

Appendix 16-2 - Road Safety Audit Report

23196-01-001

SCARTMOUNTAIN WIND FARM TURBINE DELIVERY ROUTE

Road Safety Audit Stage 1

for

Tobin Consulting Engineers

February 2024



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DOCUMENT CONTROL SHEET

Project Title	Scartmountain Wind Farm Turbine Delivery Route
Project No.	23196-01
Client	Tobin Consulting Engineers
Document Title	Road Safety Audit Stage 1 / 2
Document No.	23196-01-001

Status	Author(s)	Reviewed By	Approved By	Issue Date
Draft 1	<i>As per Section 3.1</i>		GF	19/2/2024

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1. INTRODUCTION

- 1.1 This report describes a Stage 1 Road Safety Audit carried out on the proposed Turbine Delivery Route for Scartmountain Wind Farm. The proposed delivery route is from Belview Port, County Kilkenny to Scartmountain, County Waterford. The route takes the N29 from Belview Port to the N25 at Luffany Roundabout. From there the route continues west along the N25 to its junction with the N72 east of Dungarvan. The route then continues west on the N72 to Boheravaghera Crossroads where it continues north on the local road network to the site of the Wind Farm at Scartmountain. The audit was carried out on 9th of February 2024 in the offices of Roadplan Consulting, Kilkenny.
- 1.2 The audit team members were as follows:
- Ray Butler, BE CEng MIEI
Auditor Number RB210538
 - Dermot Donovan, BE CEng FIEI
Auditor Number DD50250
- 1.3 Both audit team members visited the site on the 11th of January 2024. The audit comprised of an examination of the drawings relating to the scheme supplied by Tobin Consulting Engineers and an examination of the site.
- 1.4 The speed limit on the proposed delivery route varies but is typically 100km/h on the national roads, with sections of 80km/h and 60km/h on the N72. While the local road network has a posted speed limit of 80km/h operating speeds are likely to be lower than this.
- 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 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.
- 1.7 Appendix A contains copies of the audited drawings.

2. STAGE 1 AUDIT

Location: Various locations

2.1 **Problem:** Removal of road signs

Road signs, within the swept path, may have to be removed while the turbine delivery vehicle is operating on the route. In the absence of these signs, drivers of vehicles on the route may not be aware of the layout of the road ahead leading to possible collisions owing to sudden braking or incorrect manoeuvres.

Recommendation:

Provide adequate temporary signage and traffic management to inform road users at all locations where existing signs have been temporarily removed.

Location: Lemybrien

2.2 **Problem:** Truck and boogie tyre path

The westbound truck and boogie tyre path appears to occupy the eastbound lane through the traffic calming layout in Lemybrien. This may lead to head-on collisions if appropriate temporary traffic management is not in place.

Recommendation:

Provide appropriate traffic management, to stop eastbound traffic while the truck and boogie occupy the eastbound lane while travelling in a westerly direction. The traffic management should encompass the exit from the Applegreen Service Station. Westbound traffic should be prevented from undertaking the truck and boogie.

Location: N25/N72 junction

2.3 **Problem:** Truck and boogie tyre path

The westbound truck and boogie tyre path appears to occupy the eastbound lane at the entry to the N72 from the N25. This may lead to head-on collisions if appropriate temporary traffic management is not in place.

Recommendation:

Install appropriate traffic management while truck and boogie occupy the eastbound lane while travelling in a westerly direction.

Location: N72/R672 junction (Master McGrath)

2.4 **Problem:** Truck and boogie tyre path

The westbound truck and boogie tyre path appears to occupy the eastbound lane on the approach to the N72 junction with the R672 and as the truck travels west through the Master McGrath traffic calming. This may lead to head-on collisions if appropriate temporary traffic management is not in place.

Recommendation:

Install appropriate traffic management while truck and boogie occupy the eastbound lane while travelling in a westerly direction. The traffic management should encompass the exit from the R672. Westbound traffic should be prevented from undertaking the truck and boogie.

Location: Carroll's Cross

2.5 **Observation:** Traffic Calming

Traffic Calming, which has recently been installed at Carroll's Cross on the N25, does not appear to have been assessed in the drawings provided. This may have some impact on the swept path of the delivery truck and boogie.







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..... Ray Butler

Date16th February 2024.....

Signed..... Dermot Donovan

Date16th February 2024.....

4. SAFETY AUDIT FEEDBACK FORM

Scheme: Scartmountain Wind Farm Delivery Route

Document Number: 23196-01-001

Audit Stage: Stage 1 RSA

Date Audit Completed: 16th February 2024

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)
2.1				
2.2				
2.3				
2.4				

Safety Audit

Signed off Design Team Leader

Print Name

Date

Safety Audit

Signed off Employer

Print Name

Date

Safety Audit

Signed off Audit Team Leader

Print Name

Date

Please complete and return to:

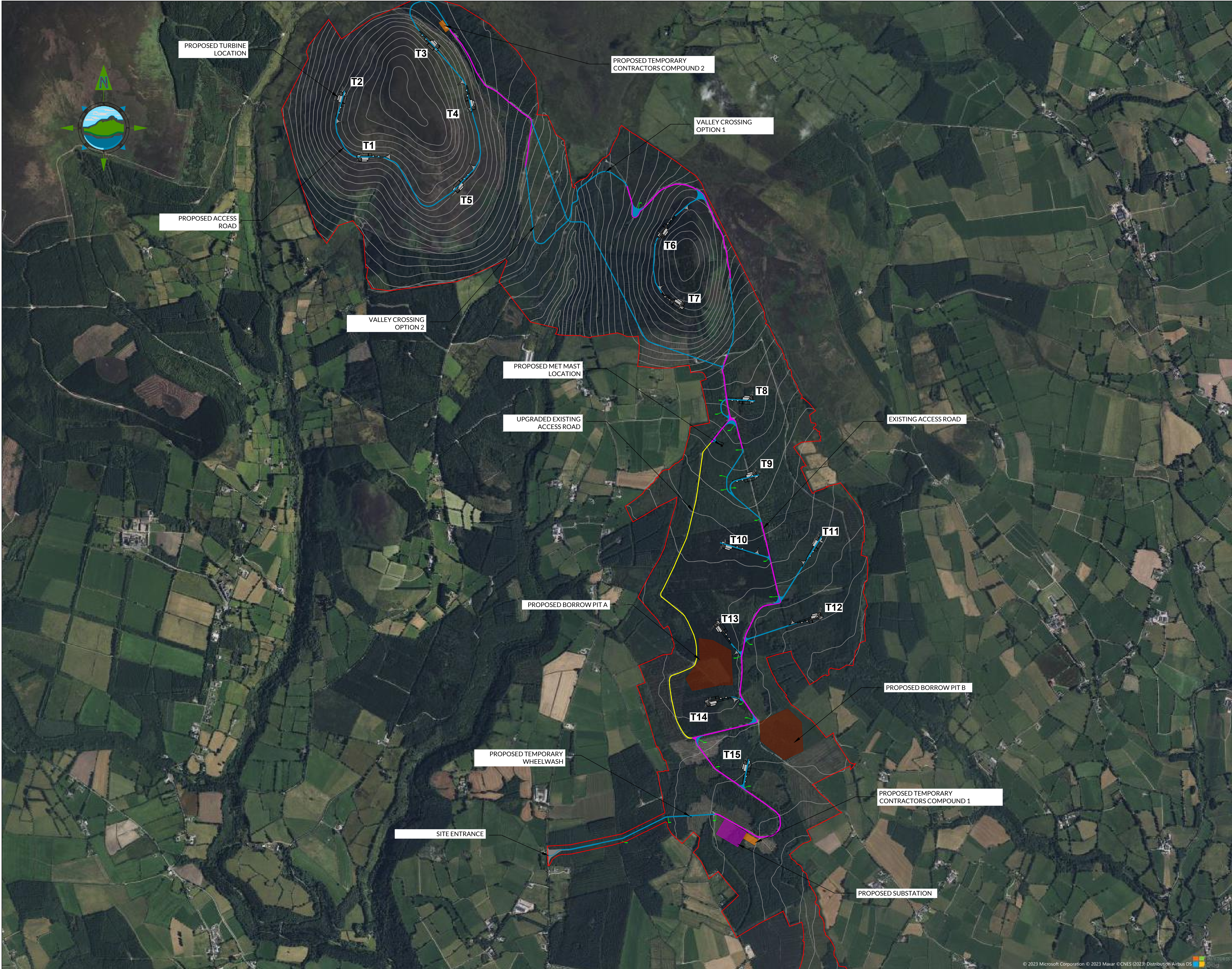
Roadplan Consulting,
7, Ormonde Road
Kilkenny
E-mail: info@roadplan.ie

APPENDIX A

List of Drawings Examined

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

Drawing Number	Rev	Drawing Title
11303-1001	D02	Preliminary Site Master Plan
11303-1100-1104	A	Proposed Passing Bays Locations
11303-2020	D01	L5055 Site Entrance Details, Visibility Sightlines & Autotrack Assessment
11303-2021	D01	L5054 Road Crossing Location 1, Visibility Sightlines & Details
11303-2022	DO1	L5055 Road Crossing Location 2, Visibility Sightlines & Details
11303-2023	D01	L1026 Road Crossing Location 3, Visibility Sightlines & Details
11303-2300_2323	A	Swept Path Analysis
11303-23313	G	N72/L1027 Affane Junction



GENERAL LEGEND

APPLICATION BOUNDARY

PROPOSED TURBINE HARDSTAND

PROPOSED ACCESS TRACK

UPGRADED EXISTING ACCESS TRACK, FOR CONSTRUCTION VEHICLES ONLY (No Turbine Delivery)

PROPOSED BORROW PIT

PROPOSED SUBSTATION

PROPOSED TURBINE LOCATION

EXISTING ACCESS TRACK

CONTRACTOR'S COMPOUND

PROPOSED MET MAST

- 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.

Rev	Date	Description	By	Chkd.
D02	17.08.23	DRAFT ISSUE FOR REVIEW	EB	JS
D01	11.07.23	DRAFT ISSUE FOR REVIEW	MN	JS

Client:

Project:

SCARTMOUNTAIN WIND FARM

Title:

PRELIMINARY SITE MASTER PLAN

Scale @ A1:

1:12,500

Prepared by:

M. Nolan

Checked by:

J. Staunton

Date:

July 2023

Drawing Status:

Draft

Tel: +353 (0)91 565 211

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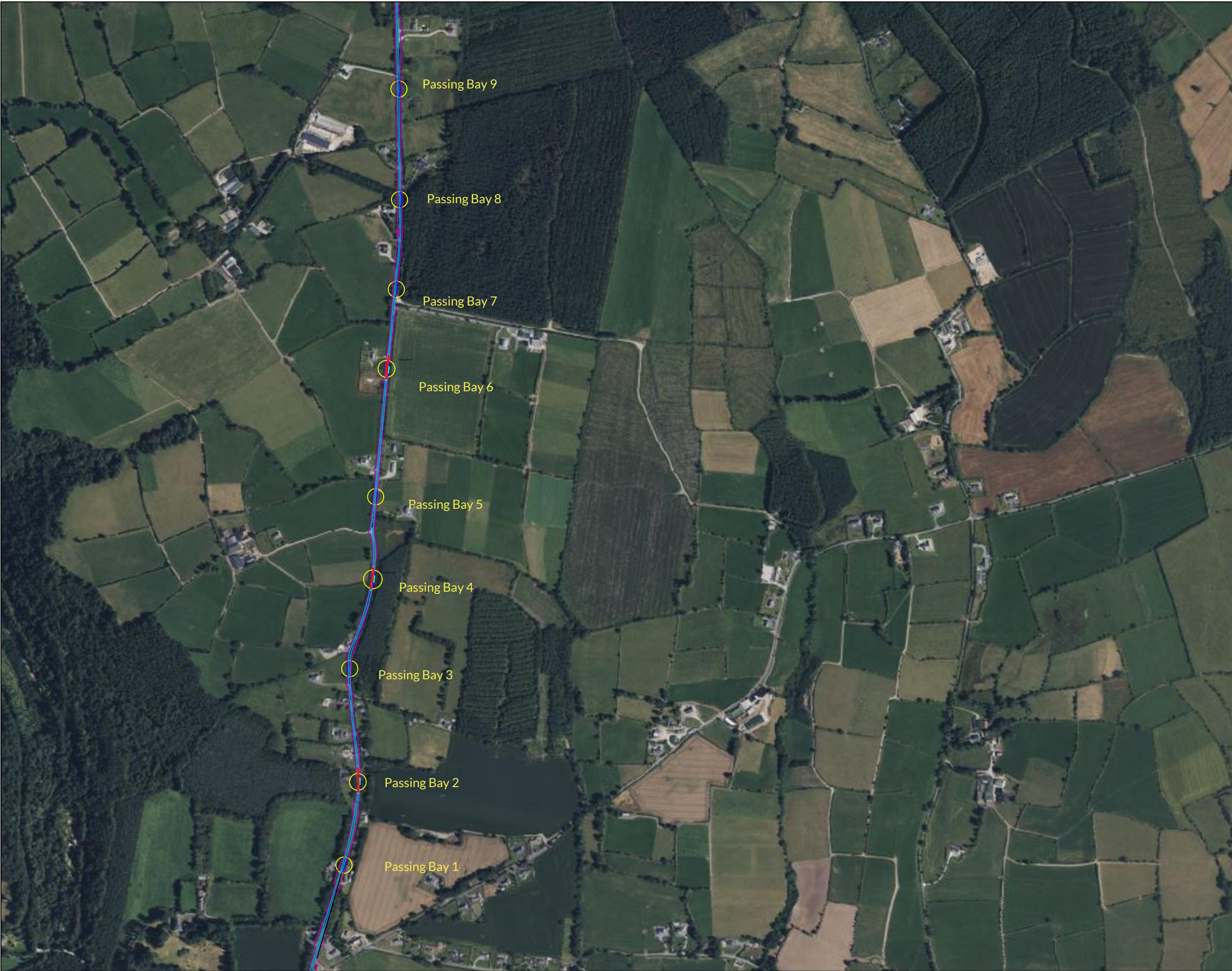
Drawing No:

11303-1001

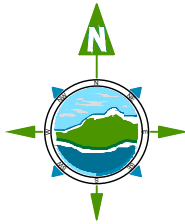
Revision:

D02

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THE INFORMATION ON THIS DRAWING
IS TO THE ORDNANCE SURVEY IRELAND
ITM COORDINATE SYSTEM



LEGEND

- BOUNDARY
- EDGE OF ROAD
- PASSING BAY
- PROPOSED ROAD WIDENING

NOTES:

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A	15-09-23	Draft	JC	MR
Rev	Date	Description	By	Chkd.

Client:
FuturEnergy Ireland

Project:
**SCARTMOUNTAIN
WIND FARM**

Title:
**PROPOSED
PASSING BAYS
LOCATIONS
LOCAL ROAD - L5055**

Scale @ A3: **NTS**

Prepared by: JC Checked by: MR Date: Sep 2023

Drawing Status: **Draft**

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Drawing No.:
11303-1100

Revision:

A



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ITM COORDINATE SYSTEM



- LEGEND
- BOUNDARY
 - EDGE OF ROAD
 - PASSING BAY
 - PROPOSED ROAD WIDENING

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A	15-09-23	Draft	JC	MR
Rev	Date	Description	By	Chkd.

Client:

Project:

SCARTMOUNTAIN WIND FARM

Title:

PASSING BAYS
PROPOSED WIDENING
2, 4 AND 6

Scale @ A3:

NTS

Prepared by: JC

Checked by: MR

Date: Sep 2023

Drawing Status:

Draft

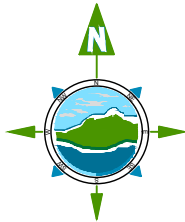
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Drawing No.:
11303-1101

Revision:
A



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- LEGEND
- BOUNDARY
 - EDGE OF ROAD
 - PASSING BAY
 - PROPOSED ROAD WIDENING

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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

A	15-09-23	Draft	JC	MR
Rev	Date	Description	By	Chkd.

Client:

FuturEnergy Ireland

Project:

SCARTMOUNTAIN
WIND FARM

Title:

PASSING BAYS
AUTOTRACKS
2, 4 AND 6

Scale @ A3: NTS

Prepared by: JC
Checked by: MR
Date: Sep 2023

Drawing Status: Draft

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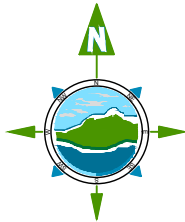
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Drawing No.: 11303-1102

Revision: A



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LEGEND

- BOUNDARY
- EDGE OF ROAD
- PASSING BAY

NOTES:

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A	15-09-23	Draft	JC	MR
Rev	Date	Description	By	Chkd.

Client:

FuturEnergy Ireland

Project:

SCARTMOUNTAIN
WIND FARM

Title:

PROPOSED
PASSING BAYS
1, 3 AND 5

Scale @ A3:

NTS

Prepared by:
JC

Checked by:
MR

Date:
Sep 2023

Drawing Status:

Draft

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Drawing No.:

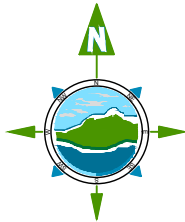
11303-1103

Revision:

A



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ITM COORDINATE SYSTEM



- LEGEND
- BOUNDARY
 - EDGE OF ROAD
 - PASSING BAY

- NOTES:
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

A	15-09-23	Draft	JC	MR
Rev	Date	Description	By	Chkd.

Client:

Project:

SCARTMOUNTAIN WIND FARM

Title:

PROPOSED PASSING BAYS 7, 8 AND 9

Scale @ A3:

NTS

Prepared by: JC
Checked by: MR
Date: Sep 2023

Drawing Status:

Draft

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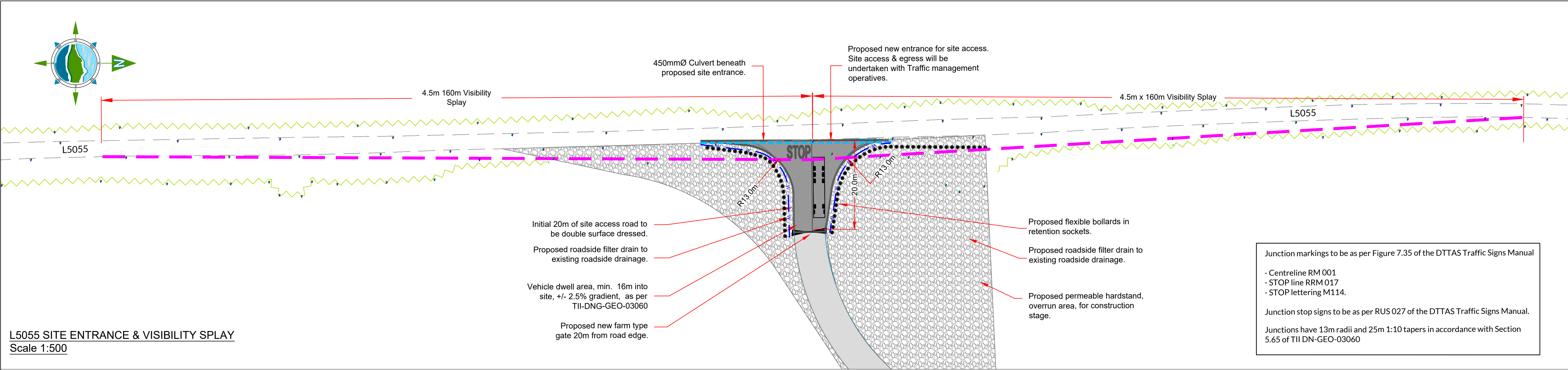
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Drawing No.:

11303-1104

Revision:

A

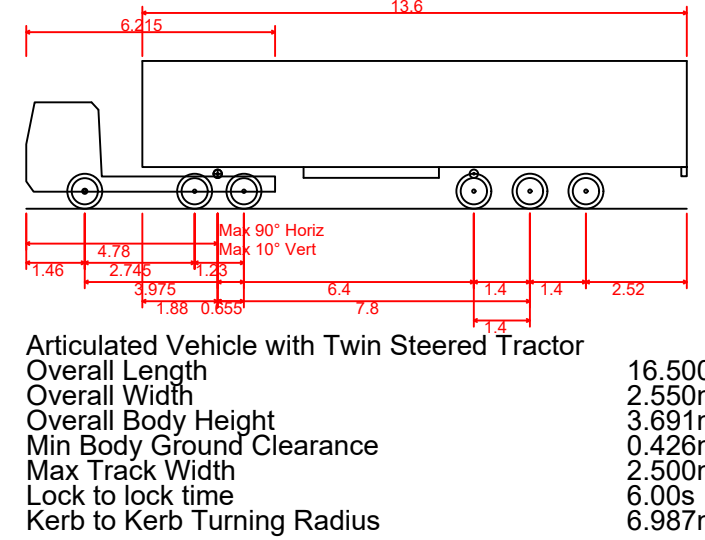


L5055 SITE ENTRANCE & VISIBILITY SPLAY
Scale 1:500

GENERAL LEGEND

- VISIBILITY SIGHTLINES
(4.5m Setback from Road)
- ROAD EDGE
- PROPOSED ROAD SIDE
DRAINAGE CHANNEL
- EXISTING
HEDGEROW
- PROPOSED 450mmØ
DRAINAGE CULVERT

AUTOTRACK VEHICLE DETAILS

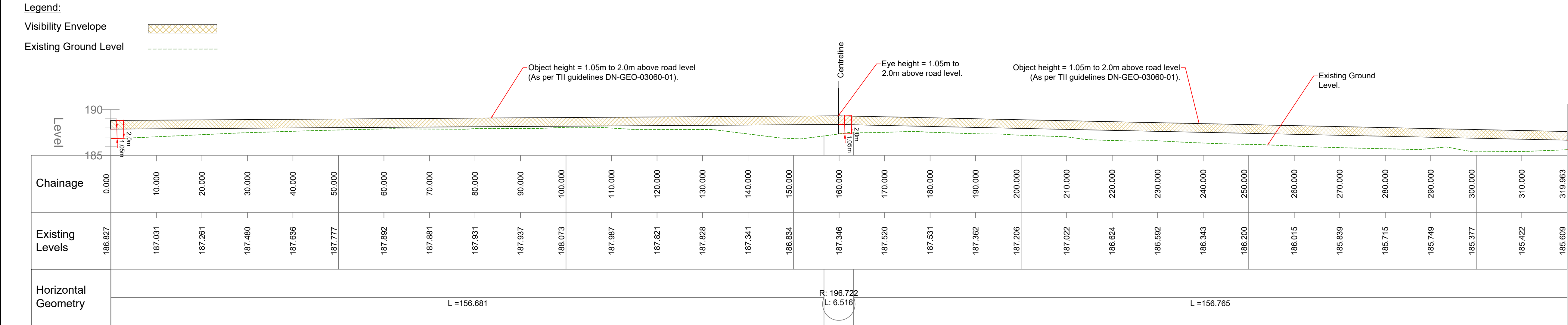


Junction markings to be as per Figure 7.35 of the DTTAS Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

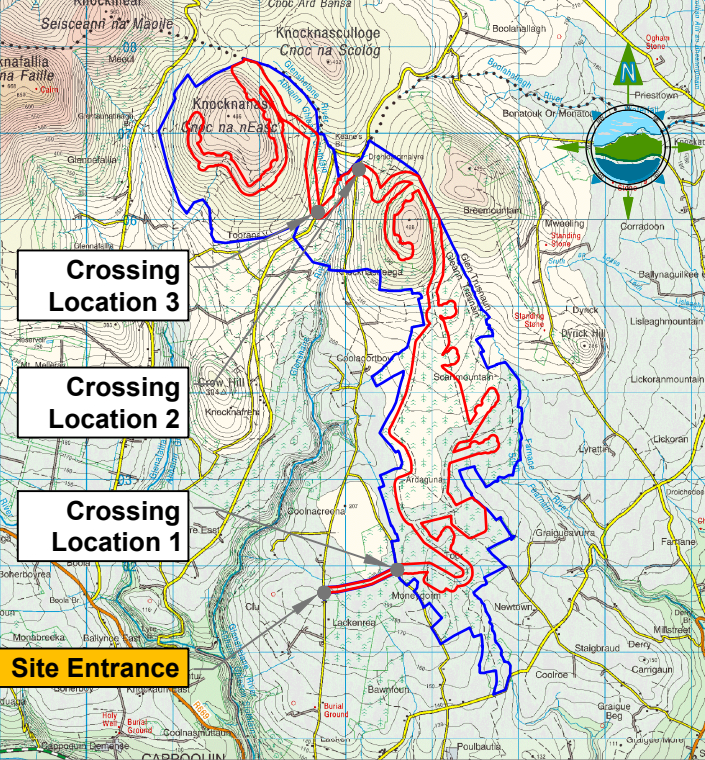
Junction stop signs to be as per RUS 027 of the DTTAS Traffic Signs Manual.

Junctions have 13m radii and 25m 1:10 tapers in accordance with Section 5.65 of TII DN-GEO-03060



R392 VERTICAL PROFILE ALONG VISIBILITY SPLAY
Scale H: 1:500 / V:1:250

KEY PLAN



D01	18.09.23	DRAFT ISSUE FOR REVIEW	MN	JS
Rev	Date	Description	By	Chkd.

Client:

FuturEnergy Ireland

Project:

SCARTMOUNTAIN WIND FARM

Title:

L5055
SITE ENTRANCE DETAILS,
VISIBILITY SIGHTLINES &
AUTOTRACK ASSESSMENT

Scale @ A1: As Shown

Prepared by: M. Nolan

Checked by: J. Staunton

Date: Sept. 2023

Drawing Status: Draft

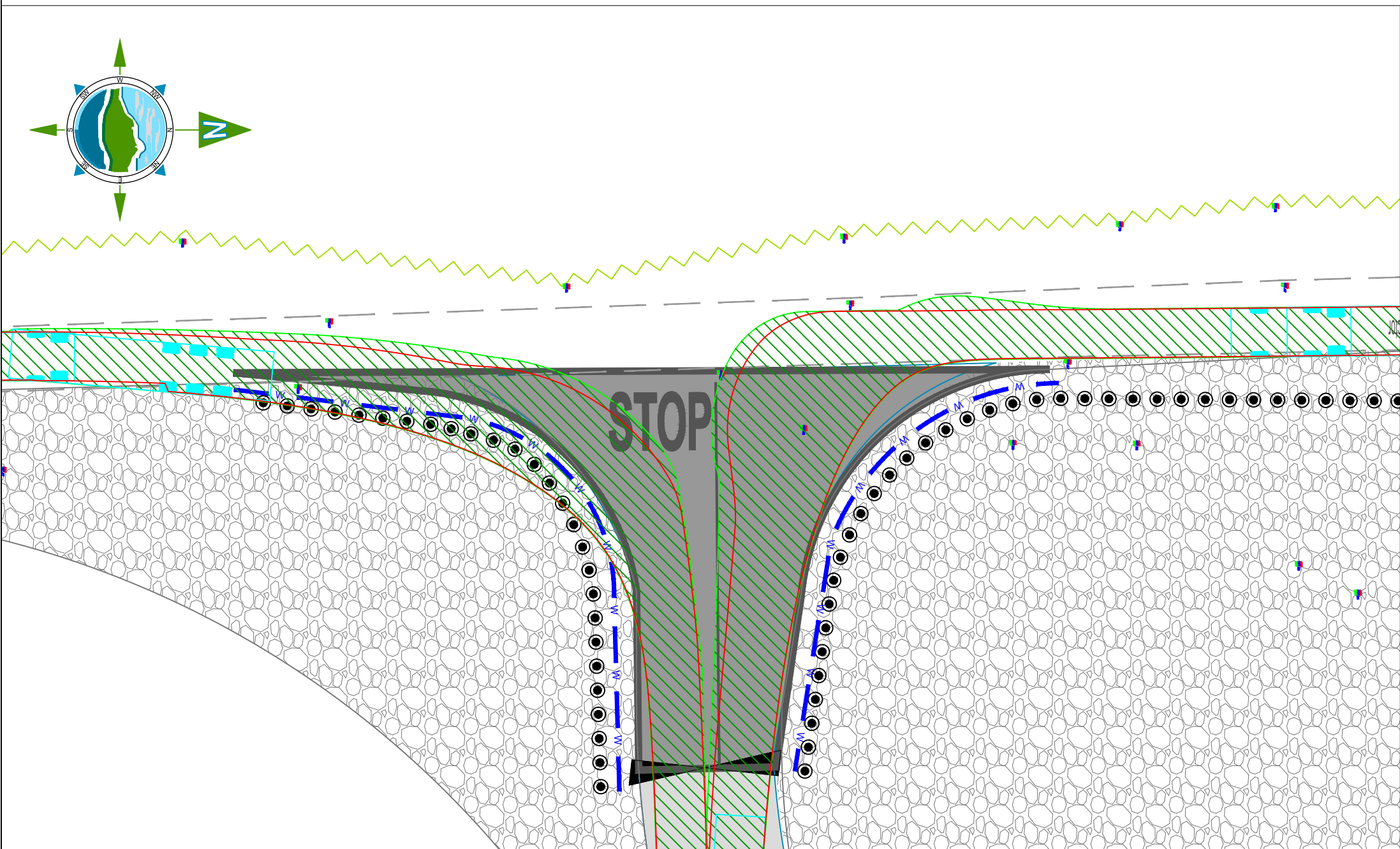
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Drawing No.: 11303-2020

Revision: D01



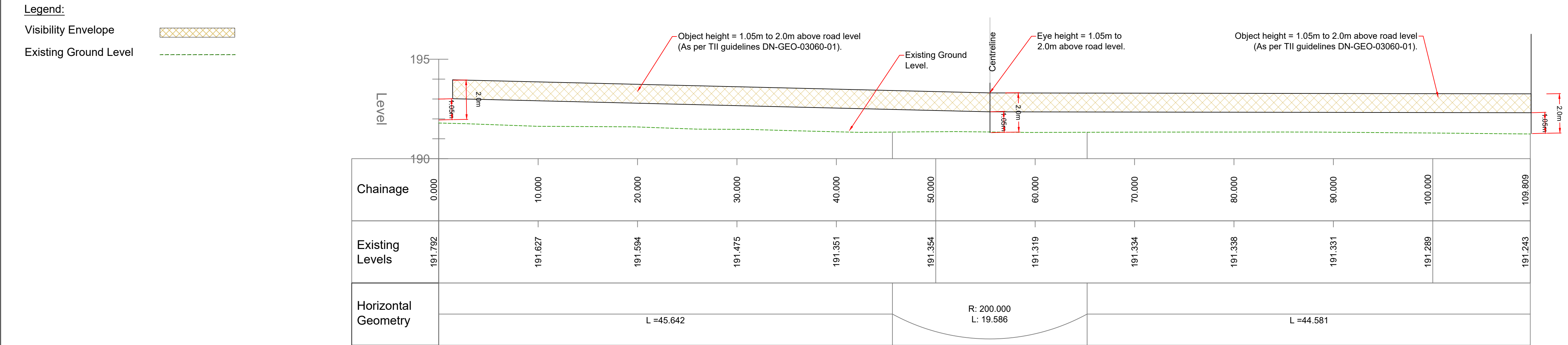
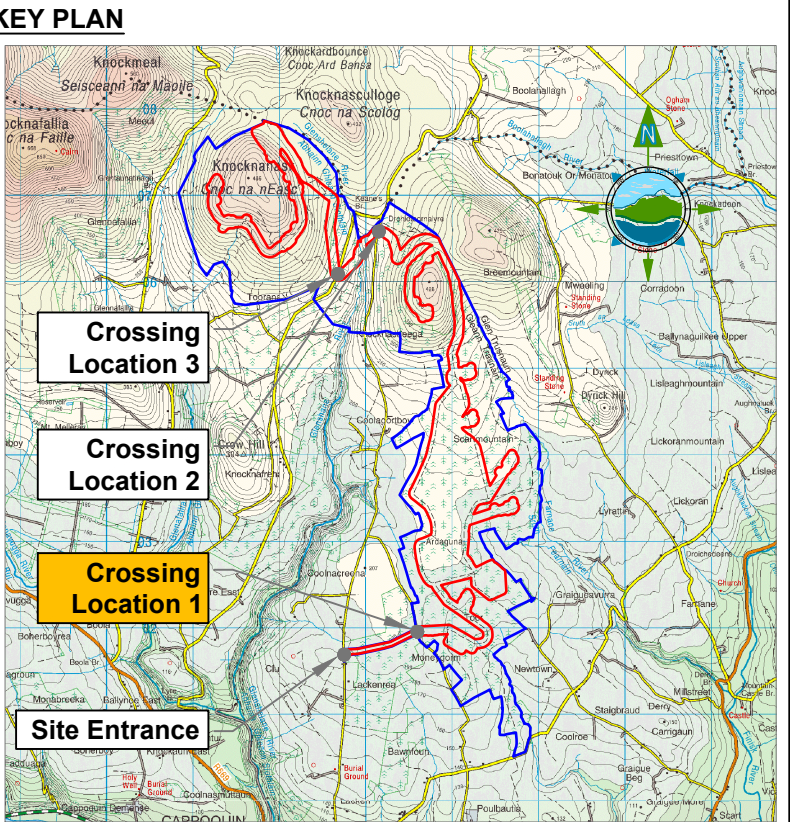
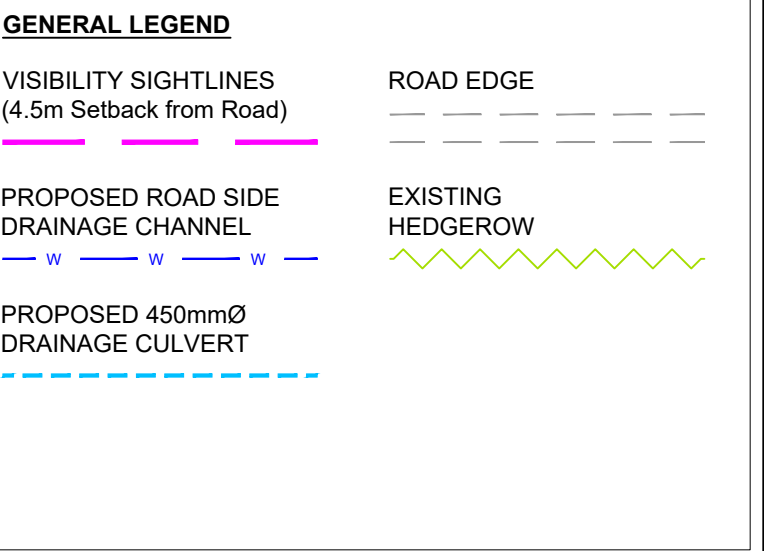
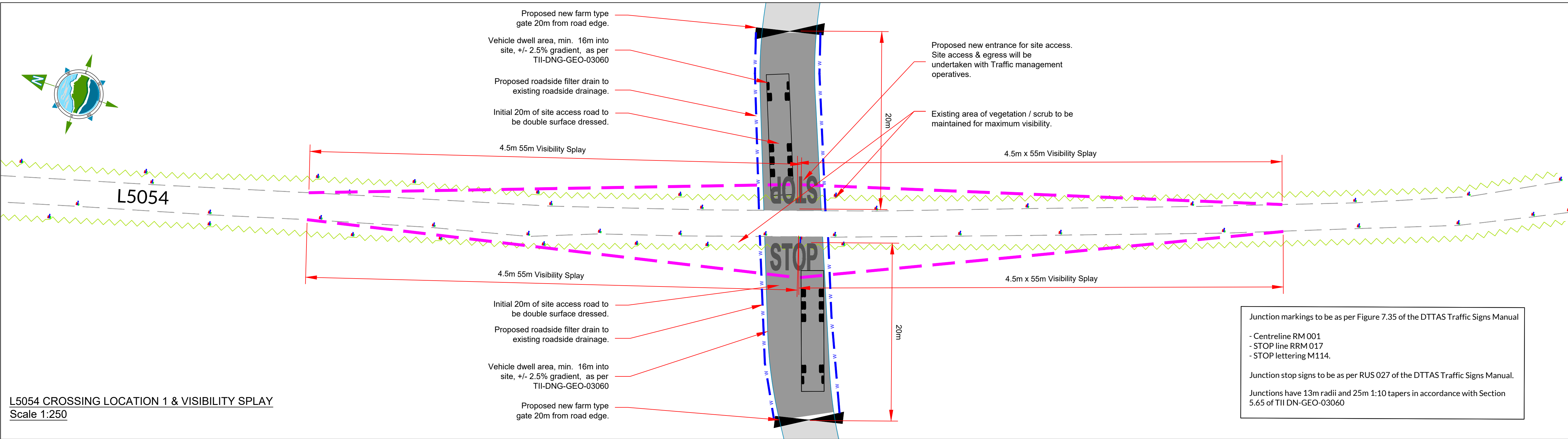
L5055 AUTOTRACK ASSESSMENT - SITE ACCESS & EGRESS
Scale 1:250



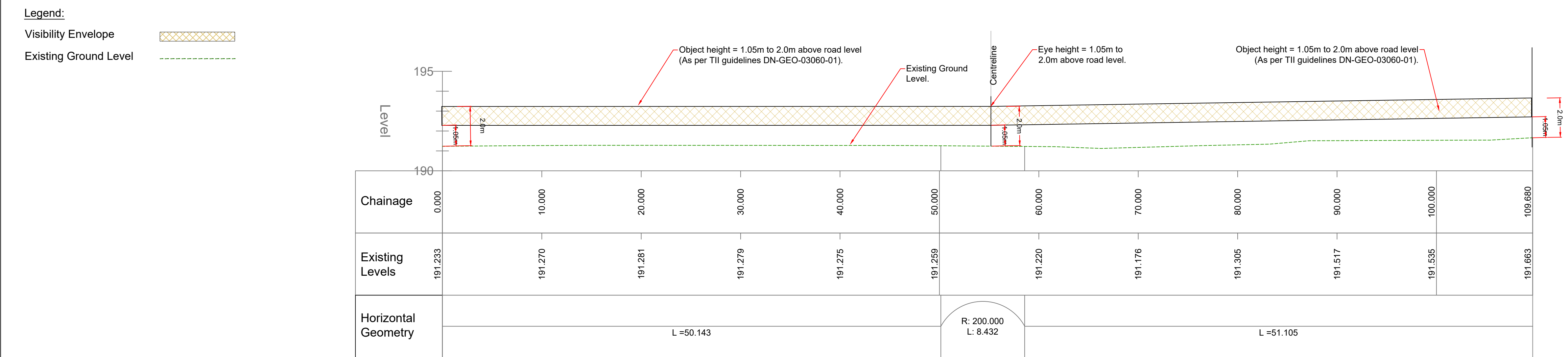
VIEW TO RIGHT OF ENTRANCE
(North)



VIEW TO LEFT OF ENTRANCE
(South)



L5054 CROSSING LOCATION 1
VERTICAL PROFILE ALONG VISIBILITY SPLAY - WESTERN ENTRANCE
Scale H: 1:250 / V:1:125



L5054 CROSSING LOCATION 1
VERTICAL PROFILE ALONG VISIBILITY SPLAY - EASTERN ENTRANCE
Scale H: 1:250 / V:1:125

D01	18.09.23	DRAFT ISSUE FOR REVIEW	MN	JS
Rev	Date	Description	By	Chkd.

Client:

FuturEnergy Ireland

Project:

SCARTMOUNTAIN WIND FARM

Title:

L5054
ROAD CROSSING LOCATION 1
VISIBILITY SIGHTLINES &
DETAILS

Scale @ A1:

As Shown

Prepared by:

M. Nolan

Checked by:

J. Staunton

Date:

Sept. 2023

Drawing Status:

Draft

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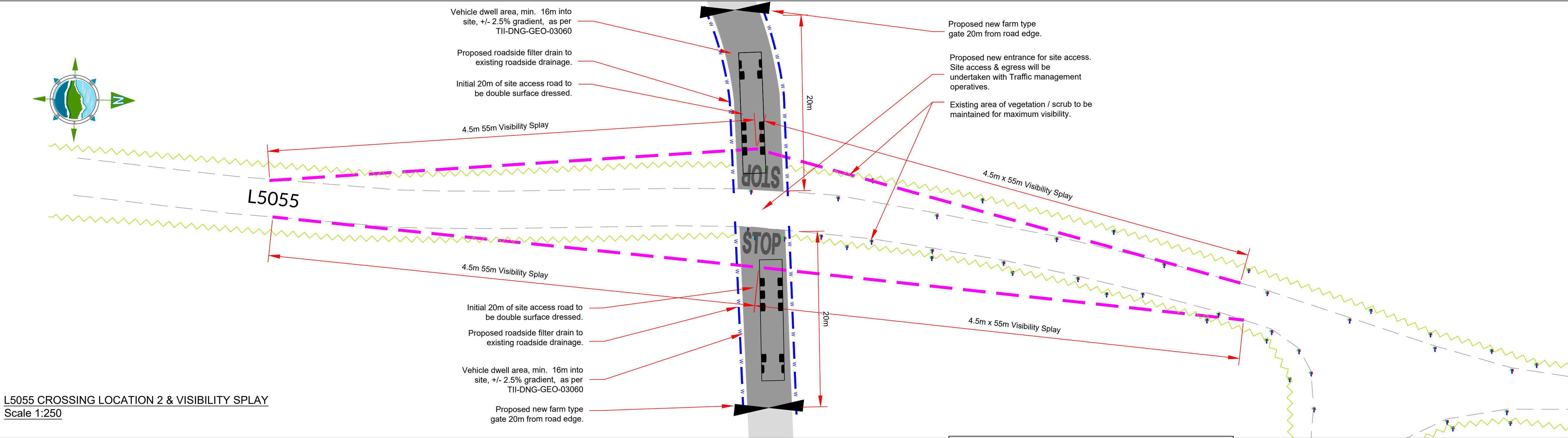
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Drawing No.:

11303-2021

Revision:

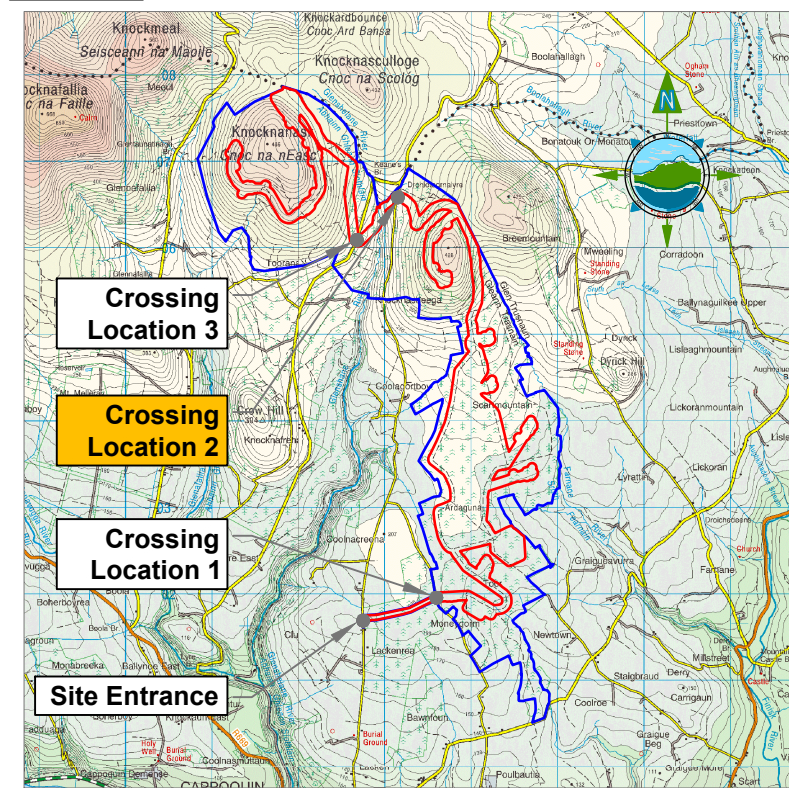
D01



L5055 CROSSING LOCATION 2 & VISIBILITY SPLAY
Scale 1:250

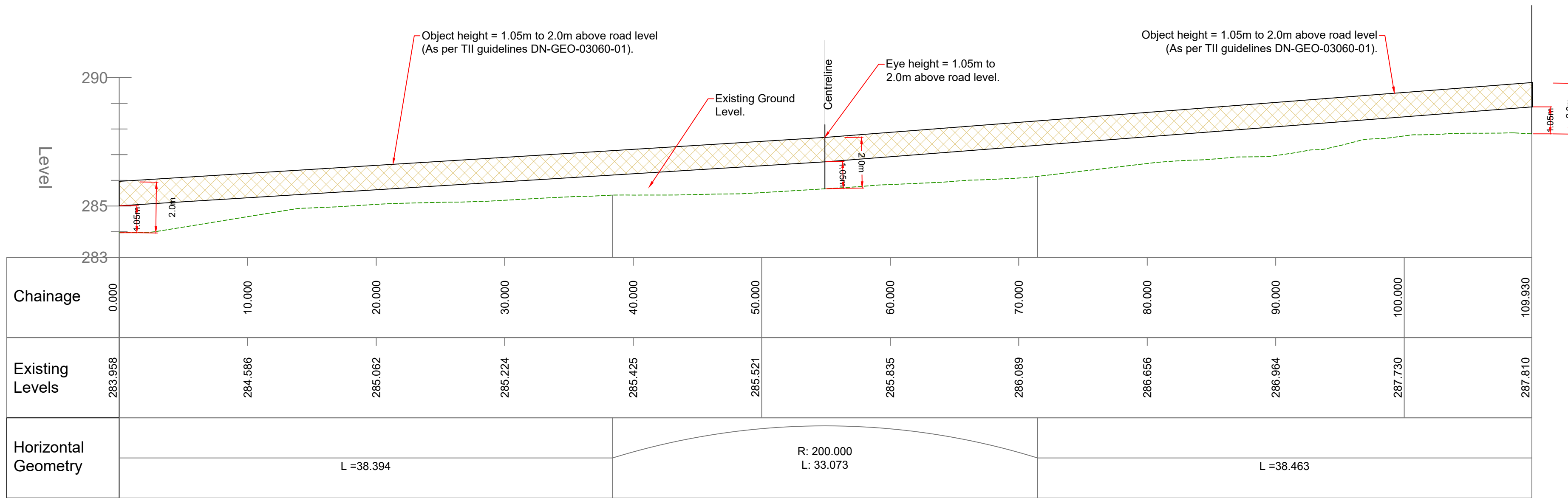
- GENERAL LEGEND**
- VISIBILITY SIGHTLINES
(4.5m Setback from Road)
- PROPOSED ROAD SIDE
DRAINAGE CHANNEL
- PROPOSED 450mmØ
DRAINAGE CULVERT
- ROAD EDGE
- EXISTING
HEDGEROW

KEY PLAN



D01	18.09.23	DRAFT ISSUE FOR REVIEW	MN	JS
Rev	Date	Description	By	Chkd.

- Legend:**
- Visibility Envelope
- Existing Ground Level



L5055 CROSSING LOCATION 2
VERTICAL PROFILE ALONG VISIBILITY SPLAY - EASTERN ENTRANCE
Scale H: 1:250 / V:1:125

- Legend:**
- Visibility Envelope
- Existing Ground Level



L5055 CROSSING LOCATION 2
VERTICAL PROFILE ALONG VISIBILITY SPLAY - WESTERN ENTRANCE
Scale H: 1:250 / V:1:125

Client:

FuturEnergy Ireland

Project:

SCARTMOUNTAIN WIND FARM

Title:

L5055
ROAD CROSSING LOCATION 2
VISIBILITY SIGHTLINES &
DETAILS

Scale @ A1:

As Shown

Prepared by:
M. Nolan

Checked by:
J. Staunton

Date:
Sept. 2023

Drawing Status: Draft

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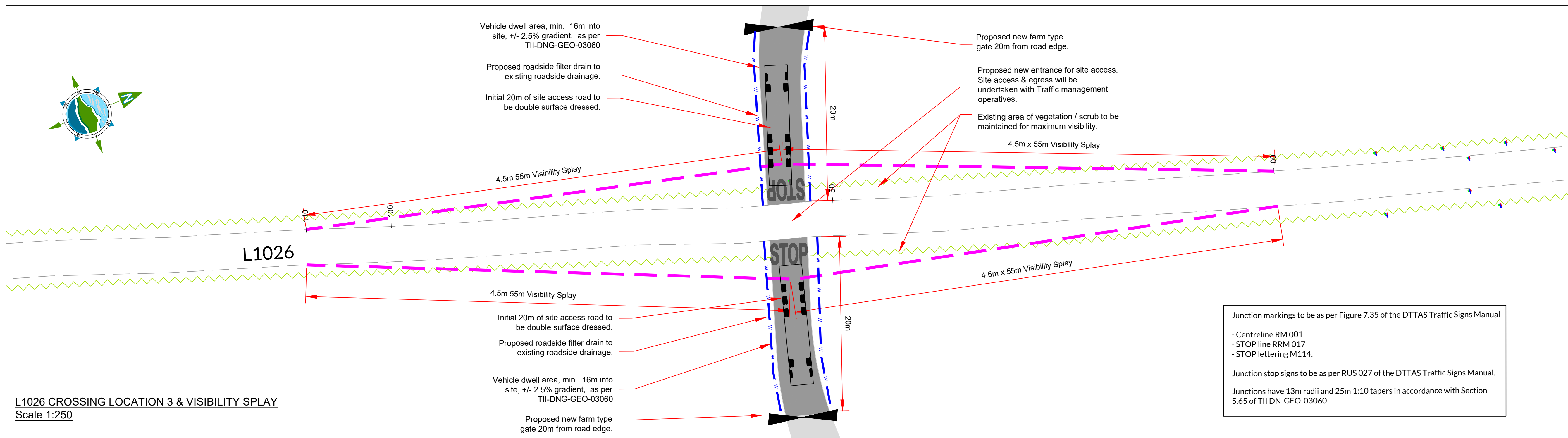
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Drawing No.:

11303-2022

Revision:

D01



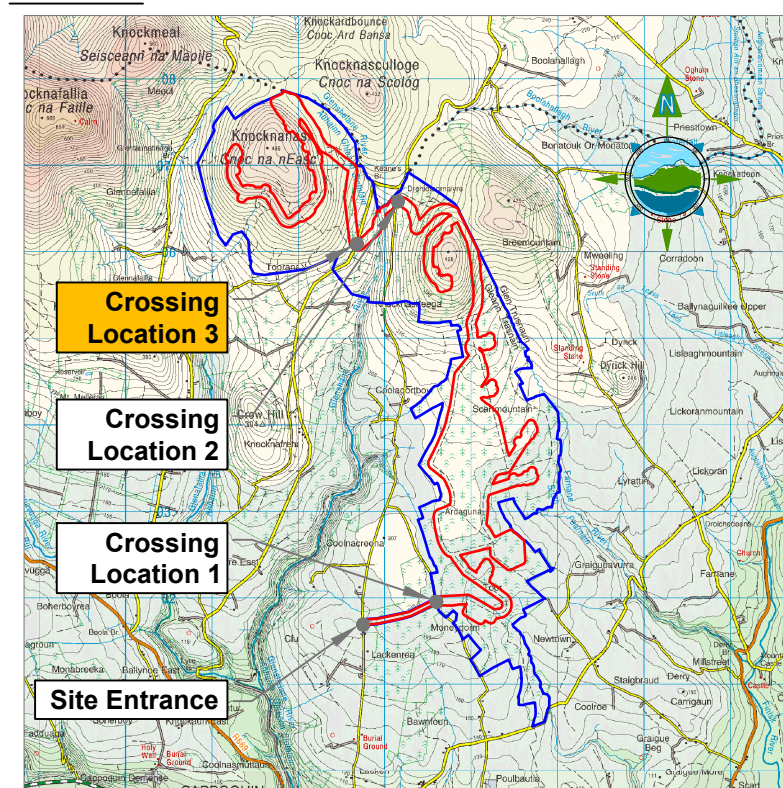
Junction markings to be as per Figure 7.35 of the DTTAS Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the DTTAS Traffic Signs Manual.

Junctions have 13m radii and 25m 1:10 tapers in accordance with Section 5.65 of TII DN- GEO- 03060

KEY PLAN



D01	18.09.23	DRAFT ISSUE FOR REVIEW	MN	JS
Rev	Date	Description	By	Chkd

Project:

SCARTMOUNTAIN WIND FARM

Title: L1026
ROAD CROSSING LOCATION 3
VISIBILITY SIGHTLINES &
DETAILS

Scale @ A1:	As Shown	
Prepared by:	Checked by:	Date:
M. Nolan	J. Staunton	Sept. 2023

Drawing Status: Draft

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Drawing No.:	Revision:
11303-2023	D0

Object height = 1.05m to 2.0m above road level
(As per TII guidelines DN-GEO-03060-01).

Existing Ground Level.

Centreline

Eye height = 1.05m to 2.0m above road level.
(As per TII guidelines DN-GEO-03060-01).

Object height = 1.05m to 2.0m above road level
(As per TII guidelines DN-GEO-03060-01).

Level

Chainage

Existing Levels

Horizontal Geometry

R: 200.000
L: 2.575

L = 53.203

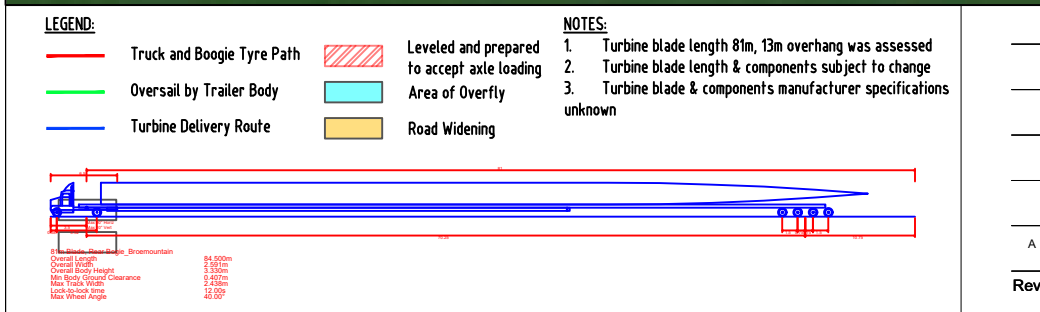
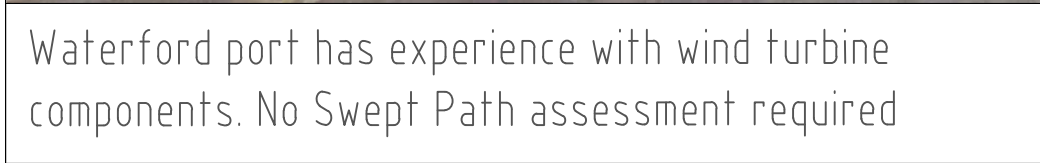
L = 54.219

L1026 CROSSING LOCATION 3
VERTICAL PROFILE ALONG VISIBILITY SPLAY - EASTERN ENTRANCE
Scale H: 1:250 / V:1:125


[illegible]

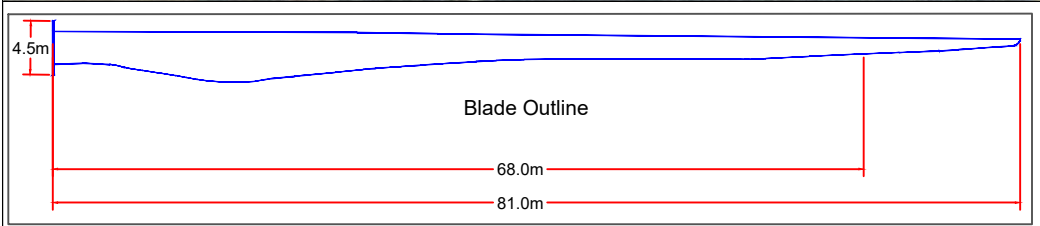
L1026 CROSSING LOCATION 3
VERTICAL PROFILE ALONG VISIBILITY SPLAY - WESTERN ENTRANCE
Scale H: 1:250 / V:1:125

Drawing No.:	Revision:
11303-2023	D0



A	28.06.2022	Planning	K.D	J.O'F
Rev	Date	Description	By	Chkd.

Client:		Prepared by: K.Duffy	TOBIN CONSULTING ENGINEERS TOBIN Consulting Engineers, Fairgreen House, Fairgreen Road, Co. Galway, Ireland tel: +353 (0)941-565211 e-mail: info@tobin.ie www.tobin.ie	TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose. Drawing No.: 11303-2300	Revision: A
Project:	Scartmountain Wind Farm Turbine Delivery Route	Checked: J. O' Flaherty			
		Date: June 2022			
Title:	Waterford Port / N29 Swept Path Analysis Sheet 1 of 24	Project Director: J. Staunton			
		Drawing Status: Planning			
		Scale @ A1: 1:500			



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Rev **Date** **Description** **By** **Chkd.**

A	28.06.2022	Planning	K.D	J.O.F
---	------------	----------	-----	-------

Client: COILLTE

Project: Scartmountain Wind Farm Turbine Delivery Route

Title: Slieverue Roundabout / N29 Swept Path Analysis

Sheet 2 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

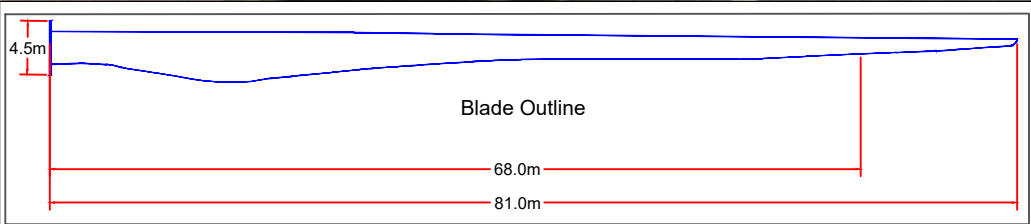
Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:500

Revision: A



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Rev **Date** **Description** **By** **Chkd.**

A	28.06.2022	Planning	K.D	J.O.F
---	------------	----------	-----	-------

Client:

Project: Scartmountain Wind Farm
Turbine Delivery Route

Title: Luffany Roundabout / N29-N25
Swept Path Analysis
Sheet 3 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

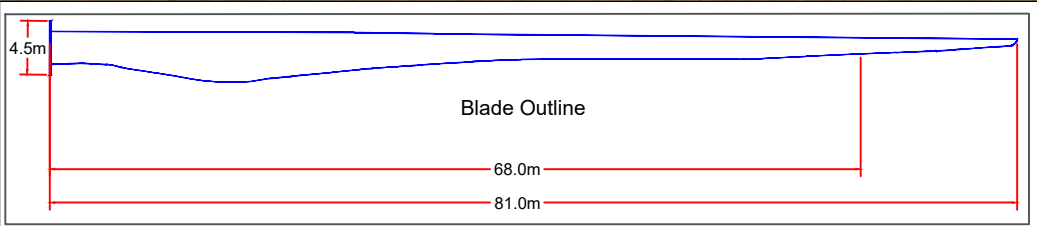
Scale @ A1: 1:500

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Drawing No.: 11303-2302

Revision: A



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Levelled and prepared to accept axle loading

Area of Overfly

Road Widening

81m Blade, River Boogie, Braemountain

Overall Length: 84.000m

Overall Width: 1.500m

Overall Body Height: 4.500m

Max. Tyre Overlap Clearance: 0.450m

Max. Tyre Width: 1.500m

Lock Wheel Angle: 12.00°

Max. Wheel Angle: 12.00°

Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O'.F

Client:

COILLTE

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

Carrick Road Roundabout / N25
Swept Path Analysis
Sheet 4 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:500

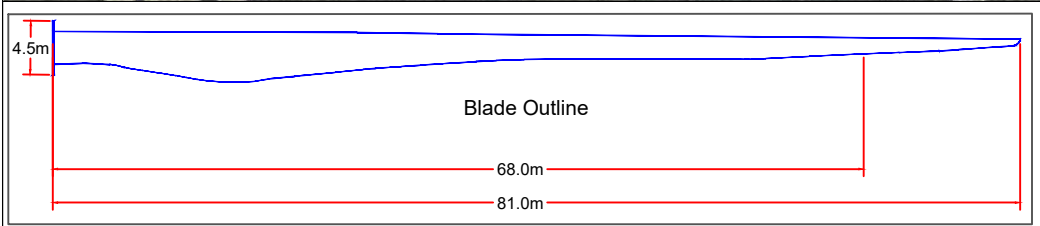
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Revision: A



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

Levelled and prepared to accept axle loading

Area of Overfly

Road Widening

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

81m Blade, River Boogie, Braemountain

Overall Length: 84.00m

Overall Width: 3.00m

Overall Body Height: 4.50m

Max. Tyre Overlap Clearance: 0.450m

Max. Tyre Overlap: 0.450m

Lock Wheel Angle: 42.00°

Max Wheel Angle: 42.00°

Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O'.F

Client:

COILLTE

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

Splitter Islands / N25
Swept Path Analysis
Sheet 5 of 24

Prepared by:

K.Duffy

Checked:

J. O' Flaherty

Date:

June 2022

Project Director:

J. Staunton

Drawing Status:

Planning

Scale @ A1:

1:500

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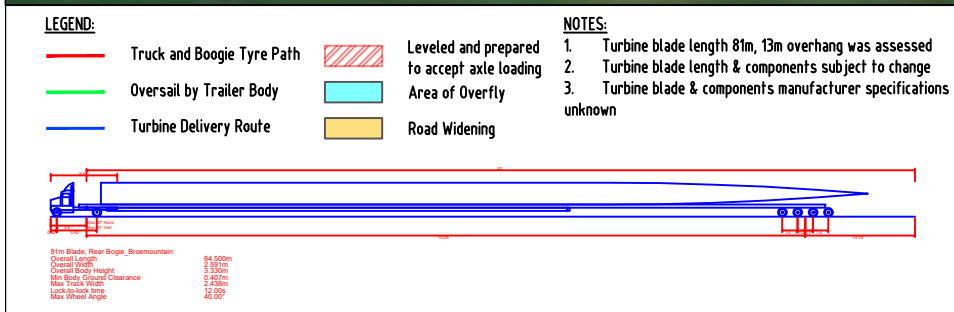
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Revision:


A

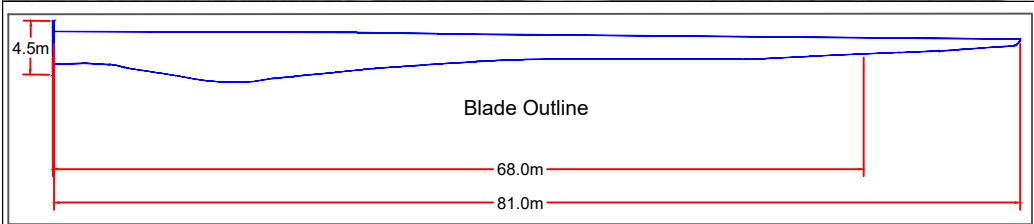
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Drawing No.: 11303-2304



A	28.06.2022	Planning	K.D	J.O'F
Rev	Date	Description	By	Chkd.

Client:		Prepared by: K.Duffy	TOBIN CONSULTING ENGINEERS TOBIN Consulting Engineers, Fairgreen House, Fairgreen Road, Co. Galway, Ireland tel: +353 (0)941-565211 e-mail: info@tobin.ie www.tobin.ie	Revision: <div style="font-size: 48pt; text-align: center;">A</div>
Project:	Scartmountain Wind Farm Turbine Delivery Route	Checked: J. O' Flaherty		
		Date: June 2022		
Title:	Splitter Islands / N25 Swept Path Analysis Sheet 6 of 24	Project Director: J. Staunton	TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose. Drawing No.: 11303-2305	
		Drawing Status: Planning		
		Scale @ A1: 1:500		



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

Levelled and prepared to accept axle loading

Area of Overfly

Road Widening

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

81m Blade - Near Bogie - Braemount

Overall Length	84.000m
Overall Width	3.000m
Overall Body Height	3.500m
Max. Body Clearance	0.450m
Over-Trail Clearance	2.550m
Lock Wheel Angle	12.00°
Max Wheel Angle	12.00°

A	28.06.2022	Planning	K.D	J.O.F	
Rev	Date	Description	By	Chkd.	

Client:

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project: Scartmountain Wind Farm Turbine Delivery Route

Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:500

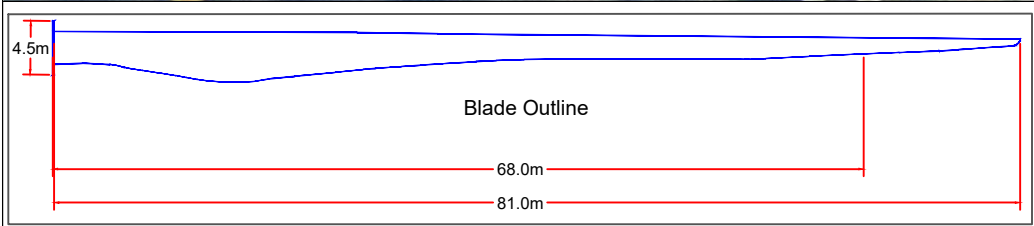
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Drawing No.: 11303-2306

Revision: A

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Passage of road along the N25 shows no obvious constraints. No Swept Path assessment was required



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route
- Leveled and prepared to accept axle loading
- Area of Overfly
- Road Widening

NOTES:

- Turbine blade length 81m, 13m overhang was assessed to accept axle loading
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Rev **Date** **Description** **By** **Chkd.**

A	28.06.2022	Planning	K.D	J.O.F
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Client:

COILLTE
GROW · TRANSFORM · SUSTAIN

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

N25
Swept Path Analysis
Sheet 8 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

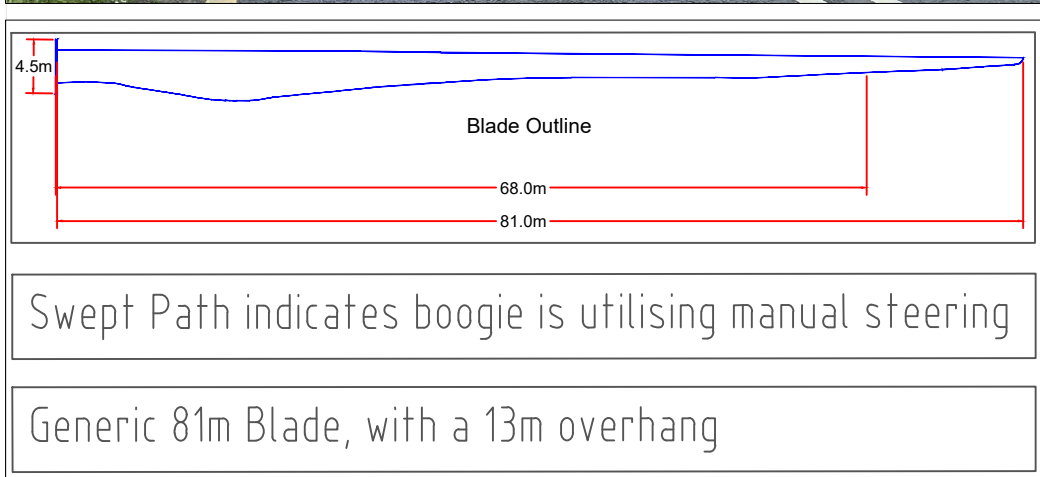
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Drawing No.: 11303-2307

Revision: A



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

8m Blade, Rear Boogie, Braemountain
Overall Length 84.00m
Overall Width 2.50m
Overall Height 4.20m
Max Trailer Width 2.43m
Load Factor 1.25
Max Wheel Angle 40.00°

NOTES:

1. Turbine blade length 81m, 13m overhang was assessed
2. Turbine blade length & components subject to change
3. Turbine blade & components manufacturer specifications unknown

Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O'F

Client:

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

N72 / N25 Junction
Swept Path Analysis

Sheet 9 of 24

Client:

K.Duffy

Checked:

J. O' Flaherty

Date:

June 2022

Project Director:

J. Staunton

Drawing Status:

Planning

Scale @ A1:

1:500

Prepared by:

K.Duffy

Checked:

J. O' Flaherty

Date:

June 2022

Project Director:

J. Staunton

Drawing Status:

Planning

Scale @ A1:

1:500

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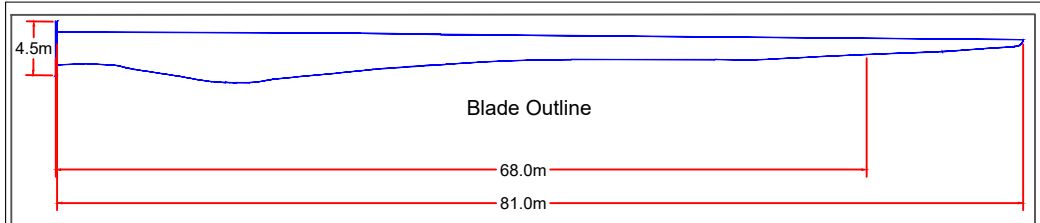
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Drawing No.:

11303-2308

Revision:

A



Swept Path indicates boogie is utilising manual steering

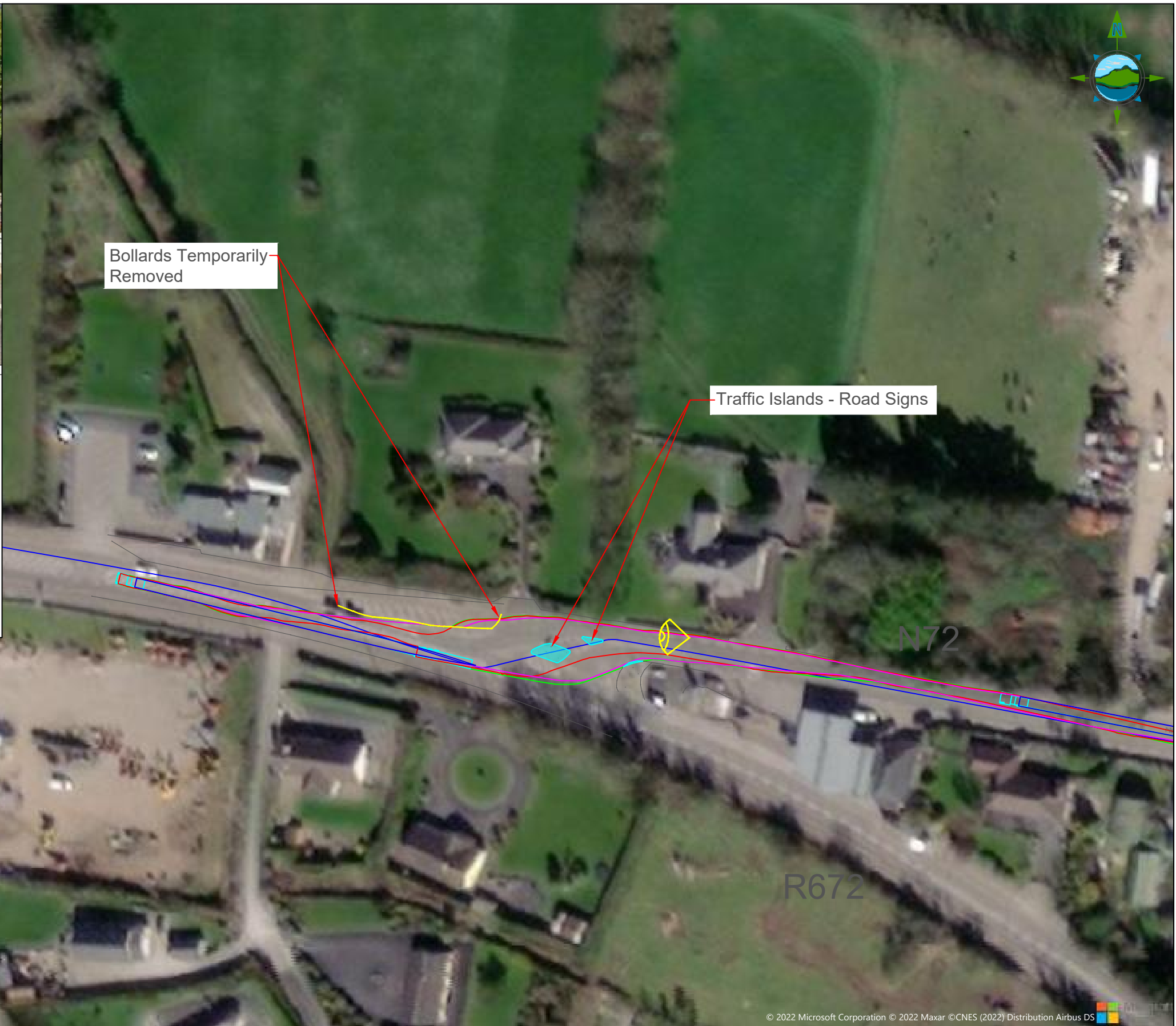
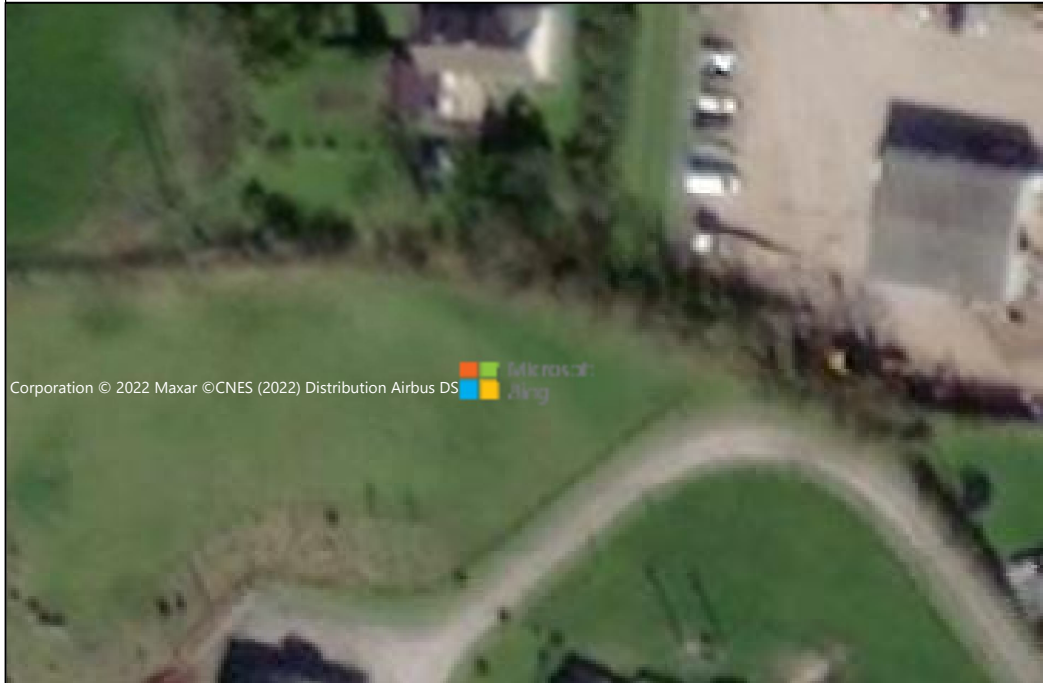
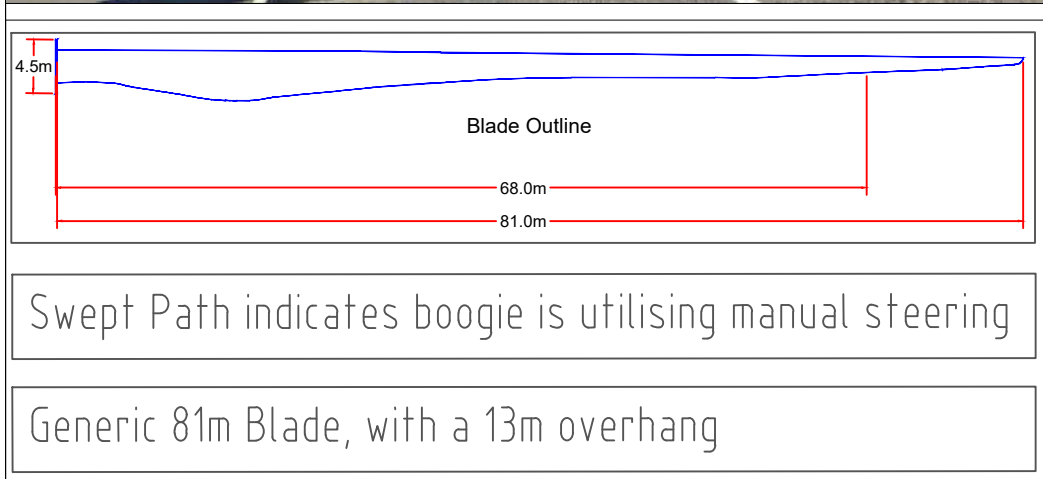
Generic 81m Blade, with a 13m overhang



LEGEND:		NOTES:	
	Truck and Boogie Tyre Path		Leveled and prepared to accept axle loading
	Oversail by Trailer Body		Area of Overfly
	Turbine Delivery Route		Road Widening

#1m Blade Rear Boogie - Scartmountain
 Overall Length: 84.500m
 Overall Body Height: 5.331m
 Max Body Ground Clearance: 0.457m
 Max Trail Width: 2.436m
 Lock Hitch Arm: 12.00m
 Max Wheel Angle: 42.00°

Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O'F



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route
- Levelled and prepared to accept axle loading
- Area of Overfly
- Road Widening

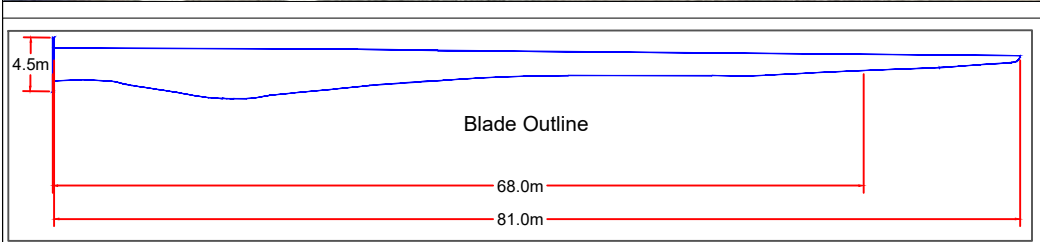
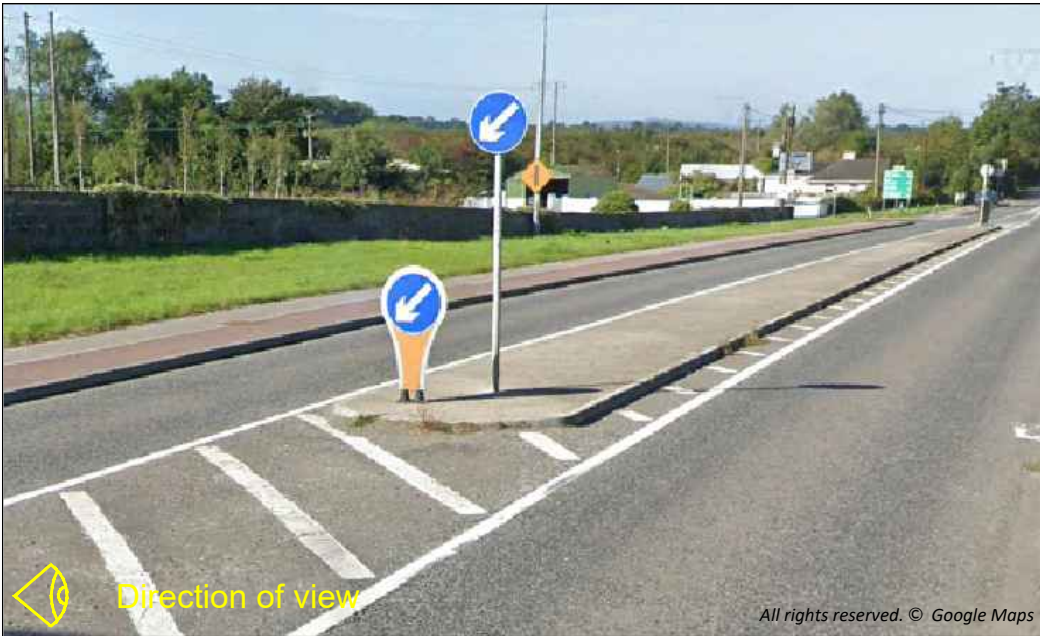
NOTES:

1. Turbine blade length 81m, 13m overhang was assessed
2. Turbine blade length & components subject to change
3. Turbine blade & components manufacturer specifications unknown

Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O'F

81m Blade, Rear Boogie, Scartmountain

Overall Length	84.500m
Overall Body Height	5.331m
Max Body Ground Clearance	0.457m
Max Trail Width	2.439m
Lock Road Area	12.00m
Max Wheel Angle	40.00°



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Rev **Date** **Description** **By** **Chkd.**

A	28.06.2022	Planning	K.D	J.O.F
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Rev **Date** **Description** **By** **Chkd.**

A	28.06.2022	Planning	K.D	J.O.F
---	------------	----------	-----	-------

Client:

Project: Scartmountain Wind Farm
Turbine Delivery Route

Title: Splitter Island / N72
Swept Path Analysis
Sheet 12 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

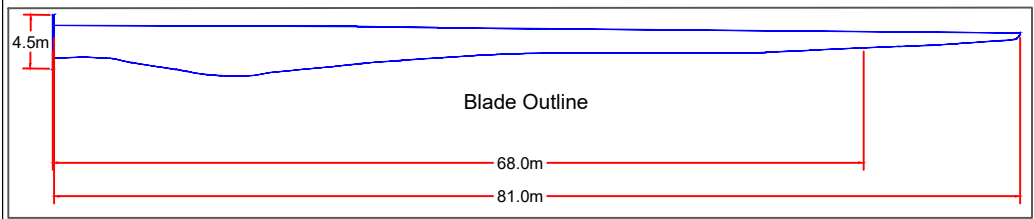
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Drawing No.: 11303-2311

Revision: A



Passage of road along the N72 shows no obvious constraints. No Swept Path assessment was required



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LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

Levelled and prepared to accept axle loading

Area of Overfly

Road Widening

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

81m Blade, Near Bogie, Braemountain
Overall Length: 84.000m
Overall Width: 3.300m
Overall Body Height: 3.300m
Max. Tyre Overlap Clearance: 0.450m
Over Fly Area: 1.250m
Lock Wheel Angle: 42.00°

Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O'.F

Client:

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:1000

Project: Scartmountain Wind Farm
Turbine Delivery Route

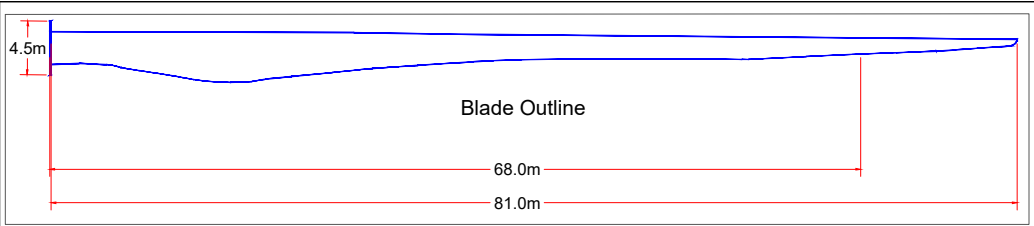
Title: N72
Swept Path Analysis
Sheet 13 of 24

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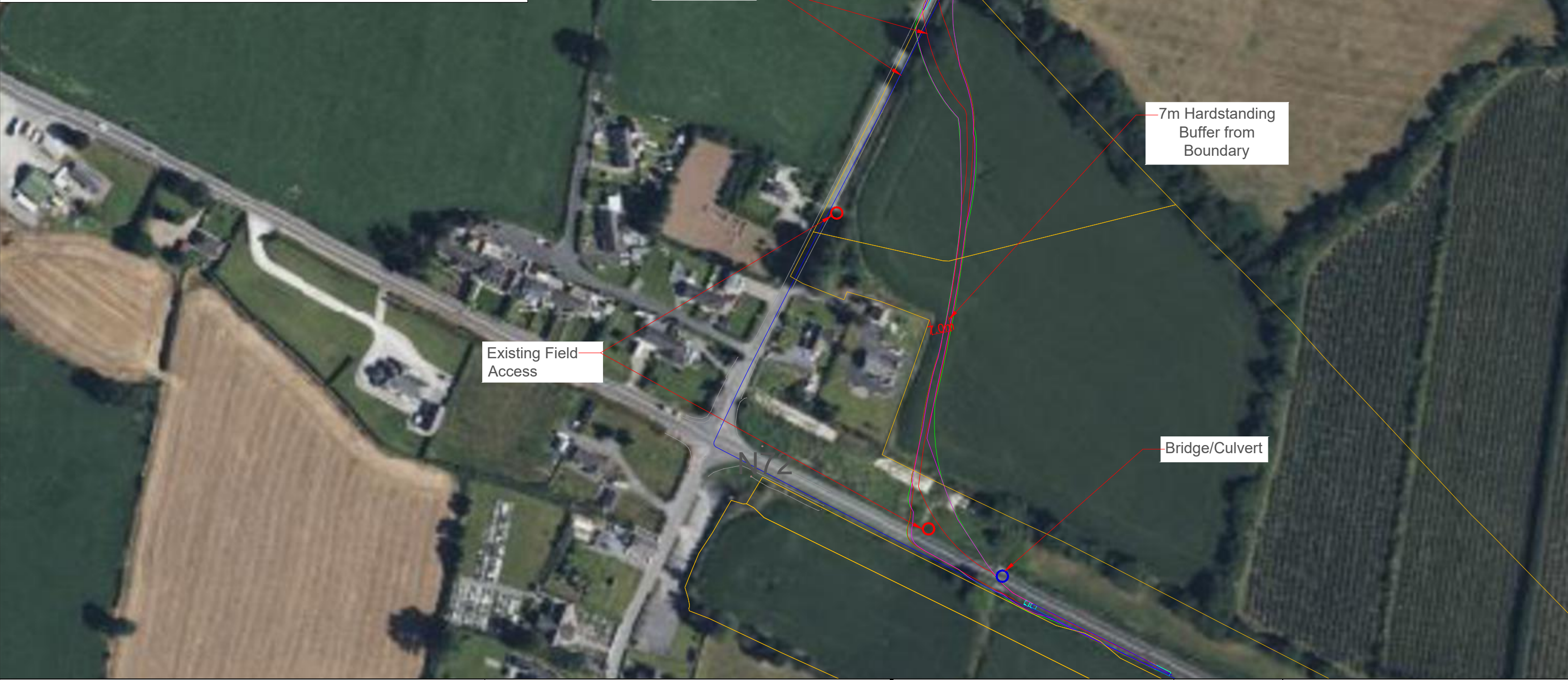
Drawing No.: 11303-2312

Revision: A



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route
- Topo Survey
- Levelled and prepared to accept axle loading
- Area of Oversail
- Road Widening
- Affected Foliol(s)

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown
- Clear of Vegetation

Blade Data:

Blade Name	Broemountain
Overall Length	81.00m
Overall Width	4.50m
Max. Body Height	1.30m
Max. Body Width	0.45m
Max. Body Clearance	0.45m
Max. Wheel Spacing	12.00m
Max. Wheel Angle	12.00°

Rev	Date	Description	By	Chkd.
E	09.10.23	For Information Purposes	KD	J.O'F
D	22.09.23	For Information Purposes	KD	J.O'F
C	03.07.24	For Information Purposes	K.D	J.O'F
G	10.01.24	For Information Purposes	K.D	J.O'F
F	22.11.23	For Information Purposes	K.D	J.O'F

Client:

COILLTE
GROW-TRANSFORM-SUSTAIN

Project:

Broemountain Windfarm
Turbine Delivery Route

Title:

N72 / L1027 Affane Junction
Swept Path Analysis
Sheet 14 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: August 2022

Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:1000

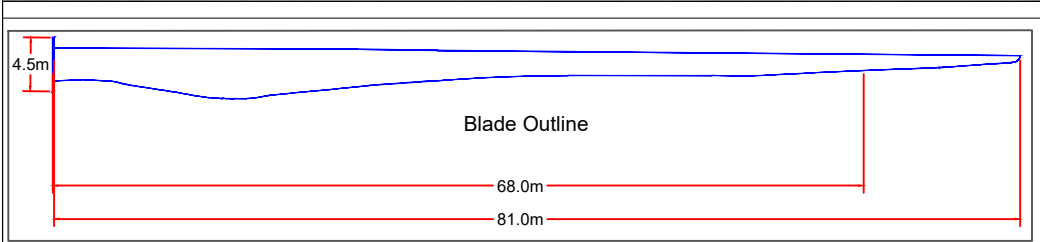
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Drawing No.: 11301-2313

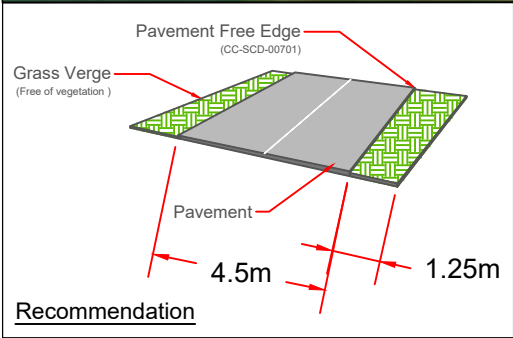
Revision: G

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Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Clear of Vegetation

Recommendation

81m Blade, Rear Boogie, Braemountain

Overall Length	84.000m
Overall Width	12.000m
Overall Body Height	1.300m
Overall Body Clearance	0.450m
Max. Tyre Spacing	1.200m
Lock Wheel Angle	12.00°



Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O'.F

Client:

Project: Scartmountain Wind Farm
Turbine Delivery Route

Title: L1027
Swept Path Analysis
Sheet 15 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

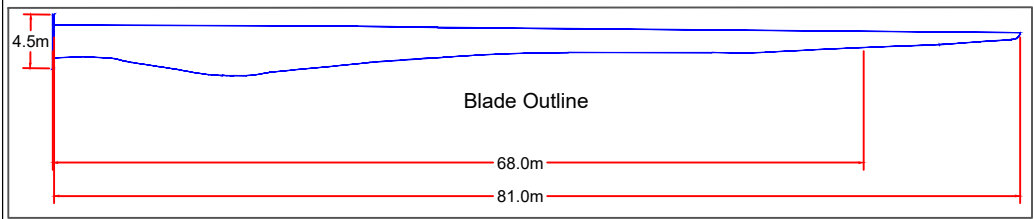
Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:500

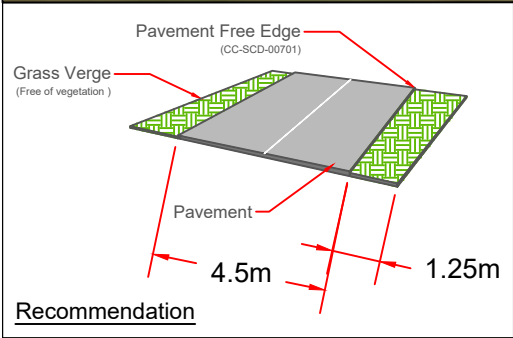
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e-mail: info@tobin.ie
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Revision: A



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Clear of Vegetation

Recommendation

- Leveled and prepared to accept axle loading
- Area of Overfly
- Road Widening

Blade Data:

Blade	81m
Overall Length	84.00m
Overall Width	5.50m
Overall Body Height	5.50m
Max Body Vase Clearance	0.450m
Clear Vase	1.25m
Lock Wheel Spine	12.00m
Max Wheel Angle	12.00°



Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O.F

Client:

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

L1027
Swept Path Analysis
Sheet 16 of 24

Prepared by:

K.Duffy

Checked:

J. O' Flaherty

Date:

June 2022

Project Director:

J. Staunton

Drawing Status:

Planning

Scale @ A1:

1:500

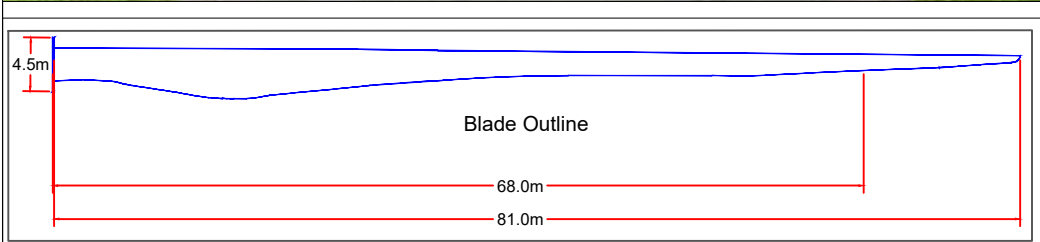
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Revision:

A

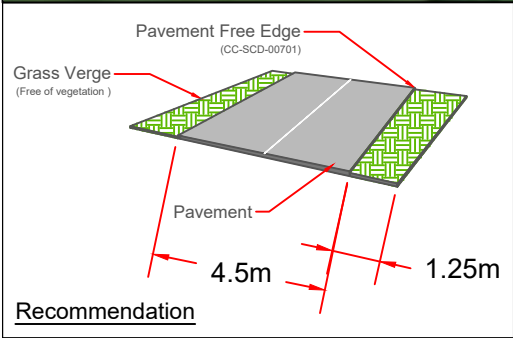
Drawing No.:

11303-2315



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route
- Levelled and prepared to accept axle loading
- Area of Overfly
- Road Widening
- Clear of Vegetation

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Recommendation

81m Blade, River Boogie, Braemount
Overall Length: 84.00m
Overall Width: 12.00m
Overall Body Height: 4.50m
Max Body Width: 12.00m
Max Body Clearance: 0.450m
Clear Width: 12.00m
Lock Width: 12.00m
Max Wheel Angle: 45.00°

Rev	Date	Description	By	Chkd.
A	28.06.2022	Planning	K.D	J.O.F

Client: **COILLTE**

Project: **Scartmountain Wind Farm Turbine Delivery Route**

Title: **L1027 Swept Path Analysis**
Sheet 17 of 24

Prepared by: **K. Duffy**

Checked: **J. O' Flaherty**

Date: **June 2022**

Project Director: **J. Staunton**

Drawing Status: **Planning**

Scale @ A1: **1:500**

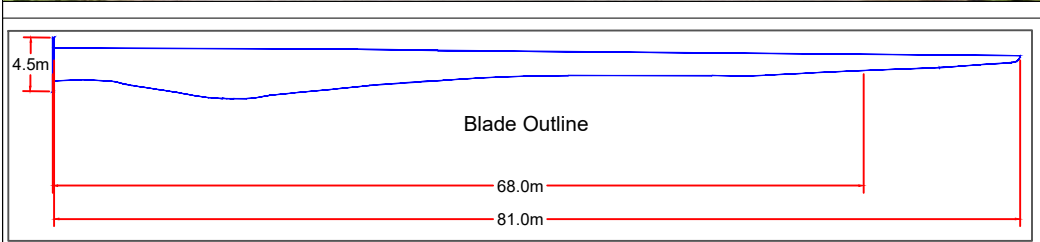
Revision: **A**

Drawing No.: **11303-2316**

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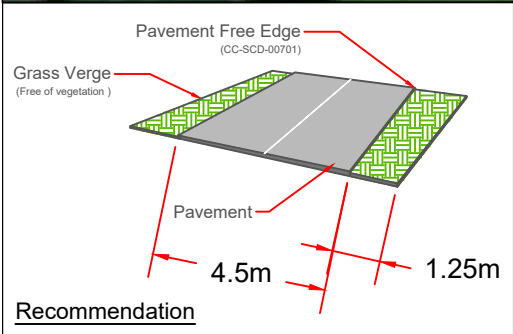
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Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Clear of Vegetation

Recommendation

- Leveled and prepared to accept axle loading
- Area of Overfly
- Road Widening

Rev **Date** **Description** **By** **Chkd.**

A	28.06.2022	Planning	K.D	J.O.F
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Client:

COILLTE
GROW-TRANSFORM-SUSTAIN

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

L5055
Swept Path Analysis
Sheet 18 of 24

Prepared by:

K.Duffy

Checked:

J. O' Flaherty

Date:

June 2022

Project Director:

J. Staunton

Drawing Status:

Planning

Scale @ A1:

1:500

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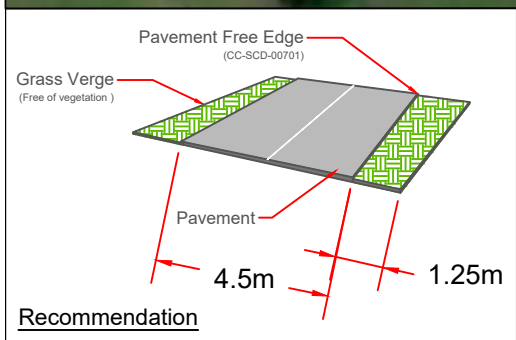
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Drawing No.:

11303-2317

Revision:

A



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications


unknown

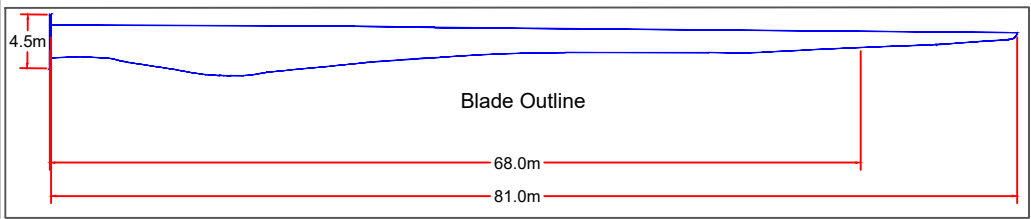
Clear of Vegetation

81m Blade Rear Boogie, Broommount

Overall Length	84.000m
Overall Width	1.551m
Overhang/Boogie Height	1.285m
Min Trailer Ground Clearance	1.401m
Max Trailer Width	2.426m
Lock-to-lock turn	12.00°
Max Wheel Angle	40.00°

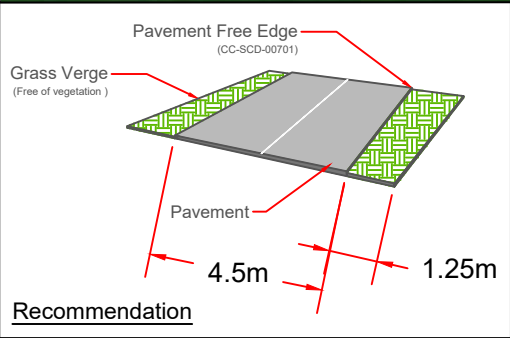


Client:		Prepared by: K.Duffy	TOBIN CONSULTING ENGINEERS TOBIN Consulting Engineers, Fairgreen House, Fairgreen Road, Co. Galway, Ireland tel: +353 (0)941-565211 e-mail: info@tobin.ie www.tobin.ie	Revision: A
Project:	Scartmountain Wind Farm Turbine Delivery Route	Checked: J. O' Flaherty		
		Date: June 2022		
		Project Director: J. Staunton		
Title:	L5055 Swept Path Analysis Sheet 20 of 24	Drawing Status: Planning	TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose. Drawing No.: 11303-2319	
		Scale @ A1: 1:500		



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



Recommendation

LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

Levelled and prepared to accept axle loading

Area of Overfly

Road Widening

NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Clear of Vegetation

81m Blade, River Boogie, Braemount

Overall Length: 84.000m

Overall Width: 13.000m

Overall Body Height: 13.000m

Max. Tyre Overlap Clearance: 0.450m

Max. Tyre Overlap: 0.450m

Lock Wheel Angle: 12.00°

Max. Wheel Angle: 12.00°

A	28.06.2022	Planning	K.D	J.O'.F	
Rev	Date	Description	By	Chkd.	

Client:

COILLTE
GROW · TRANSFORM · SUSTAIN

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:500

Project: Scartmountain Wind Farm
Turbine Delivery Route

Title: L5055
Swept Path Analysis
Sheet 21 of 24

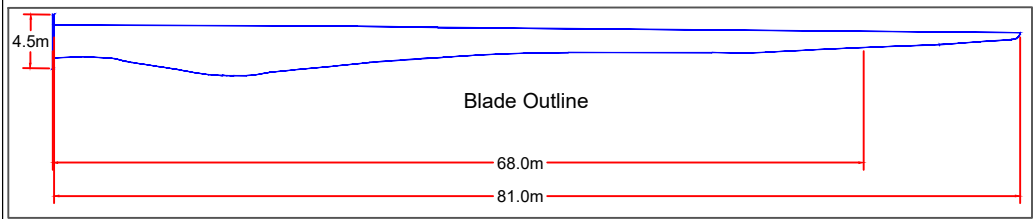
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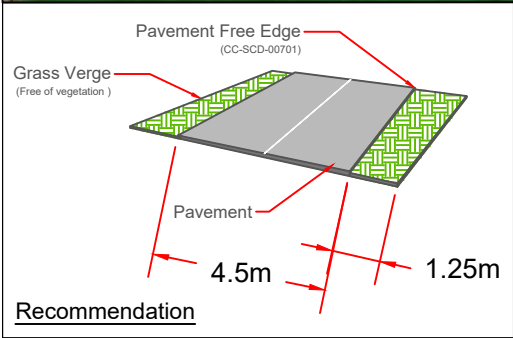
Drawing No.: 11303-2320

Revision: A



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

NOTES:

- Turbine blade length 81m, 13m overhang was assessed to accept axle loading
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Clear of Vegetation

Recommendation

- Leveled and prepared to accept axle loading
- Area of Overfly
- Road Widening

Rev **Date** **Description** **By** **Chkd.**

A	28.06.2022	Planning	K.D	J.O.F
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Client:

COILLTE
GROW TRANSFORM SUSTAIN

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

L5055
Swept Path Analysis
Sheet 22 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: June 2022

Project Director: J. Staunton

Drawing Status: Planning

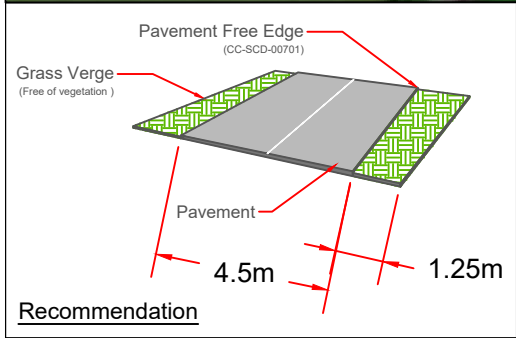
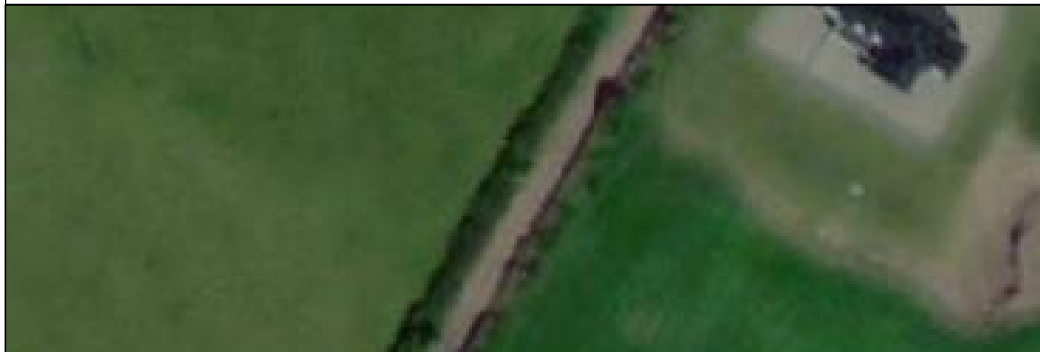
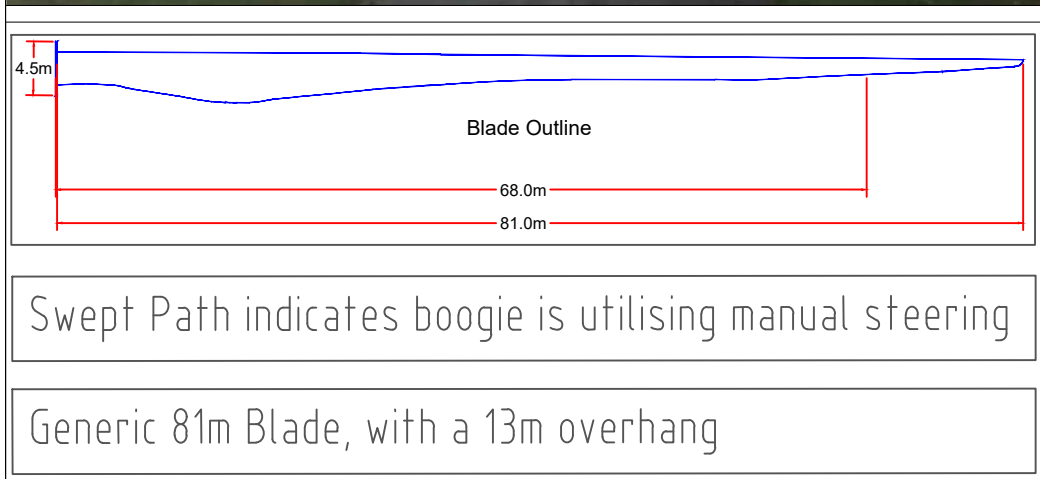
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Drawing No.: 11303-2321

Revision: A



LEGEND:

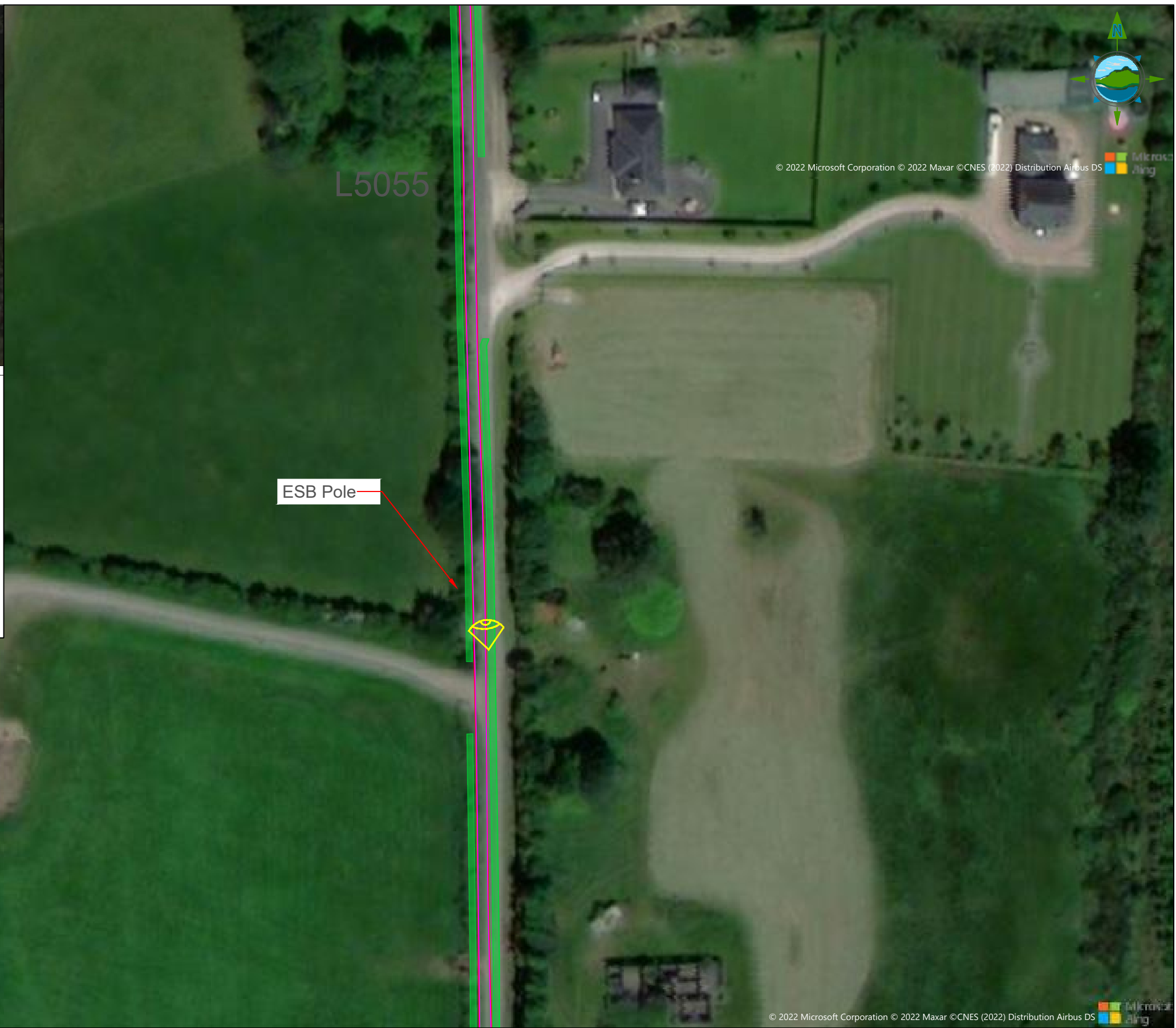
- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route



NOTES:

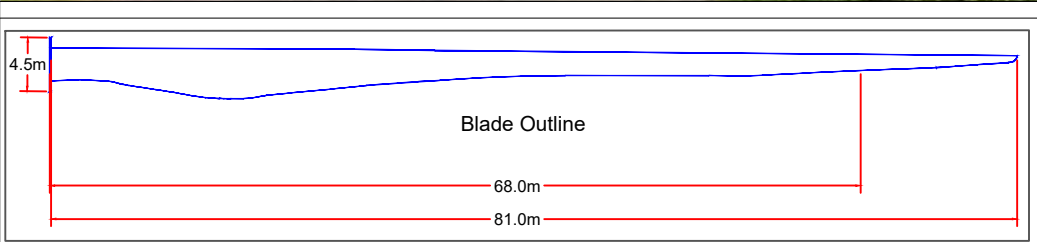
- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

 Clear of Vegetation

Item	Value
Truck Overall Length	84.500m
Overall Width	2.551m
Oversail Body Height	2.200m
Min Trailer Ground Clearance	2.200m
Max Trailer Width	12.200m
Lock-to-lock Angle	12.00°
Max Wheel Angle	40.00°

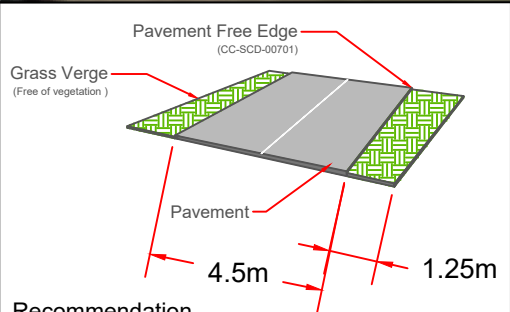


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		Checked:	J. O' Flaherty		
Project:	Scartmountain Wind Farm Turbine Delivery Route	Date:	July 2022		
		Project Director:	J. Staunton		
		Drawing Status:	Planning		
Title:	L5055 Sweth Path Analysis Sheet 23 of 24	Scale @ A1:	1:500		<div><div>TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose.</div><div>Drawing No.: 11303-2322</div></div>



Swept Path indicates boogie is utilising manual steering

Generic 81m Blade, with a 13m overhang



Recommendation

LEGEND:

- Truck and Boogie Tyre Path
- Oversail by Trailer Body
- Turbine Delivery Route

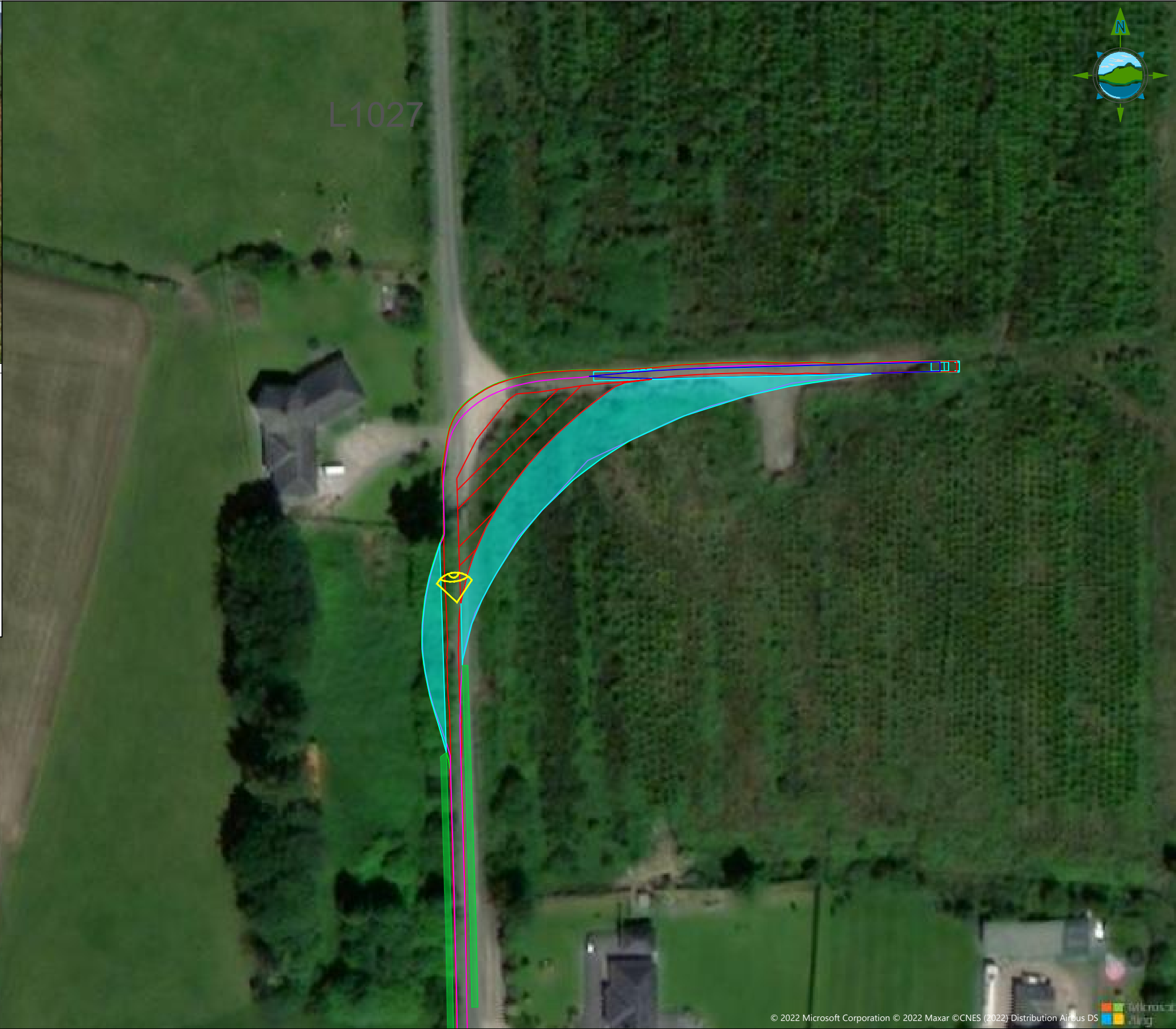
NOTES:

- Turbine blade length 81m, 13m overhang was assessed
- Turbine blade length & components subject to change
- Turbine blade & components manufacturer specifications unknown

Clear of Vegetation

Rev **Date** **Description** **By** **Chkd.**

A	04.07.2022	Planning	K.D	J.O'.F
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Client:

COILLTE
GROW TRANSFORM SUSTAIN

Project:

Scartmountain Wind Farm
Turbine Delivery Route

Title:

L5055
Swept Path Analysis
Sheet 24 of 24

Prepared by: K.Duffy

Checked: J. O' Flaherty

Date: July 2022

Project Director: J. Staunton

Drawing Status: Planning

Scale @ A1: 1:500

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