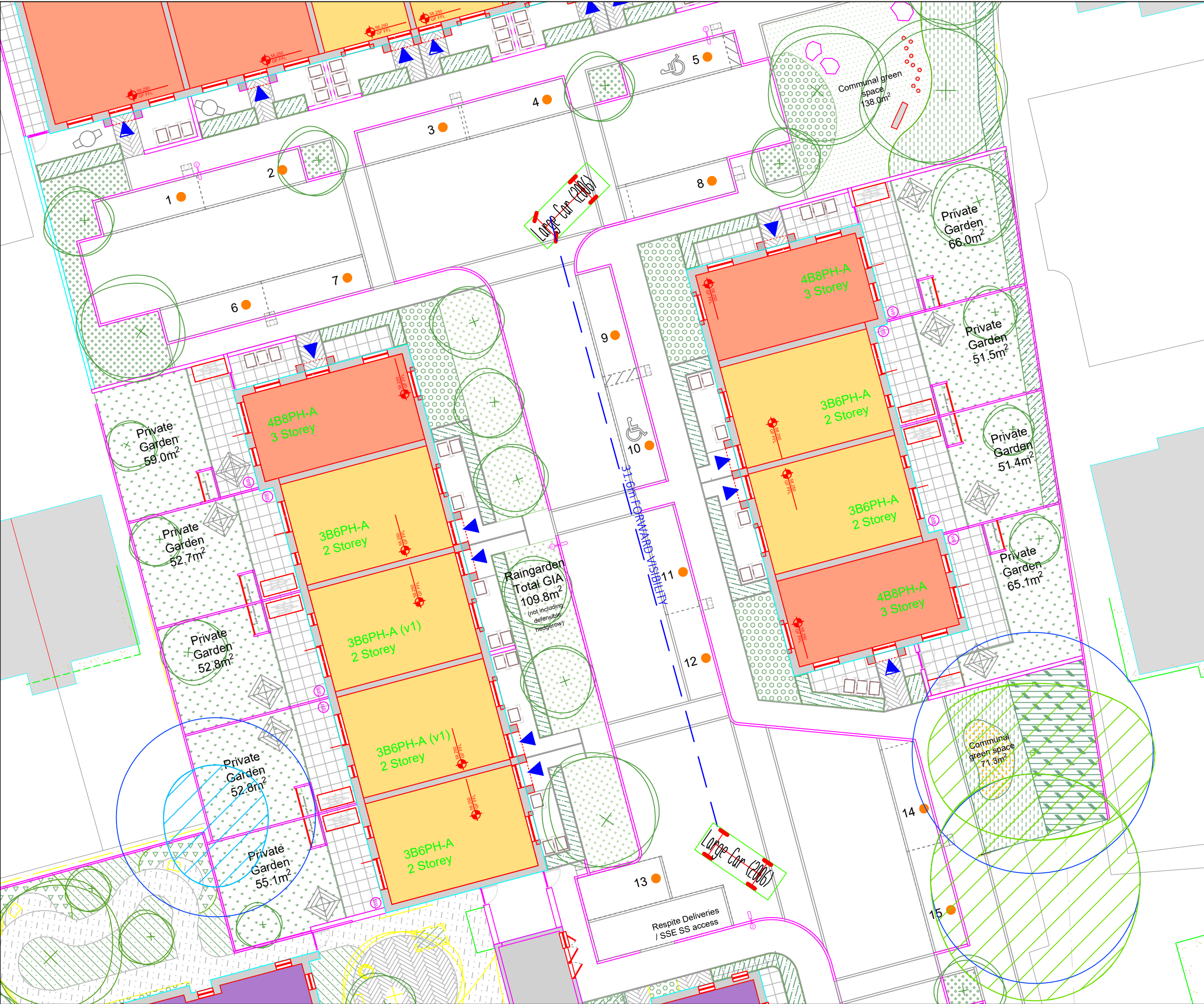


KEY PLAN	
Large Car (2006)	5.079m
Overall Length	1.872m
Overall Width	1.872m
Overall Body Height	1.350m
Min Body Ground Clearance	1.831m
Max Track Width	1.831m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	5.900m

NOTES

REVISIONS

FIRST ISSUE					
PO1	J. DALLEY	31/10/23	S. MOODY	31/10/23	S. MOODY
REVISION NOTES/COMMENTS					
REV	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY
Hydrock					
HYDROCK WHITE BUILDING 1-4 CUMBERLAND PLACE SOUTHAMPTON SO15 2NP t: +44 (0) 23 8214 0907 e: southampton@hydrock.com					
CLIENT					
READING BOROUGH COUNCIL					
PROJECT					
AMETHYST LANE, READING					
TITLE					
LARGE CAR PASSING IN TURNING AREA					
HYDROCK PROJECT NO.			SCALE @ A3		
26887			1:200		
STATUS DESCRIPTION					STATUS
SUITABLE FOR INFORMATION					S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)					REVISION
26887-HYD-XX-XX-DR-TP-0032					P01



KEY PLAN

Large Car (2006)
Overall Length 5.079m
Overall Width 1.872m
Overall Body Height 1.525m
Min Body Ground Clearance 1.310m
Max Track Width 1.831m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 5.900m

NOTES

REVISIONS

P01	FIRST ISSUE	J. DALLEY	31/10/23	S. MOODY	31/10/23	S. MOODY	31/10/23
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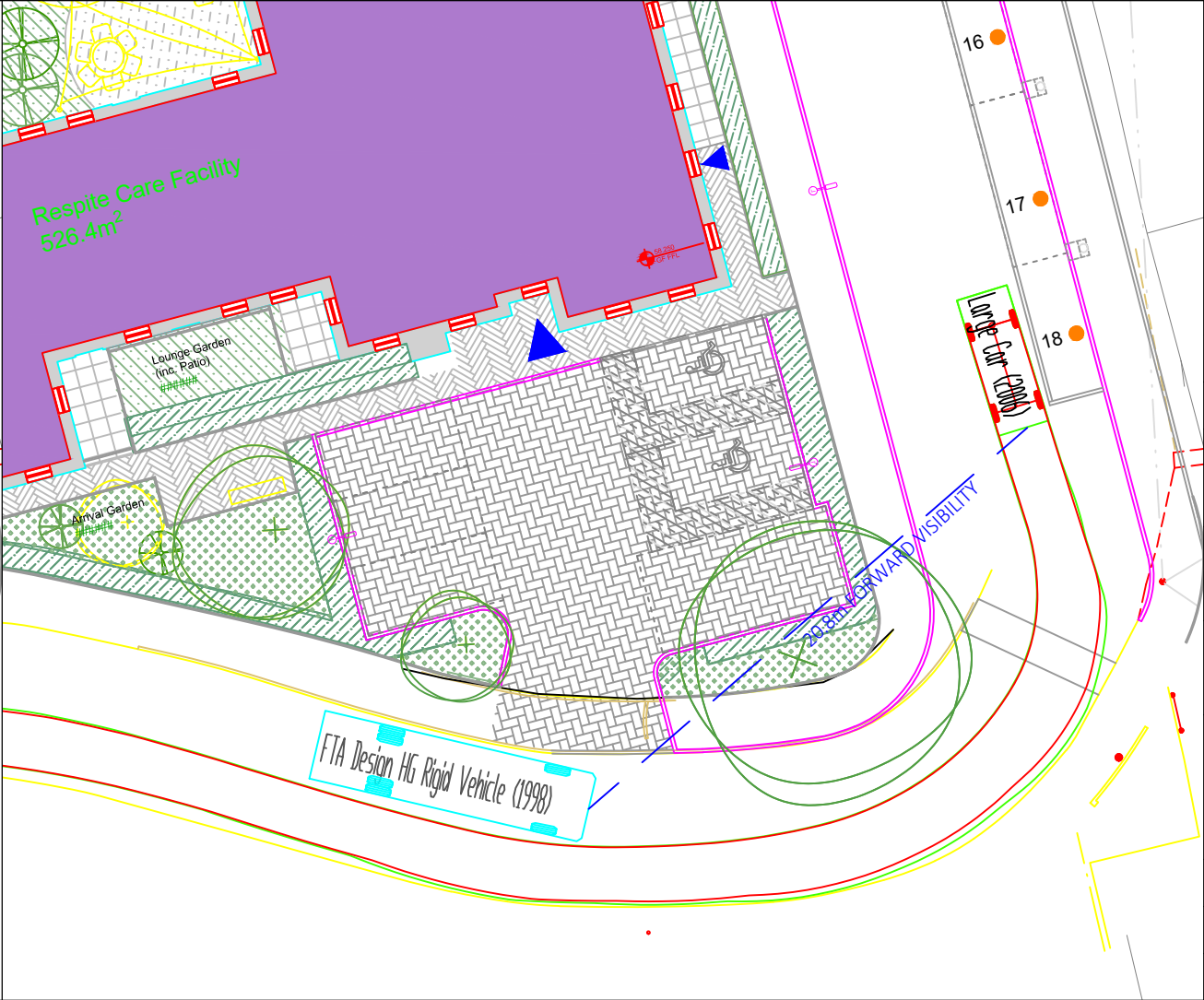
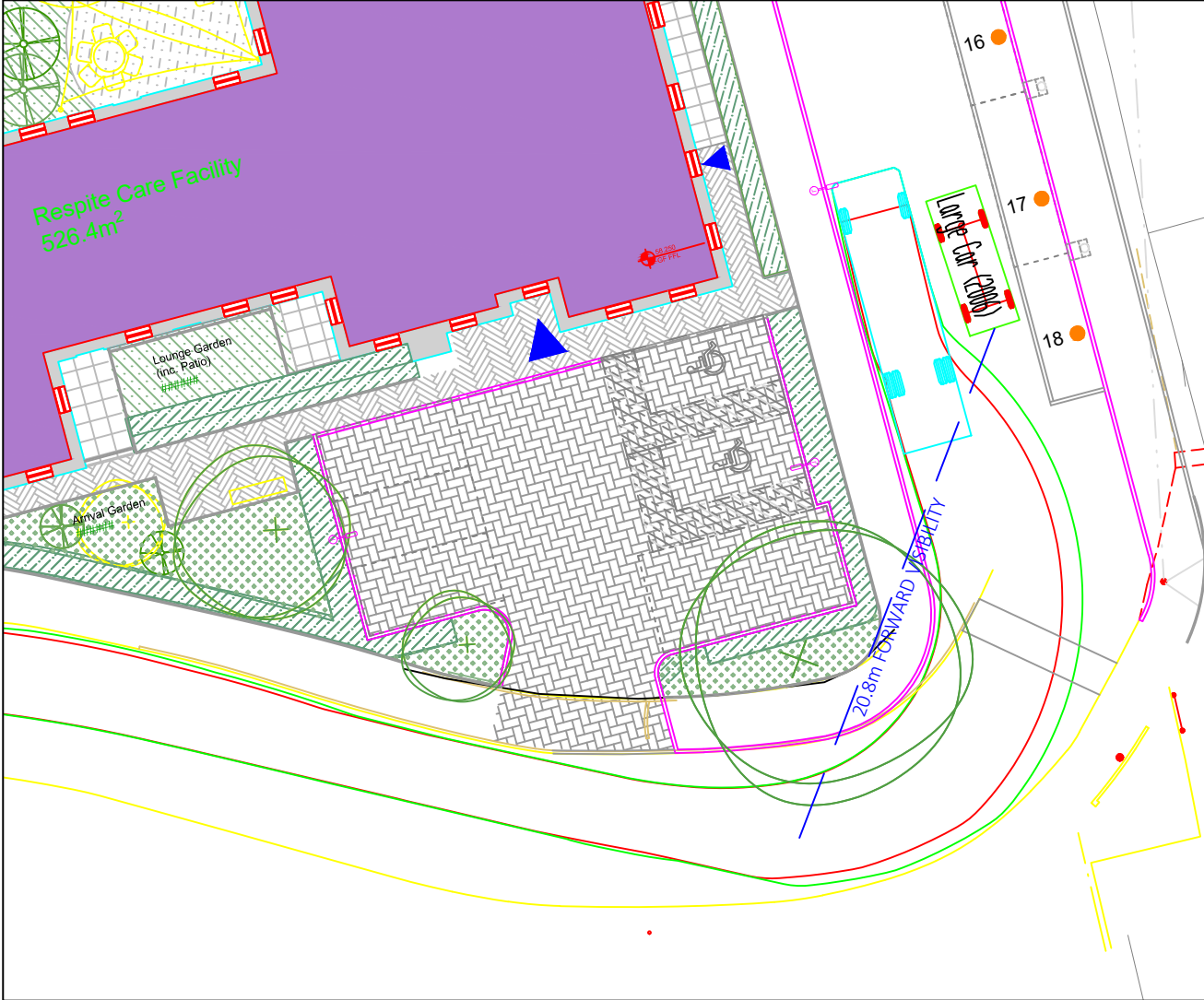
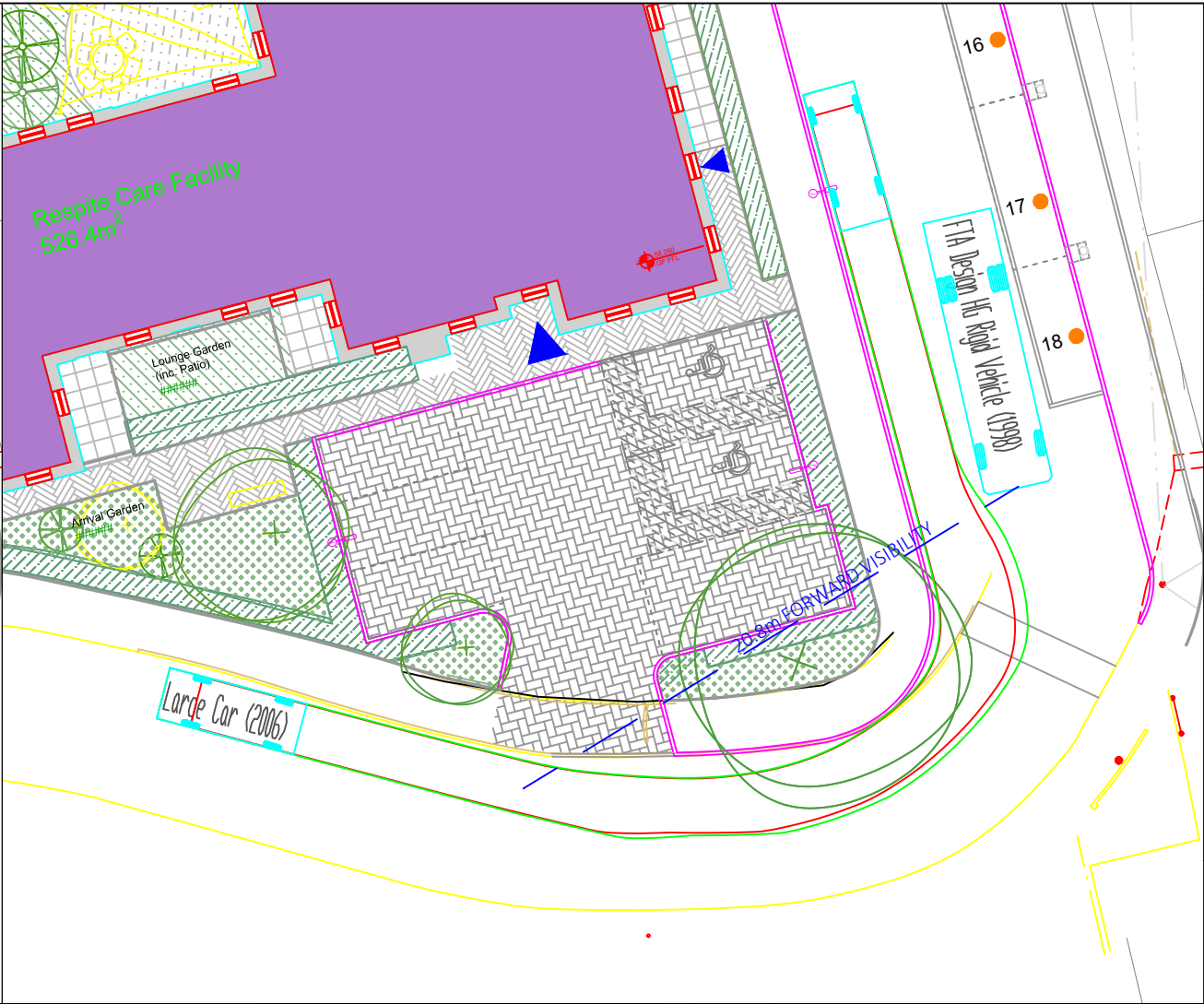
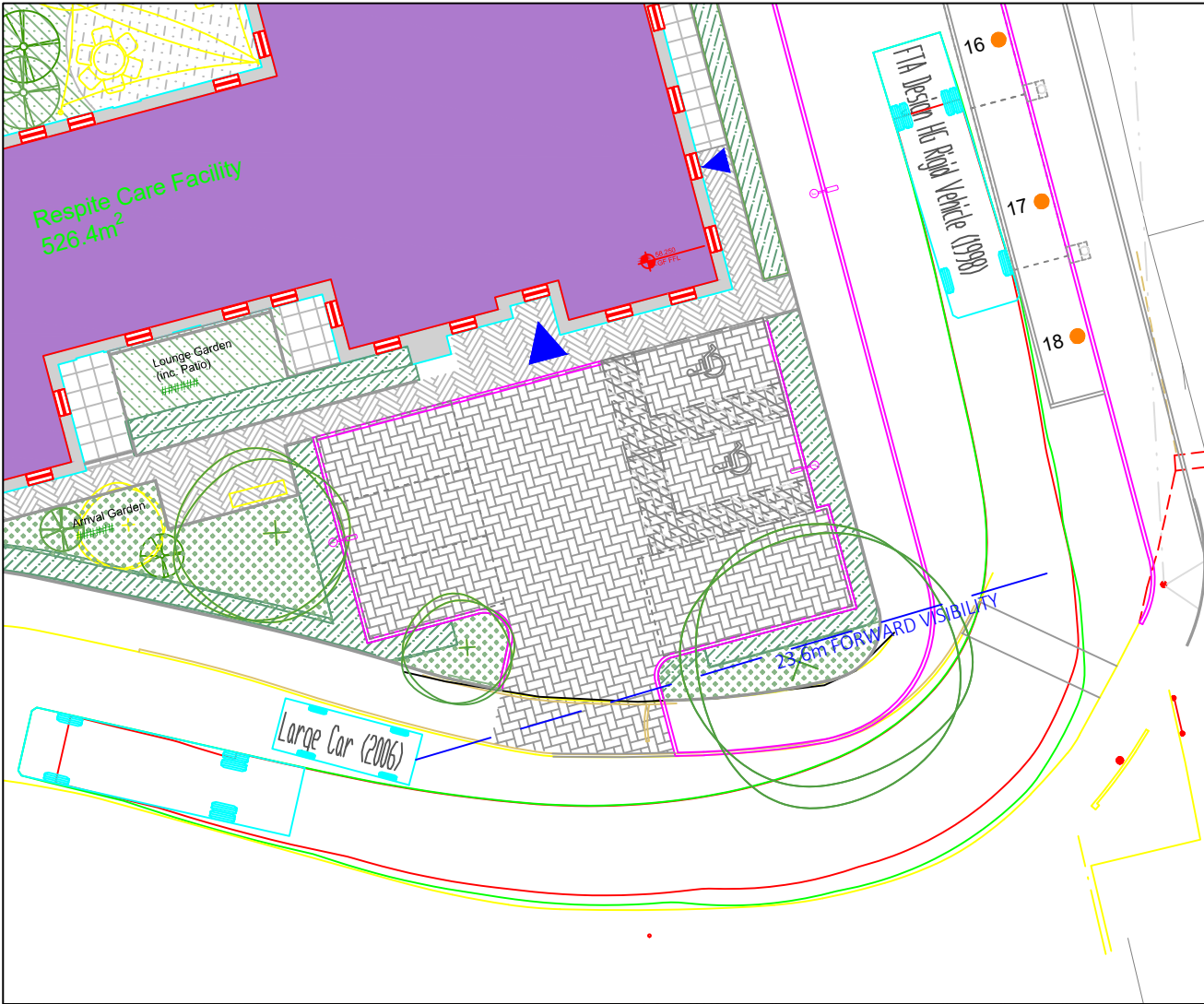
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TITLE
LARGE CAR FORWARD VISIBILITY

HYDROCK PROJECT NO. 26887	SCALE @ A3 1:200	STATUS S2
STATUS DESCRIPTION SUITABLE FOR INFORMATION		REVISION P01
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0033		



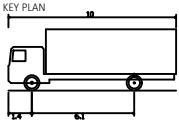
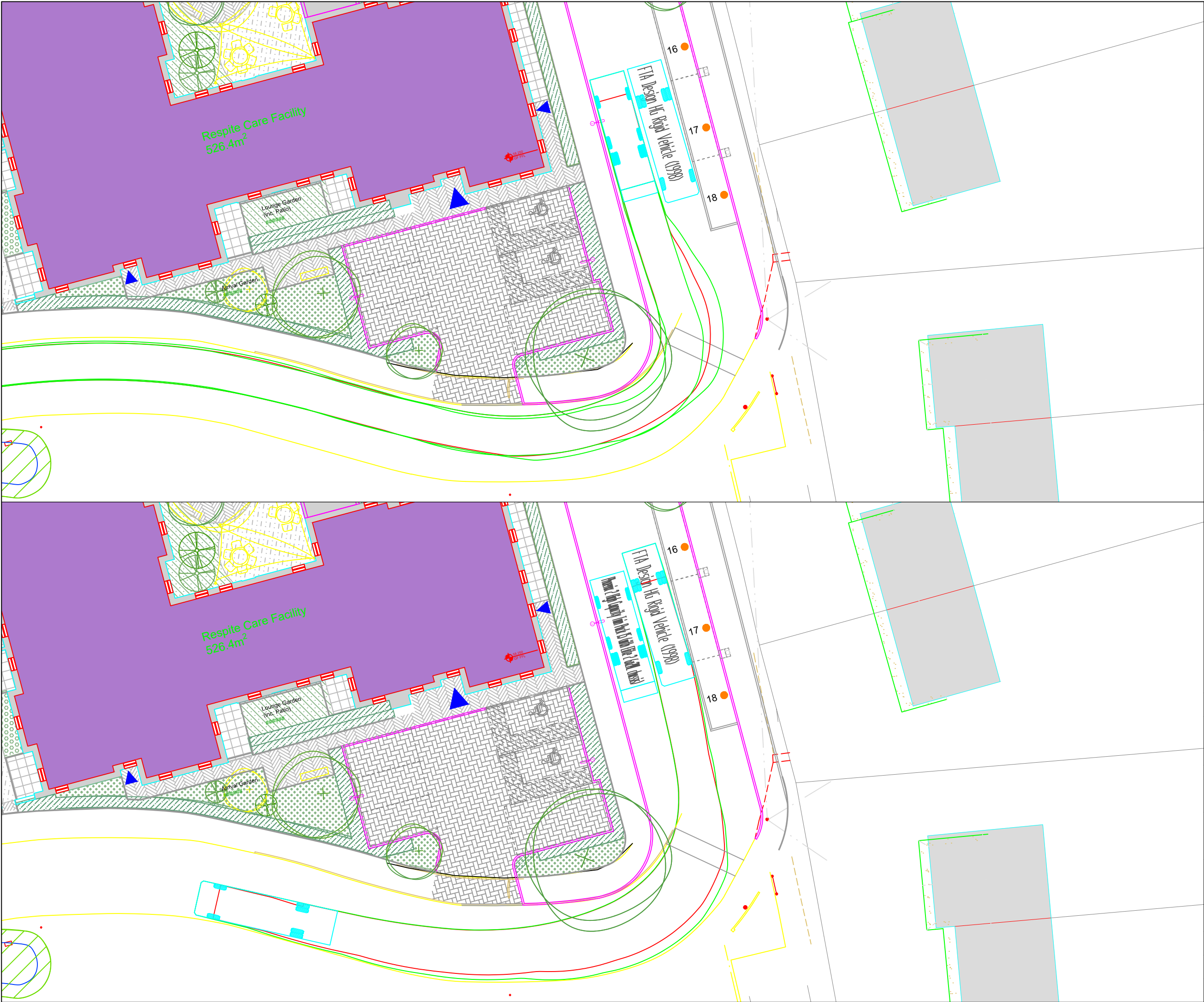
KEY PLAN	
Large Car (2006)	
Overall Length	5.079m
Overall Width	1.825m
Overall Body Height	1.825m
Min Body Ground Clearance	0.310m
Max Track Width	1.831m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	5.900m

NOTES	
FTA Design HG Rigid Vehicle (1998)	
Overall Length	10.000m
Overall Width	2.500m
Overall Body Height	3.645m
Min Body Ground Clearance	0.440m
Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m

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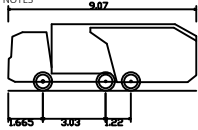
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REV	REVISION NOTES/COMMENTS			
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CLIENT	
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PROJECT	
AMETHYST LANE, READING	
TITLE	
10m RIGID PASSING LARGE CAR AT SOUTHERN BEND	
HYDROCK PROJECT NO.	
26887	SCALE @ A3
1:250	
STATUS DESCRIPTION	
SUITABLE FOR INFORMATION	
STATUS	
S2	
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	
26887-HYD-XX-XX-DR-TP-0034	REVISION
P01	



ETA Design HG Rigid Vehicle (1998)
Overall Length 10.00m
Overall Width 3.20m
Overall Body Height 3.20m
Min Body Ground Clearance 2.40m
Track Width 2.40m
Lock to lock time 3.00s
Kerb to Kerb Turning Radius 11.00m

NOTES



Phoenix 2 High Capacity Twin Pack 15 (with EL)
Overall Length 9.07m
Overall Width 3.21m
Overall Body Height 3.21m
Min Body Ground Clearance 0.41m
Track Width 2.53m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 7.80m

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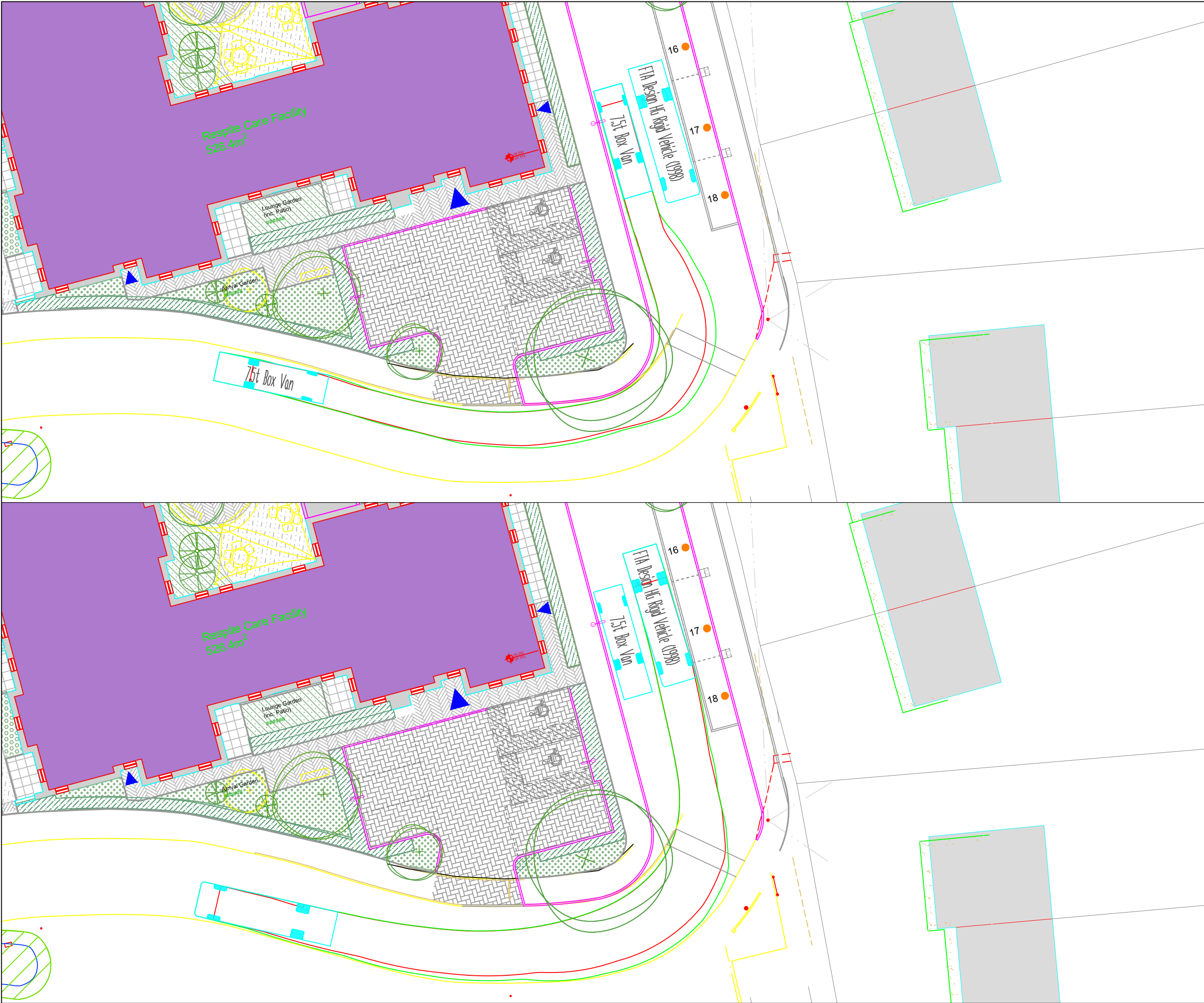
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CLIENT
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PROJECT
AMETHYST LANE, READING

TITLE
10m RIGID PASSING REFUSE VEHICLE AT
SOUTHERN BEND

HYDROCK PROJECT NO. 26887		SCALE @ A3 1:250	
STATUS DESCRIPTION SUITABLE FOR INFORMATION			STATUS S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0035			REVISION P01



KEY PLAN	
FTA Design Hg Rigid Vehicle (1998)	
Overall Length	10.000m
Overall Width	2.500m
Overall Body Height	3.245m
Min Body Ground Clearance	0.444m
Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m

NOTES	
7.5t Box Van	
Overall Length	8.010m
Overall Width	2.100m
Overall Body Height	3.356m
Min Body Ground Clearance	0.351m
Track Width	2.064m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	7.400m

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PO1	FIRST ISSUE			
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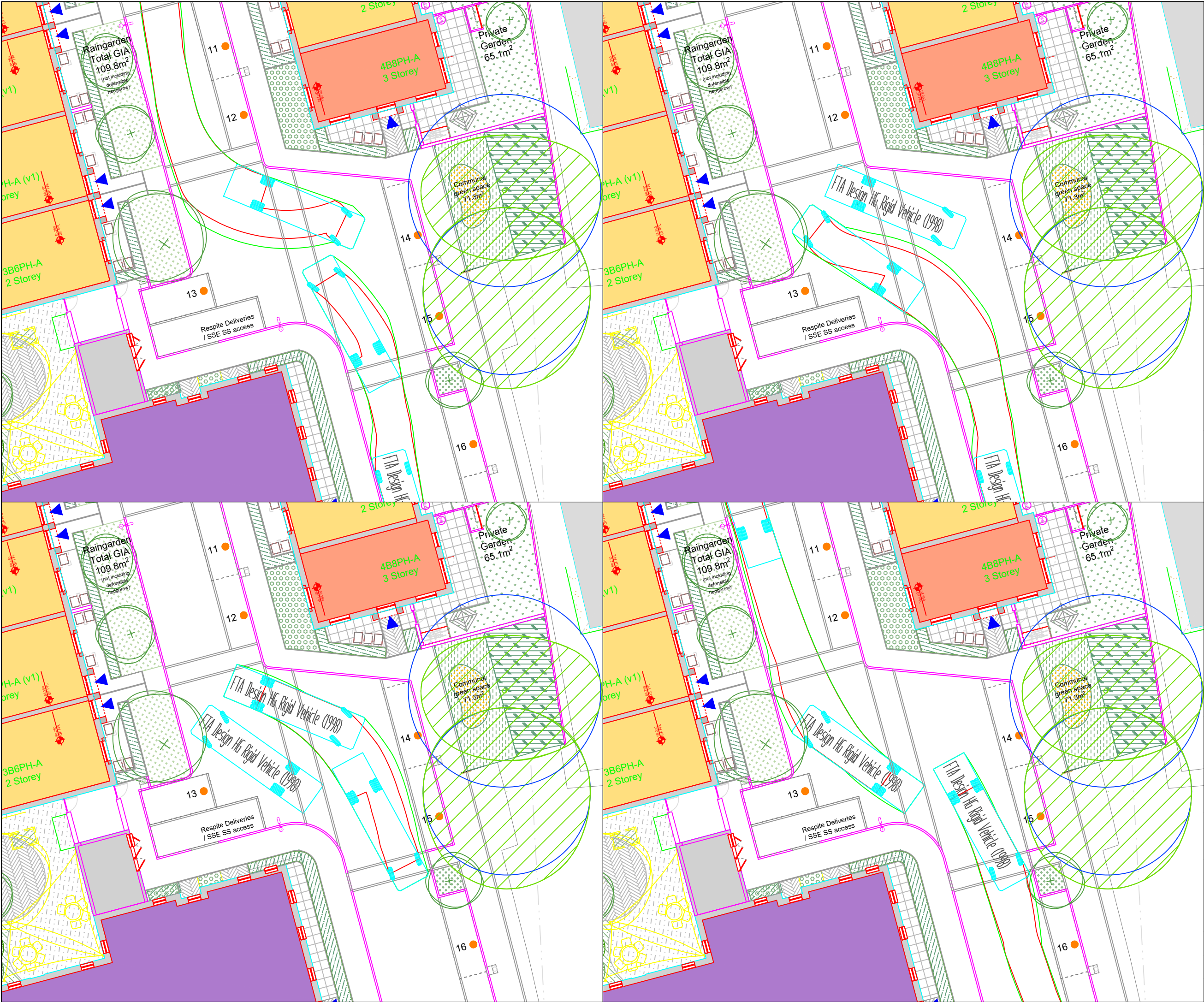
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PROJECT	
AMETHYST LANE, READING	

TITLE	
10m RIGID PASSING 7.5t BOX VAN AT SOUTHERN BEND	

HYDROCK PROJECT NO.		SCALE @ A3	
26887		1:250	
STATUS DESCRIPTION			STATUS
SUITABLE FOR INFORMATION			S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)			REVISION
26887-HYD-XX-XX-DR-TP-0036			P01



KEY PLAN

FTA Design HG Rigid Vehicle (1998)

Overall Length	10.000m
Overall Width	2.500m
Overall Body Height	3.645m
Min Body Ground Clearance	2.440m
Track Width	2.470m
Lock to lock time	3.005s
Kerb to Kerb Turning Radius	11.000m

NOTES

REVISIONS

FIRST ISSUE				
P01	J. DALLEY	01/11/23	S. MOODY	01/11/23
REVISION NOTES/COMMENTS				
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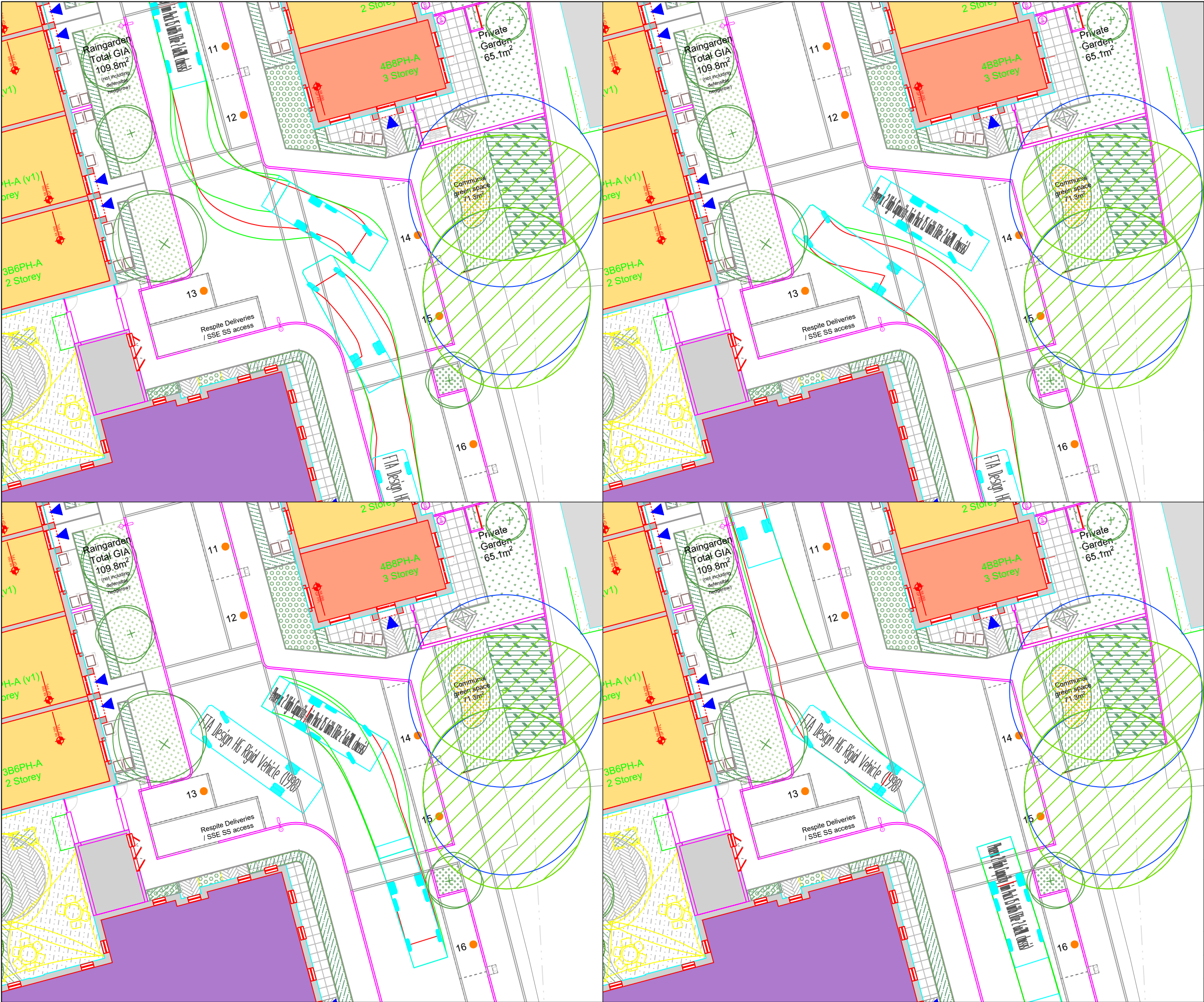
PROJECT

AMETHYST LANE, READING

TITLE

TWO 10m RIGID VEHICLES PASSING IN CENTRE OF SITE

HYDROCK PROJECT NO.		SCALE @ A3	
26887		1:250	
STATUS DESCRIPTION			STATUS
SUITABLE FOR INFORMATION			S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)			REVISION
26887-HYD-XX-XX-DR-TP-0037			P01



KEY PLAN

ETA Design HG Rigid Vehicle (1998)
Overall Length 10.000m
Overall Width 2.500m
Overall Body Height 3.645m
Min Body Ground Clearance 3.440m
Track Width 2.470m
Lock to lock time 3.005s
Kerb to Kerb Turning Radius 11.000m

NOTES

Phoenix 2 High Capacity Twin Pack 15 (w)
Overall Length 9.070m
Overall Width 2.530m
Overall Body Height 3.211m
Min Body Ground Clearance 2.530m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 7.800m

REVISIONS

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P01	FIRST ISSUE	01/11/23	J. DALLEY	S. MOODY	01/11/23	S. MOODY	01/11/23

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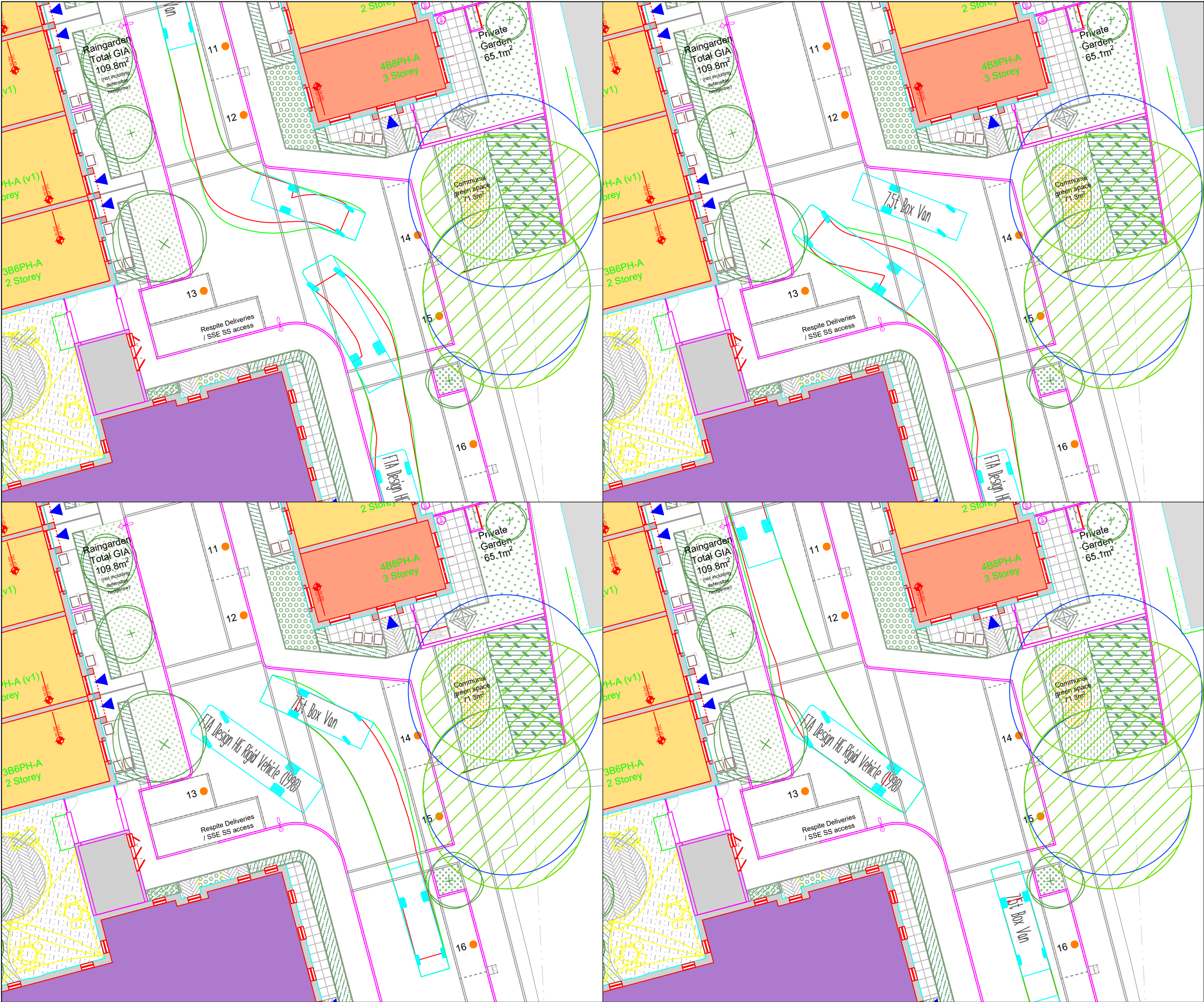
PROJECT

AMETHYST LANE, READING

TITLE

10m RIGID PASSING A REFUSE VEHICLE
IN CENTRE OF SITE

HYDROCK PROJECT NO.	SCALE @ A3
26887	1:250
STATUS DESCRIPTION	STATUS
SUITABLE FOR INFORMATION	S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
26887-HYD-XX-XX-DR-TP-0038	P01



KEY PLAN

FTA Design HG Rigid Vehicle (1998)

Overall Length	10.000m
Overall Width	2.500m
Overall Body Height	3.645m
Min Body Ground Clearance	0.440m
Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m

NOTES

7.5t Box Van

Overall Length	8.010m
Overall Width	2.100m
Overall Body Height	3.556m
Min Body Ground Clearance	0.351m
Track Width	2.064m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	7.400m

REVISIONS

REV	DATE	DESCRIPTION
1	01/11/23	Initial Issue

CLIENT

READING BOROUGH COUNCIL

PROJECT

AMETHYST LANE, READING

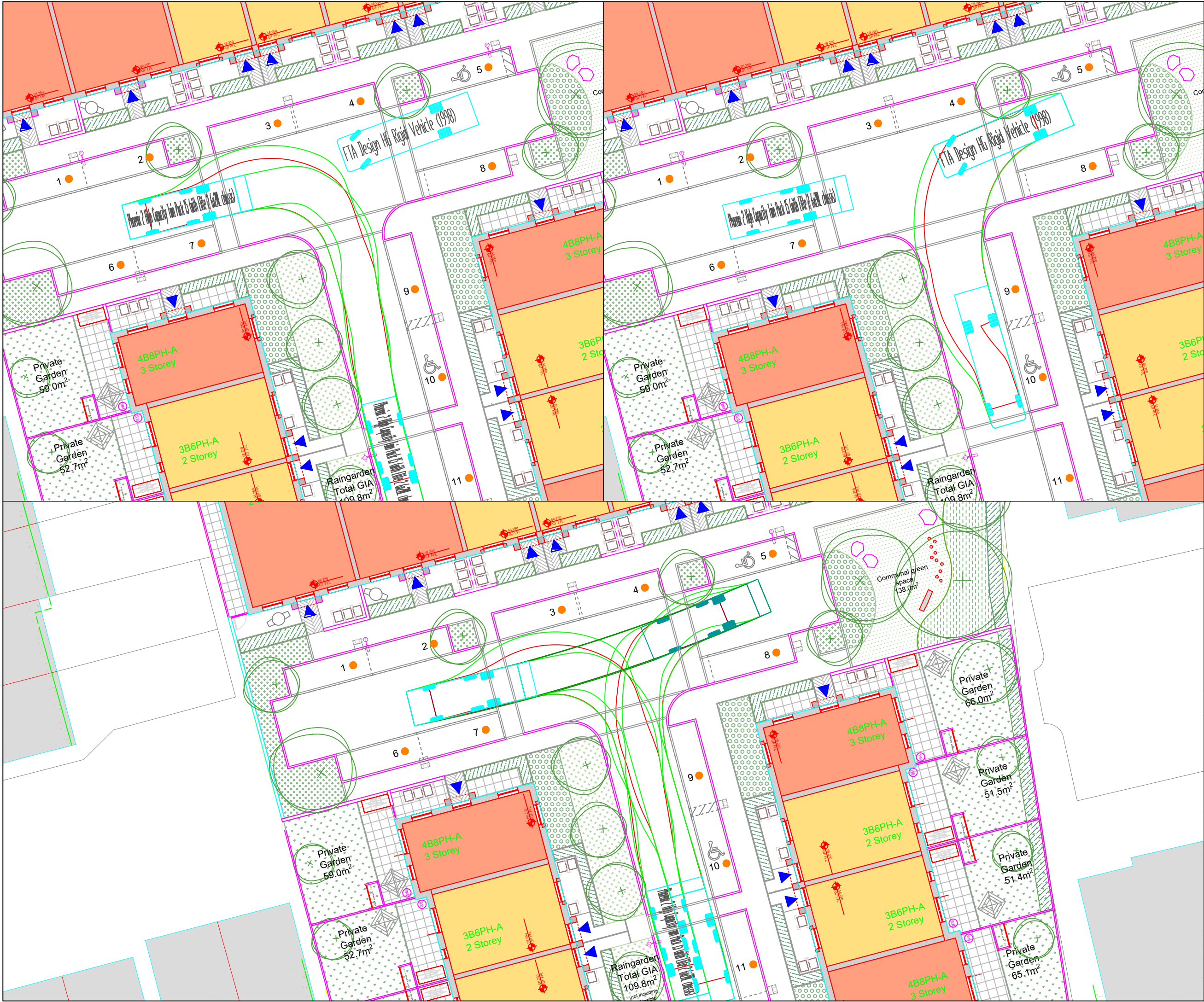
TITLE

10m RIGID PASSING A 7.5t BOX VAN
IN CENTRE OF SITE

HYDROCK PROJECT NO.	SCALE @ A3
26887	1:250
STATUS DESCRIPTION	STATUS
SUITABLE FOR INFORMATION	S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
26887-HYD-XX-XX-DR-TP-0039	P01

HYDROCK

WHITE BUILDING
1-4 CUMBERLAND PLACE
SOUTHAMPTON
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e: southampton@hydrock.com



KEY PLAN

Phoenix 2 High Capacity Twin Pack 15 (with Elite 2 6x2)

Overall Length

9.070m

Overall Width

2.530m

Overall Body Height

3.211m

Min Body Ground Clearance

0.416m

Track Width

2.530m

Lock to lock time

2.700s

Kerb to Kerb Turning Radius

7.800m

NOTES

FTA Design HG Rigid Vehicle (1998)

Overall Length

10.000m

Overall Width

2.500m

Overall Body Height

3.645m

Min Body Ground Clearance

0.440m

Track Width

2.470m

Lock to lock time

3.000s

Kerb to Kerb Turning Radius

11.000m

REVISIONS

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P01

J. DALLEY

02/11/23

S. MOODY

02/11/23

S. MOODY

02/11/23

REVISION NOTES/COMMENTS

REV

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

Hydrock

HYDROCK
WHITE BUILDING
1-4 CUMBERLAND PLACE
SOUTHAMPTON
SO15 2NP
t: +44 (0)23 8214 0907
e: southampton@hydrock.com

CLIENT

READING BOROUGH COUNCIL

PROJECT

AMETHYST LANE, READING

TITLE

REFUSE VEHICLE TURNING AND PASSING
10m RIGID

HYDROCK PROJECT NO.

26887

SCALE @ A3

1:250

STATUS DESCRIPTION

SUITABLE FOR INFORMATION

STATUS

S2

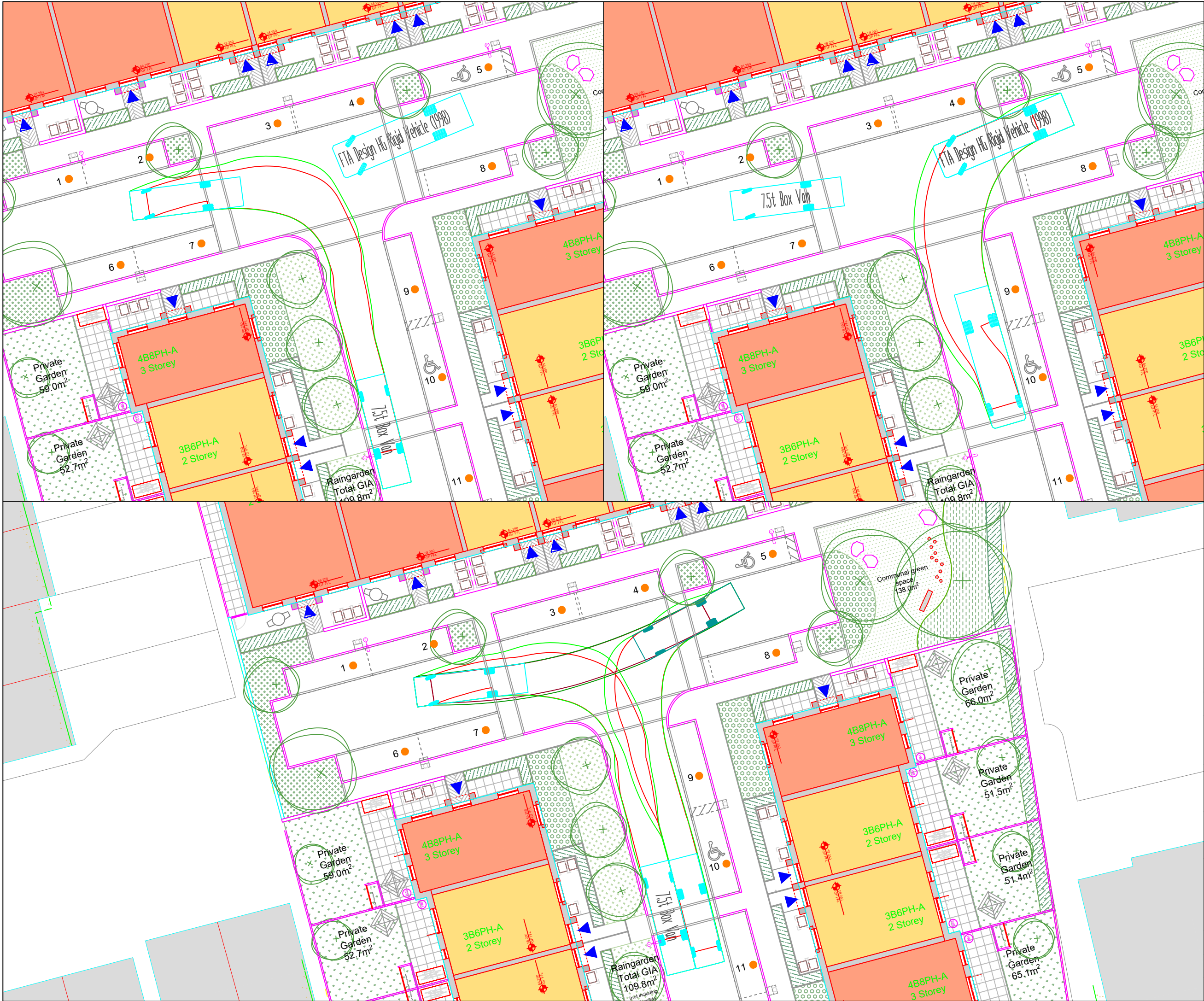
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)

26887-HYD-XX-XX-DR-TP-0041

REVISION

P01

Printed 02/11/2023



KEY PLAN

7.5t Box Van
Overall Length 8.010m
Overall Width 2.100m
Overall Body Height 3.550m
Min Body Ground Clearance 0.351m
Track Width 2.645m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 7.400m

NOTES

FTA Design HG Rigid Vehicle (1998)
Overall Length 10.000m
Overall Width 2.500m
Overall Body Height 3.645m
Min Body Ground Clearance 0.440m
Track Width 2.470m
Lock to lock time 3.00s
Kerb to Kerb Turning Radius 11.000m

REVISIONS

REV	DATE	DESCRIPTION
1	02/11/23	Issue for comment

PO1	J. DALLEY	02/11/23	S. MOODY	02/11/23	S. MOODY	02/11/23
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REVISION NOTES/COMMENTS

REV	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
1	J. DALLEY	02/11/23	S. MOODY	02/11/23	S. MOODY	02/11/23

Hydrock
HYDROCK WHITE BUILDING
1-4 CUMBERLAND PLACE
SOUTHAMPTON
SO15 2NP
t: +44 (0)23 8214 0907
e: southampton@hydrock.com

CLIENT
READING BOROUGH COUNCIL

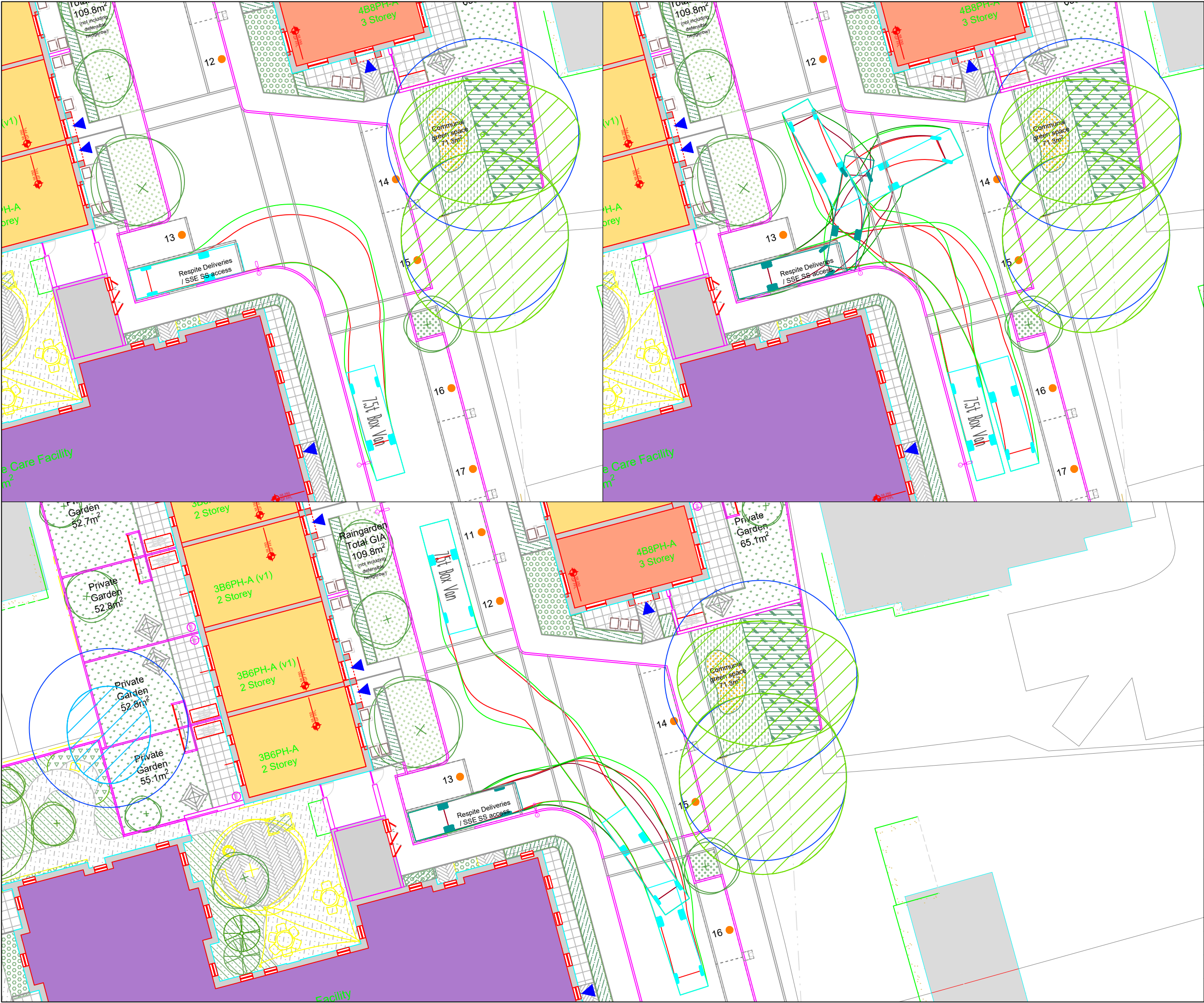
PROJECT
AMETHYST LANE, READING

TITLE
7.5t BOX VAN VEHICLE TURNING AND PASSING
10m RIGID

HYDROCK PROJECT NO. 26887	SCALE @ A3 1:250	STATUS S2
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SUITABLE FOR INFORMATION	REVISION P01
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DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)
26887-HYD-XX-XX-DR-TP-0042



KEY PLAN

7.5t Box Van

Overall Length8.010m

Overall Width2.100m

Overall Body Height2.550m

Min Body Ground Clearance0.351m

Track Width4.004m

Lock to lock time4.004m

Kerb to Kerb Turning Radius7.400m

NOTES

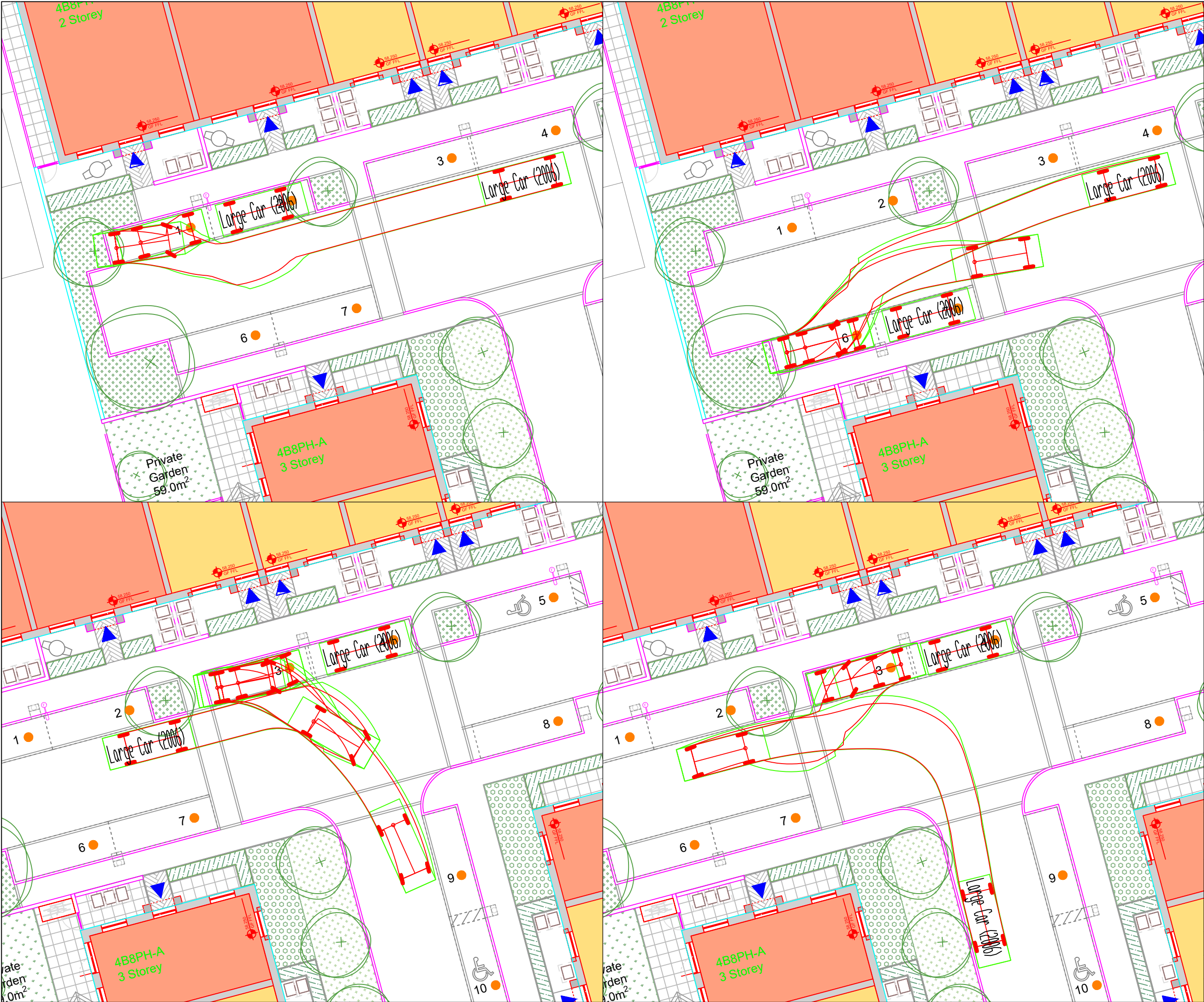
REVISIONS

P01	FIRST ISSUE			
	J. DALLEY	02/11/23	S. MOODY	02/11/23
REV	REVISION NOTES/COMMENTS			
	DRAWN BY	DATE	CHECKED BY	DATE

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HYDROCK
WHITE BUILDING
1-4 CUMBERLAND PLACE
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e: southampton@hydrock.com

CLIENT		READING BOROUGH COUNCIL	
PROJECT		AMETHYST LANE, READING	
TITLE		7.5t BOX VAN ACCESSING LOADING BAY	
HYDROCK PROJECT NO.		SCALE @ A3	
26887		1:250	
STATUS DESCRIPTION		STATUS	
SUITABLE FOR INFORMATION		S2	
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)		REVISION	
26887-HYD-XX-XX-DR-TP-0043		P01	



Large Car (2006)

Overall Length 5.072m

Overall Width 1.872m

Overall Body Height 1.525m

Min Body Ground Clearance 0.310m

Max Track Width 1.831m

Lock to lock time 4.805m

Kerb to Kerb Turning Radius 9.500m

NOTES

REVISIONS

P01	FIRST ISSUE	J. DALLEY	02/11/23	S. MOODY	02/11/23	S. MOODY	02/11/23
REV	REVISION NOTES/COMMENTS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

HYDROCK
WHITE BUILDING
1-4 CUMBERLAND PLACE
SOUTHAMPTON
SO15 2NP
t: +44 (0)23 8214 0907
e: southampton@hydrock.com

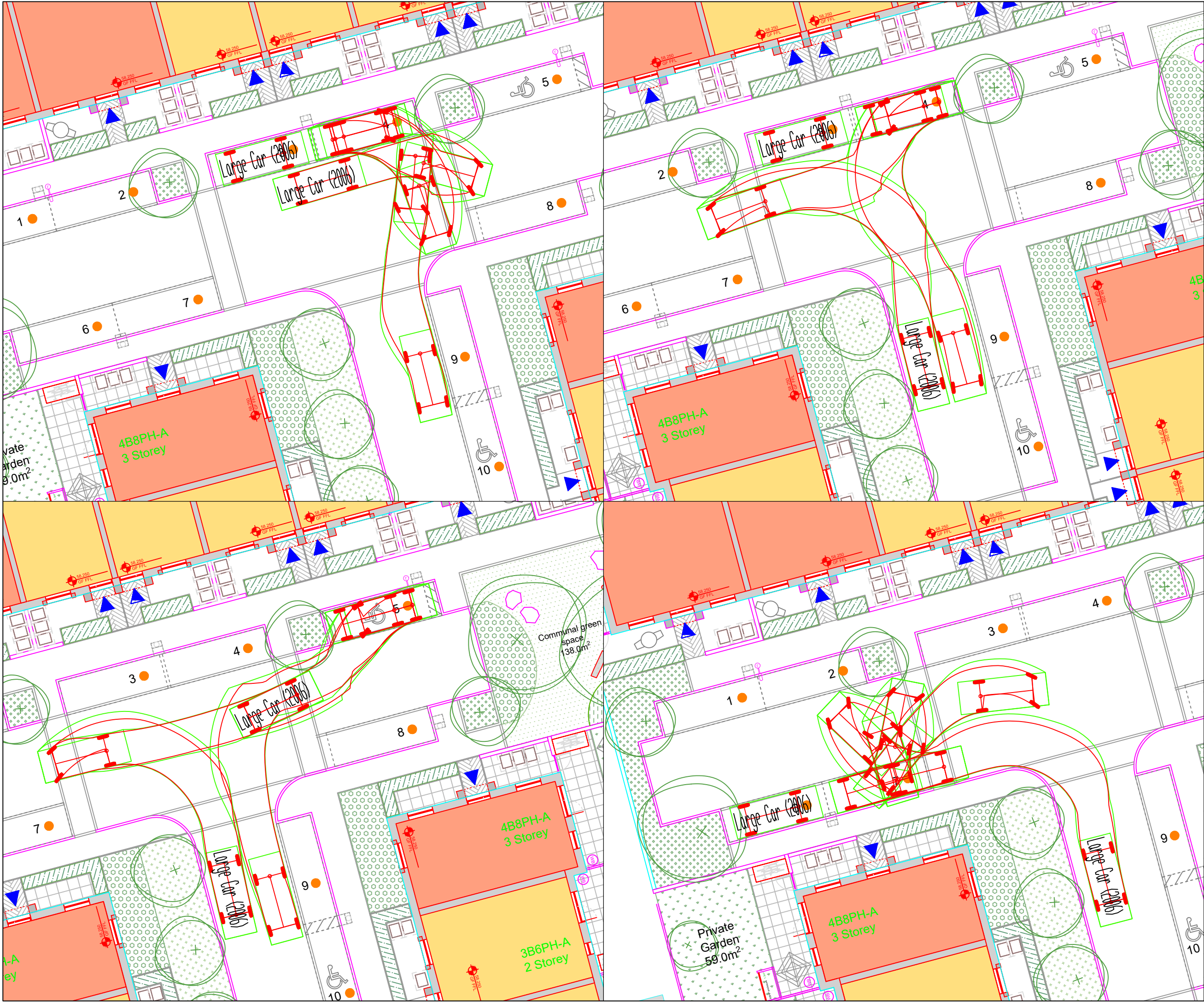
CLIENT
READING BOROUGH COUNCIL

PROJECT
AMETHYST LANE, READING

TITLE
LARGE CAR ACCESSING PARKING BAYS 1

HYDROCK PROJECT NO. 26887	SCALE @ A3 1:200	STATUS S2
STATUS DESCRIPTION SUITABLE FOR INFORMATION		REVISION P01
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0044		

Plotting 02/11/2023





KEY PLAN

Large Car (2006)

Overall Length	5.072m
Overall Width	1.872m
Overall Body Height	1.525m
Min Body Ground Clearance	0.310m
Max Track Width	1.831m
Lock to lock time	4.805s
Kerb to Kerb Turning Radius	5.900m

NOTES

REVISIONS

PO1	FIRST ISSUE	J. DALLEY	02/11/23	S. MOODY	02/11/23	S. MOODY	02/11/23
REV	REVISION NOTES/COMMENTS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE



HYDROCK
WHITE BUILDING
1-4 CUMBERLAND PLACE
SOUTHAMPTON
SO15 2NP
t: +44 (0)23 8214 0907
e: southampton@hydrock.com

CLIENT
READING BOROUGH COUNCIL

PROJECT
AMETHYST LANE, READING

TITLE
LARGE CAR ACCESSING PARKING BAYS 2

HYDROCK PROJECT NO. 26887	SCALE @ A3 1:200	STATUS S2
STATUS DESCRIPTION SUITABLE FOR INFORMATION		REVISION P01
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0045		

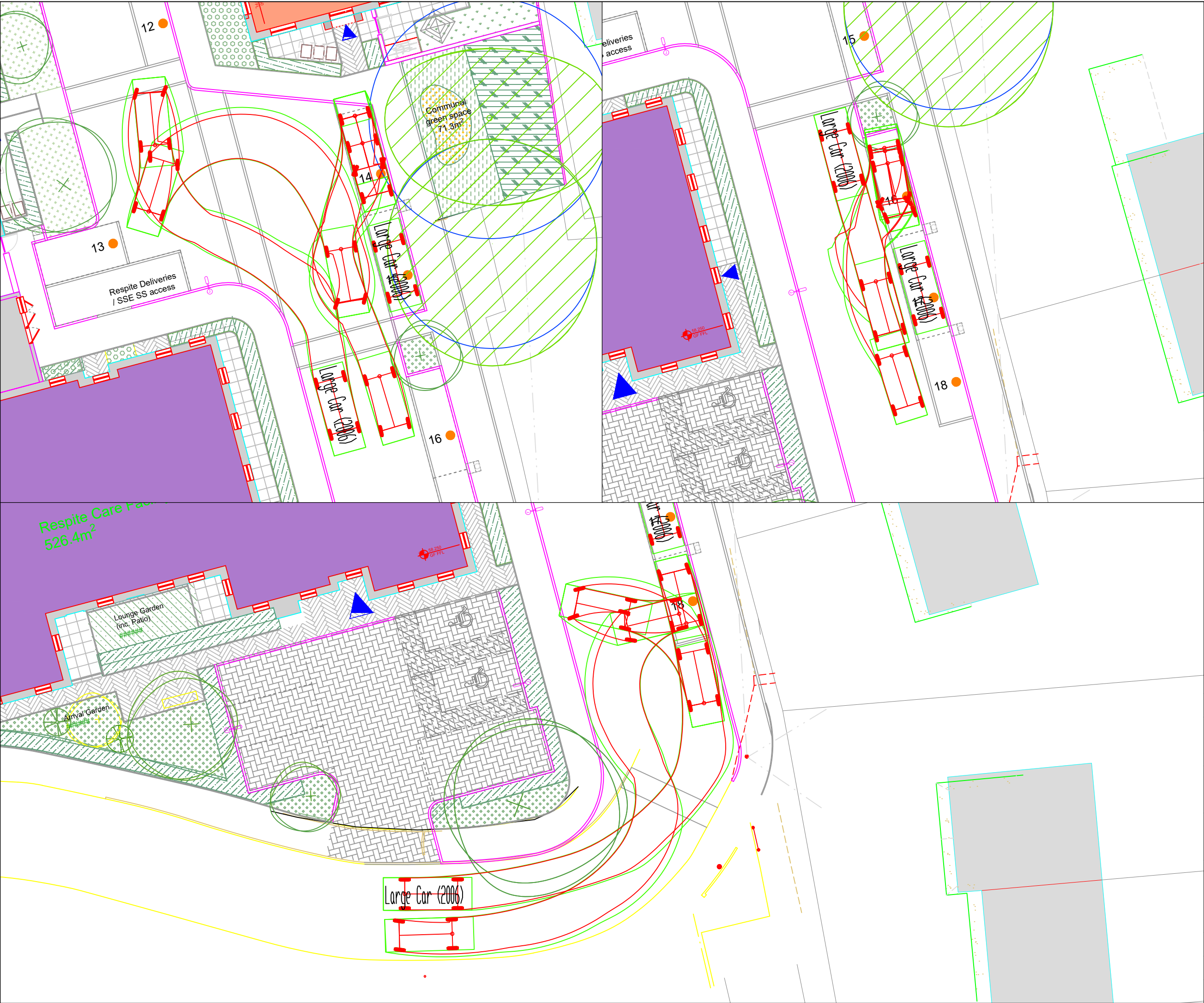


KEY PLAN	
Large Car (2006)	
Overall Length	5.072m
Overall Width	1.872m
Overall Body Height	1.525m
Min Body Ground Clearance	0.310m
Max Track Width	1.831m
Lock to lock time	4.005s
Kerb to Kerb Turning Radius	5.900m

NOTES

REVISIONS

FIRST ISSUE				
P01	J. DALLEY	02/11/23	S. MOODY	02/11/23
REVISION NOTES/COMMENTS				
REV	DRAWN BY	DATE	CHECKED BY	DATE
	APPROVED BY	DATE		
 HYDROCK WHITE BUILDING 1-4 CUMBERLAND PLACE SOUTHAMPTON SO15 2NP t: +44 (0)23 8214 0907 e: southampton@hydrock.com				
CLIENT READING BOROUGH COUNCIL				
PROJECT AMETHYST LANE, READING				
TITLE LARGE CAR ACCESSING PARKING BAYS 3				
HYDROCK PROJECT NO. 26887		SCALE @ A3 1:200		
STATUS DESCRIPTION SUITABLE FOR INFORMATION				STATUS S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0046				REVISION P01



KEY PLAN

Large Car (2006)

Overall Length5.972m

Overall Width1.872m

Overall Body Height1.525m

Min Body Ground Clearance0.310m

Max Track Width1.831m

Lock to lock time4.805s

Kerb to Kerb Turning Radius5.900m

NOTES

REVISIONS

P01	FIRST ISSUE					
	J. DALLEY	02/11/23	S. MOODY	02/11/23	S. MOODY	02/11/23
REV	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

Hydrock

HYDROCK

WHITE BUILDING

1-4 CUMBERLAND PLACE

SOUTHAMPTON

SO15 2NP

t: +44 (0)23 8214 0907

e: southampton@hydrock.com

CLIENT

READING BOROUGH COUNCIL

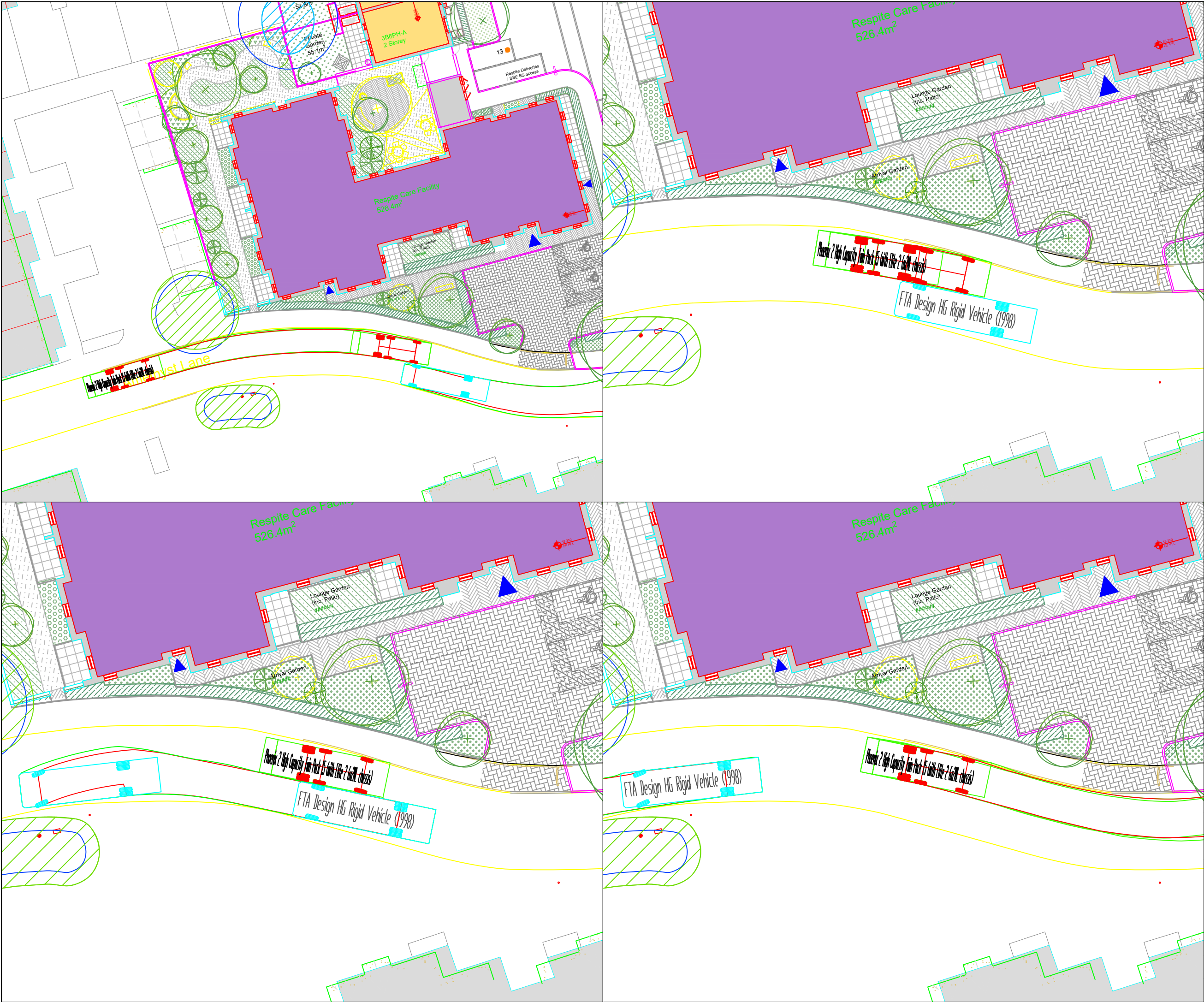
PROJECT

AMETHYST LANE, READING

TITLE

LARGE CAR ACCESSING PARKING BAYS 4

HYDROCK PROJECT NO.	SCALE @ A3
26887	1:200
STATUS DESCRIPTION	STATUS
SUITABLE FOR INFORMATION	S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
26887-HYD-XX-XX-DR-TP-0047	P01



KEY PLAN

FTA Design HG Rigid Vehicle (1998)

Overall Length10.000m

Overall Width3.500m

Overall Body Height3.245m

Min Body Ground Clearance0.440m

Track Width2.170m

Lock to lock time3.00s

Kerb to Kerb Turning Radius11.000m

NOTES

Phoenix 2 High Capacity Twin Pack 15 (with E...)

Overall Length9.070m

Overall Width3.530m

Overall Body Height3.211m

Min Body Ground Clearance0.416m

Track Width2.530m

Lock to lock time4.00s

Kerb to Kerb Turning Radius7.800m

REVISIONS

REV	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
P01	J. DALLEY	03/11/23	S. MOODY	03/11/23	S. MOODY	03/11/23

REVISION NOTES/COMMENTS

Hydrock

HYDROCK

WHITE BUILDING

14 CUMBERLAND PLACE

SOUTHAMPTON

SO15 2NP

t: +44 (0)23 8214 0907

e: southampton@hydrock.com

CLIENT

READING BOROUGH COUNCIL

PROJECT

AMETHYST LANE, READING

TITLE

10m RIGID VEHICLE PASSING REFUSE VEHICLE AT SOUTHERN BEND 1

HYDROCK PROJECT NO.

26887

SCALE @ A3

1:200

STATUS DESCRIPTION

SUITABLE FOR INFORMATION

DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)

26887-HYD-XX-XX-DR-TP-0050

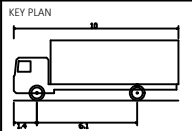
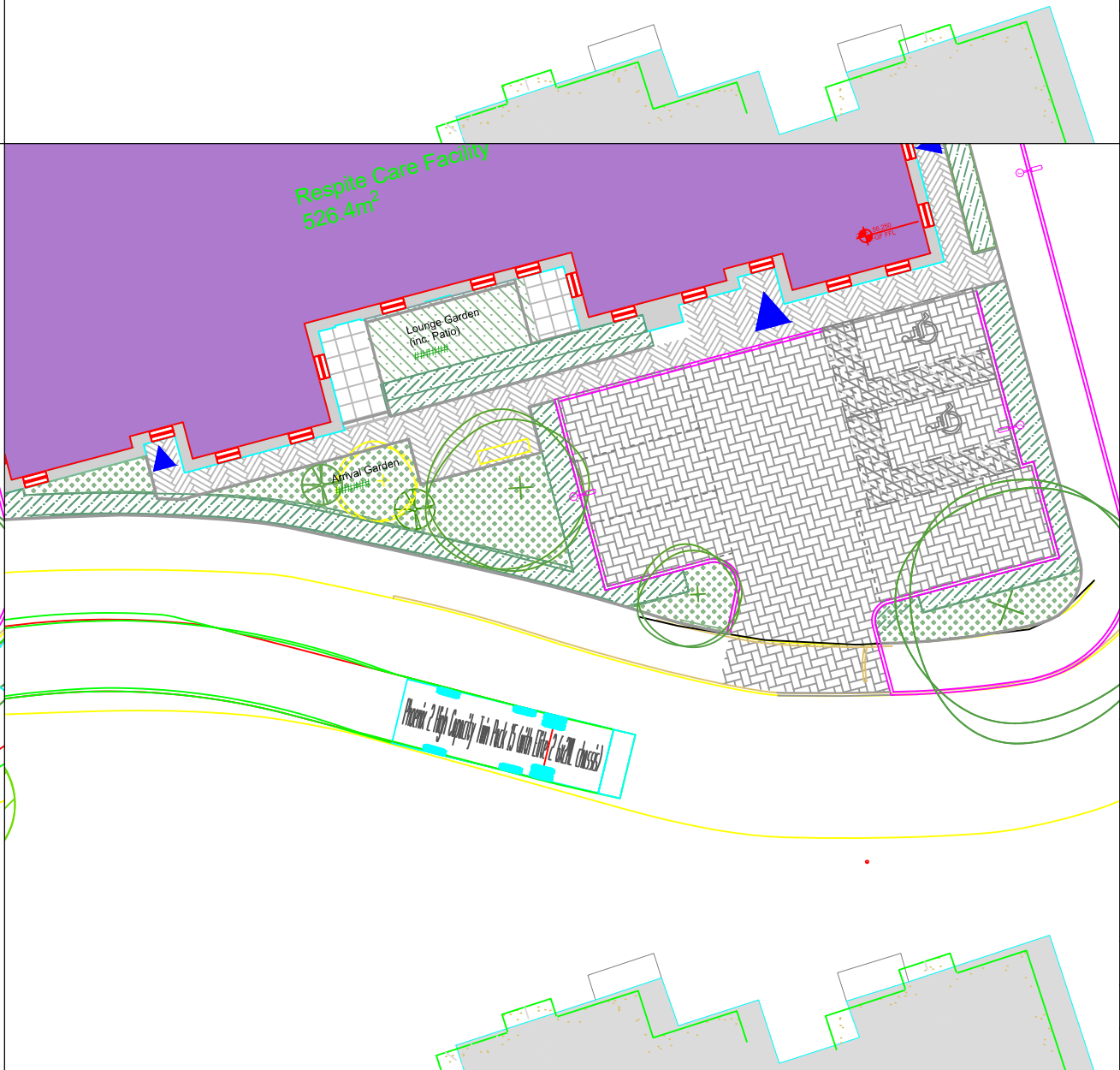
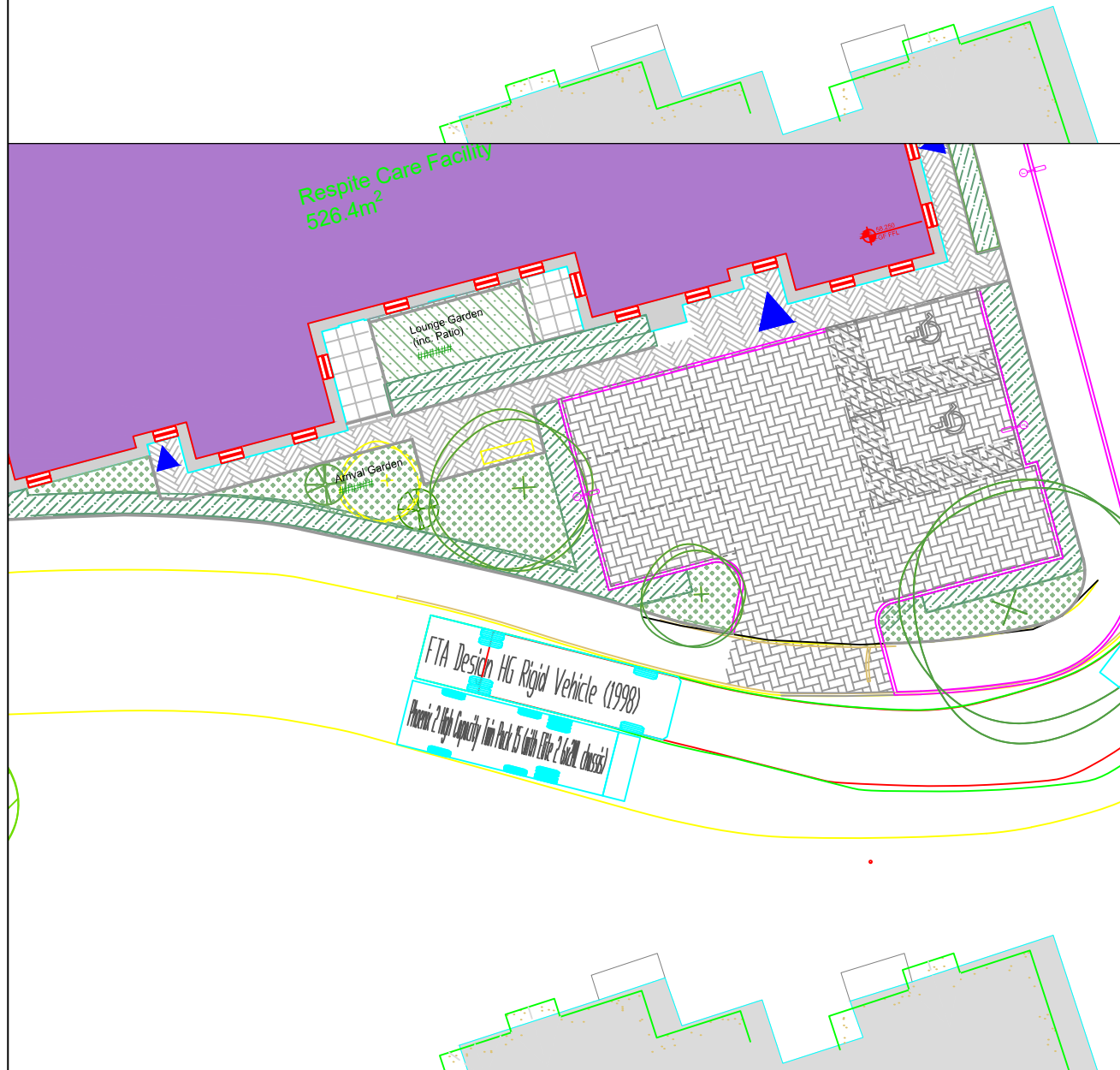
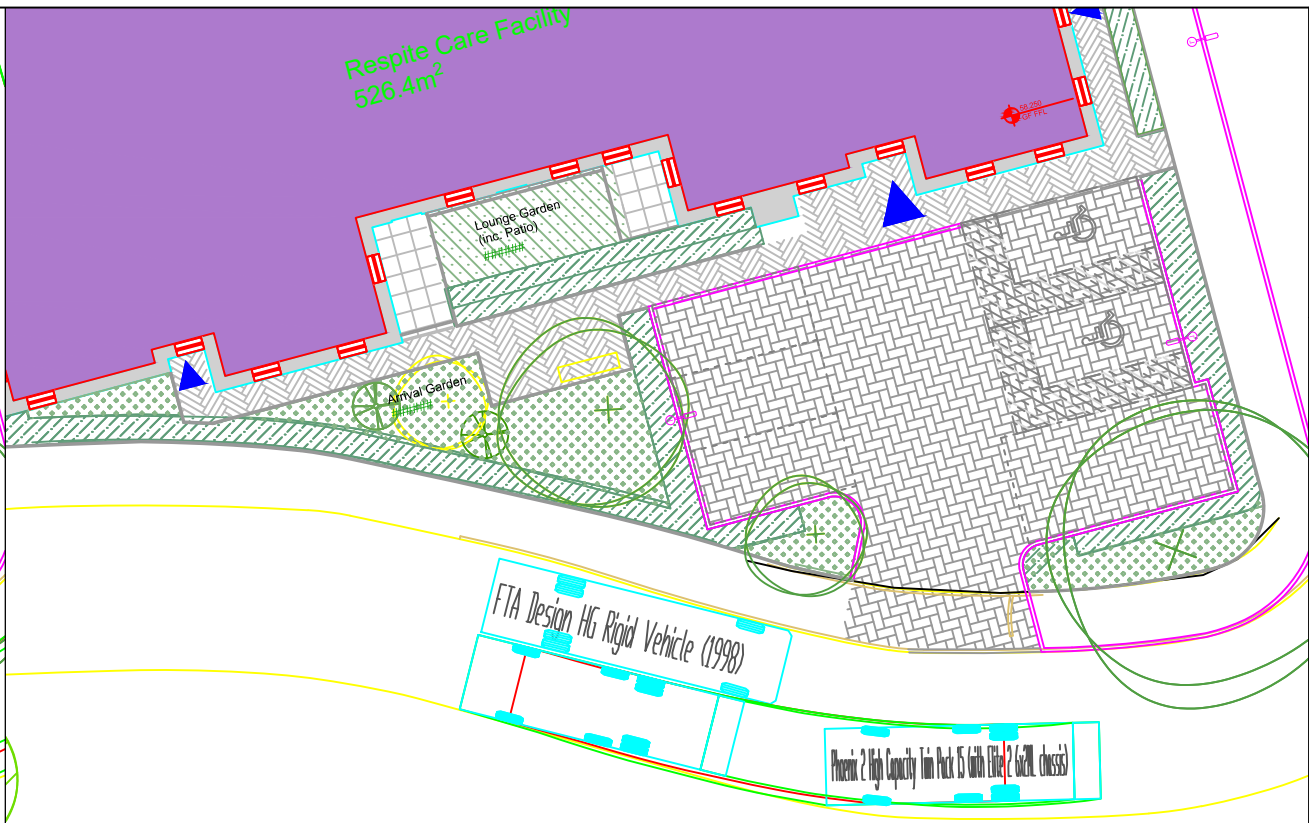
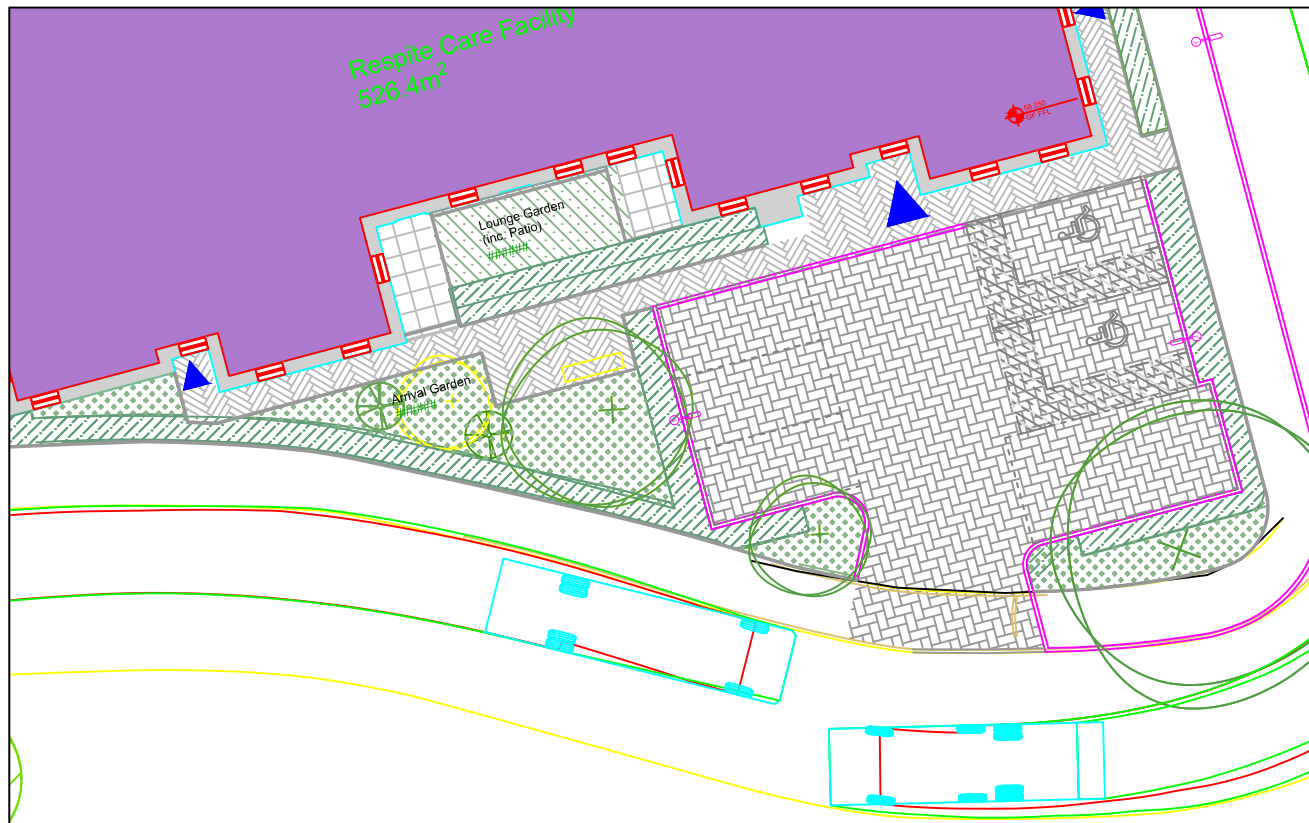
STATUS

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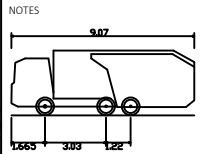
REVISION

P01

Printed 03/11/2023



FTA Design HG Rigid Vehicle (1998)	
Overall Length	10.000m
Overall Width	2.500m
Overall Body Height	3.645m
Min Body Ground Clearance	0.440m
Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m



Phoenix 2 High Capacity Twin Pack	15 (with Elite)
Overall Length	9,070m
Overall Width	3,530m
Overall Body Height	3,211m
Min Body Ground Clearance	0,416m
Track Width	2,530m
Lock to lock time	4,00s
Kerb to Kerb Turning Radius	7,800m

REVISIONS

P01	FIRST ISSUE					
	J. DALLEY	03/11/23	S. MOODY	03/11/23	S. MOODY	03/11/23
REV	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE



CLIENT

READING BOROUGH COUNCIL

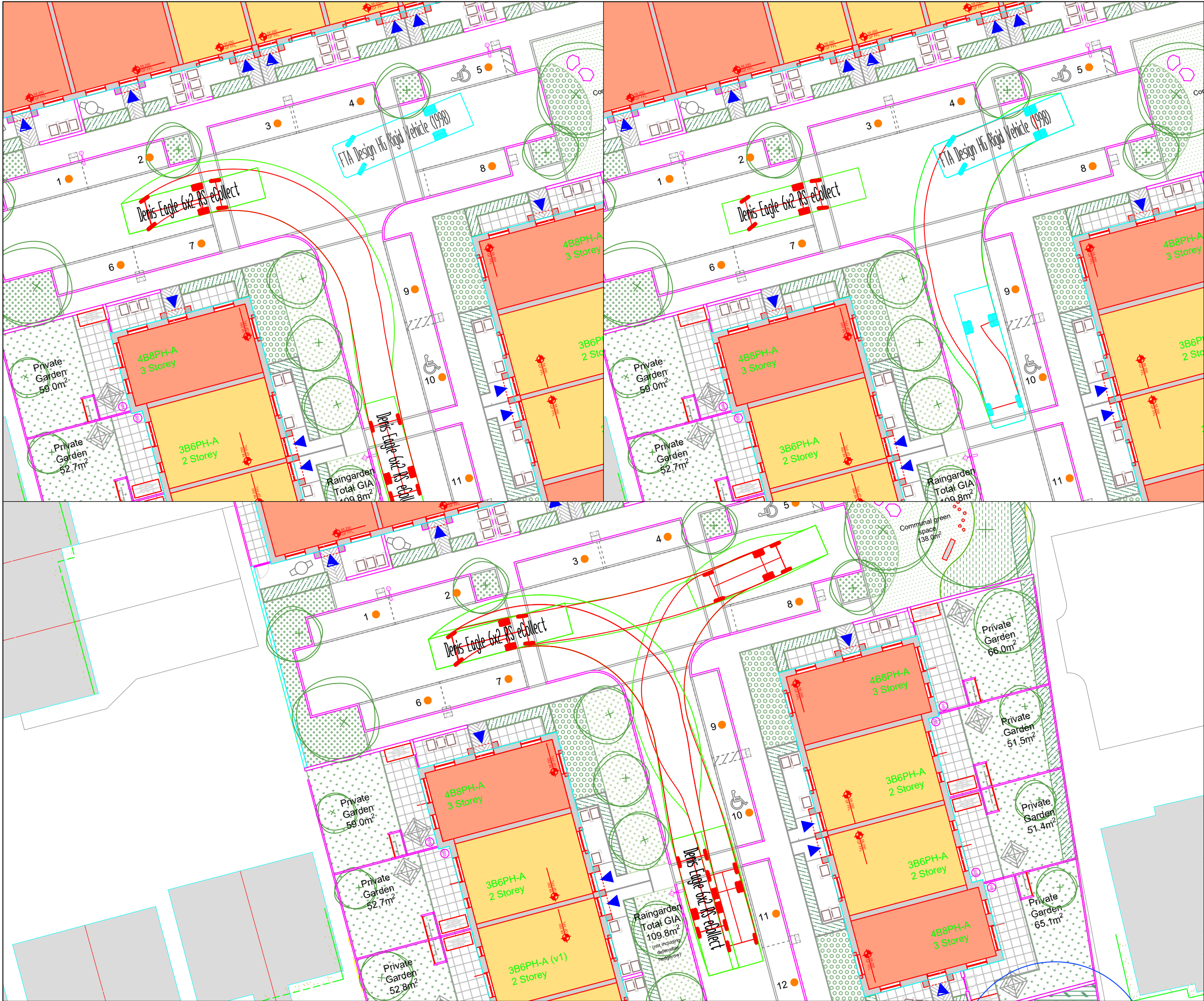
PROJECT

AMETHYST LANE, READING

TITLE

10m RIGID VEHICLE PASSING REFUSE
VEHICLE AT SOUTHERN BEND 2

HYDROCK PROJECT NO. 26887		SCALE @ A3 1:200	
STATUS DESCRIPTION SUITABLE FOR INFORMATION			STATUS S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0051			REVISION P01



Denis Eagle 6x2 RS eCollect

Overall Length 10.130m
Overall Width 2.500m
Overall Body Height 3.645m
Min Body Ground Clearance 0.440m
Track Width 2.470m
Lock to lock time 3.00s
Kerb to Kerb Turning Radius 8.450m

NOTES

FTA Design HG Rigid Vehicle (1998)

Overall Length 10.000m
Overall Width 2.500m
Overall Body Height 3.645m
Min Body Ground Clearance 0.440m
Track Width 2.470m
Lock to lock time 3.00s
Kerb to Kerb Turning Radius 11.000m

REVISIONS

REV	DATE	BY	CHKD	DATE	APPROVED	DATE
P01	03/11/23	J. DALLEY	S. MOODY	03/11/23	S. MOODY	03/11/23

REVISION NOTES/COMMENTS

CLIENT

READING BOROUGH COUNCIL

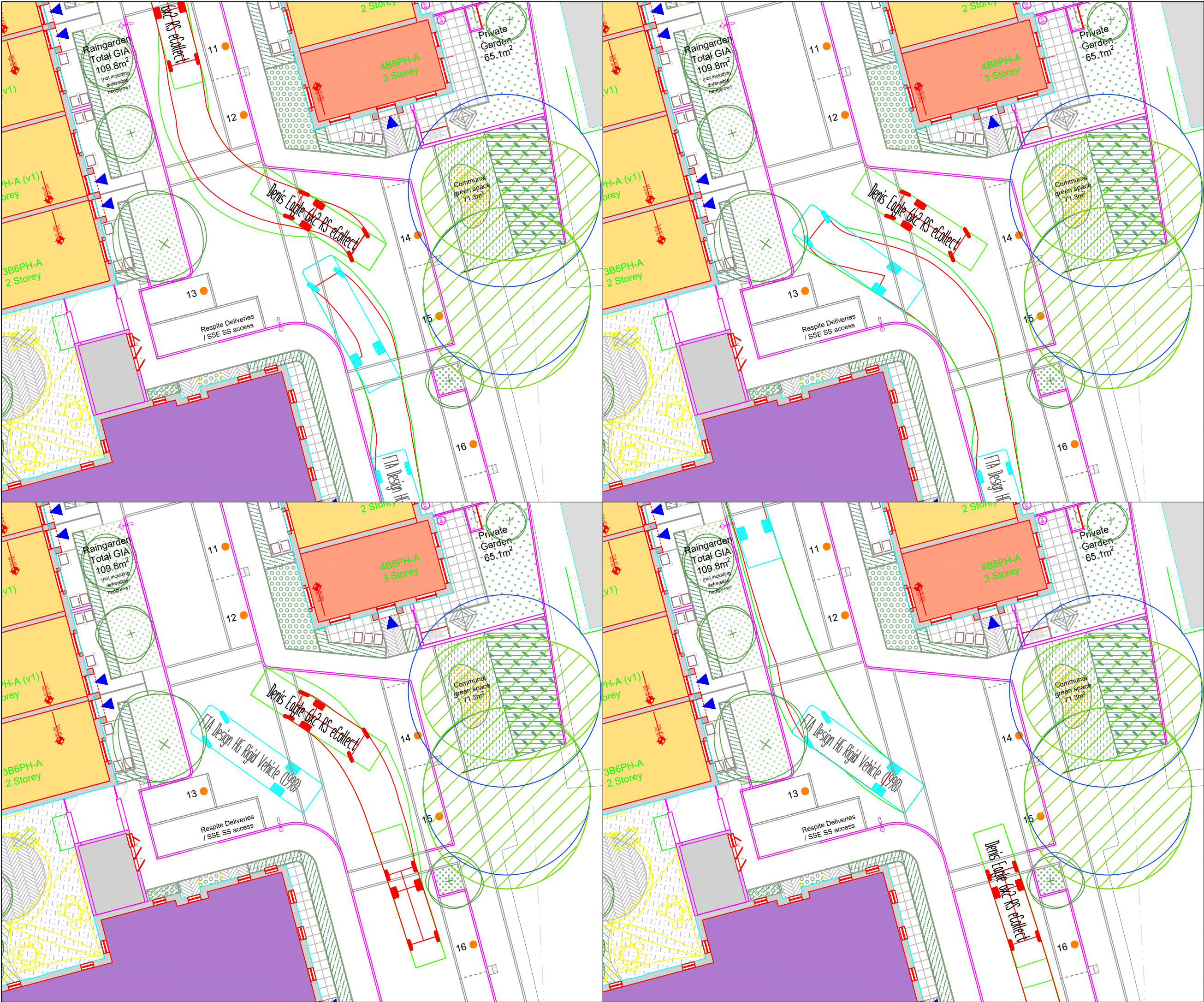
PROJECT

AMETHYST LANE, READING

TITLE

E-REFUSE VEHICLE TURNING AND PASSING
10m RIGID

HYDROCK PROJECT NO.	SCALE @ A3
26887	1:250
STATUS DESCRIPTION	STATUS
SUITABLE FOR INFORMATION	S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
26887-HYD-XX-XX-DR-TP-0052	P01



KEY PLAN

FTA Design HG Rigid Vehicle (1998)
Overall Length 10.000m
Overall Width 2.500m
Overall Body Height 3.645m
Min Body Ground Clearance 0.440m
Track Width 2.470m
Lock to lock time 3.00s
Kerb to Kerb Turning Radius 11.000m

NOTES

10.13m
1.685 3.9 1.35

Denis Eagle 6x2 RS eCollect
Overall Length 10.130m
Overall Width 2.250m
Overall Body Height 3.707m
Min Body Ground Clearance 0.260m
Track Width 2.250m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 8.450m

REVISIONS

REV	DATE	DESCRIPTION
1	01/11/23	Issue for comment
2	01/11/23	Issue for comment
3	01/11/23	Issue for comment
4	01/11/23	Issue for comment

PO1

REV	DATE	DESCRIPTION
1	01/11/23	Issue for comment
2	01/11/23	Issue for comment
3	01/11/23	Issue for comment
4	01/11/23	Issue for comment

Hydrock

HYDROCK WHITE BUILDING
1-4 CUMBERLAND PLACE
SOUTHAMPTON
SO15 2NP
t: +44 (0)23 8214 0907
e: southampton@hydrock.com

CLIENT

READING BOROUGH COUNCIL

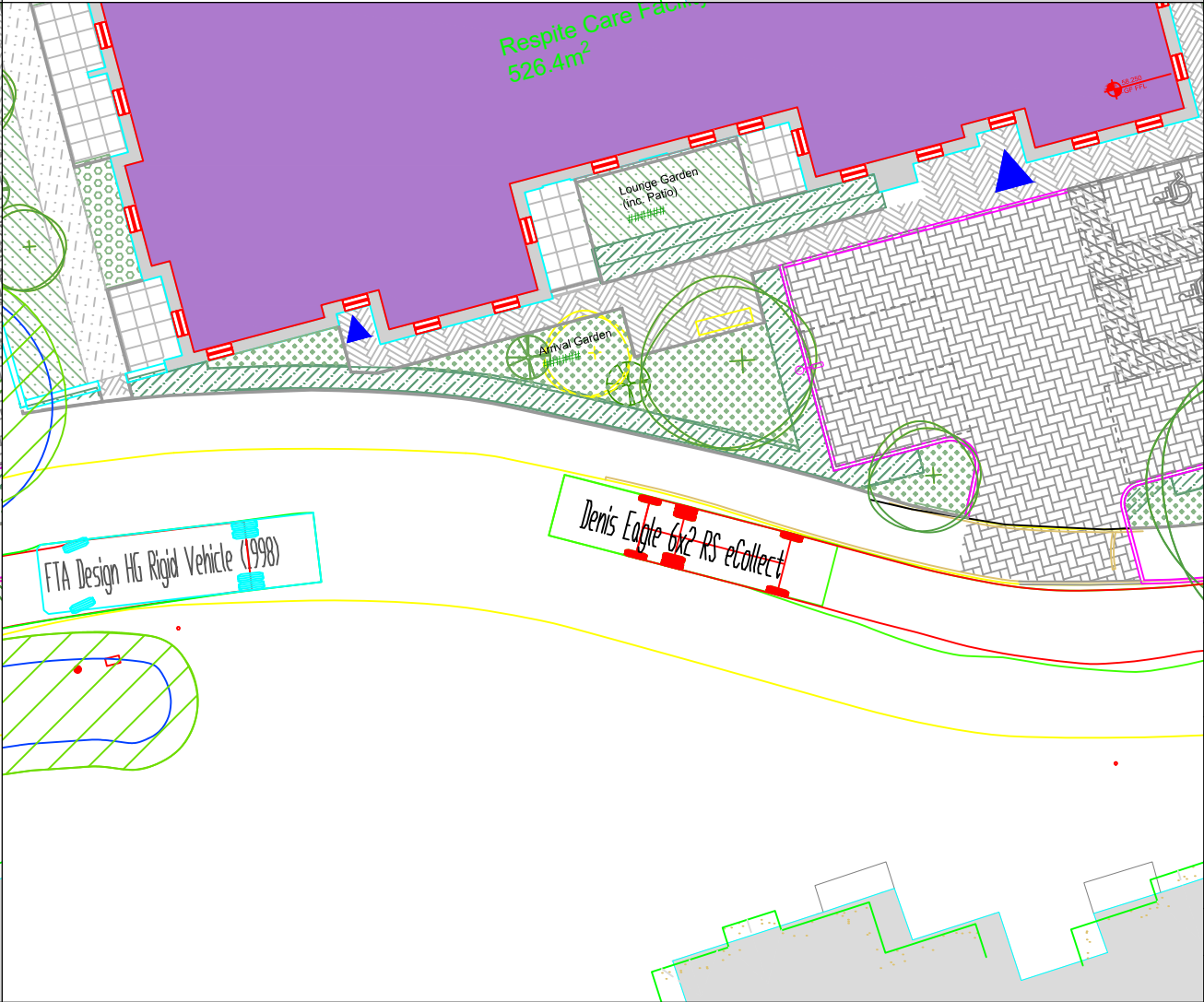
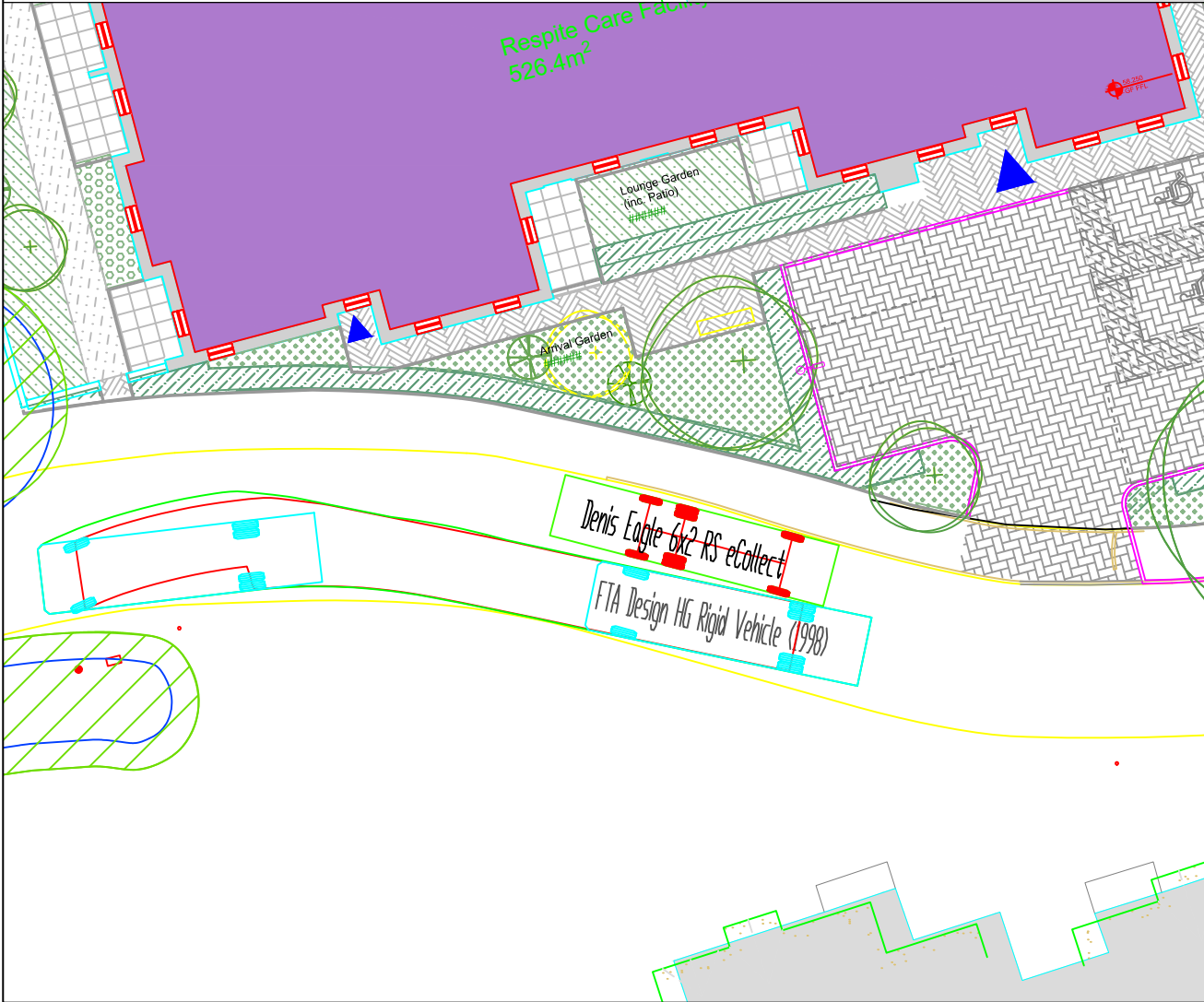
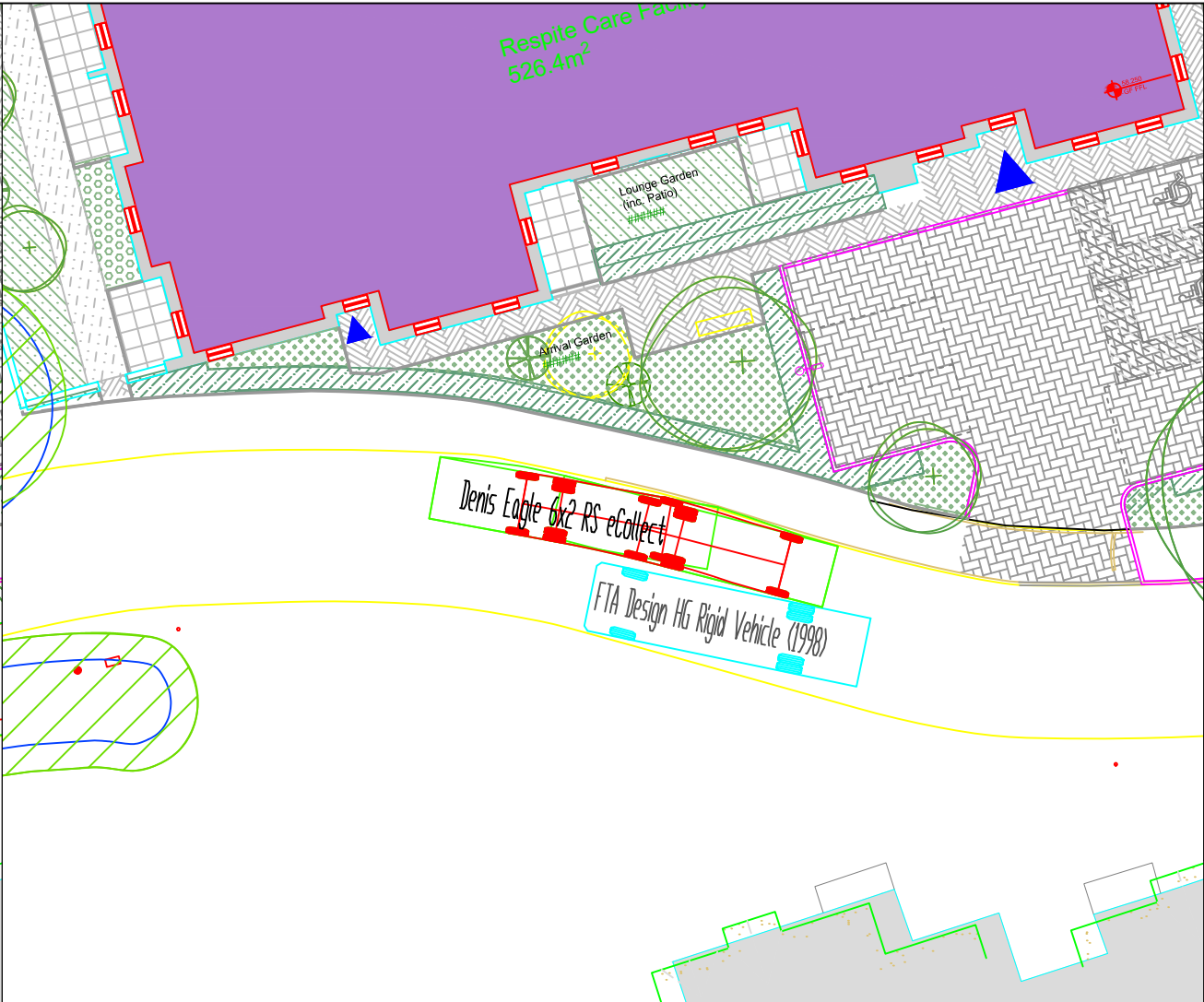
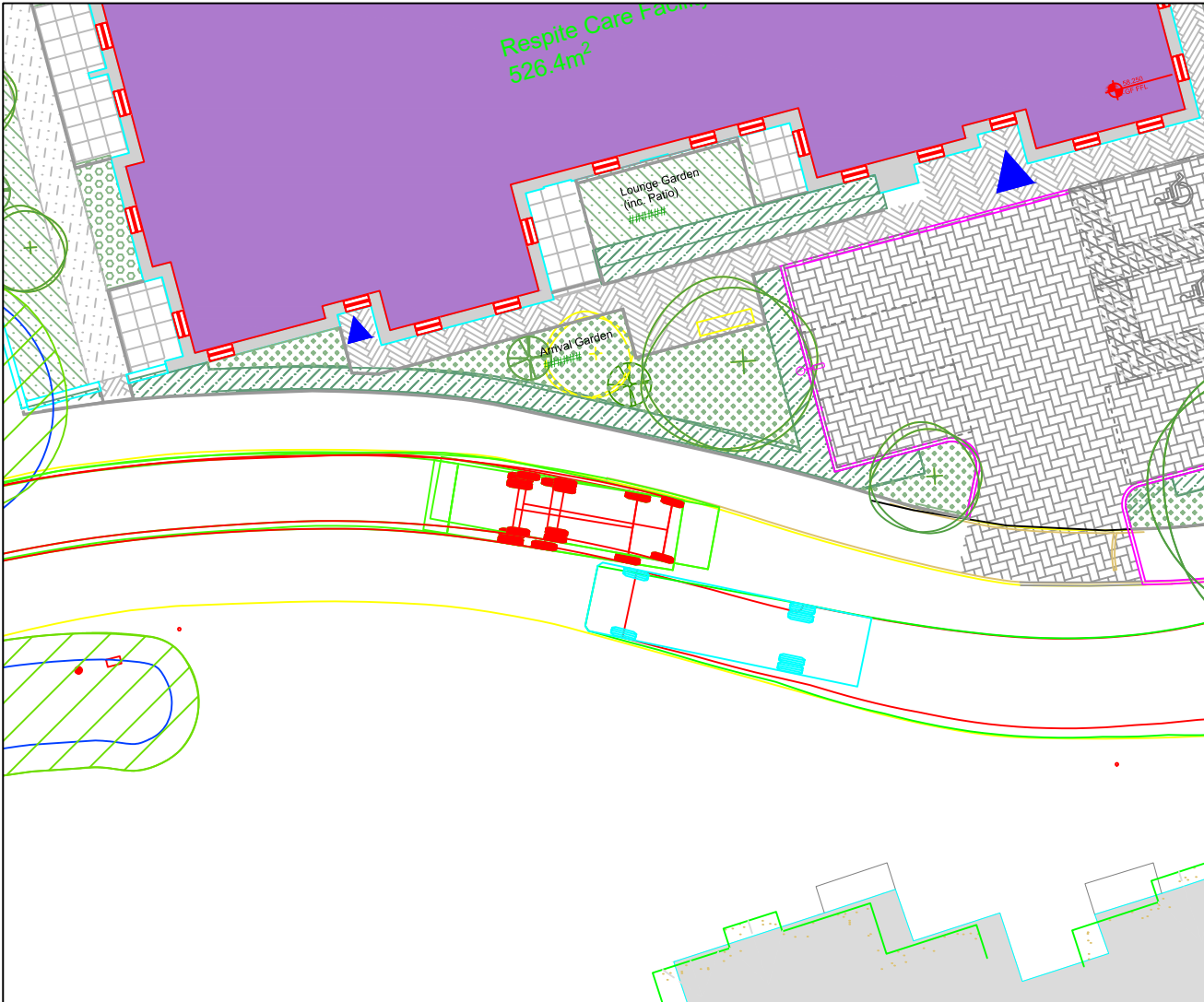
PROJECT

AMETHYST LANE, READING

TITLE

10m RIGID PASSING AN E-REFUSE VEHICLE
IN CENTRE OF SITE

HYDROCK PROJECT NO. 26887	SCALE @ A3 1:250
STATUS DESCRIPTION SUITABLE FOR INFORMATION	STATUS S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0053	REVISION P01



KEY PLAN	
FTA Design HG Rigid Vehicle (1998)	
Overall Length	10.000m
Overall Width	2.500m
Overall Body Height	3.245m
Min Body Ground Clearance	0.440m
Track Width	1.700m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m

NOTES	
Denis Eagle 6x2 RS eCollect	
Overall Length	10.130m
Overall Width	2.250m
Overall Body Height	3.707m
Min Body Ground Clearance	0.260m
Track Width	2.250m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	8.450m

REVISIONS	

FIRST ISSUE	
J. DALLEY	03/11/23
S. MOODY	03/11/23
S. MOODY	03/11/23
REVISION NOTES/COMMENTS	
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

HYDROCK
WHITE BUILDING
14 CUMBERLAND PLACE
SOUTHAMPTON
SO15 2NP
t: +44 (0)23 8214 0907
e: southampton@hydrock.com

CLIENT
READING BOROUGH COUNCIL

PROJECT
AMETHYST LANE, READING

TITLE
10m RIGID VEHICLE PASSING AN E-REFUSE
VEHICLE AT SOUTHERN BEND 1

HYDROCK PROJECT NO. 26887	SCALE @ A3 1:200	STATUS S2
STATUS DESCRIPTION SUITABLE FOR INFORMATION		
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 26887-HYD-XX-XX-DR-TP-0054		
		REVISION P01

