



Appendix D Swept Path Analysis Review of the Illustrative Site Layout

Weycock Cross, Barry

Transport Statement

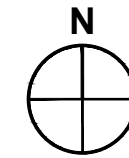
Cardiff and Vale College

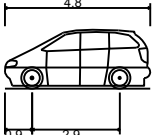
SLR Project No.: 425.001380.0001

15 December 2023

7.5t Panel Van
Inbound Servicing

7.5t Panel Van
Outbound Servicing



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

Minimal clearance shown
between two way working
vehicles.

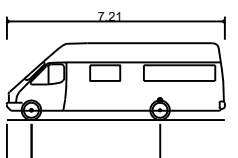
Minimal clearance shown
between two way working
vehicles.

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REV.	DETAILS	DRAWN	CHECKED	DATE
A	Updated Masterplan	KR	CP	12.10.23
B	Updated Masterplan	RJ	CP	01.12.23
C	Updated Masterplan	RJ	CP	15.12.23

Notes:
1. This is not a construction drawing and is intended for illustrative purposes only.
2. White lining is indicative only.

7.5t Panel Van	
	Overall Length 7.210m
	Overall Width 2.192m
	Overall Body Height 2.544m
	Min Body Ground Clearance 0.316m
	Track Width 1.865m
	Lock to lock time 4.00s
	Kerb to Kerb Turning Radius 7.400m

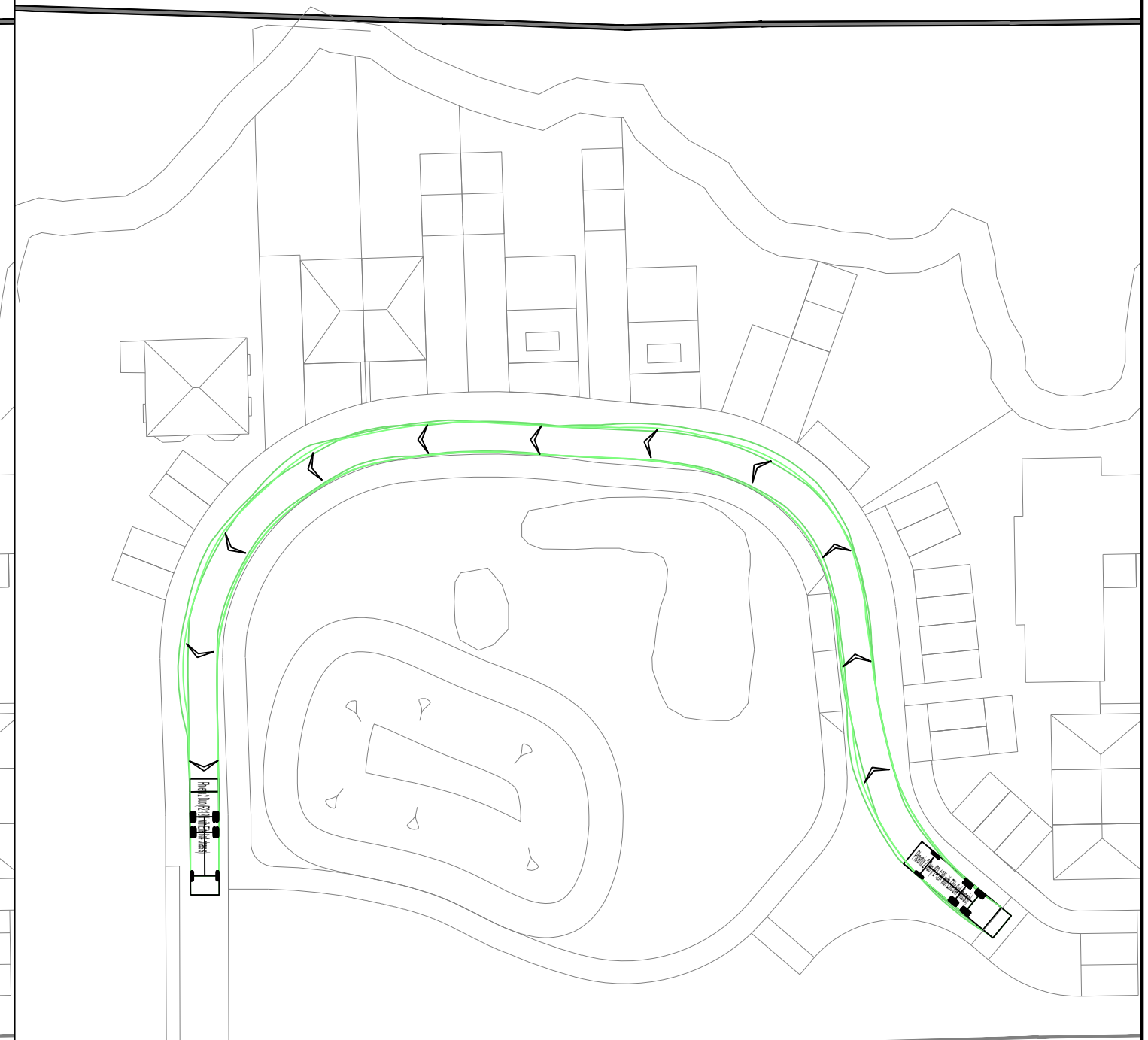
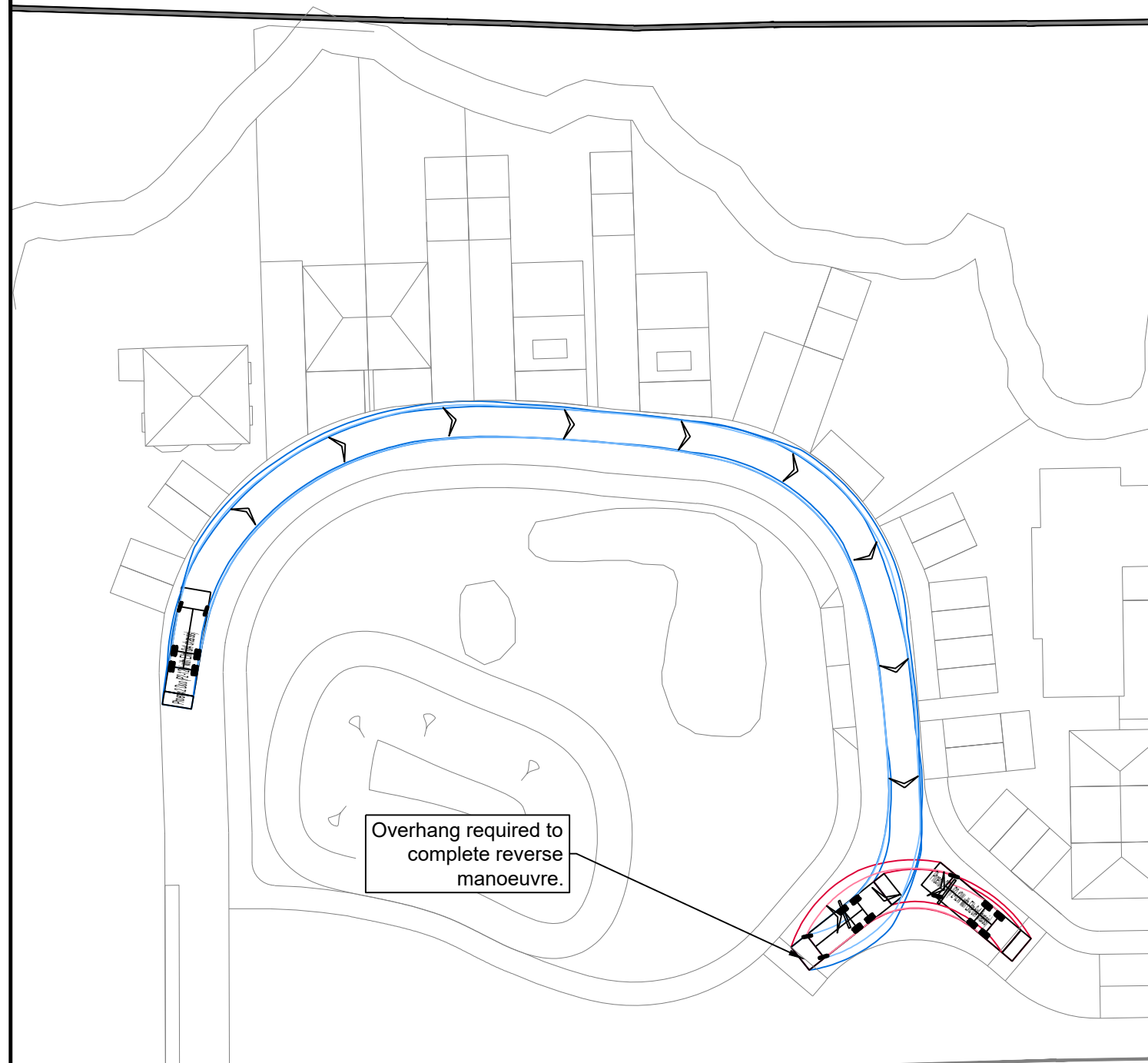
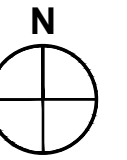
INFORMATION ONLY

Waycock Cross, Barry		Cardiff and Vale College	
Proposed Masterplan Option A Two Way Working Standard Design Vehicle & 7.5t Panel Van			
DRAWN: KR	CHECKED: CP	DATE: 29.06.23	SCALES: 1:500 at A3
DRAWING NUMBER: 216432_AT_A04			REVISION: C



10.2m Refuse Vehicle
Inbound Servicing

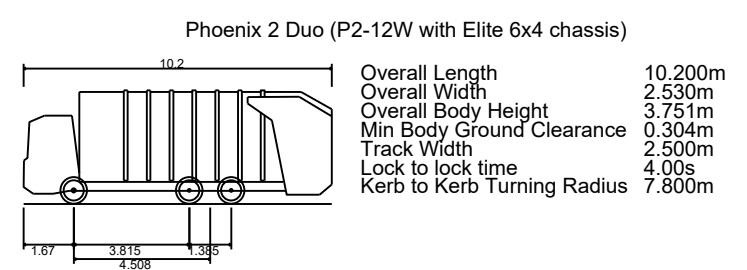
10.2m Refuse Vehicle
Outbound Servicing



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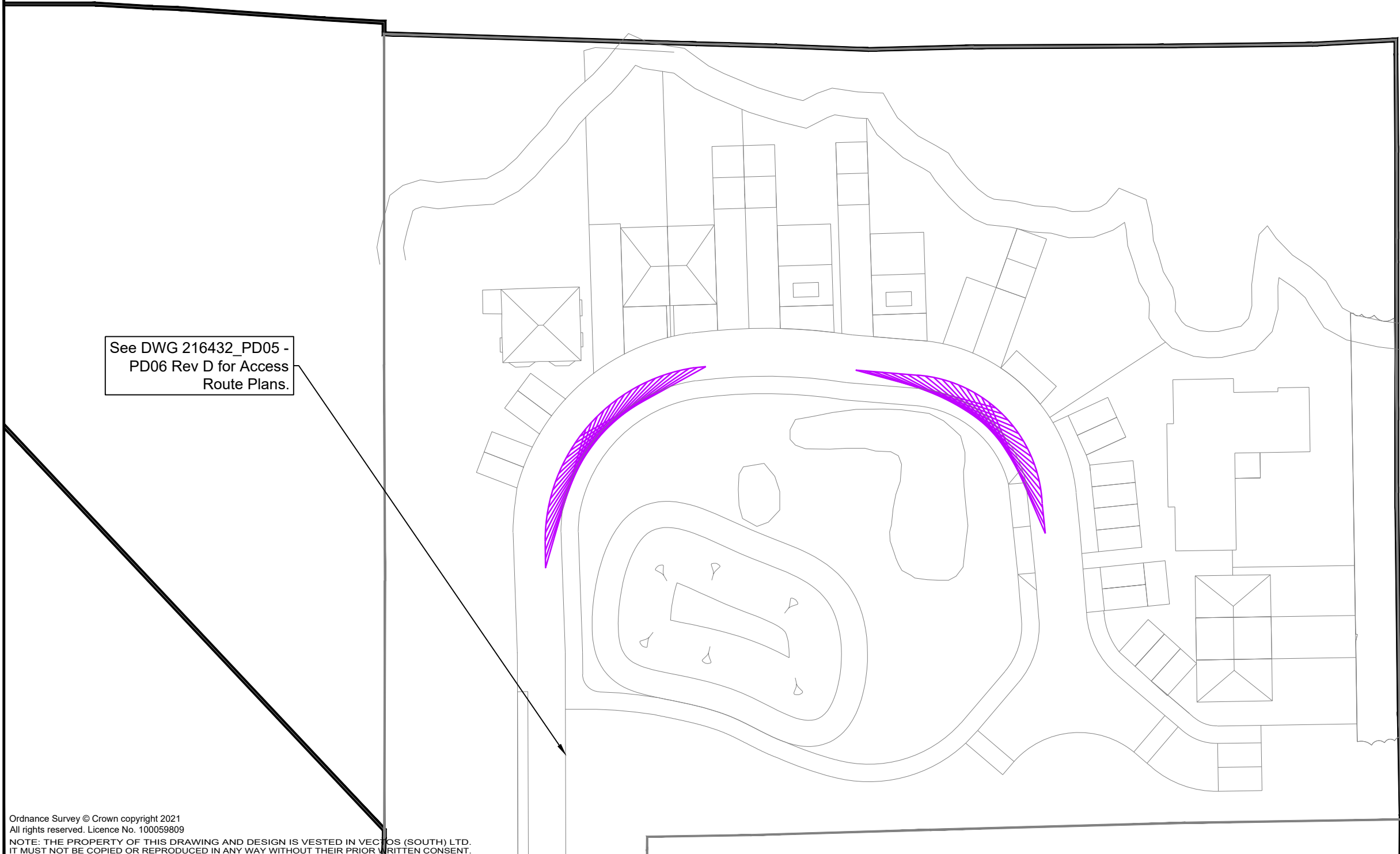
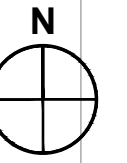
REV.	DETAILS	DRAWN	CHECKED	DATE
A	Updated Masterplan	KR	CP	12.10.23
B	Updated Masterplan	RJ	CP	01.12.23
C	Updated Masterplan	RJ	CP	15.12.23

Notes:
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INFORMATION ONLY

Waycock Cross, Barry		Cardiff and Vale College	
Proposed Masterplan Option A			
10.2m Refuse Vehicle Servicing			
DRAWN: KR	CHECKED: CP	DATE: 29.06.23	SCALES: 1:500 at A3
DRAWING NUMBER: 216432_AT_A03		REVISION: C	



See DWG 216432_PD05 - PD06 Rev D for Access Route Plans.

3m buffer to northern woodland canopy

5m buffer to eastern boundary

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REV.	DETAILS	DRAWN	CHECKED	DATE
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B	Updated Masterplan	RJ	CP	01.12.23
C	Updated Masterplan	RJ	CP	15.12.23

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Legend:

— 17m Forward Visibility (Based on 15mph MFS)

INFORMATION ONLY

Waycock Cross, Barry

**Proposed Masterplan Option A
Site Review**

DRAWN: KR	CHECKED: CP	DATE: 29.06.23	SCALES: 1:500 at A3
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Cardiff and Vale College

DRAWING NUMBER: 216432_SK01	REVISION: C
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Appendix E Site Access Junction Drawings

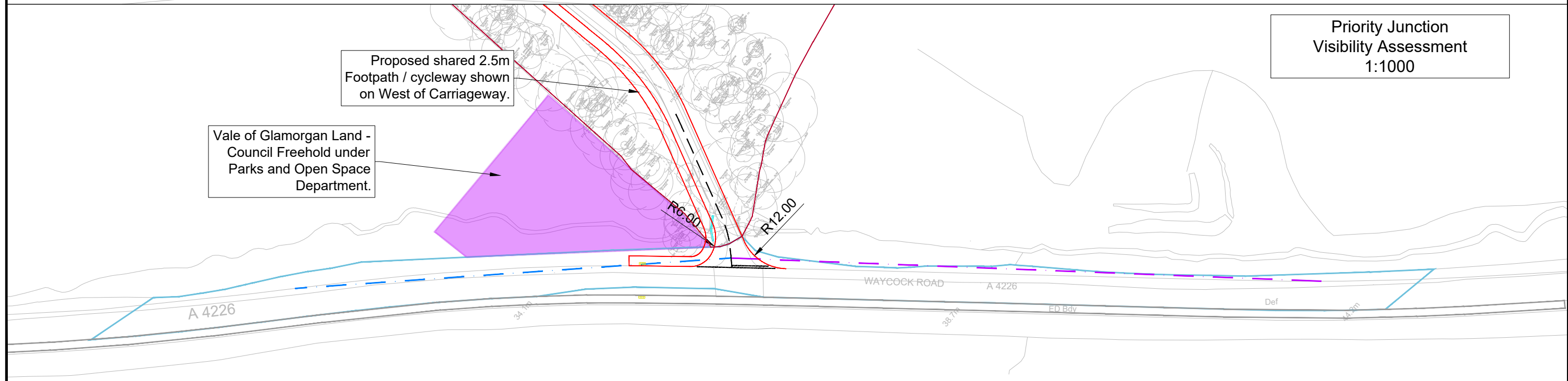
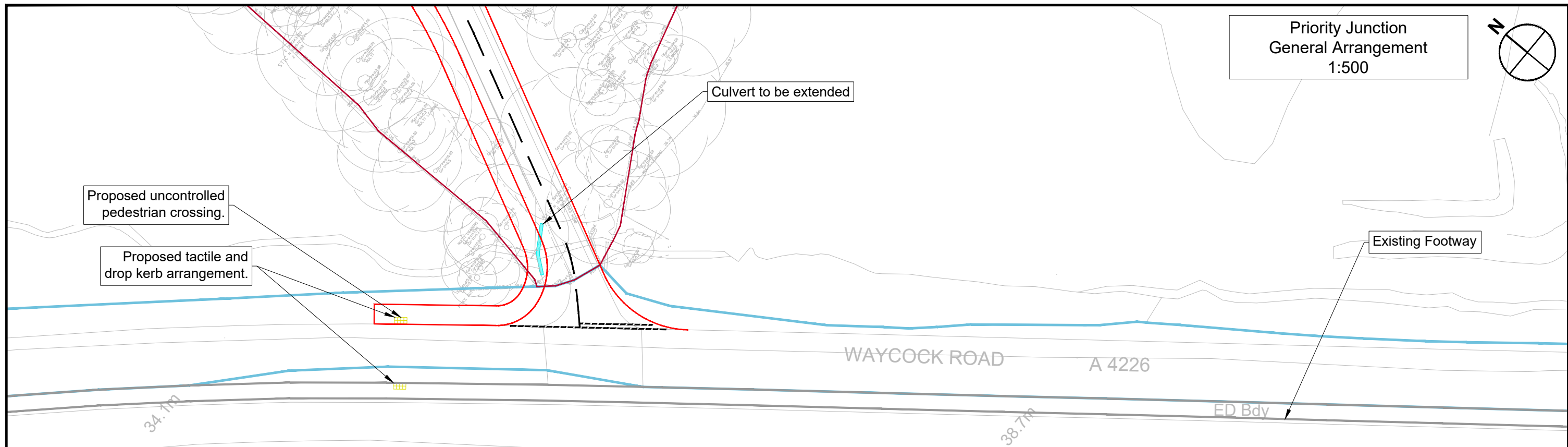
Weycock Cross, Barry

Transport Statement

Cardiff and Vale College

SLR Project No.: 425.001380.0001

15 December 2023



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REV.	DETAILS	DRAWN	CHECKED	DATE
A	Updated Road Alignment	RJ	CP	16.11.23
B	Updated Road Alignment	RJ	CP	23.11.23
C	Updated Road Alignment	RJ	CP	01.12.23
D	Title Plan Boundary Added	KR	CP	04.12.23

Notes:
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 2. White lining is indicative only.

Legend:

- 2.4m x 149.6m Southbound Visibility Splay (based on 52.6mph 85th Percentile)
- 2.4m x 111.1m Northbound Visibility Splay (based on 44.3mph 85th Percentile)
- Adopted Highway Boundary (Based on Vale of Glamorgan Interactive records)
- Title Plan Redline Boundary - CYM458778


INFORMATION ONLY

Waycock Cross, Barry

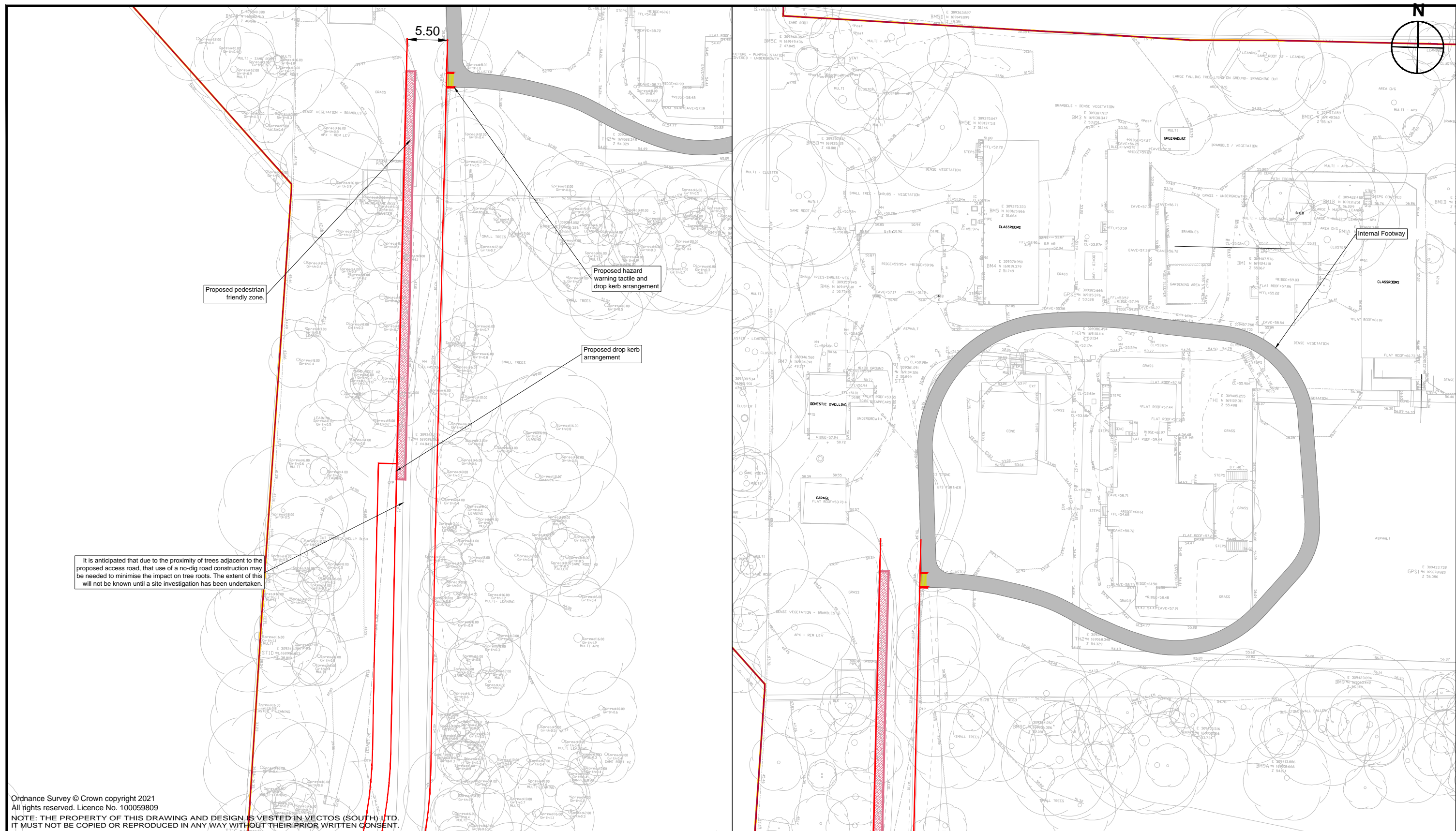
**Simple Priority Junction
General Arrangement**

DRAWN: KR	CHECKED: CP	DATE: 25.10.23	SCALES: As Shown at A3
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Cardiff and Vale College



DRAWING NUMBER: 216432_PD05	REVISION: D
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B	Updated Road Alignment	RJ	CP	23.11.23
C	Updated Road Alignment	RJ	CP	01.12.23
D	Title Plan Boundary Added	KR	CP	04.12.23

Notes:
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LEGEND:
 - Proposed Kerb
 - 30mm Upstand to Pedestrian Zone
 - Internal Footway

INFORMATION ONLY

Weycock Cross, Barry

Proposed Carriageway Alignment General Arrangement

DRAWN:	CHECKED:	DATE:	SCALES:
KR	CP	29.06.23	1:500 at A3

Cardiff and Vale College

DRAWING NUMBER:	REVISION:
216432_PD06	D



Appendix F Swept Path Analysis Drawings

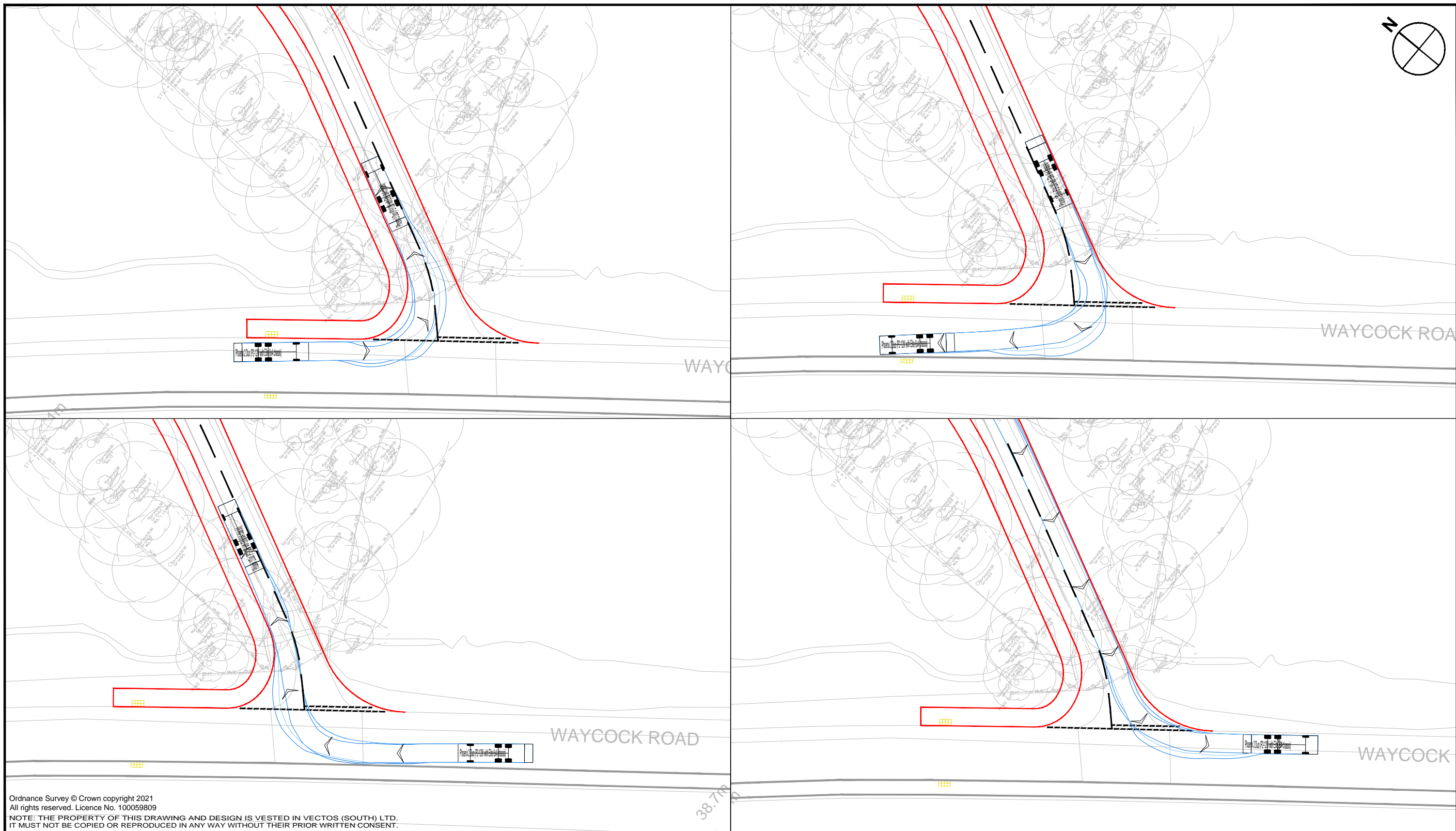
Weycock Cross, Barry

Transport Statement

Cardiff and Vale College

SLR Project No.: 425.001380.0001

15 December 2023



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REV.	DETAILS	DRAWN	CHECKED	DATE
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B	Updated Road Alignment	RJ	CP	23.11.23
C	Updated Road Alignment	RJ	CP	01.12.23
D	Title Plan Boundary Added	KR	CP	04.12.23

Notes:

- This is not a construction drawing and is intended for illustrative purposes only.
- White lining is indicative only.

Phoenix 2 Duo (P2-12W with Elite 6x4 chassis)

Overall Length 10.200m
 Overall Width 2.530m
 Overall Body Height 3.751m
 Min Body Ground Clearance 0.304m
 Track Width 2.500m
 Lock to lock time 4.00s
 Kerb to Kerb Turning Radius 7.800m

INFORMATION ONLY

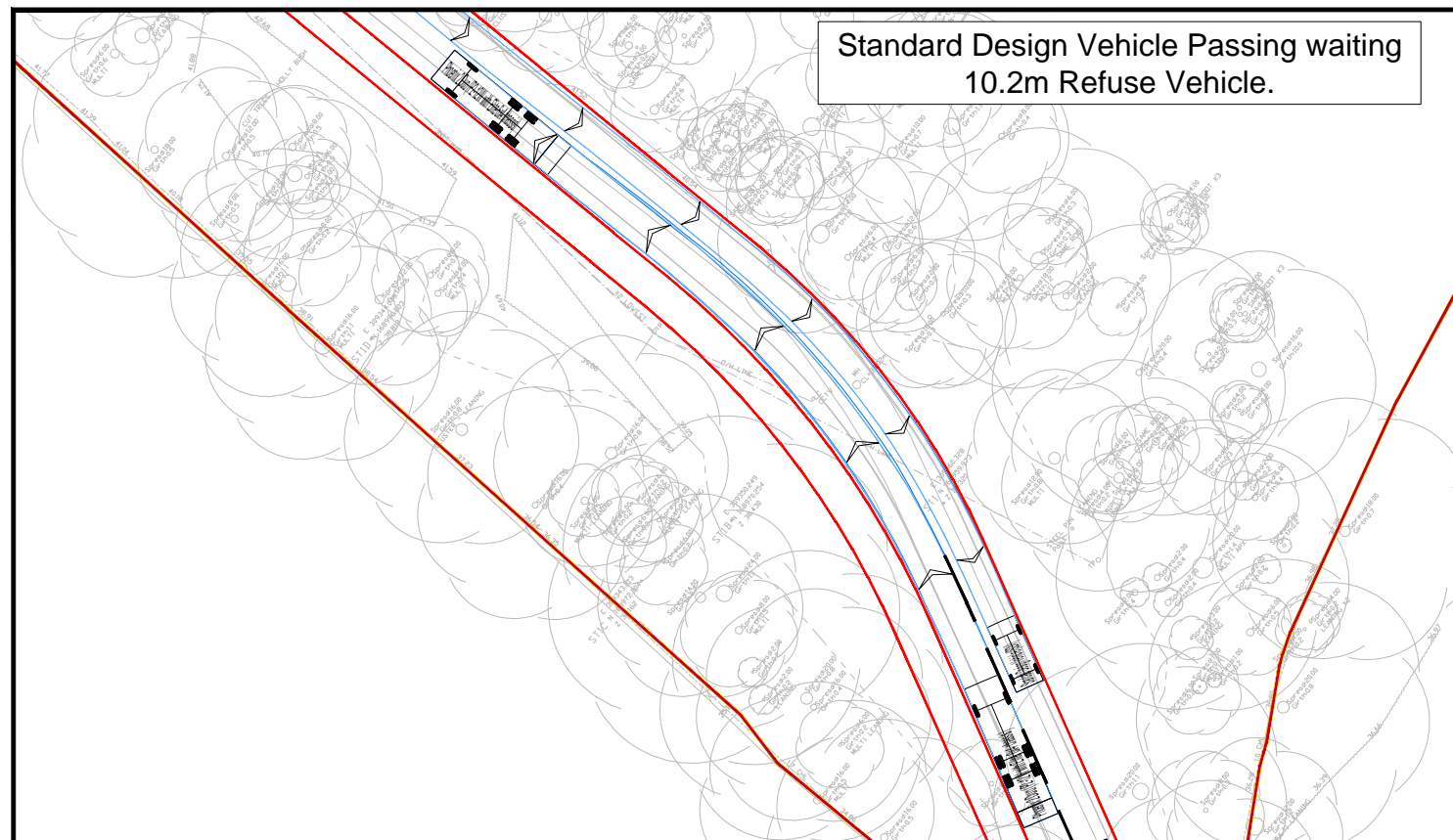
Weycock Cross, Barry

**Priority Junction
 Refuse Swept Path Analysis**

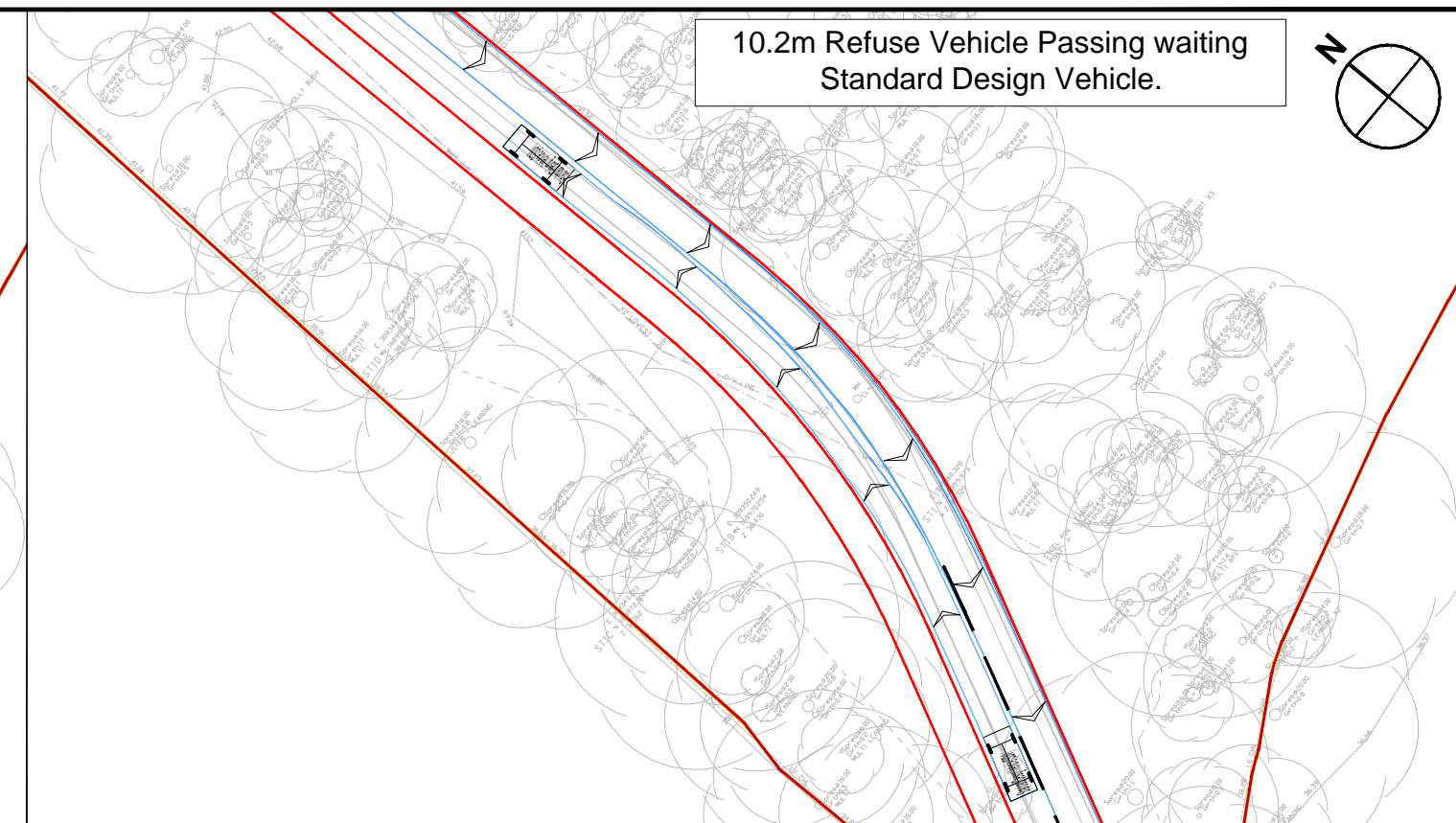
DRAWN: KR	CHECKED: CP	DATE: 25.10.23	SCALES: 1:500 at A3
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Cardiff and Vale College

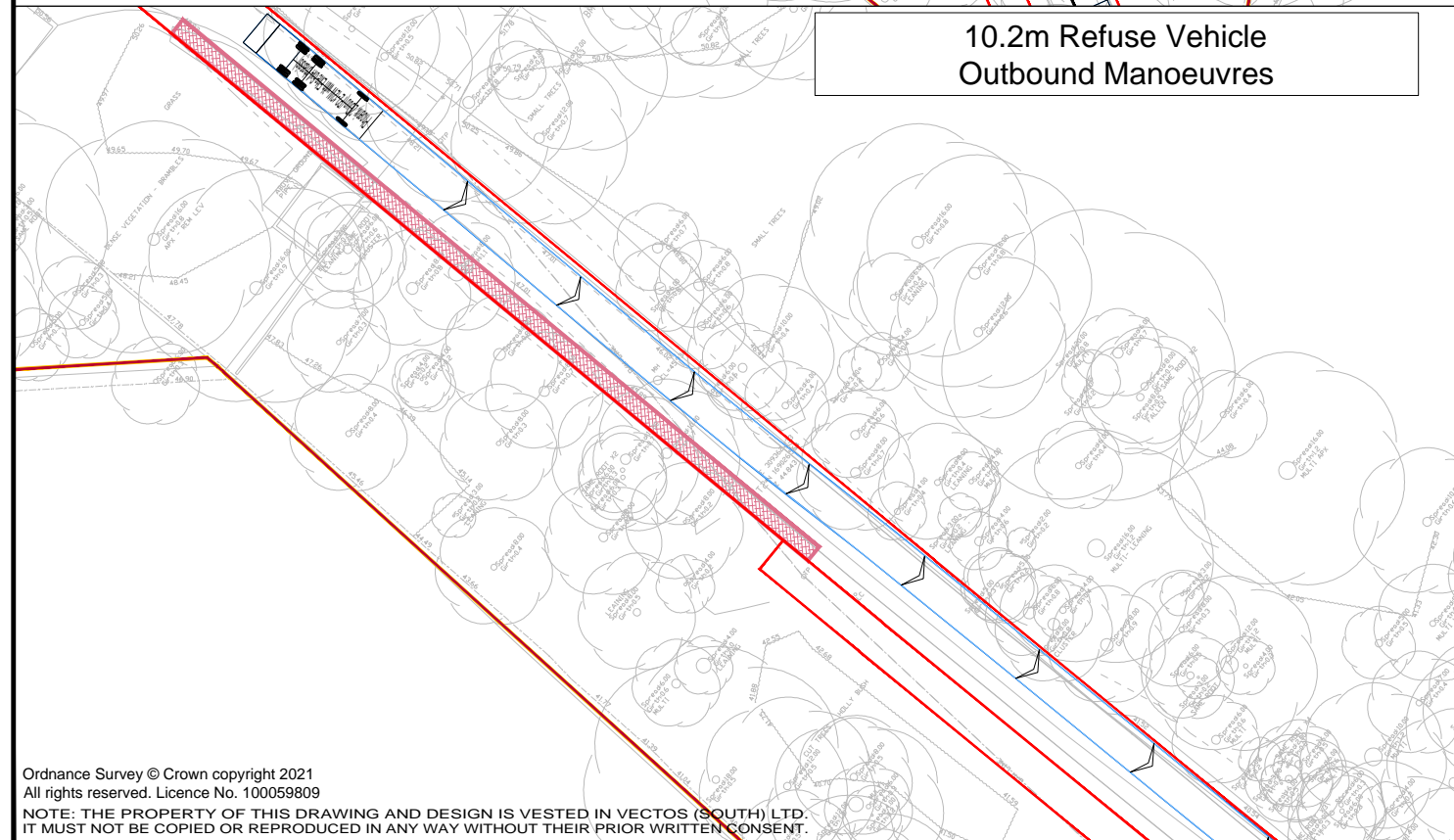
DRAWING NUMBER: 216432_AT_B01	REVISION: D
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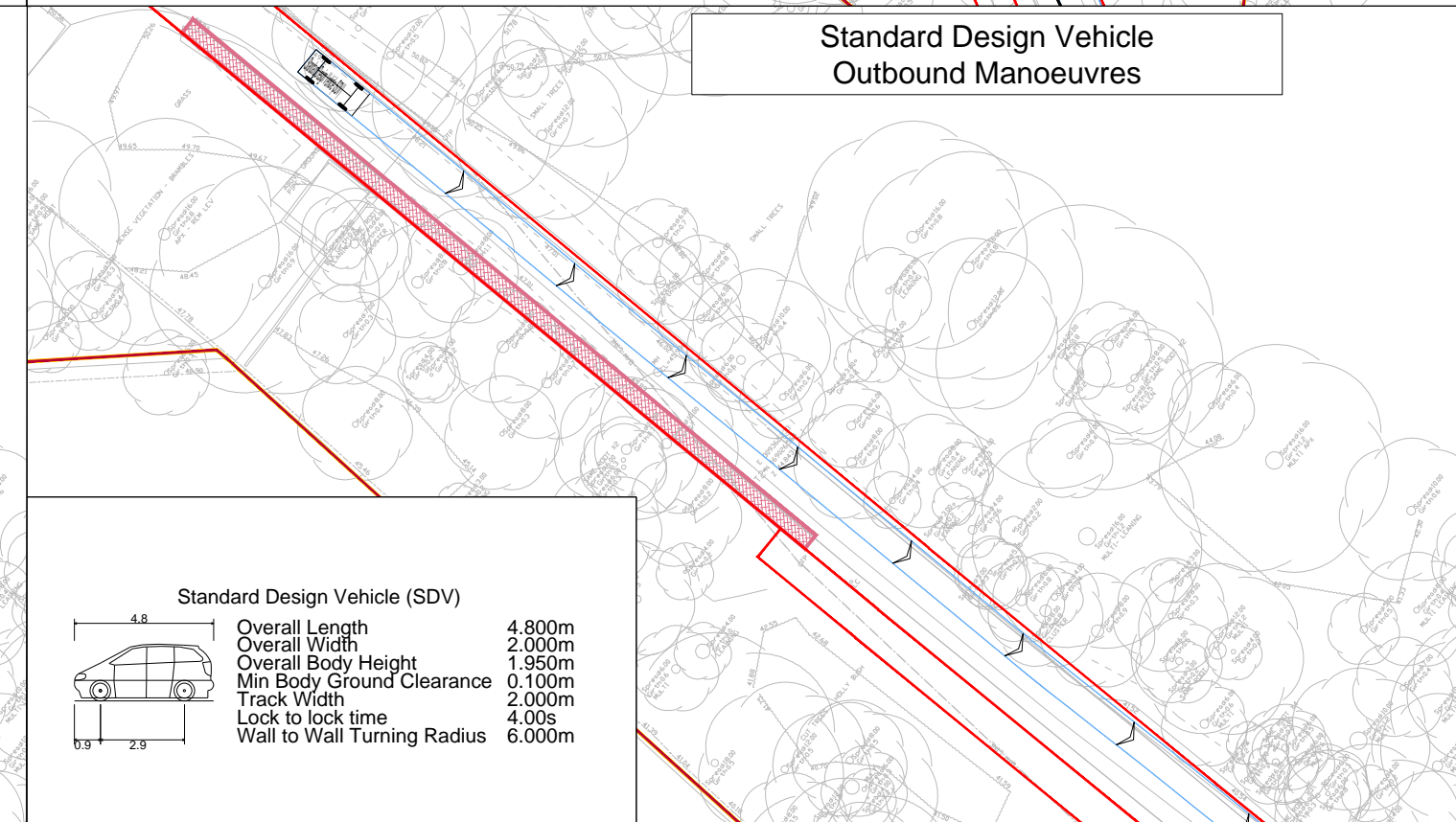
Standard Design Vehicle Passing waiting 10.2m Refuse Vehicle.



10.2m Refuse Vehicle Passing waiting Standard Design Vehicle.



10.2m Refuse Vehicle Outbound Manoeuvres



Standard Design Vehicle Outbound Manoeuvres

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

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Notes:
 1. This is not a construction drawing and is intended for illustrative purposes only.
 2. White lining is indicative only.

Phoenix 2 Duo (P2-12W with Elite 6x4 chassis)

Overall Length	10.200m
Overall Width	2.530m
Overall Body Height	3.751m
Min Body Ground Clearance	0.304m
Track Width	2.500m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	7.800m

INFORMATION ONLY

Weycock Cross, Barry		Cardiff and Vale College	
Swept Path Analysis			
Access Road			
DRAWN: KR	CHECKED: CP	DATE: 25.10.23	SCALES: 1:500 at A3
DRAWING NUMBER: 216432_AT_B02		REVISION: D	



Appendix G TRICS Outputs

Weycock Cross, Barry

Transport Statement

Cardiff and Vale College

SLR Project No.: 425.001380.0001

15 December 2023

Calculation Reference: AUDIT-152303-230728-0731

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Selected regions and areas:

02	SOUTH EAST	
	BO BEDFORD	1 days
	MW MEDWAY	1 days
03	SOUTH WEST	
	DC DORSET	1 days
	SD SWINDON	1 days
04	EAST ANGLIA	
	PB PETERBOROUGH	1 days
	SF SUFFOLK	1 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
06	WEST MIDLANDS	
	ST STAFFORDSHIRE	1 days
	WK WARWICKSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	BY BARNSELY	1 days
	SE SHEFFIELD	1 days
08	NORTH WEST	
	AC CHESHIRE WEST & CHESTER	1 days
10	WALES	
	PS POWYS	1 days

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

Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: No of Dwellings
 Actual Range: 18 to 30 (units:)
 Range Selected by User: 18 to 30 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/15 to 09/11/22

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	4 days
Wednesday	5 days
Thursday	4 days

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

Selected survey types:

Manual count	13 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Edge of Town Centre	1
Suburban Area (PPS6 Out of Centre)	5
Edge of Town	5