

Appendix D

NOTES	
1. This drawing to be read & printed in colour. 2. This drawing is for illustrative purposes only.	
KEY:	
	SITE BOUNDARY
	20mph VISIBILITY SPLAY (2.4 x 24m)

Rev	Details	REVISION			HISTORY			Drawn	Checked	Date
		☒ Preliminary	☐ Detailed	☐ As Built						
1	...				...	...	...	...	...	...

20mph VISIBILITY SPLAY (2.4 x 24m)

Rev	Details	Date	Drawn	Checked	
REVISION HISTORY					
Status:	☒ Preliminary	☐ Detailed	☐ As Built		

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Transport Planning & Highway Design
211 Hile Portland Street • London • Tel: 020 3617 8200 • WWW.88T

Rev:



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NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.

KEY:

	SITE BOUNDARY
	20mph VISIBILITY SPLAY (2.4 x 24m)
	300mm BUFFER ZONE

REVISION HISTORY									
Rev	Details			Drawn	Checked	Date			
1	...			...					...

Status:	☒ Preliminary	☐ Detailed	☐ As Built
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Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre Expansion, Uxbridge

Drawing Title:

Building Zone A
General Arrangement Plan

Scale:

1:500

size:

A3

Drawn by

19

Checked by:

2

Approved by:

5.

Date:

10.06.2024



Scheme Ref:

4985

Drawing No:

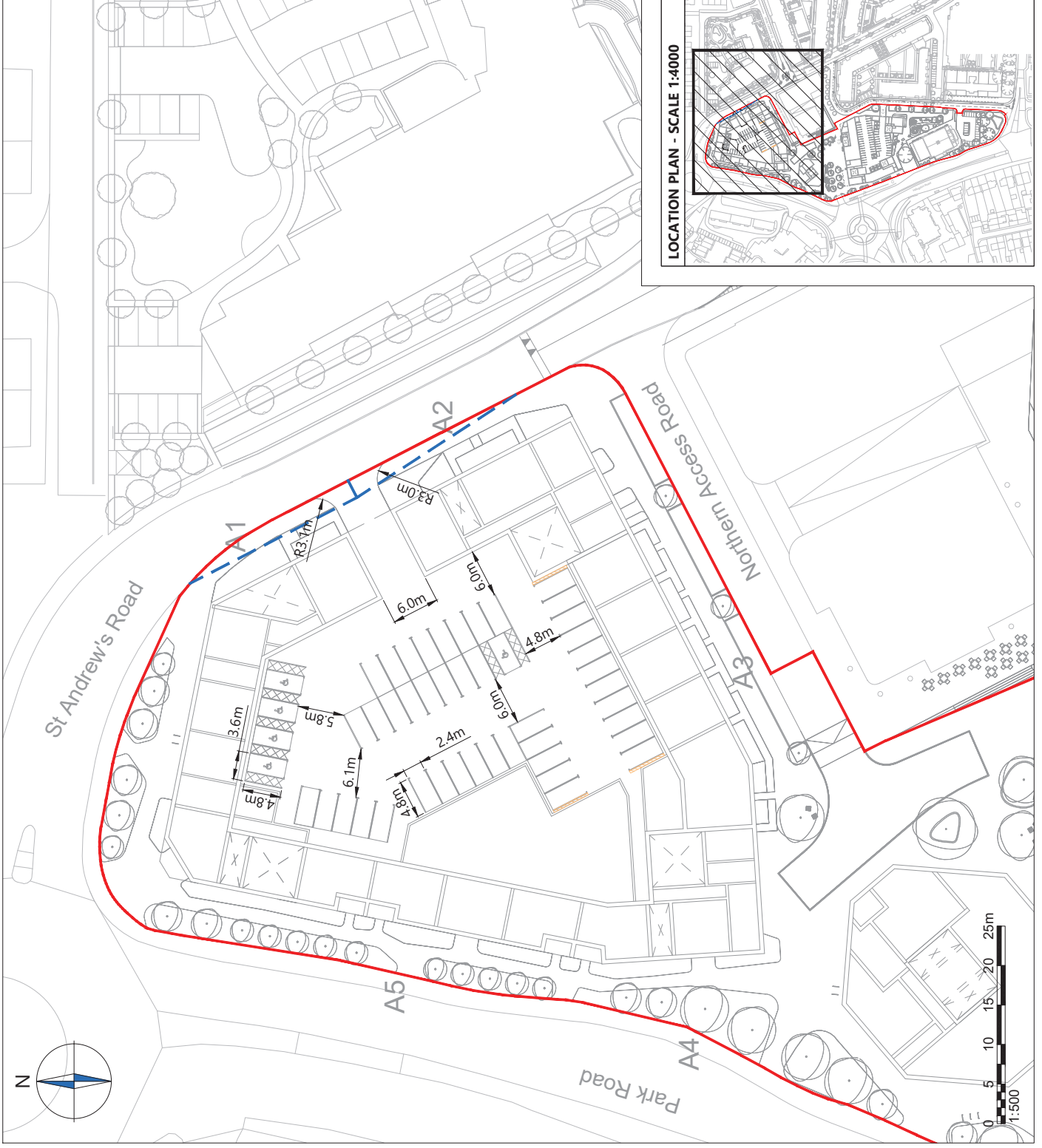
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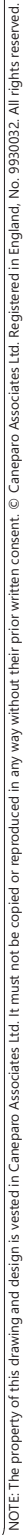
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1 of 1

Rev:

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NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.

KEY:

SITE BOUNDARY

20mph VISIBILITY SPLAY (2.4 x 24m)

Rev	Details	REVISION	HISTORY	Date
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100	Details	100	Checked	10.06.2024

Status: ☒ Preliminary ☐ Detailed ☐ As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Northern Access Road
General Arrangement Plan

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024



Transport Planning & Highway Design
21 Little Portland Street • London • W1W 8BT • Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

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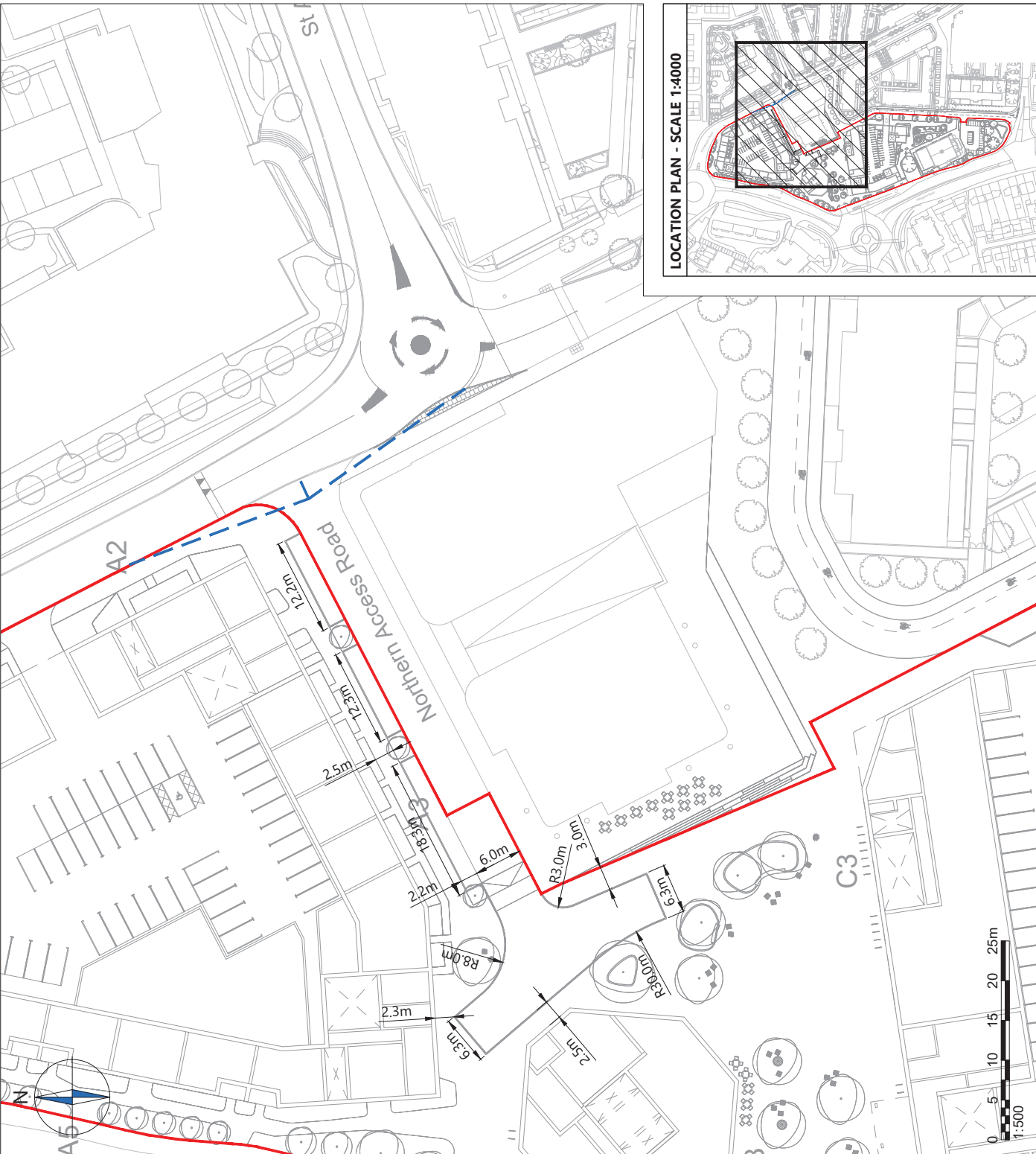
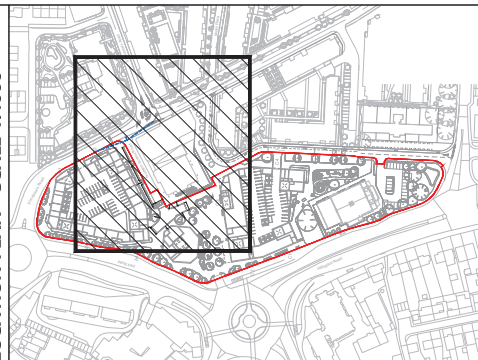
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1 of 1

Rev:

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LOCATION PLAN - SCALE 1:4000



NOTES

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3. Design speed for all vehicle swept paths is 5kph.

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STANDARD DESIGN VEHICLE (SDV)

4.8

2.9

1.3

Overall Length

2.000m

Overall Width

1.950m

Min Body Ground Clearance

0.100m

Track Width

2.000m

Lock to lock time

4.00s

Wall to Wall Turning Radius

6.000m

Forward Gear

Reverse Gear

REVISION HISTORY

Rev

Details

Drawn

Checked

Date

1

Status

Preliminary

Detailed

As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Former Cinema Car Park
- Standard Design Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

CANEPARO ASSOCIATES

Transport Planning & Highway Design

21 Little Portland Street

London

W1W 8BT

Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

TR006

Sheet :

1 of 9

Rev:

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ENTRY MANOEUVRE

N

0

5

10

15

20

25m

1:500

N

0

5

10

15

20

25m

1:500

EXIT MANOEUVRE

N

0

5

10

15

20

25m

1:500

N

0

5

10

15

20

25m

1:500

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NOTES

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4.8

2.9

1.3

Overall Length

2.000m

Overall Width

1.950m

Min Body Height

0.100m

Track Width

2.000m

Lock to lock time

4.00s

Wall to Wall Turning Radius

6.000m

Forward Gear

Reverse Gear

Rev Details

Rev

Drawn

Checked

Date

REVISION

HISTORY

Status

Preliminary

Detailed

As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Former Cinema Car Park
- Standard Design Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

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Transport Planning & Highway Design

21 Little Portland Street

London

W1W 8BT

Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

TR006

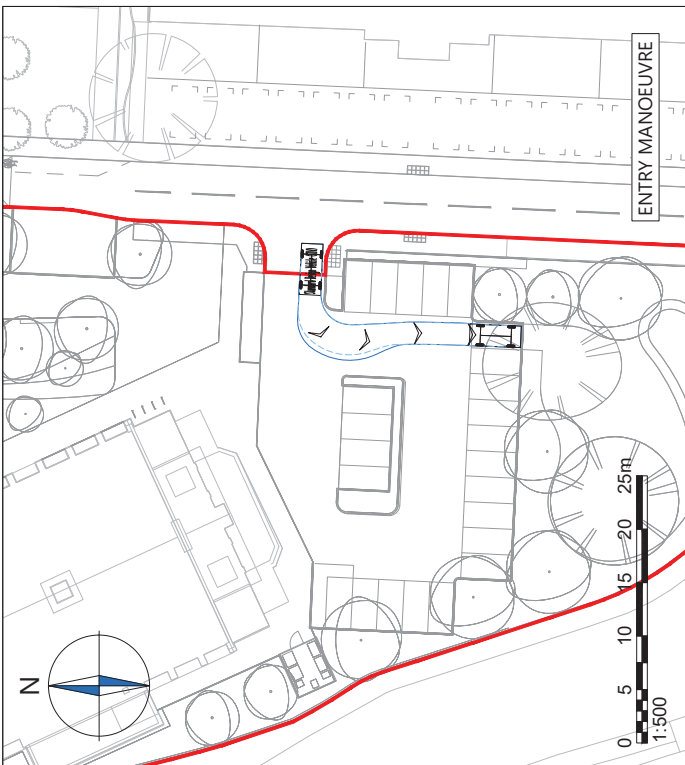
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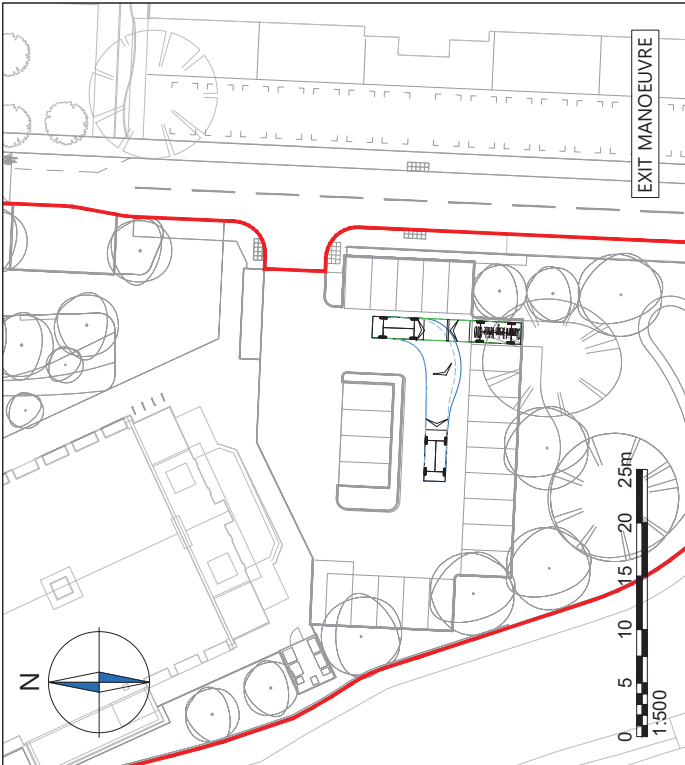
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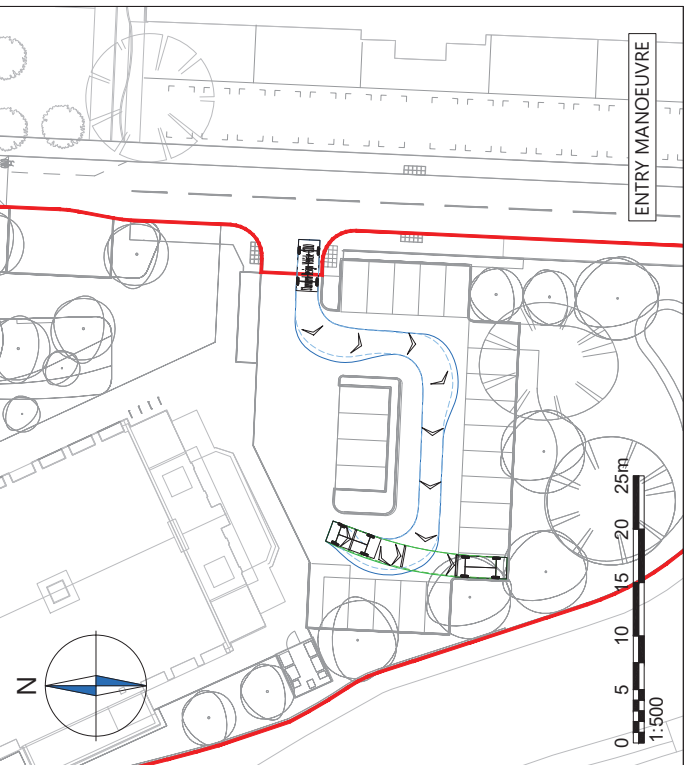
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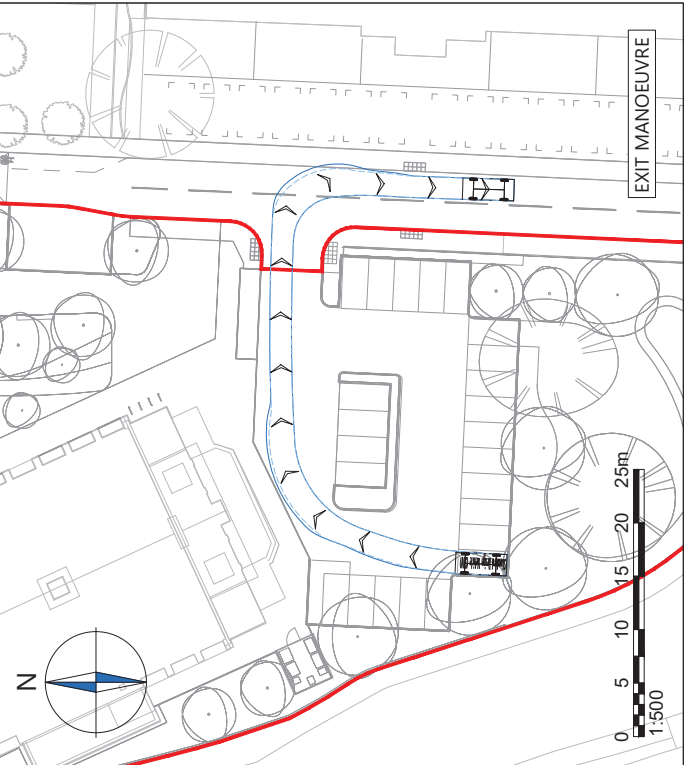
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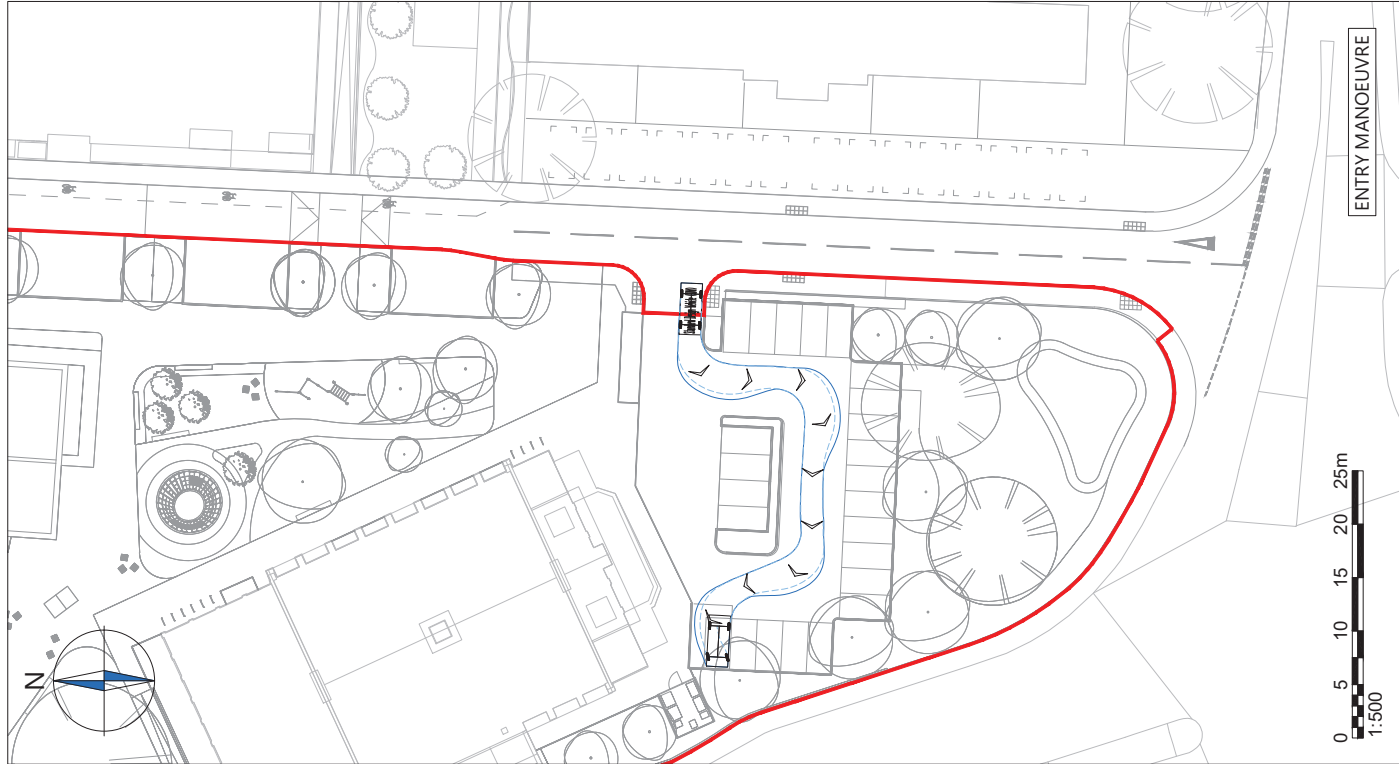
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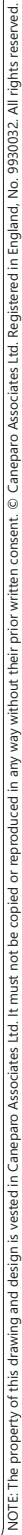


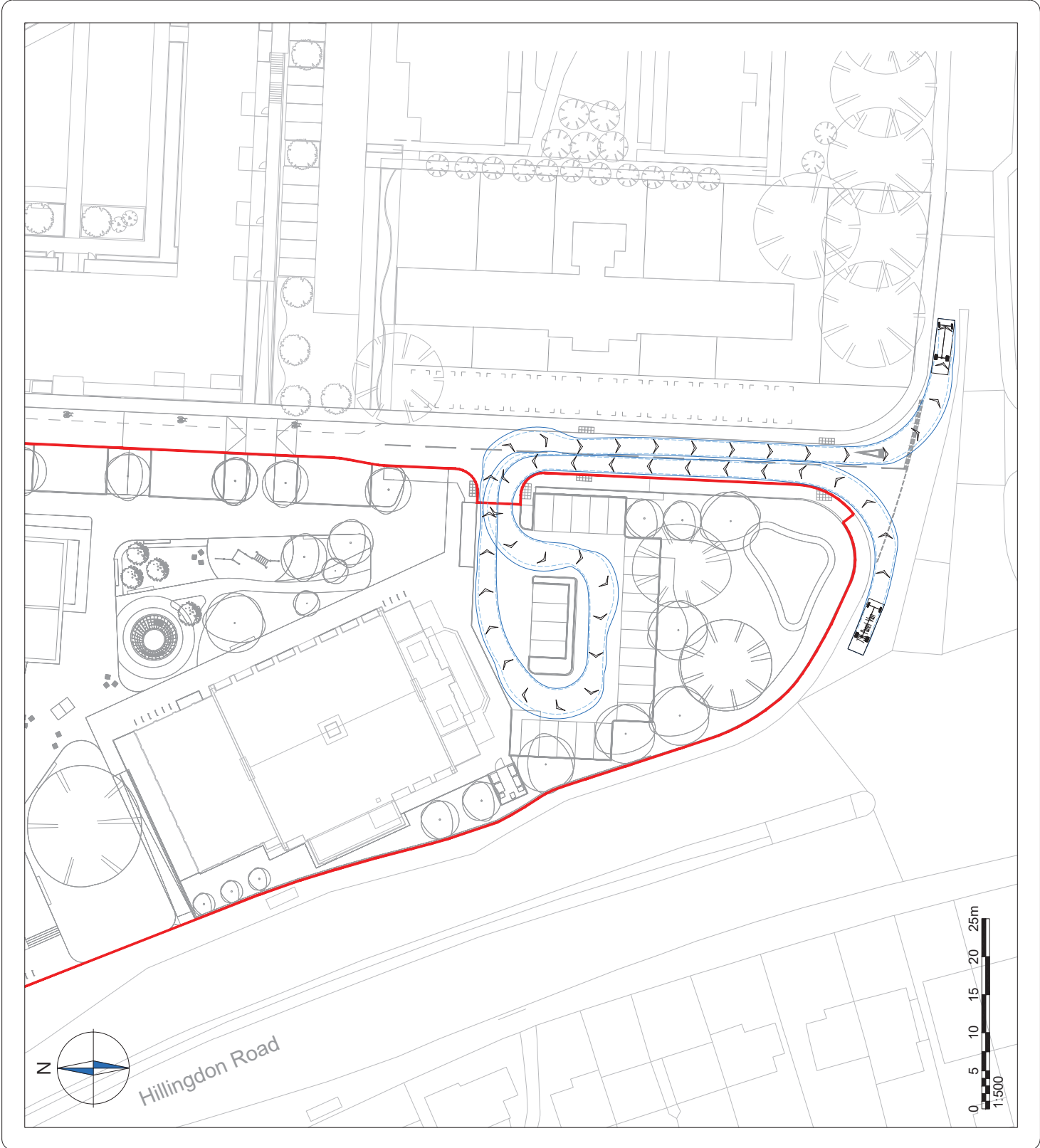
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NOTES 1. This drawing to be read & printed in colour. 2. This drawing is for illustrative purposes only. 3. Design speed for all vehicle swept paths is 5kph. 4. Stationary steering has not been used on this drawing.		7.5T PANEL VAN Overall Length7.210m Overall Width2.192m Overall Body Height2.544m Min Body Ground Clearance0.316m Track Width1.865m Lock to Lock Time4.00s Kerb to Kerb Turning Radius7.400m		Forward Gear Reverse Gear	
		Rev Details REVISION HISTORY Date Drawn Checked 		Status ☒ Preliminary ☐ Detailed ☐ As Built	

Client:	
Vinci St Modwen (VSM)	
Project:	
St Andrew's Gate, Town Centre Expansion, Uxbridge	
Drawing Title:	
Vehicle Swept Path Analysis - Former Cinema Car Park - 7.5T Panel Van	
Scale:	
1:500	
Size:	
A3	
Drawn by:	
JS	
Checked by:	
CC	
Approved by:	
CC	
Date:	
10.06.2024	
Transport Planning & Highway Design 21 Little Portland Street • London • W1W 8BT • Tel. 020 3617 8200	
Scheme Ref:	
4985	
Drawing No:	
TR006	
Sheet:	
5 of 9	
Rev:	
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NOTES

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3. Design speed for all vehicle swept paths is 5kph.

4. Stationary steering has not been used on this drawing.

FTA DESIGN HG RIGID VEHICLE (1998)

10

6.1

1.4

Overall Length

2.500m

Overall Width

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

Forward Gear

Reverse Gear

Rev Details

Revision History

Status

Drawn

Checked

Date

☒ Preliminary

☐ Detailed

☐ As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Former Cinema Car Park
- FTA Design Rigid Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

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Transport Planning & Highway Design

21 Little Portland Street

London

W1W 8BT

Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

TR006

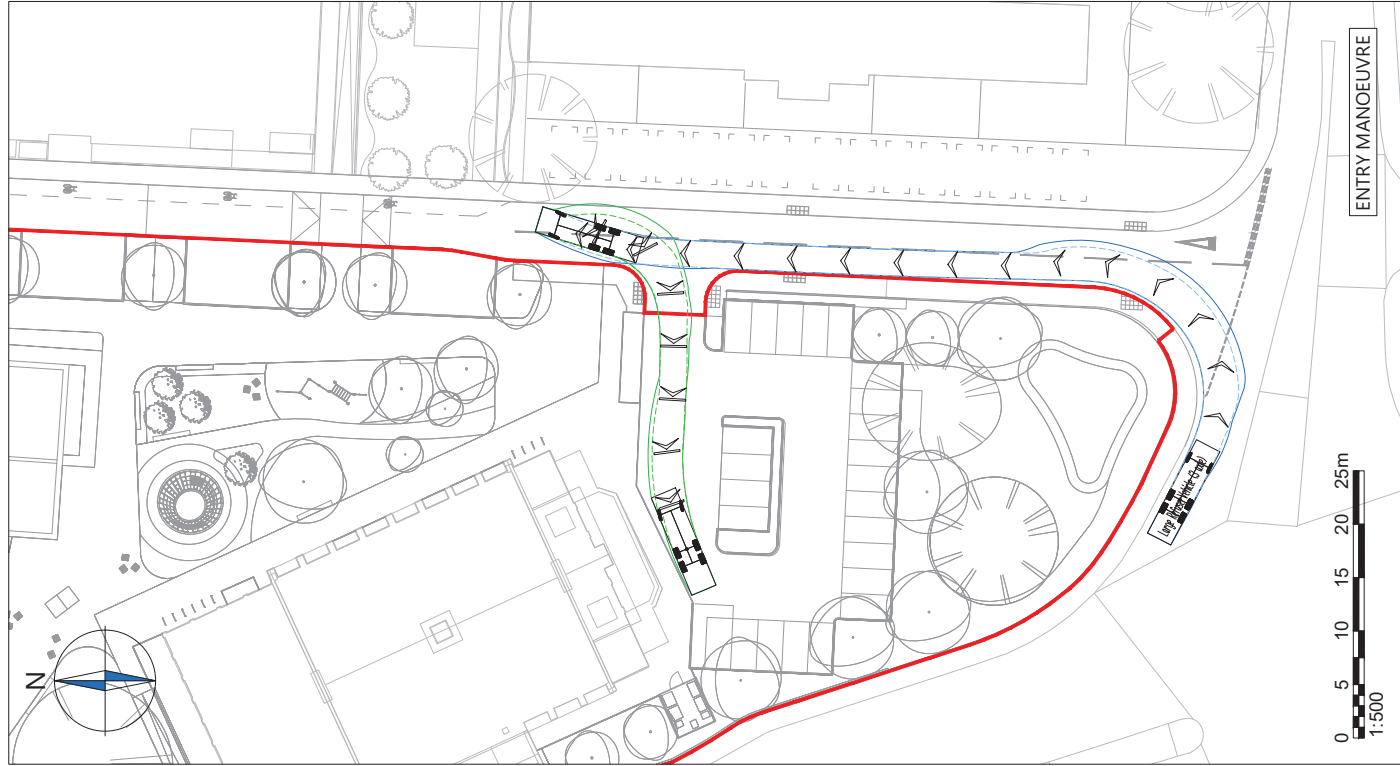
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Rev:

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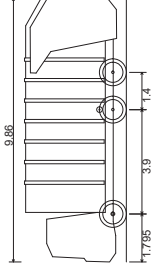
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NOTES

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LARGE REFUSE VEHICLE (3 AXLE)



Overall Length	9.860m
Overall Width	2.450m
Overall Body Height	3.814m
Min Body Ground Clearance	0.366m
Track Width	2.450m
Lock to Lock Time	4.00s
Kerb to Kerb Turning Radius	9.500m

Forward Gear	Reverse Gear
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Rev	Details	REVISION HISTORY			Drawn	Checked	Date
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Status: ☒ Preliminary ☐ Detailed ☐ As Built							

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre Expansion, Uxbridge

Drawing Title:

- Former Cinema Car Park
- Large Refuse Vehicle

Scale:

1:500

Size:

A3

Drawn by

1

Turn by:	Checked by:
----------	-------------

cc

Approved by:	
--------------	--

cc

Date:

CC	10 06 2024
rec by:	
date:	



Transport Planning & Highway Design
21 Little Portland Street • London • W1W 8BT • Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

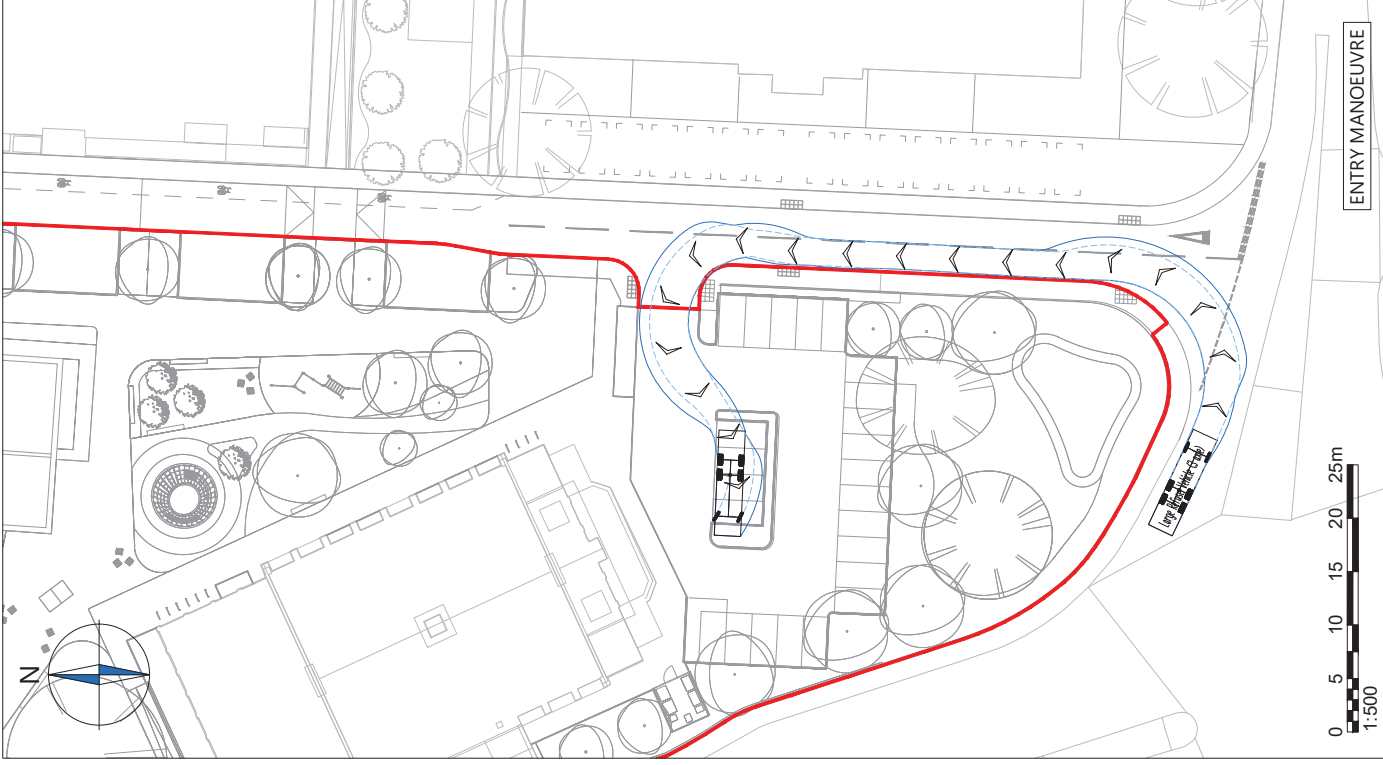
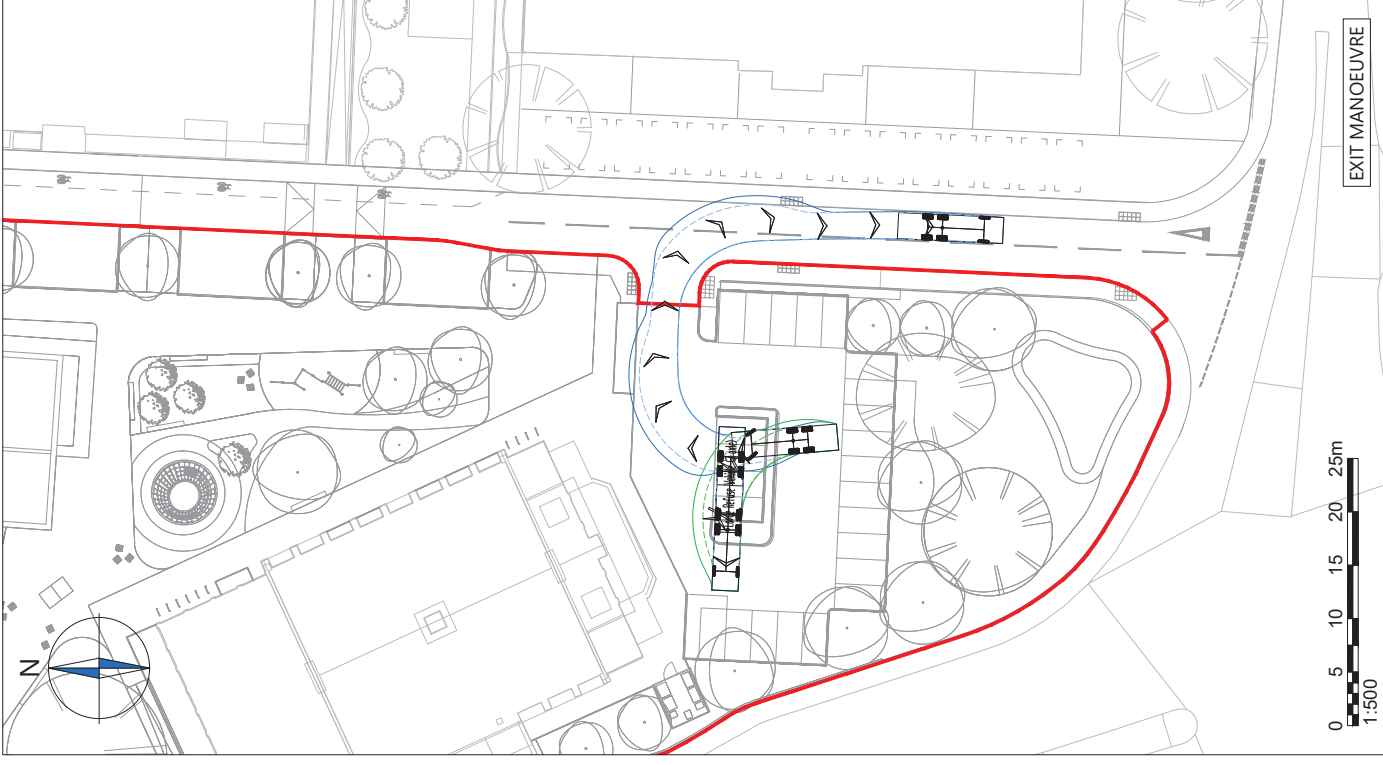
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6 of 8

Rev:

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NOTES

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3. Design speed for all vehicle swept paths is 5kph.

4. Stationary steering has not been used on this drawing.

FTA DESIGN HG RIGID VEHICLE (1998)

10

6.1

1.4

Overall Length

2.500m

Overall Width

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

Forward Gear

Reverse Gear

Rev

Details

Drawn

Checked

Date

REVISION

HISTORY

Status

☒ Preliminary

☐ Detailed

☐ As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Former Cinema Car Park
- FTA Design Rigid Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

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ASSOCIATES

Transport Planning & Highway Design

21 Little Portland Street • London • W1W 8BT • Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

TR006

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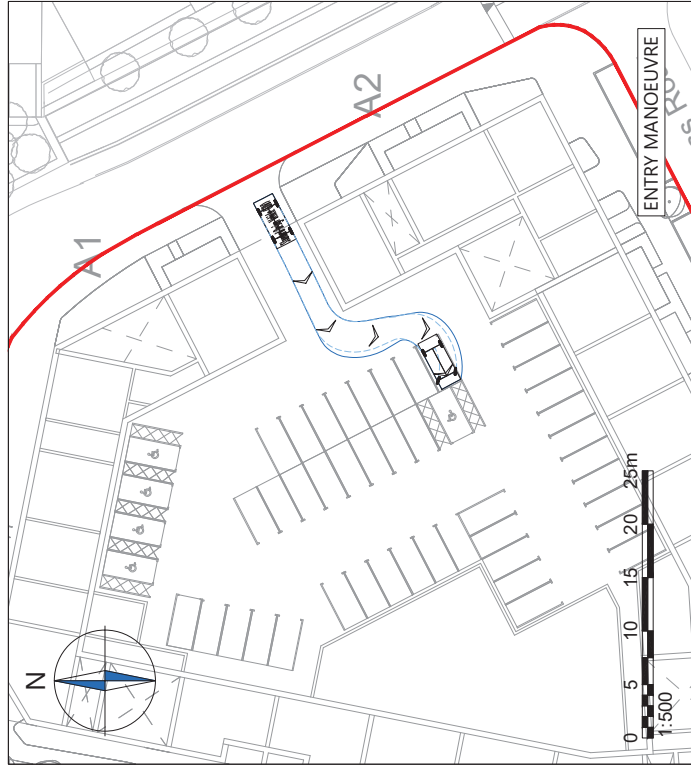
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Rev:

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NOTES															
1. This drawing to be read & printed in colour. 2. This drawing is for illustrative purposes only. 3. Design speed for all vehicle swept paths is 5kph. 4. Stationary steering has not been used on this drawing.															
STANDARD DESIGN VEHICLE (SDV)															
Overall Length 4.800m Overall Width 2.000m Overall Body Height 1.950m Min Body Ground Clearance 0.100m Track Width 2.000m Lock to lock time 4.00s Wall to Wall Turning Radius 6.000m	Forward Gear Reverse Gear														
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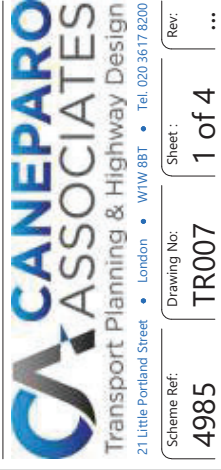
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Project: St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Building Zone A
- Standard Design Vehicle

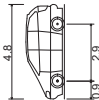
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Drawn by:	IS	Checked by:	CC	Approved by:	CC
				Date:	10/06/2024



NOTES

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- 3. Design speed for all vehicle swept paths is 5kph.
- 4. Stationary steering has not been used on this drawing.

STANDARD DESIGN VEHICLE (SDV)



- Overall Length 4.800m
- Overall Width 2.000m
- Overall Body Height 1.950m
- Min Body Ground Clearance 0.100m
- Track Width 2.000m
- Lock to lock time 4.00s
- Wall to Wall Turning Radius 6.000m

Forward Gear



Reverse Gear



Rev	Details	REVISION	HISTORY	Status	Drawn	Checked	Date
1				Preliminary			
2				Detailed			
3				As Built			

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Building Zone A
- Standard Design Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024



Scheme Ref:

4985

Drawing No:

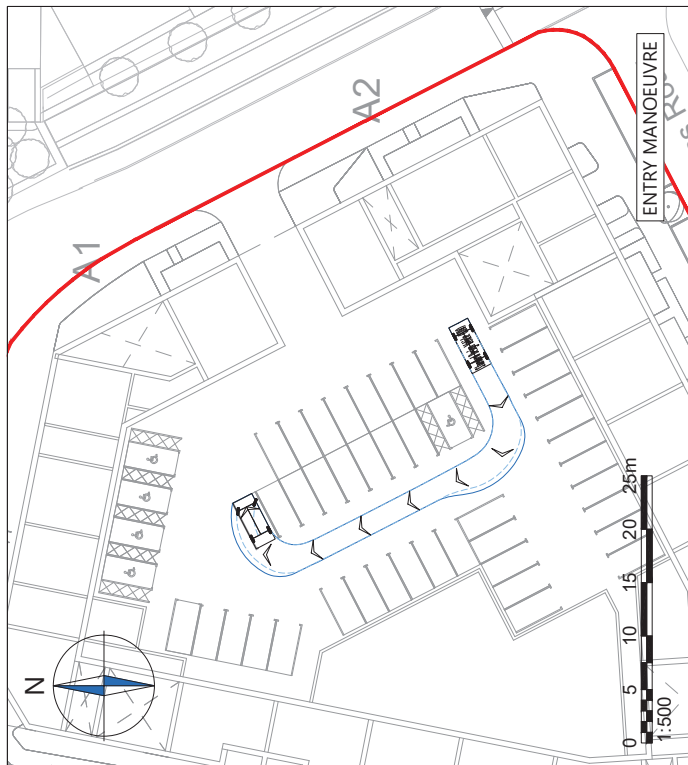
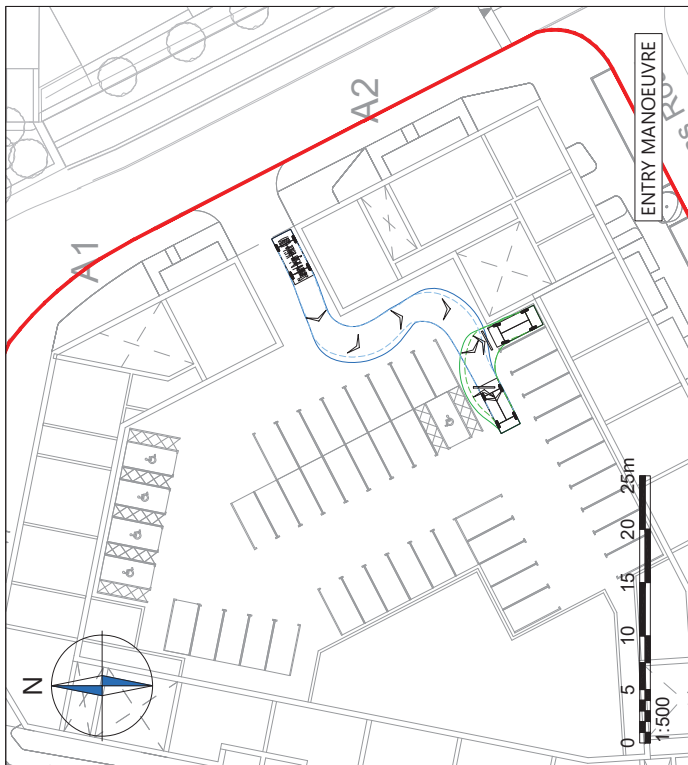
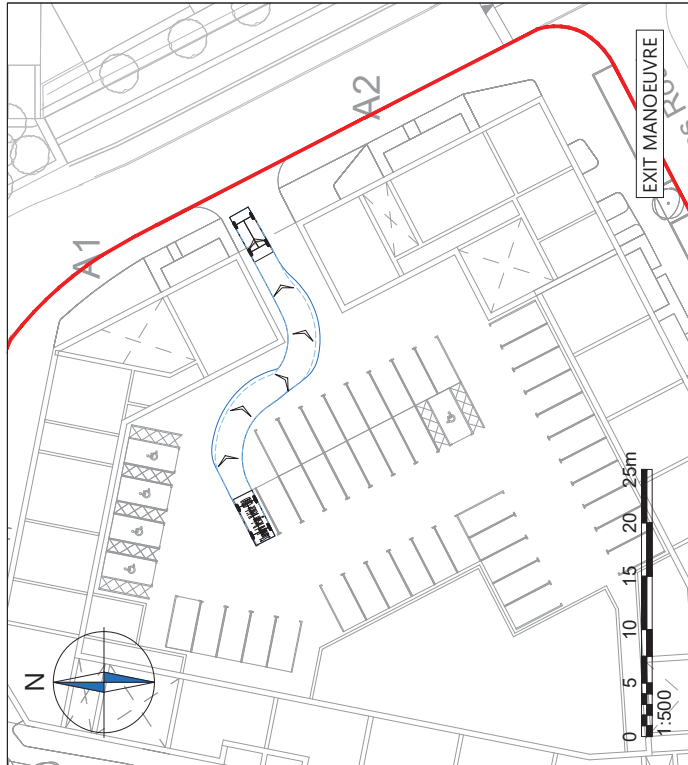
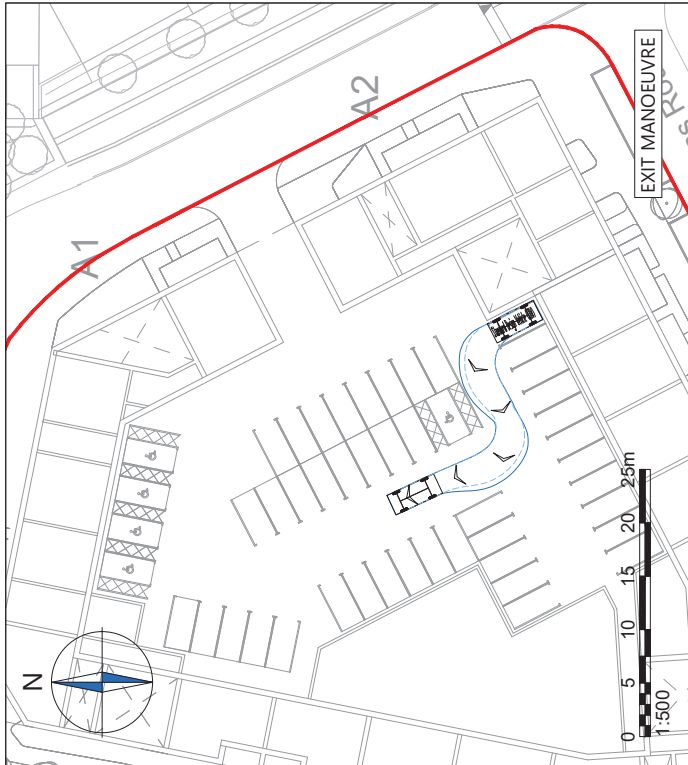
TR007

Sheet :

2 of 4

Rev:

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NOTES

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- 4. Stationary steering has not been used on this drawing.

STANDARD DESIGN VEHICLE (SDV)



Overall Length 4.800m
Overall Width 2.000m
Overall Body Height 1.950m
Min Body Ground Clearance 0.100m
Track Width 2.000m
Lock to lock time 4.00s
Wall to Wall Turning Radius 6.000m

Forward Gear Reverse Gear

Rev	Details	REVISION	HISTORY	Status	Drawn	Checked	Date
1				Preliminary			
2				Detailed			
3				As Built			

Client:

Vinci St Modwen (VSM)

Project:
St Andrew's Gate, Town Centre
Expansion, Uxbridge

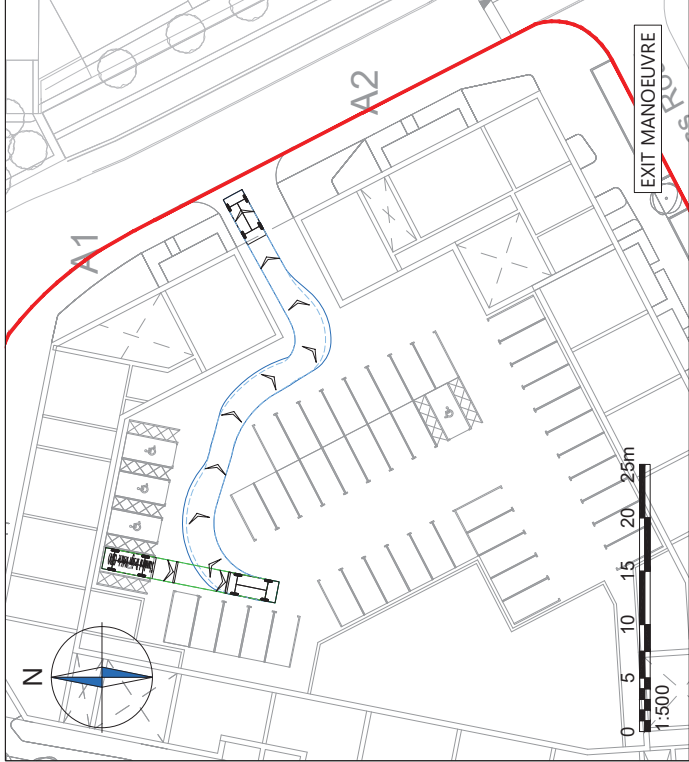
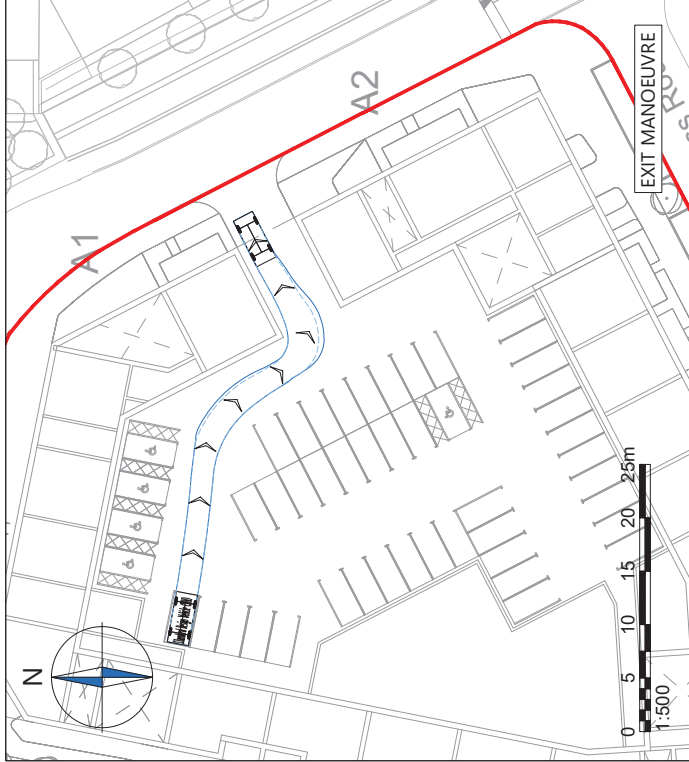
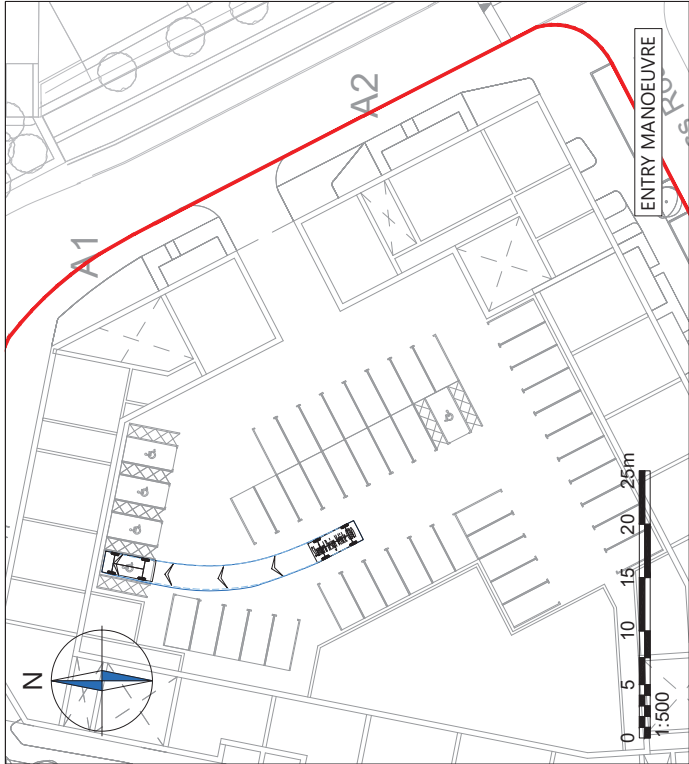
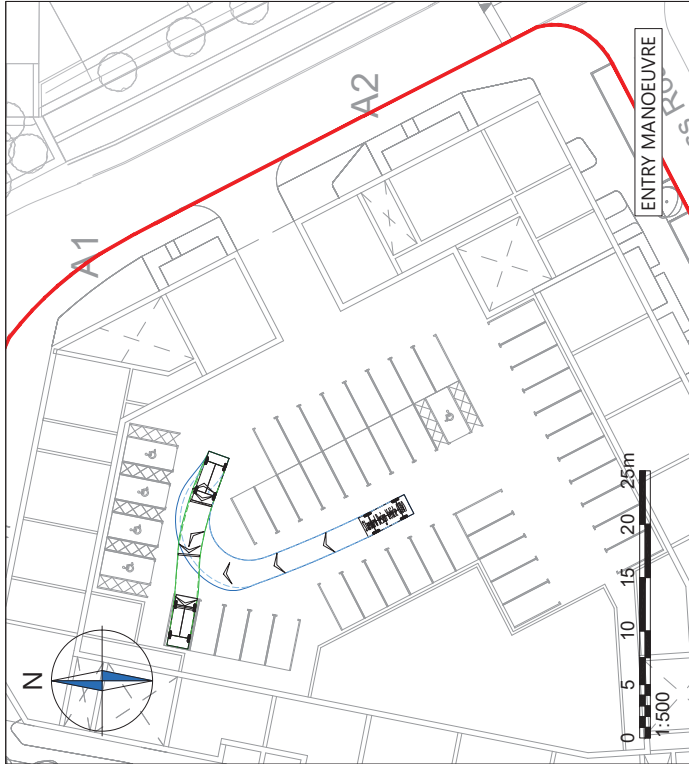
Drawing Title:

Vehicle Swept Path Analysis
- Building Zone A
- Standard Design Vehicle

Scale: 1:500 Size: A3
Drawn by: JS Checked by: CC Approved by: CC Date: 10.06.2024



Scheme Ref: 4985
Drawing No: TR007
Sheet: 3 of 4
Rev: ..



NOTES

1. This drawing to be read & printed in colour.

2. This drawing is for illustrative purposes only.

3. Design speed for all vehicle swept paths is 5kph.

4. Stationary steering has not been used on this drawing.

STANDARD DESIGN VEHICLE (SDV)

4.8

2.9

1.3

Overall Length

4.800m

Overall Width

2.000m

Overall Body Height

1.950m

Min Body Ground Clearance

0.100m

Track Width

2.000m

Lock to lock time

4.00s

Wall to Wall Turning Radius

6.000m

Forward Gear

Reverse Gear

Rev Details

Rev

Drawn

Checked

Date

REVISION

HISTORY

Status

Preliminary

Detailed

As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Building Zone C
- Standard Design Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

CANEPARO ASSOCIATES

Transport Planning & Highway Design

21 Little Portland Street

London

W1W 8BT

Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

TR008

Sheet :

1 of 2

Rev:

...

ENTRY MANOEUVRE

0

5

10

15

20

25m

1:500

Spine Road

0

5

10

15

20

25m

1:500

Spine Road

EXIT MANOEUVRE

0

5

10

15

20

25m

1:500

Spine Road

0

5

10

15

20

25m

1:500

Spine Road

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NOTES

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STANDARD DESIGN VEHICLE (SDV)

4.8

2.9

1.3

Overall Length

4.800m

Overall Width

2.000m

Overall Body Height

1.950m

Min Body Ground Clearance

0.100m

Track Width

2.000m

Lock to lock time

4.00s

Wall to Wall Turning Radius

6.000m

Forward Gear

Reverse Gear

Rev Details

Rev

Drawn

Checked

Date

REVISION

HISTORY

Status

Preliminary

Detailed

As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Building Zone C
- Standard Design Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

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Scheme Ref:

4985

Drawing No:

TR008

Sheet :

2 of 2

Rev:

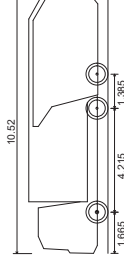
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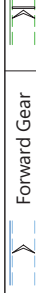
- ## NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.
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4. Stationary steering has not been used on this drawing.

PHOENIX 2-23W WITH ELITE 6X4 CHASSIS



Overall Length	10.520m
Overall Width	2.530m
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	9.950m



Rev	Details	Drawn	Checked	Date
1				12 12 2008

Status:	☒ Preliminary	☐ Detailed	☐ As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
 - Northern Access Road
 - LBH Refuse Vehicle

Scale:

1:500

Size:

A3

Drawn by:

15

checked by:

cc

ved by:

cc

Date:

10 06 2024



Scheme Ref:

4985

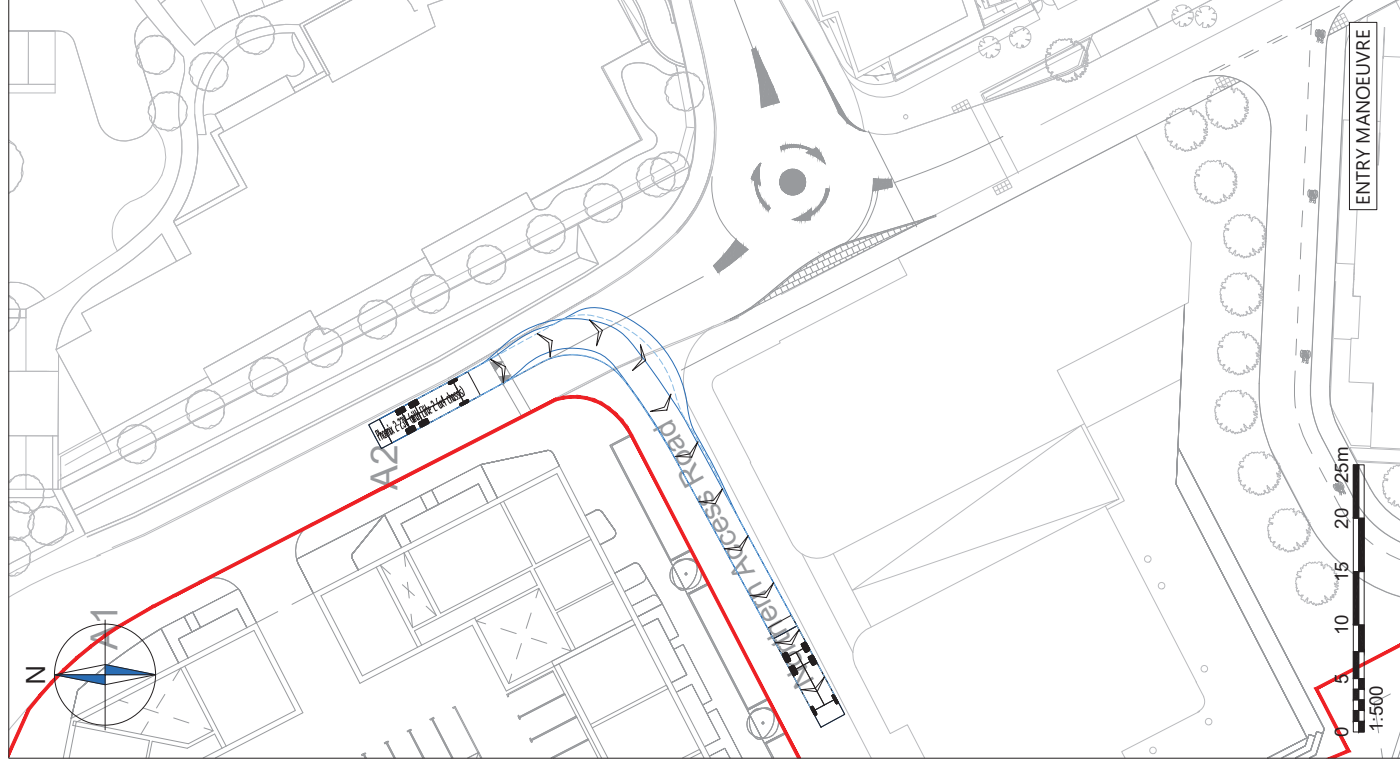
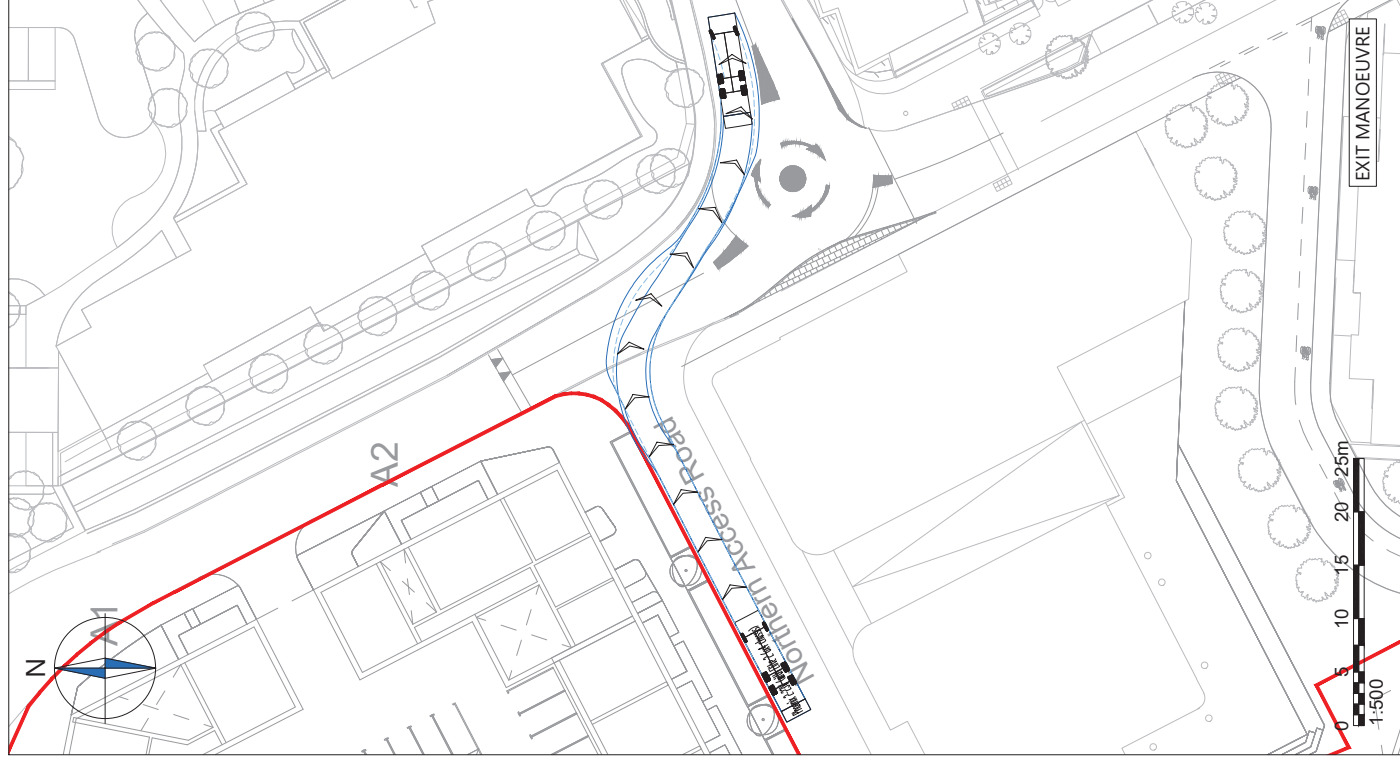
Drawing No:

TR009

Sheet :

1 of 10

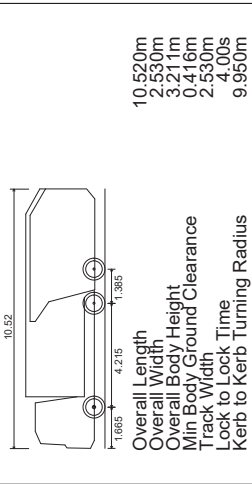
Rev:





- NOTES**
1. This drawing to be read & printed in colour.
 2. This drawing is for illustrative purposes only.
 3. Design speed for all vehicle swept paths is 5kph.
 4. Stationary steering has not been used on this drawing.

PHOENIX 2-23W WITH ELITE 6X4 CHASSIS



Forward Gear Reverse Gear

Rev	Details	REVISION	HISTORY	Status	Drawn	Checked	Date
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Client: Vinci St Modwen (VSM)

Project: St Andrew's Gate, Town Centre Expansion, Uxbridge

Drawing Title: Vehicle Swept Path Analysis
- Northern Access Road
- LBH Refuse Vehicle

Scale: 1:500 Size: A3

Drawn by: JS Checked by: CC Approved by: CC Date: 10.06.2024

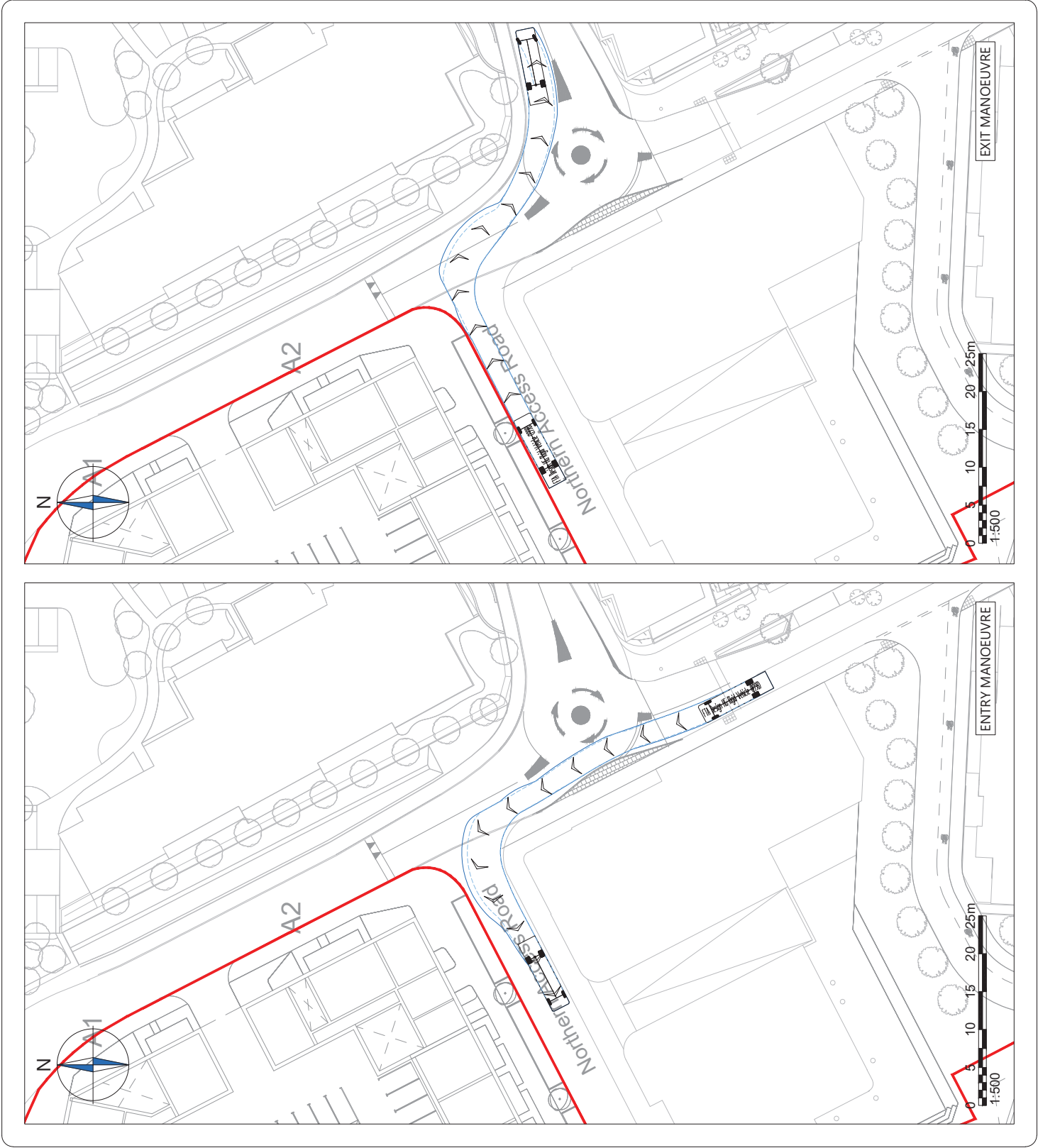
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Transport Planning & Highway Design
21 Little Portland Street • London • W1W 8BT • Tel. 020 3617 8200

Scheme Ref: 4985 Drawing No: TR009 Sheet: 2 of 10 Rev: ..



NOTES											
1. This drawing to be read & printed in colour. 2. This drawing is for illustrative purposes only. 3. Design speed for all vehicle swept paths is 5kph. 4. Stationary steering has not been used on this drawing.											
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											
Forward Gear Reverse Gear											
<table><thead><tr><th>Rev</th><th>Details</th><th>REVISION</th><th>HISTORY</th><th>Date</th></tr></thead><tbody><tr><td></td><td></td><td>☒ Preliminary</td><td>☐ Detailed</td><td>☐ As Built</td></tr></tbody></table>		Rev	Details	REVISION	HISTORY	Date			☒ Preliminary	☐ Detailed	☐ As Built
Rev	Details	REVISION	HISTORY	Date							
		☒ Preliminary	☐ Detailed	☐ As Built							

Client:	
Vinci St Modwen (VSM)	
Project:	
St Andrew's Gate, Town Centre Expansion, Uxbridge	
Drawing Title:	
Vehicle Swept Path Analysis - Northern Access Road - FTA Design Rigid Vehicle	
Scale:	
1:500	
Size:	
A3	
Drawn by:	
JS	
Checked by:	
CC	
Approved by:	
CC	
Date:	
10.06.2024	
Transport Planning & Highway Design	
21 Little Portland Street • London • W1W 8BT • Tel. 020 3617 8200	
Scheme Ref:	
4985	
Drawing No:	
TR009	
Sheet :	
3 of 10	
Rev:	
..	



NOTES				
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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				
Forward Gear	Reverse Gear			
REVISION HISTORY				
Rev	Details	Drawn	Checked	Date
Status	Preliminary	Detailed	As Built	

Client:		Vinci St Modwen (VSM)	
Project:		St Andrew's Gate, Town Centre Expansion, Uxbridge	
Drawing Title:		Vehicle Swept Path Analysis - Northern Access Road - FTA Design Rigid Vehicle	
Scale:		1:500	
Size:		A3	
Drawn by:		JS	
Checked by:		CC	
Approved by:		CC	
Date:		10.06.2024	
Scheme Ref:		4985	
Drawing No:		TR009	
Sheet:		4 of 10	
Rev:		..	

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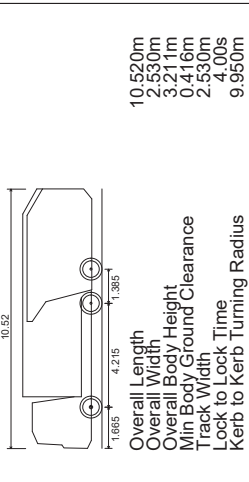
- NOTES
1. This drawing to be read & printed in colour.

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4. Stationary steering has not been used on this drawing.

PHOENIX 2-23W WITH ELITE 6X4 CHASSIS



Forward Gear

Reverse Gear

Rev	Details	REVISION	HISTORY	Status	Drawn	Checked	Date
				☒ Preliminary			
				☐ Detailed			
				☐ As Built			

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Northern Access Road
- LBH Refuse Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

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Scheme Ref:

4985

Drawing No:

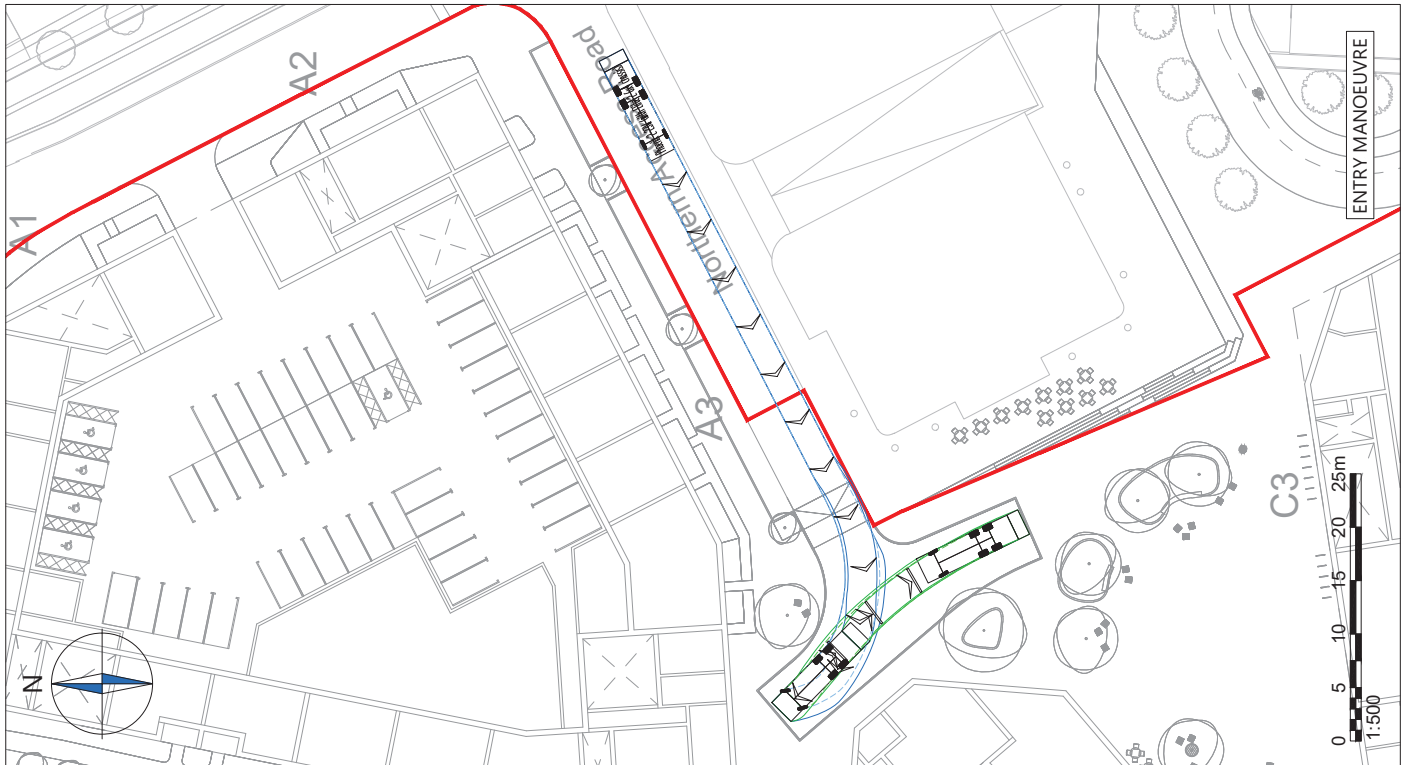
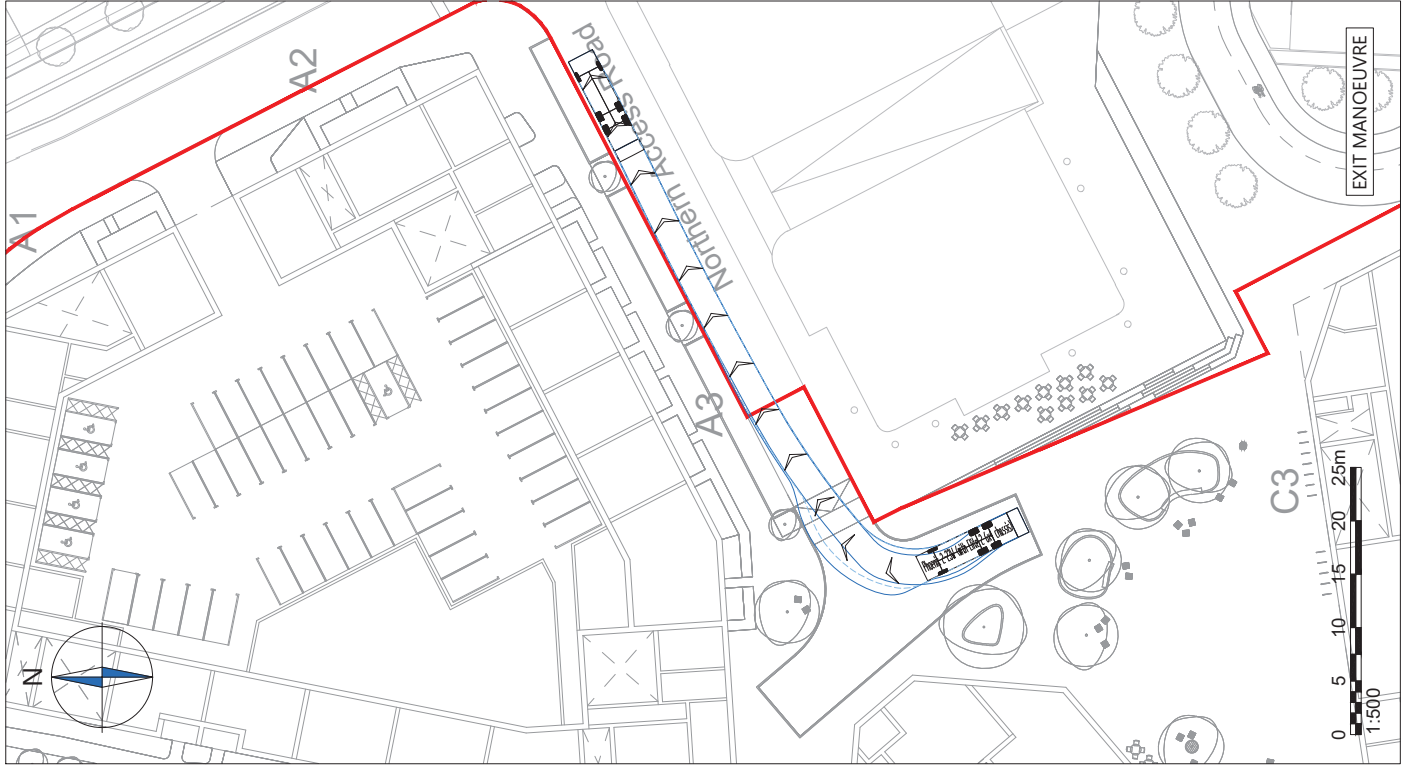
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Sheet :

5 of 10

Rev:

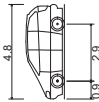
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NOTES

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- 4. Stationary steering has not been used on this drawing.

STANDARD DESIGN VEHICLE (SDV)



- Overall Length 4.800m
- Overall Width 2.000m
- Overall Body Height 1.950m
- Min Body Ground Clearance 0.100m
- Track Width 2.000m
- Lock to lock time 4.00s
- Wall to Wall Turning Radius 6.000m

Forward Gear Reverse Gear

Rev	Details	REVISION	HISTORY	Status	Drawn	Checked	Date
1				Preliminary			
				Detailed			
				As Built			

Client:

Vinci St Modwen (VSM)

Project:
St Andrew's Gate, Town Centre
Expansion, Uxbridge

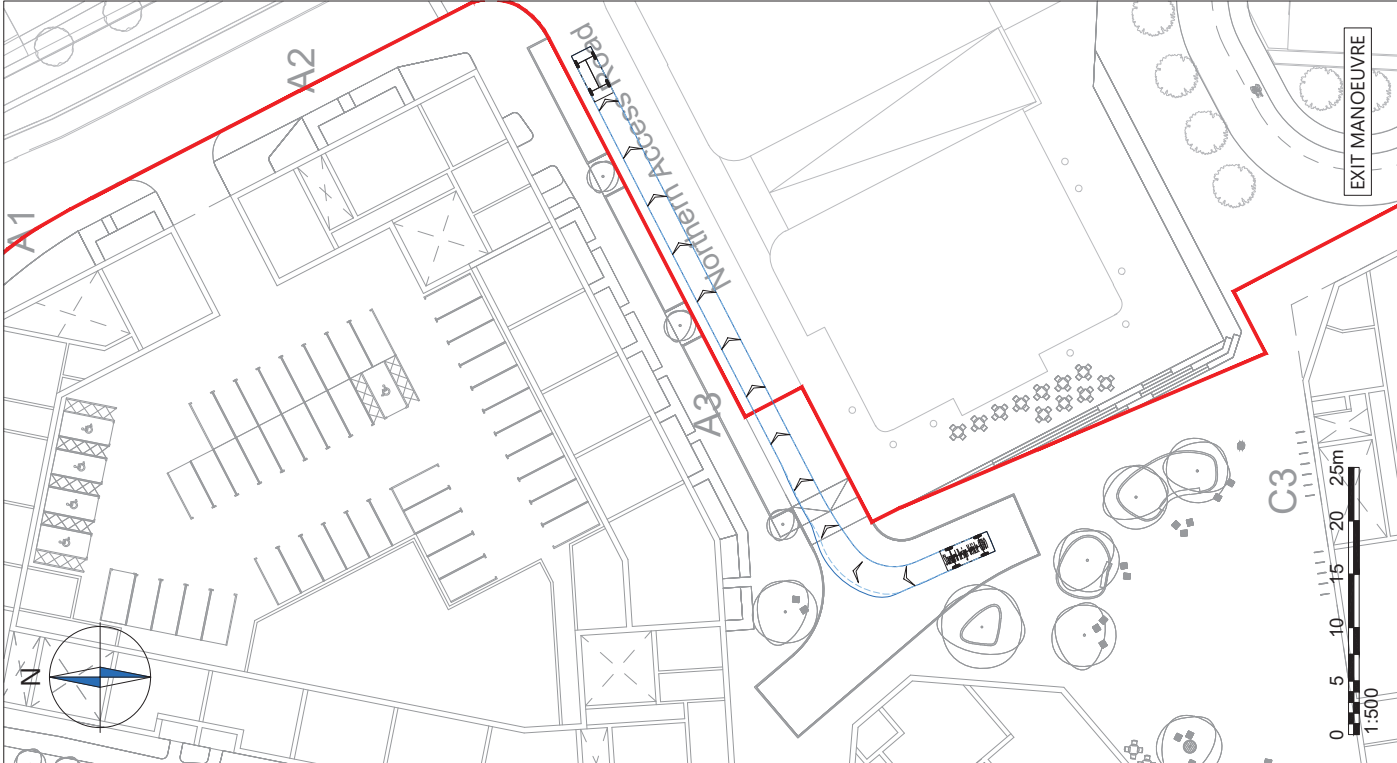
Drawing Title:

Vehicle Swept Path Analysis
- Northern Access Road
- Standard Design Vehicle

Scale: 1:500 Size: A3
Drawn by: JS Checked by: CC Approved by: CC Date: 10.06.2024



Scheme Ref: 4985 Drawing No: TR009 Sheet: 7 of 10 Rev: ..



1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.
3. Design speed for all vehicle swept paths is 5kph.
4. Stationary steering has been used on this drawing.

A diagram of a car with a grid pattern. Dimensions are indicated: a vertical line on the left shows a height of 4.8; a horizontal line below the car shows a wheelbase of 2.9; and a horizontal line at the front shows a front overhang of 0.9.

Overall Length	4.800m
Overall Width	2.000m
Overall Body Height	1.950m
Min Body Ground Clearance	0.100m
Track Width	2.000m
Lock to lock time	4.00s
Wall to Wall Turning Radius	6.000m



Rev	Details	REVISION HISTORY				Date
		Drawn	Checked			
1	...	...	...	...	...	...

Status:	☒ Preliminary	☐ Detailed	☐ As Built
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Vinci St Modwen (VSM)

St Andrew's Gate, Town Centre Expansion, Uxbridge

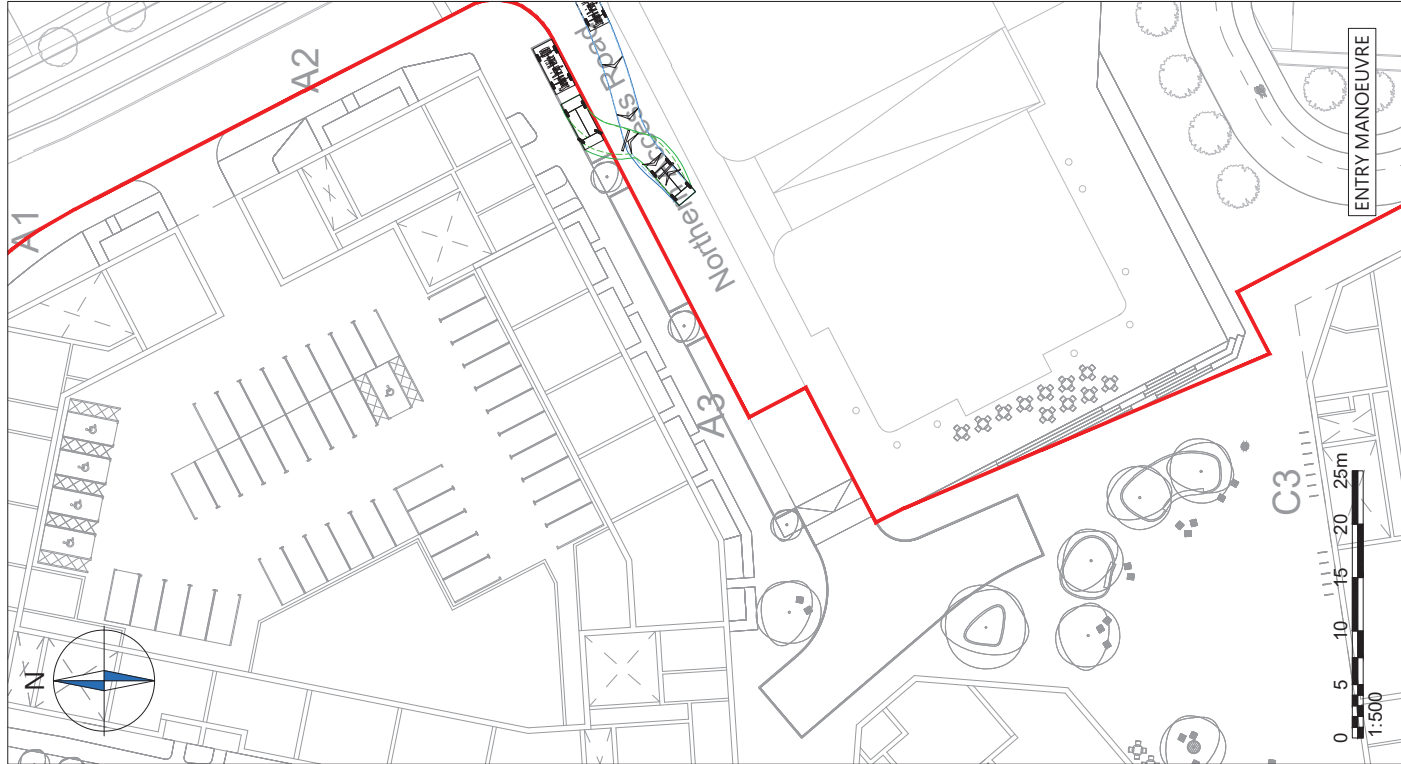
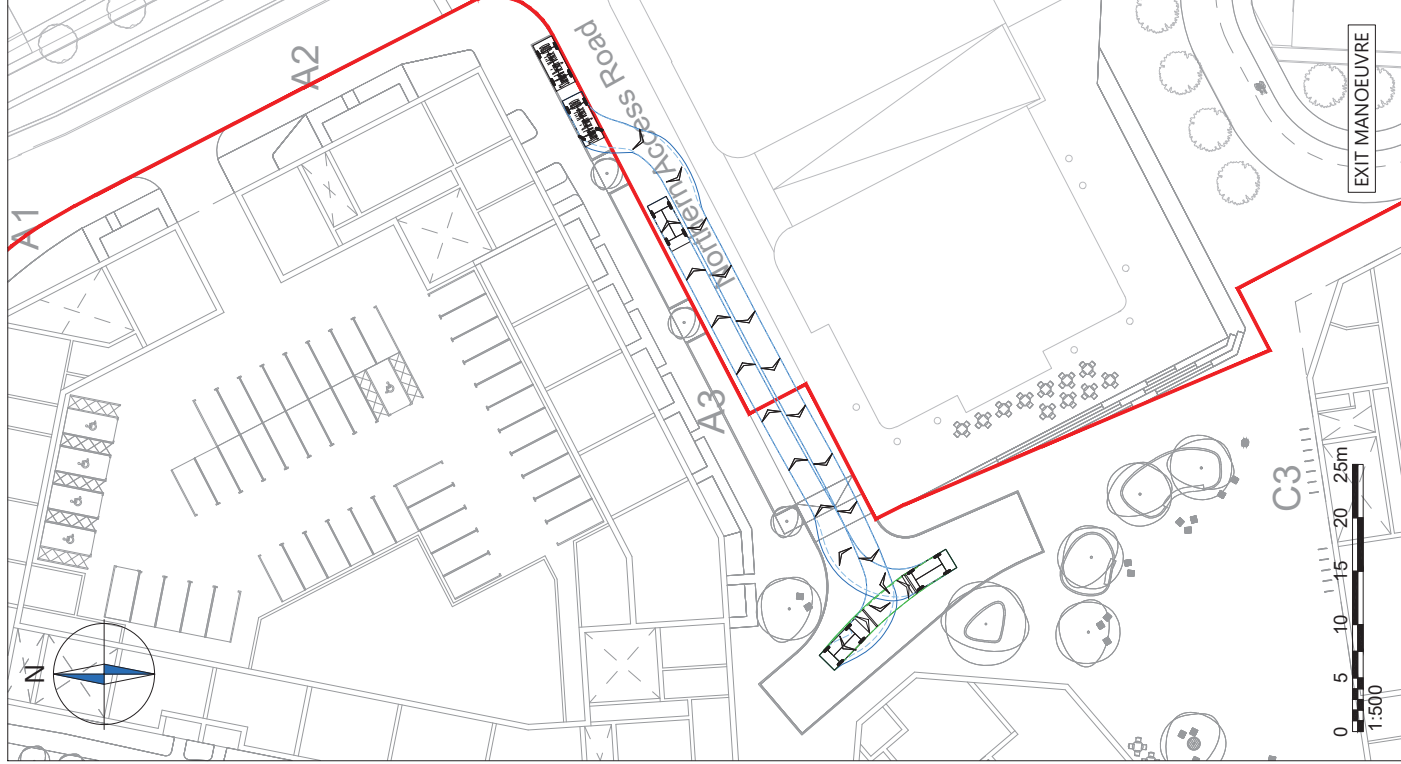
Vehicle Swept Path Analysis

- Northern Access Road
- Standard Design Vehicle

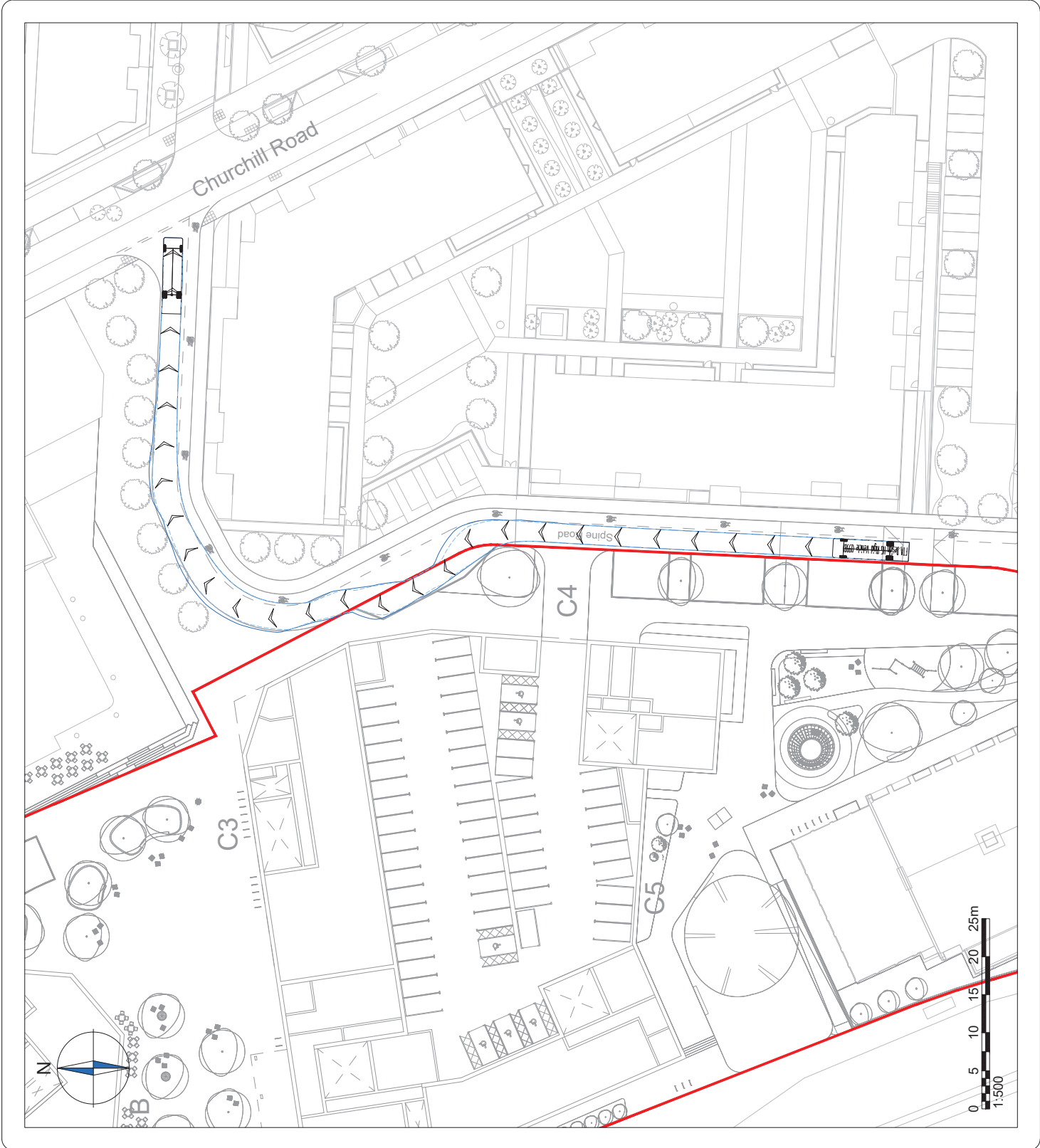
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Scheme Ref: 4985 Drawing No: TR009 Sheet : 10 of 10 Rev: ...



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NOTES

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FTA DESIGN HG RIGID VEHICLE (1998)

10

6.1

1.4

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

Forward Gear

Reverse Gear

Rev Details

Revision History

Status

Drawn

Checked

Date

☒ Preliminary

☐ Detailed

☐ As Built

Client:

Vinci St Modwen (VSM)

Project:

St Andrew's Gate, Town Centre
Expansion, Uxbridge

Drawing Title:

Vehicle Swept Path Analysis
- Northern Access Road
- FTA Design Rigid Vehicle

Scale:

1:500

Size:

A3

Drawn by:

JS

Checked by:

CC

Approved by:

CC

Date:

10.06.2024

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Transport Planning & Highway Design

21 Little Portland Street • London • W1W 8BT • Tel. 020 3617 8200

Scheme Ref:

4985

Drawing No:

TR010

Sheet :

2 of 2

Rev:

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