

25045-02-001

**PROPOSED ROAD UPGRADE WORKS
AT BELVIEW, CO. KILKENNY**

Road Safety Audit Stage 1

for

TOBIN CONSULTING

MAY 2026



7, Ormonde Road
Kilkenny.
R95 N4FE

Tel: 056 7795800
info@roadplan.ie
www.roadplan.ie

DOCUMENT CONTROL SHEET

Project Title	Proposed Road Upgrade Works at Belview, Co. Kilkenny
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1. INTRODUCTION

- 1.1 This report describes a Stage 1 Road Safety Audit carried out at the proposed road upgrade works at Belview, Co. Kilkenny commissioned by Tobin Consulting. The audit was carried out on 24th of April 2026 in the offices of Roadplan Consulting, Kilkenny.
- 1.2 The audit team members were as follows:
 - Aoidín Curran, BE MSc CEng MIEI
Auditor Number AC9472273
 - Jince Philip Zachariah, PhD MIEI
Auditor Number JP792076
- 1.3 Both audit team members visited the site on the 24th July 2025. The audit comprised of an examination of the drawings relating to the scheme supplied by Tobin Consulting and an examination of the site.
- 1.4 The speed limit on the L3412 Gorteens Road at the proposed works location is 80 km/h.
- 1.5 This Stage 1 Audit has been carried out in accordance with the relevant sections of TII GE-STY-01024. The team has examined only those issues within the design relating to the road safety implications of the scheme and has therefore not examined or verified the compliance of the design to any other criteria.
- 1.6 A Stage 1 had been carried on this scheme on 30th July 2025. Revised drawings were subsequently provided and a new audit (this audit) was carried out.
- 1.7 This revised audit retains the numbering system (for problems) of the original audit. Problems that are resolved by the revised preliminary design drawings are omitted from this audit, but the problem number is retained. The numbering system of audit observations has not been thus retained. The initial RSA1 is appended in Appendix B for reference.
- 1.8 All problems described in this report are considered by the audit team to require action in order to improve the safety of the scheme and minimise accident occurrence.
- 1.9 Appendix A contains copies of the audited drawings.

Recommendation: Provide adequate junction control (STOP road markings or similar) to clearly define vehicular priority at all junctions.

2.4 **Problem:** Resolved.

2.5 **Problem:** Resolved.

2.6 **Problem:** Resolved.

2.7 **Problem:** Inadequate Lighting

Location: Pedestrian Crossings

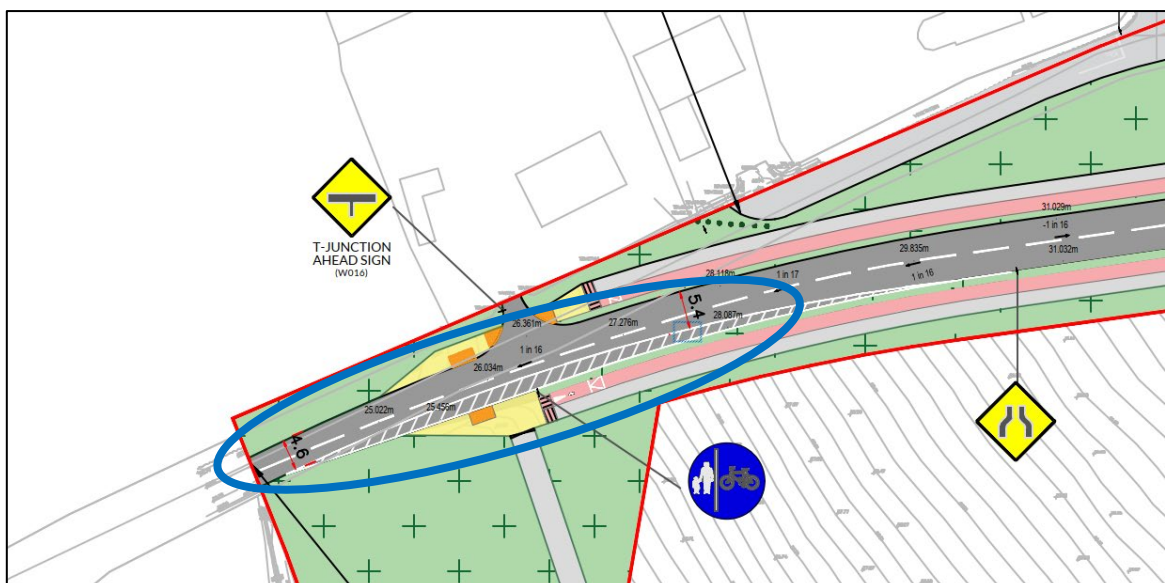
The proposed scheme includes a detailed lighting design. However, it is unclear whether all pedestrian crossings are adequately illuminated. The proposed lighting appears to leave dark spots near some crossings relative to adjacent areas. This may make the crossing locations less conspicuous leading to motorists not noticing pedestrians at these locations. This increases the likelihood of collisions.

Recommendation: Ensure sufficient lighting is provided at all pedestrian crossing locations.

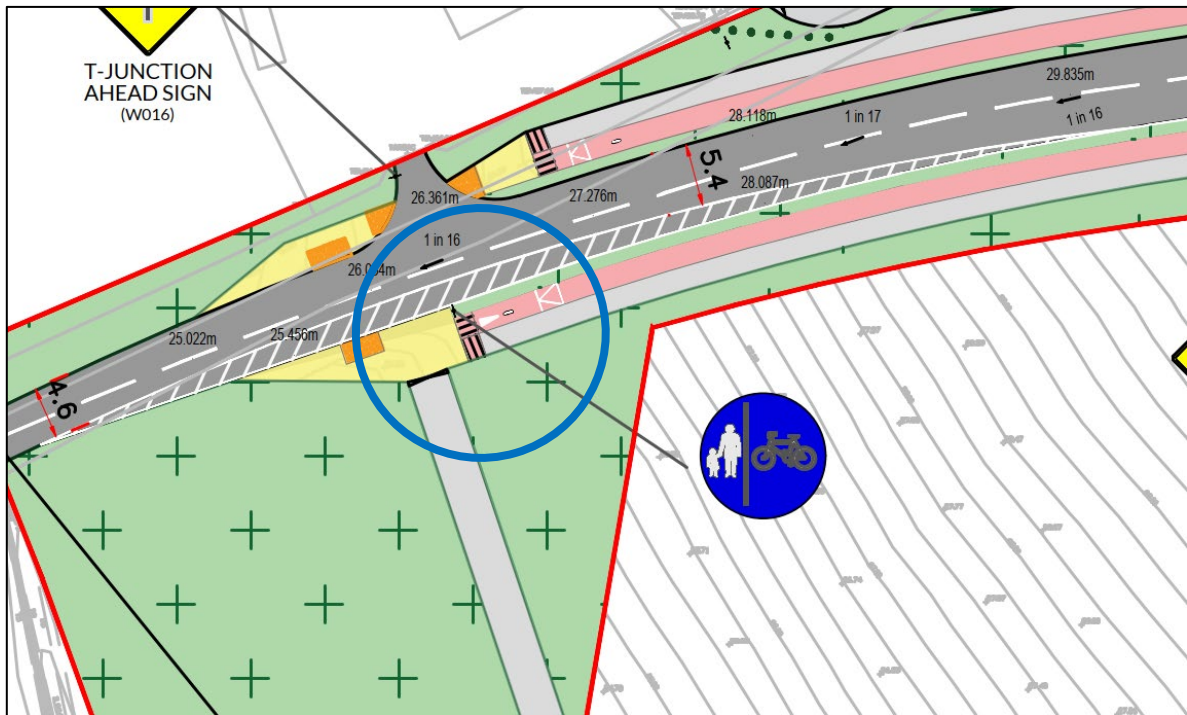
2.8 **Problem:** Inadequate Lane Width

Location: Near Western tie in

The lane width of the westbound lane appears to be narrow compared with the eastbound lane. This reduced width may not provide sufficient clearance for vehicles when encountering heavy vehicles in the opposing lane. As a result, there is an increased risk of side-swipe collisions.



Recommendation: The layout should be amended so that the width and curvature of each lane is adequate for vehicles to pass safely.

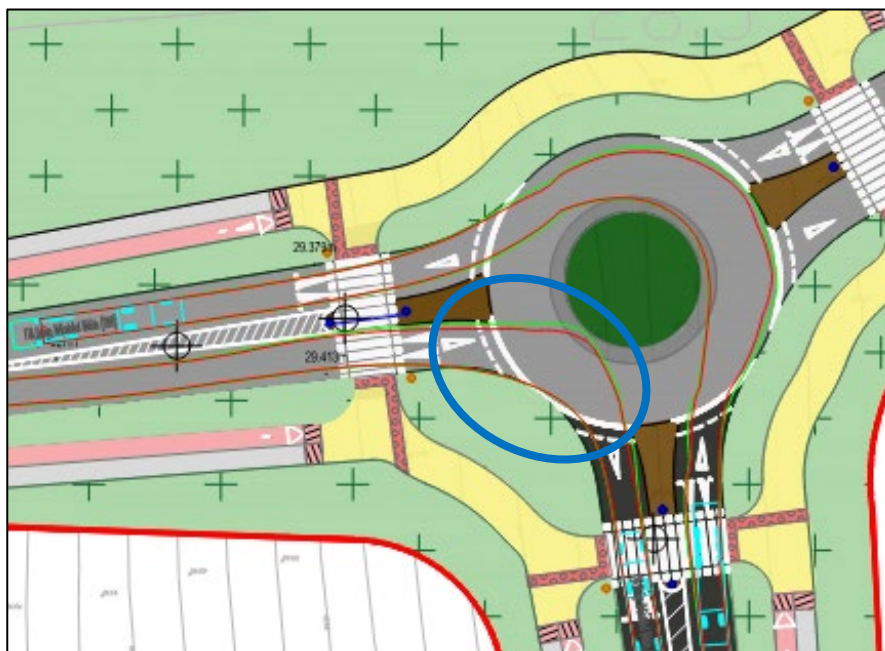


Recommendation: Ensure that the VRU signage and surface finishes are fully consistent and convey the same layout.

2.11 Problem: Insufficient turning width

Location: Western arm of western roundabout

The swept path analysis indicates that there is insufficient space to accommodate turning within the road surface by the design vehicle. This may lead to unanticipated movements and associated collisions.

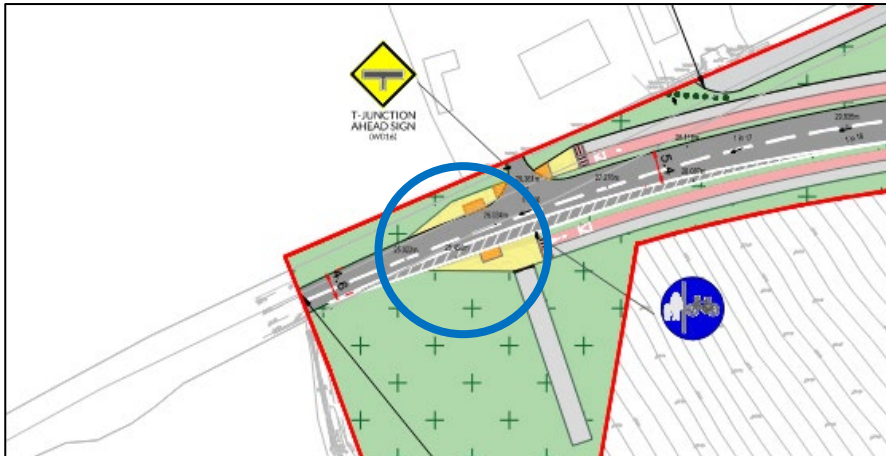


Recommendation: Adequate space should be provided to accommodate anticipated vehicles.

2. 12 Problem: Inadequate visibility

Location: Uncontrolled crossing at western tie in

It is unclear if adequate visibility is available between the proposed uncontrolled crossing and traffic approaching from the west. Inadequate visibility may lead to collisions at the crossing.

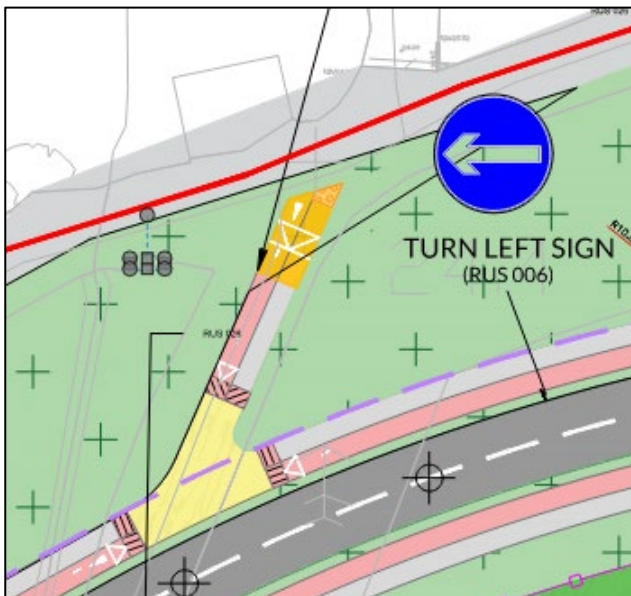


Recommendation: Adequate visibility should be provided to and from the crossing.

2. 13 Problem: Discontinuous facilities

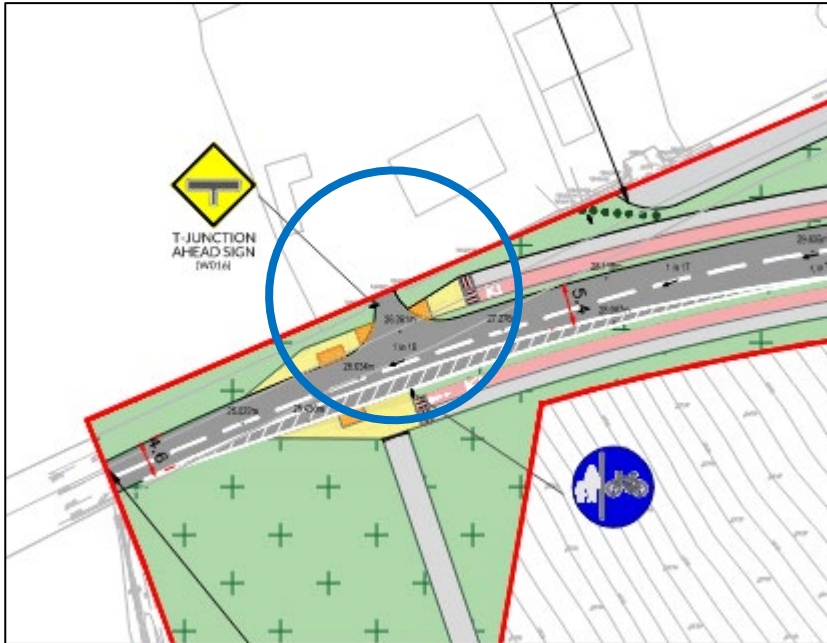
Location: Active travel link at the centre of the scheme, northern side

A proposed active travel link appears to terminate into landscaping and without appropriate transition to the existing road. It is unclear also if appropriate sight lines are available at this location. This may lead to collisions between motorists on the existing road and vulnerable road users joining the existing road.



Recommendation: Appropriate connection should be provided.

2. 14 Observation: A junction-type treatment with relatively large corner radii and uncontrolled crossing facilities appears to be applied to a private access. This, along with the T-junction ahead warning sign, appear unnecessary and may be confusing for motorists.



3. AUDIT TEAM STATEMENT

3.1 We certify that we have examined the drawings listed in Appendix A and have inspected the site. This examination has been carried out with the sole purpose of identifying any features of the scheme that could be removed or modified to improve the safety of the scheme.

Signed.....  Aoidín Curran

Date24th April 2026.....

Signed.....  Jince Philip Zachariah

Date 24th April 2026.....

4. SAFETY AUDIT FEEDBACK FORM

Scheme: Proposed Road Upgrade Works at Belview, Co. Kilkenny

Document Number: 25045-02-001

Audit Stage: Stage 1 RSA

Date Audit Completed: 24th April 2026

Paragraph No. in Safety Audit Report	To Be Completed By Designer			To Be Completed by Audit Team Leader
	Problem accepted (yes/no)	Recommended measure Accepted (yes/no)	Describe alternative measure(s). Give reasons for not accepting recommended measure. Only complete if recommended measure is not accepted.	Alternative measures or reasons accepted by auditors (yes/no)
2.2	Yes	Yes	-----	-----
2.3	Yes	Yes	-----	-----
2.7	Yes	Yes	-----	-----
2.8	Yes	Yes	-----	-----
2.9	Yes	Yes	-----	-----
2.10	Yes	Yes	-----	-----
2.11	Yes	Yes	-----	-----
2.12	Yes	Yes	-----	-----
2.13	Yes	Yes	-----	-----

Safety Audit Signed off  Design Team Leader

Print Name.....Nathaniel Chidavaenzi

Date27/04/2026

Safety Audit Signed off  Employer

Print Name DAVID O'BRIEN

Date 27/4/26

Safety Audit Signed off  Audit Team Leader

Print NameAoidin Curran

Date18/5/2026

Please complete and return to: Roadplan Consulting,
7, Ormonde Road
Kilkenny

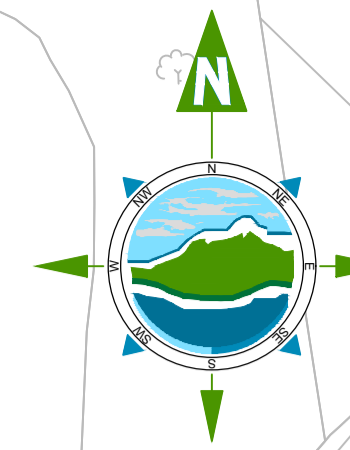
APPENDIX A

List of Drawings Examined

The following drawings have been provided electronically in PDF format by Tobin Consulting and are appended here.

Drawing Number	Rev	Drawing Title
12001 - 2001	D6	Proposed Access Road Layout Masterplan
12001 - 2002	D6	Proposed Access Road Layout - Sheet 1 of 2
12001 - 2006	D2	Access Road Layout Link Roads
12001 - 2008	D2	Swept Path Analysis - Sheet 1 of 3
12001 - 2009	D2	Swept Path Analysis - Sheet 2 of 3

THE INFORMATION ON THIS DRAWING IS TO THE TAILTE ÉIREANN - SURVEYING ITM COORDINATE SYSTEM



LEGEND:

RED LINE BOUNDARY	
PROPOSED ACCESS ROAD	
PROPOSED CYCLE LANE	
PROPOSED FOOT PATH	
PROPOSED LANDSCAPING	
SHARED SURFACE	
PCC KERB	
DROP KERB	
BUFF COLOURED TACTILE PAVING	
RED COLOURED TACTILE PAVING	
PROPOSED ROAD LEVEL	+08.145m
PROPOSED ROAD GRADIENT	1/25
TRAMLINE PAVING	
WARNING COLOR PAVING	
SPLITTER ISLAND	
PROPOSED BERM	
PROPOSED DRAINAGE DITCH	
PROPOSED FENCING	
PROPOSED POND	
PROPOSED NOISE BARRIER IN ACCORDANCE WITH TRANSPORT INFRASTRUCTURE IRELAND DETAIL CC-SCD-00323	

Rev	Date	Description	By	Chkd.
D6	26.03.2026	Issue for Planning	CP	NC
D5	18.02.2026	Draft Issue - Alignment Revised	NC	MG
D4	15.07.2025	Draft Issue	AO	SB
D3	25.06.2025	RSA Issue	AO	MG
D2	15.05.2025	Draft Issue	AO	MG
D1	10.04.2025	Draft Issue	AO	MG
D0	28.03.2025	Draft Issue	AO	SB

Client: **Kilkenny County Council**

Project: **IDA Belview Infrastructure Development**

Title: **Proposed Access Road Layout Masterplan**

Scale @ A1: **1:2000**

Prepared by: **PD** Checked by: **SB** Date: **14.10.2024**

Drawing Status: **Planning**



Drawing No.: **12001-2001** Revision: **D6**

VEHICLE ACCESS TO THE EXISTING ROAD SHALL BE PERMANENTLY CLOSED. THE CLOSURE SHALL BE ACHIEVED BY FORMING A LANDSCAPE BUND TO PREVENT THROUGH MOVEMENT AND SIGHT ACROSS THE SITE. MOUNTABLE STAINLESS-STEEL BOLLARDS SHALL BE INSTALLED TO FURTHER RESTRICT UNAUTHORISED VEHICULAR ACCESS.

VEHICLE ACCESS TO THE EXISTING ROAD SHALL BE PERMANENTLY CLOSED. THE CLOSURE SHALL BE ACHIEVED BY FORMING A LANDSCAPE BUND TO PREVENT THROUGH MOVEMENT AND SIGHT ACROSS THE SITE. MOUNTABLE STAINLESS-STEEL BOLLARDS SHALL BE INSTALLED TO FURTHER RESTRICT UNAUTHORISED VEHICULAR ACCESS.

DRAWING 12001-2026

DRAWING 12001-2027

DRAWING 12001-2025

DRAWING 12001-2024

ACCESS TO BE CLOSED OFF
LOCATION OF PROPOSED CULVERT
ITM COORDINATES
X:664362
Y:613321

PEDESTRIAN ACCESS TO EXISTING ROAD

EXISTING ROUNDABOUT - WESTERN ARM TO BE UPGRADED

INDICATIVE LOCATION OF A NOISE BARRIER, EXACT LOCATION TO BE CONFIRMED AT DETAIL DESIGN

INDICATIVE LOCATION OF A NOISE BARRIER, EXACT LOCATION TO BE CONFIRMED AT DETAIL DESIGN

PROPOSED GATE TIE IN TO EXISTING BERM

TIE IN TO EXISTING BERM

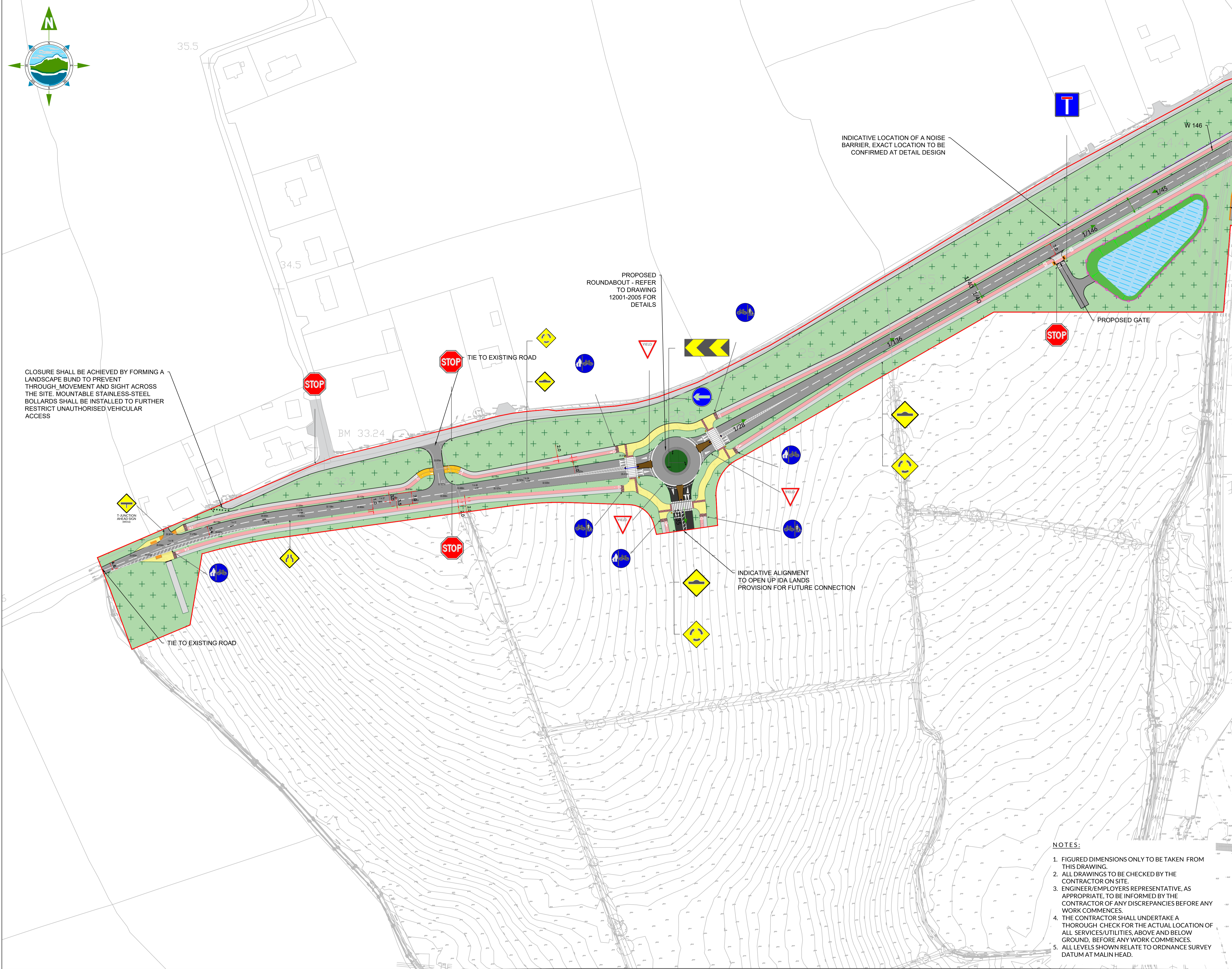
PROPOSED GATE

TIE TO EXISTING ROAD

INDICATIVE ALIGNMENT TO OPEN UP IDA LANDS. PROVISION FOR FUTURE CONNECTION.

NOTES:

- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
- ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
- ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
- THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
- ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.



THE INFORMATION ON THIS DRAWING IS TO THE TAILTE ÉIREANN - SURVEYING ITM COORDINATE SYSTEM

LEGEND:

RED LINE BOUNDARY	
PROPOSED ACCESS ROAD	
PROPOSED CYCLE LANE	
PROPOSED FOOT PATH	
PROPOSED LANDSCAPING	
SHARED SURFACE	
PCC KERB	
DROP KERB	
BUFF COLOURED TACTILE PAVING	
RED COLOURED TACTILE PAVING	
PROPOSED ROAD LEVEL	
PROPOSED ROAD GRADIENT	
RUS 001	
BELISHA BEACON	
TRAMLINE PAVING	
SPLITTER ISLAND	
BOLLARD	
PROPOSED BERM	
PROPOSED DRAINAGE DITCH	
PROPOSED FENCING	
PROPOSED POND	
PROPOSED NOISE BARRIER IN ACCORDANCE WITH TRANSPORT INFRASTRUCTURE IRELAND DETAIL CC-SCD-00323	

Rev	Date	Description	By	Chkd.
D6	26.03.2026	Issue for Planning	CP	NC
D5	18.02.2026	Draft Issue - Alignment Revised	NC	MG
D4	15.07.2025	Draft Issue	AO	SB
D3	25.06.2025	RSA Issue	AO	MG
D2	15.05.2025	Draft Issue	AO	MG
D1	10.04.2025	Draft Issue	AO	MG
D0	04.04.2025	Draft Issue	AO	SB

Client: **Kilkenny County Council**

Project: **IDA Belview Infrastructure Development**

Title: **Proposed Access Road Layout Sheet 1 of 2**

Scale @ A1: **1:1000**

Prepared by: **PD** Checked by: **SB** Date: **14.10.2024**

Drawing Status: **Planning**

TOBIN

Tel: +353 (0)91 565 211
Email: info@tobin.ie
www.tobin.ie

Drawing No.: **12001-2002** Revision: **D6**

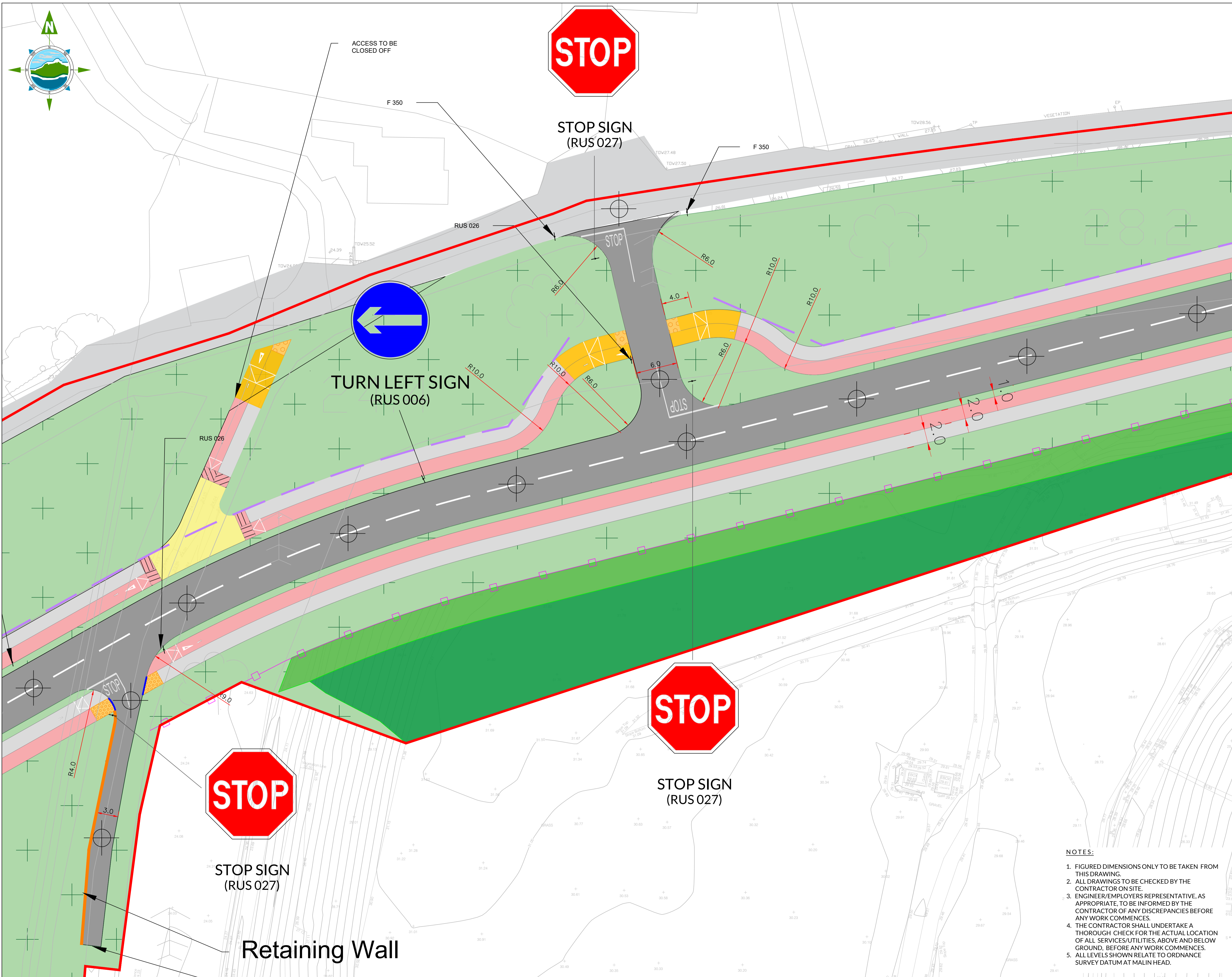
CLOSURE SHALL BE ACHIEVED BY FORMING A LANDSCAPE BUND TO PREVENT THROUGH MOVEMENT AND SIGHT ACROSS THE SITE. MOUNTABLE STAINLESS-STEEL BOLLARDS SHALL BE INSTALLED TO FURTHER RESTRICT UNAUTHORISED VEHICULAR ACCESS

INDICATIVE LOCATION OF A NOISE BARRIER, EXACT LOCATION TO BE CONFIRMED AT DETAIL DESIGN

PROPOSED ROUNDABOUT - REFER TO DRAWING 12001-2005 FOR DETAILS

INDICATIVE ALIGNMENT TO OPEN UP IDA LANDS PROVISION FOR FUTURE CONNECTION

- NOTES:**
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LEGEND:

RED LINE BOUNDARY	
PROPOSED ACCESS ROAD	
PROPOSED CYCLE LANE	
PROPOSED FOOT PATH	
PROPOSED LANDSCAPING	
SHARED SURFACE	
PCC KERB	
DROP KERB	
BUFF COLOURED TACTILE PAVING	
RED COLOURED TACTILE PAVING	
PROPOSED ROAD LEVEL	
PROPOSED ROAD GRADIENT	
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TRAMLINE PAVING	
SPLITTER ISLAND	
BOLLARD	
PROPOSED BERM	
PROPOSED DRAINAGE DITCH	
PROPOSED FENCING	
PROPOSED POND	
PROPOSED NOISE BARRIER IN ACCORDANCE WITH TRANSPORT INFRASTRUCTURE IRELAND DETAIL CC-SCD-00323	

Rev	Date	Description	By	Chkd.
D2	26.03.2026	Issue for Planning	CP	NC
D1	30.07.2025	Draft Issue	AO	SB
D0	22.05.2025	RSA Issue	AO	SB

Client: **Kilkenny County Council**

Project: **IDA Belview Infrastructure Development**

Title: **Access Road Layout Link Roads**

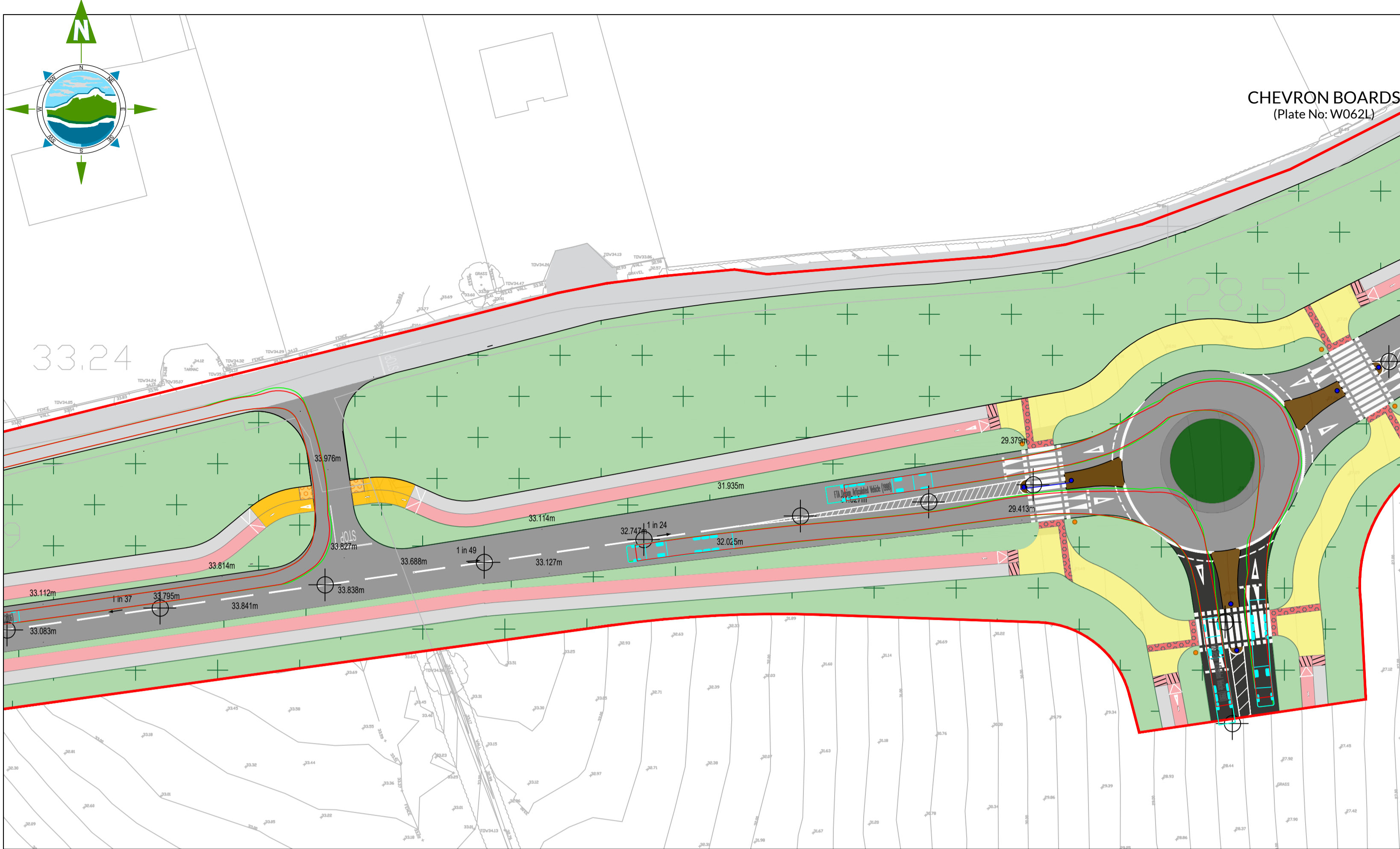
Scale @ A1: **1:250**
 Prepared by: **DS** Checked by: **SB** Date: **12.05.2025**
 Drawing Status: **Planning**

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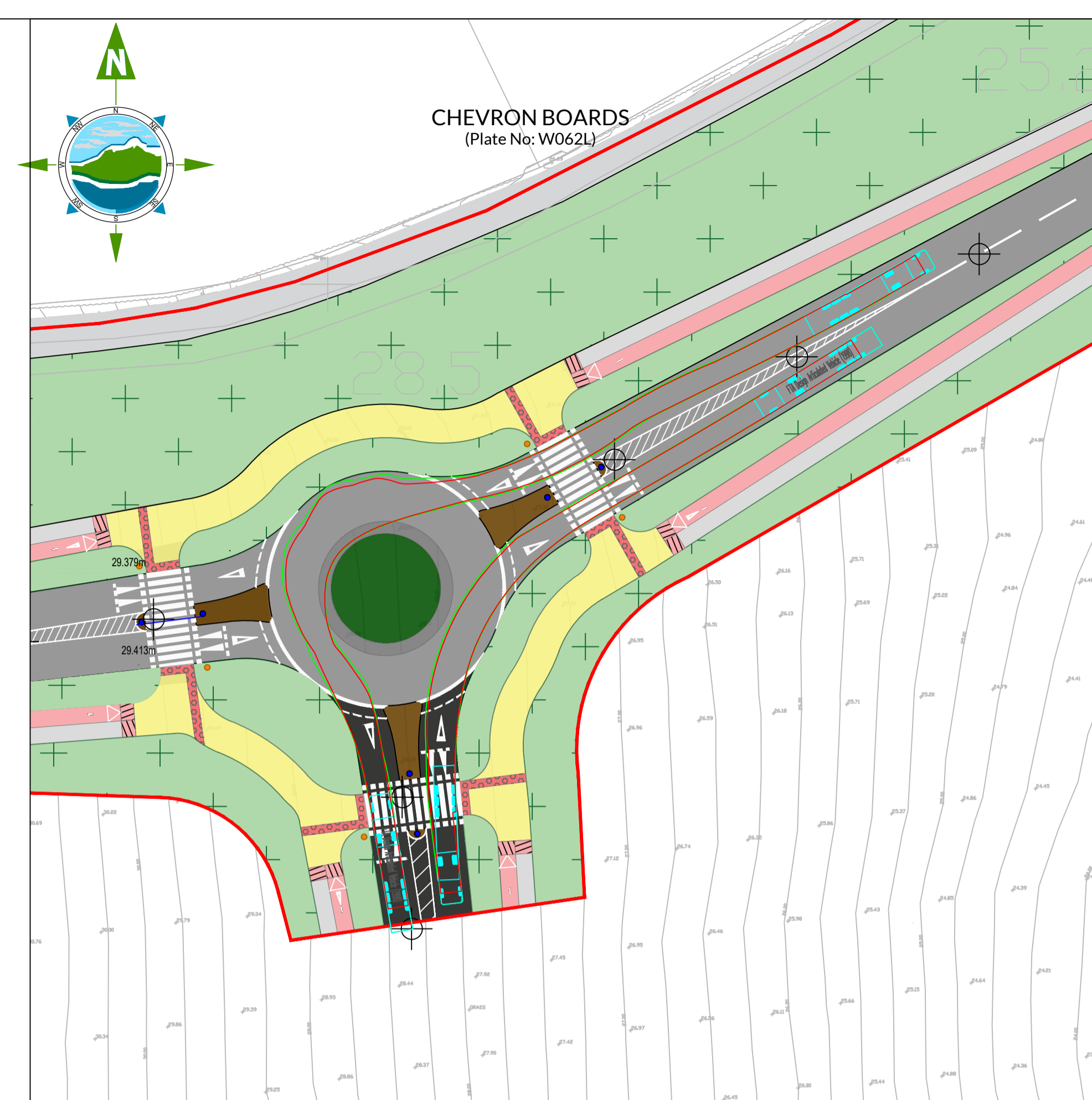
 Tel: +353 (0)91 565 211
 Email: info@tobin.ie
 www.tobin.ie

Drawing No.: **12001-2006** Revision: **D2**

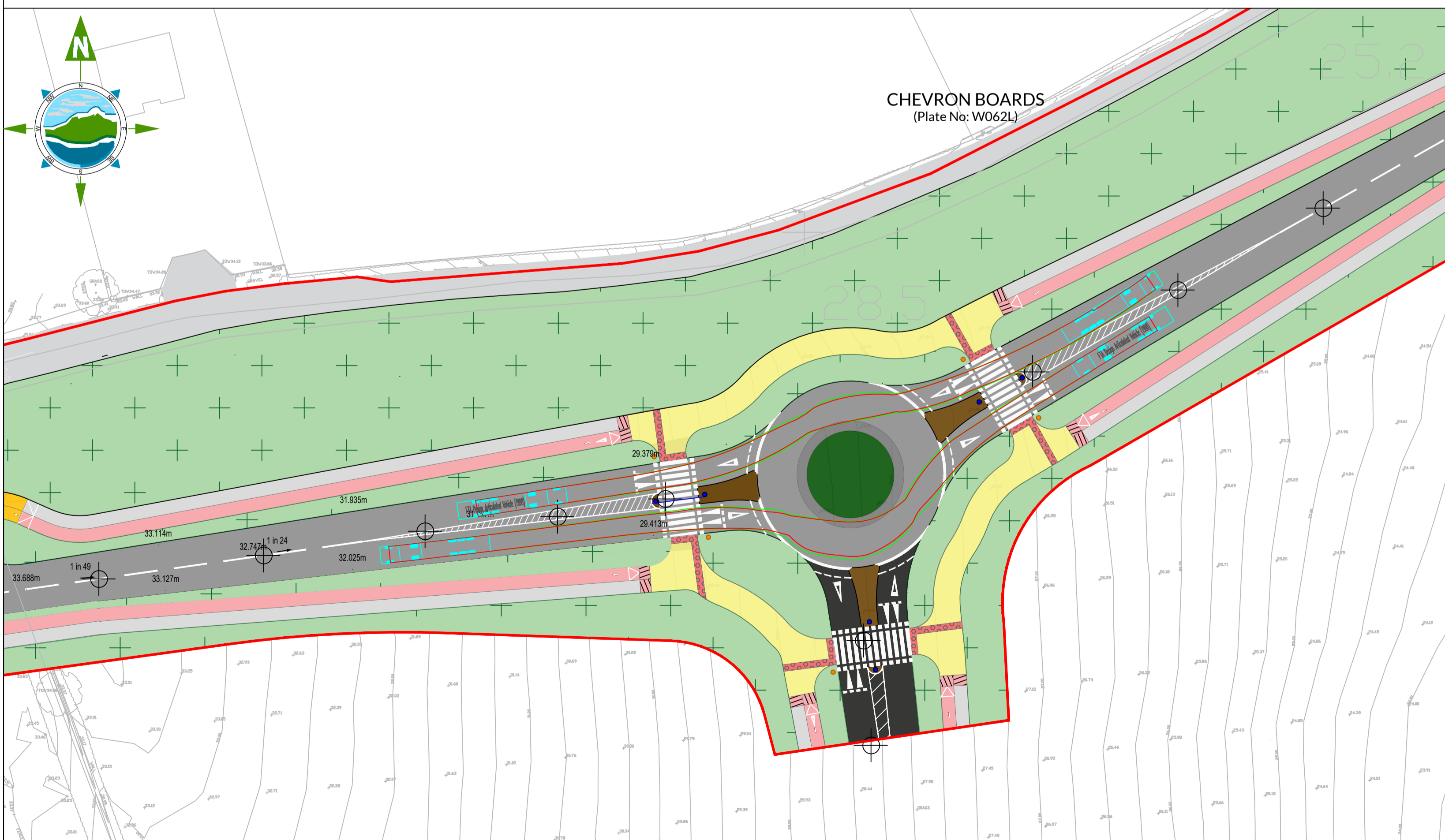
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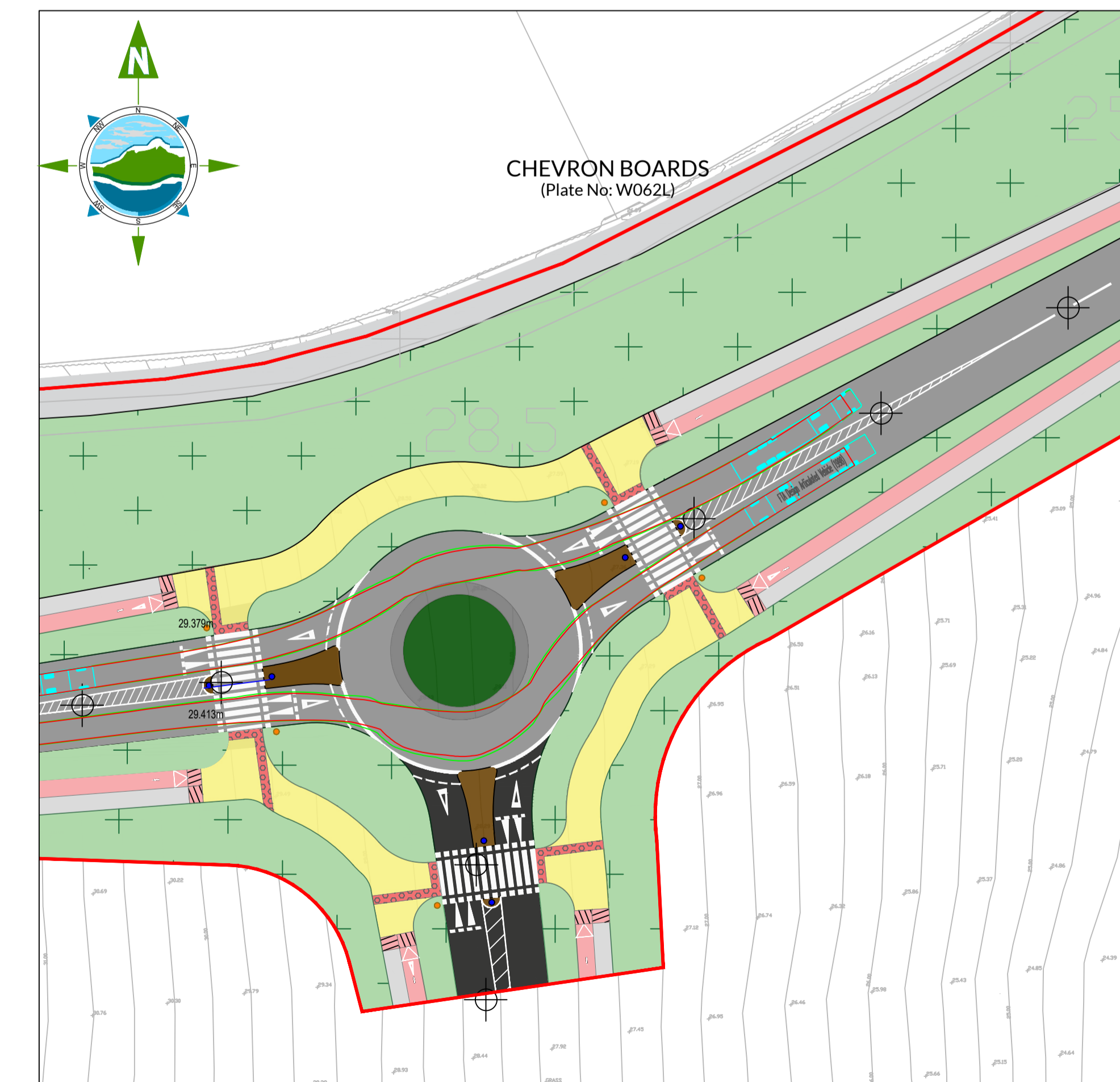
ROUNDBABOUT SWEPT PATH - ARTICULATED TRUCK 1



ROUNDBABOUT SWEPT PATH - ARTICULATED TRUCK 2



ROUNDBABOUT SWEPT PATH - ARTICULATED TRUCK 3



ROUNDBABOUT SWEPT PATH - ARTICULATED TRUCK 4

THE INFORMATION ON THIS DRAWING IS TO THE TAILTE ÉIREANN - SURVEYING ITM COORDINATE SYSTEM

- LEGEND:
- SITE BOUNDARY —
 - WHEEL TRACK - FORWARD MOVEMENT —
 - SWEPT PATH OF VEHICLE BODY - FORWARD MOVEMENT —
 - WHEEL TRACK - REVERSING MOVEMENT —
 - SWEPT PATH OF VEHICLE BODY - REVERSING MOVEMENT —
 - VEHICLE PLAN

VEHICLE PROFILE

FTA Design Articulated Vehicle (1998)	16.480m
Overall Length	2.550m
Overall Body Height	0.515m
Min Body Ground Clearance	2.470m
Max Track Width	3.00s
Lock-to-lock time	6.550m
Curb to Curb Turning Radius	

- NOTES:
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Rev	Date	Description	By	Chkd.
D2	27.03.2026	Issue for Planning	CP	NC
D1	02.03.2026	Draft Issue	IH	NC
D0	04.04.2025	RSA Issue	AO	SB

Client: **Kilkenny County Council**

Project: **IDA Belview Infrastructure Development**

Title: **Swept Path Analysis Sheet 1 of 3**

Scale @ A1: **1:500**

Prepared by: **DS** Checked by: **SB** Date: **12.05.2025**

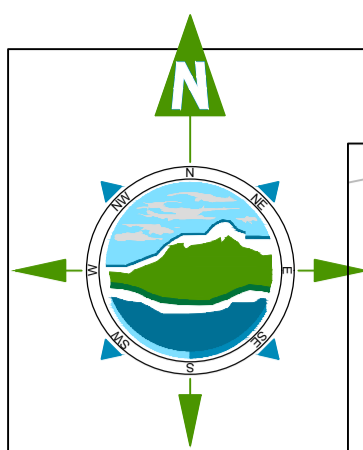
Drawing Status: **Planning**

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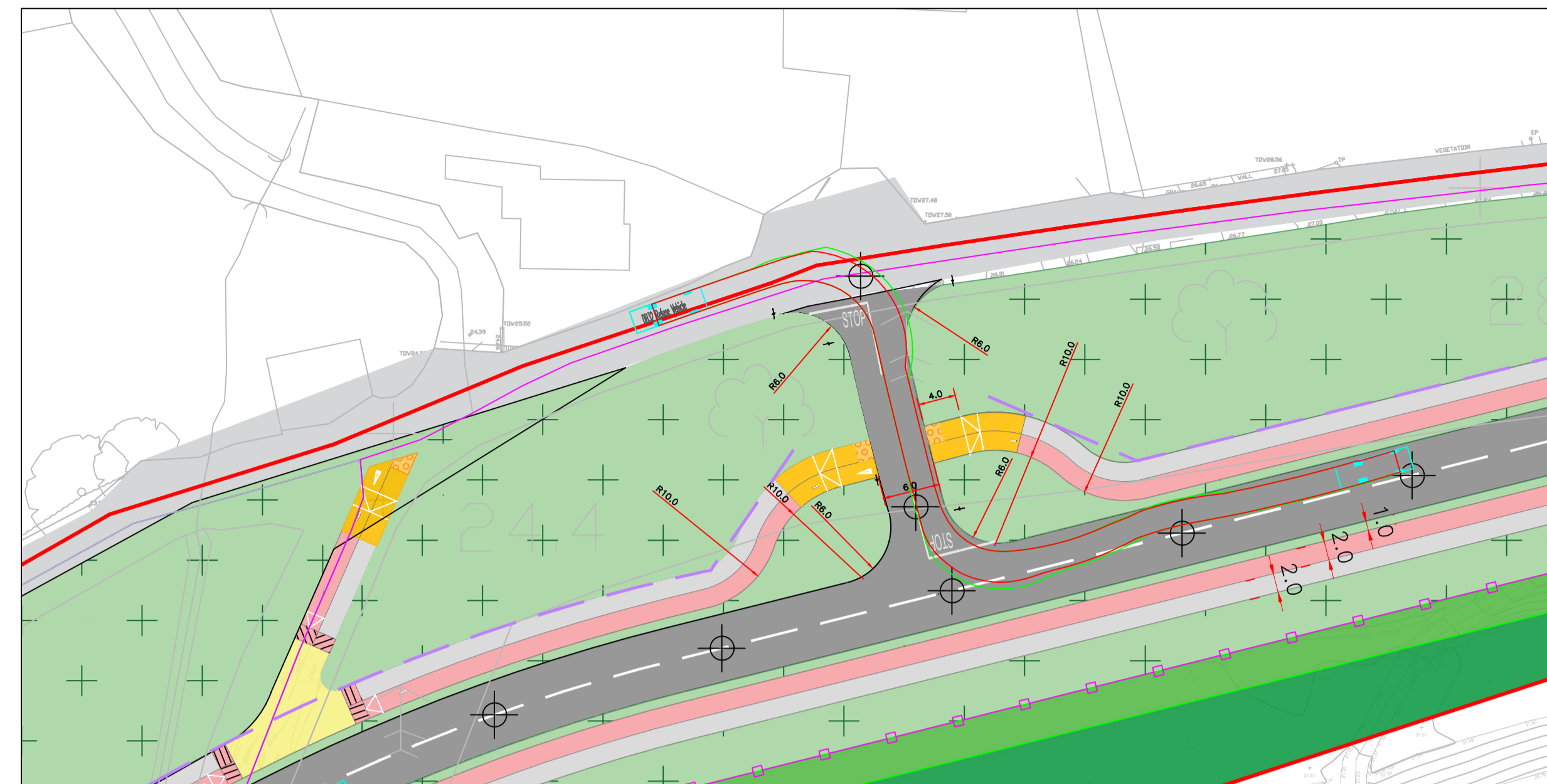
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Drawing No.: **12001-2008** Revision: **D2**



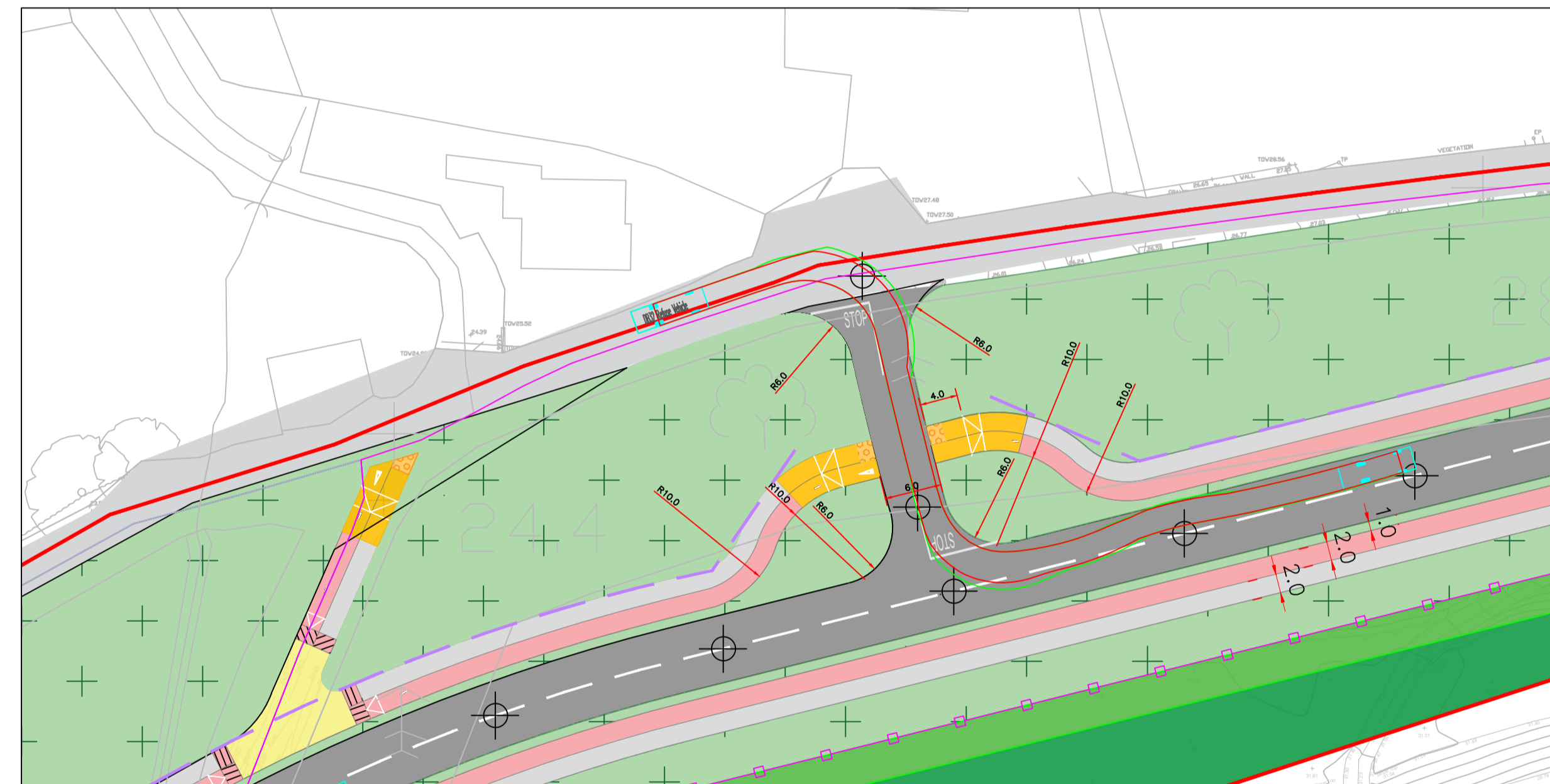
EXISTING ROAD SWEEP PATH - FIRE TRUCK



EXISTING ROAD SWEEP PATH - FIRE TRUCK



EXISTING ROAD SWEEP PATH - REFUSE VEHICLE



EXISTING ROAD SWEEP PATH - REFUSE VEHICLE



EXISTING ROAD SWEEP PATH - LARGE CAR



EXISTING ROAD SWEEP PATH - LARGE CAR

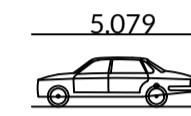
THE INFORMATION ON THIS DRAWING IS TO THE TAILTE ÉIREANN - SURVEYING ITM COORDINATE SYSTEM

LEGEND:

- SITE BOUNDARY —
- WHEEL TRACK - FORWARD MOVEMENT —
- SWEEP PATH OF VEHICLE BODY - FORWARD MOVEMENT —
- WHEEL TRACK - REVERSING MOVEMENT —
- SWEEP PATH OF VEHICLE BODY - REVERSING MOVEMENT —

VEHICLE PLAN

VEHICLE PROFILE



Large Car (2006)	
Overall Length	5.079m
Overall Width	1.872m
Overall Body Height	1.525m
Min Body Ground Clearance	0.310m
Max Track Width	1.831m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	5.900m

NOTES:

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Rev	Date	Description	By	Chkd.
D2	31/03/2026	Issue for Planning	CP	NC
D1	02.03.2026	Draft Issue	IH	NC
D0	04.04.2025	RSA Issue	AO	SB

Client: **Kilkenny County Council**

Project: **IDA Belview Infrastructure Development**

Title: **Swept Path Analysis Sheet 2 of 3**

Scale @ A1: **1:500**
 Prepared by: **DS** Checked by: **SB** Date: **12.05.2025**

Drawing Status: **Planning**

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Drawing No.: **12001-2009** Revision: **D2**