GARRANE GREEN ENERGY LTD.

GARRANE GREEN ENERGY PROJECT

APPENDIX 17.3

TURBINE DELIVERY HAUL ROUTE ASSESSMENT – PORT OF FOYNES

AUGUST 2025

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DOCUMENT APPROVAL

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	Prepared by	**Reviewed/Approved by**
Document Final	Name John Doogan	Name David Kiely
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GARRANE GREEN ENERGY PROJECT

TURBINE DELIVERY HAUL ROUTE ASSESSMENT – PORT OF FOYNES

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1. INTRODUCTION

1.1 Brief

Jennings O'Donovan & Partners Limited has been appointed by Greensource, to prepare a Preliminary haul route assessment of the Turbine Delivery Route (TDR) for the proposed Garrane Wind Farm. The haul route assessment will assess the road network between the Port of Foynes and the proposed wind farm site entrance to the north of Charleville on the N20 for the transportation of turbine components using abnormal load vehicles.

1.2 Objectives

The TDR will identify locations on the haul route which will require modifications for the transportation of turbine components using abnormal load vehicles.

1.3 Statement of Authority

This report has been prepared by John Doogan of Jennings O'Donovan & Partners Limited, Finisklin Sligo. Established in Sligo in 1950 Jennings O'Donovan & Partners Limited is a Clean Tech Company providing consulting engineering services in the areas of road design, renewable energy, civil and structural engineering, water supply, wastewater collection and treatment, environmental resource management and impact assessment and in the area of industrial and commercial development.

1.4 Design References / Standards

The TDR assessment has been carried out using AutoTRACK Analysis, Bing mapping in AutoCAD, Google Maps and topographical survey information (N20 site entrance). The analysis has been carried out using a blade delivery trailer loaded with a 73.940m long blade and a 33m long tower. The assessment is based on a turbine model with a 150m rotor diameter.

2. PROPOSED DEVELOPMENT

2.1 Site Location

The location of the proposed haul route from Foynes Port to the wind farm development is shown in **Figure 1.**

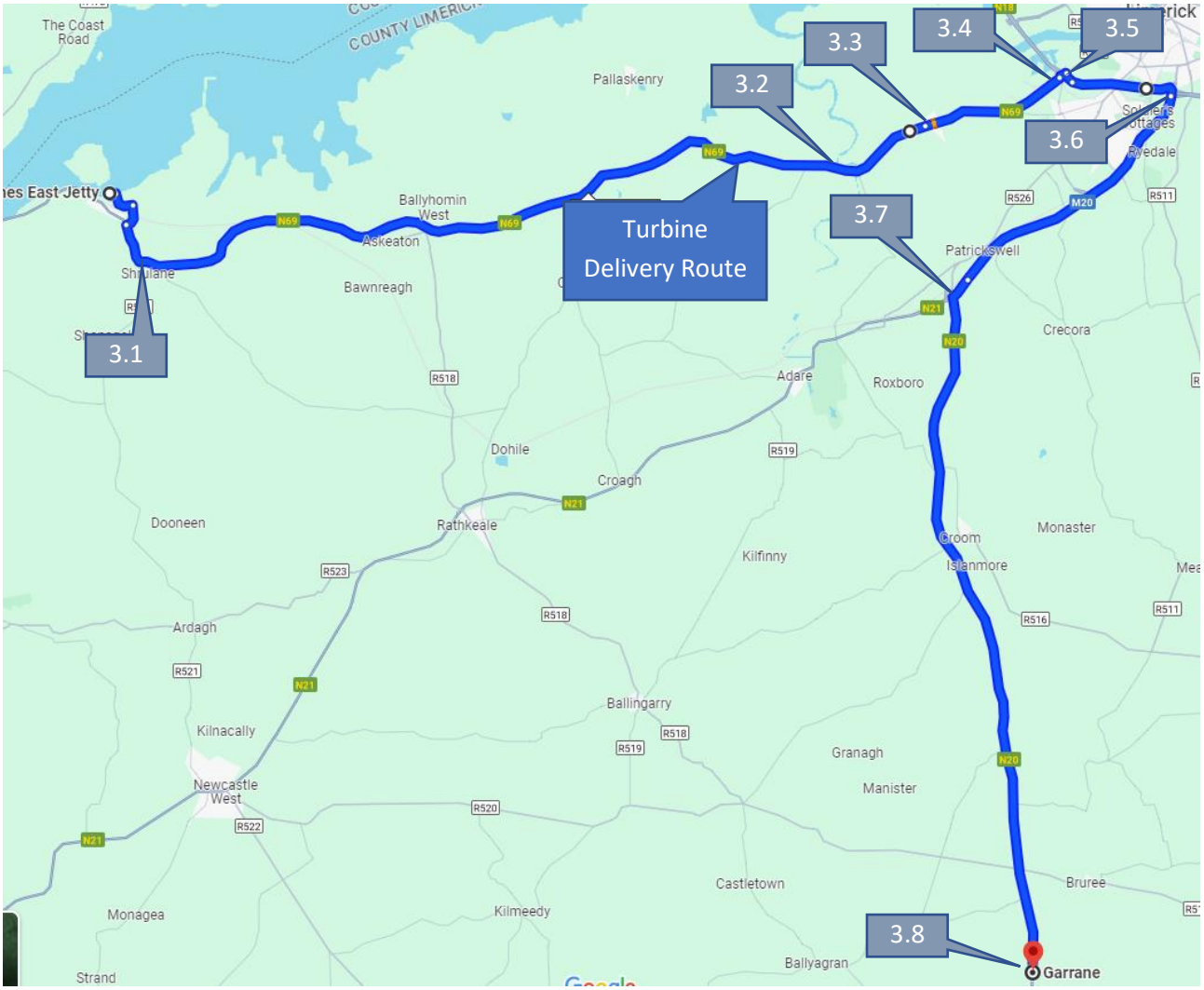


Figure 1 – Turbine Delivery Route

3. HAUL ROUTE ASSESSMENT

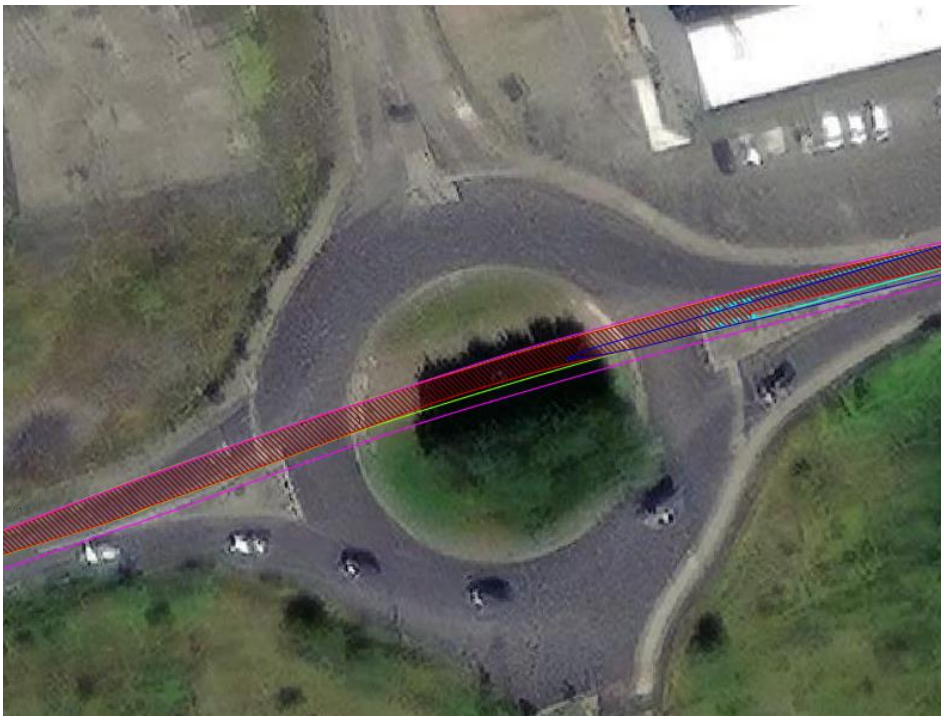
3.1 N69 / L6188 Junction at Foynes Port

Existing boundary to be set back / Lowered to allow load oversail.
Verge strengthening to withstand wheel loading on inside of bend.
Tree trimming for blade oversail
Temporary removal / relocation of signs, street furniture and lighting columns at junction

3.2 N69 Ferrybridge

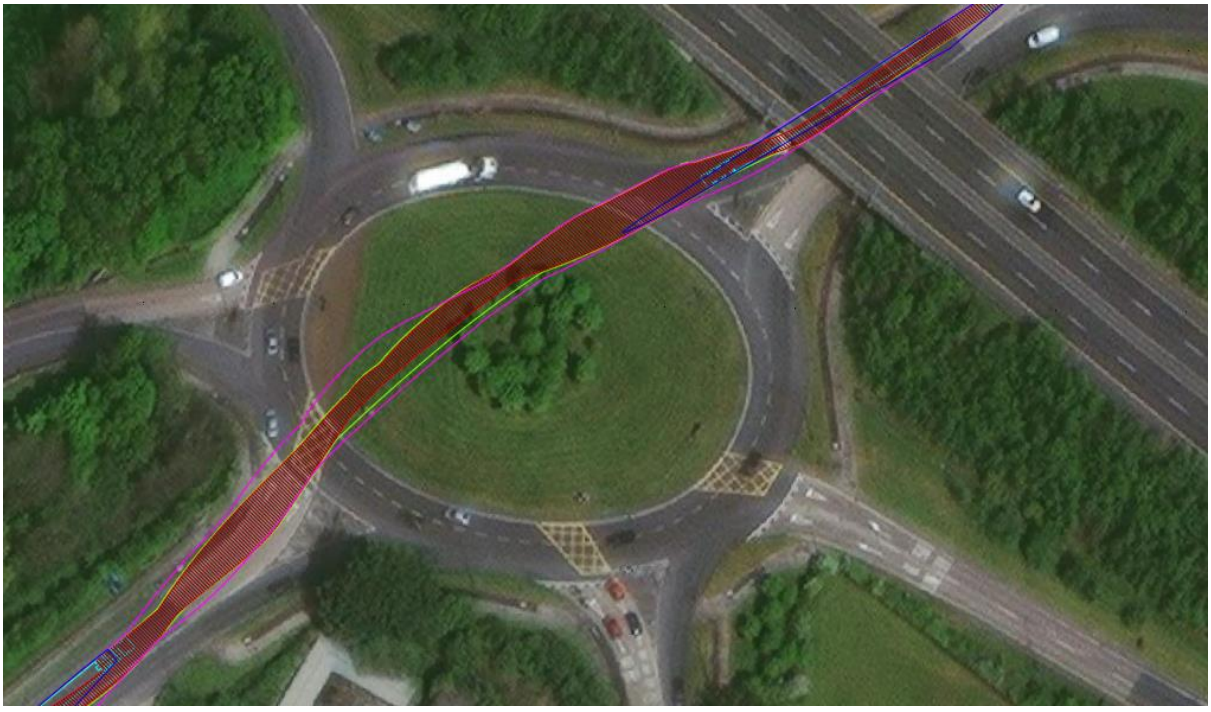
Vertical alignment of bridge to be checked during trial run.

3.3 N69 Roundabout at Clarina (Reverse View)



Over-run to be instated through roundabout central island to withstand wheel loading from abnormal load vehicles. This has been utilised by other renewable energy projects and is already constructed.

3.4 N69 / N18 /R510 Dock Road West Roundabout



Over-run to be constructed through roundabout central island to withstand wheel loading from abnormal load vehicles.
Tree trimming for blade oversail
Temporary removal / relocation of signs, street furniture and lighting columns at junction

3.5 N69 / N18 /R510 Dock Road East Roundabout

Temporary removal / relocation of signs, street furniture and lighting columns at junction.
Modifications to roundabout central island for blade oversail
Tree trimming for blade oversail

3.6 N18 Junction 1 – M20 Slip Road

Temporary removal / relocation of signs, street furniture and lighting columns for blade oversail.
Tree trimming for blade oversail.

3.7 M20 Junction 5 – N20 Exit

Temporary removal / relocation of signs and street furniture for blade oversail.
Tree trimming for blade oversail.

3.8 N20 Site Entrance

New site entrance constructed to accommodate the swept path of abnormal vehicles.
Removal of vegetation from N20 verges.
Tree trimming for blade oversail.