



**Galloper Wind Farm Project**  
Response to Development Consent Order  
Part 3 Requirement 22  
Provision of Landscaping  
June 2013  
Document Reference – GWF R22 04 06 13

Galloper Wind Farm Limited



Document title Galloper Wind Farm Project  
 Response to Development Consent Order  
 Part 3 Requirement 22  
 Provision of Landscaping  
 Status Submitted to SCDC  
 Document Reference GWF R22 040613  
 Date June 2013  
 Project name Galloper Wind Farm Project

Drafted by	Plans prepared by P Bradshaw LDA Design	
Checked by		
Date/initials check		
GWFL Approved by	Hugh Morris	
Date/initials approval	<i>Hugh Morris</i>	04/06/13

## CONTENTS

	Page
1 INTRODUCTION	1
1.1 General	1
2 DCO PART 3 REQUIREMENT	2
2.1 Requirement 21 – Provision of Landscaping	2
2.2 Requirement 22 – Implementation of Landscaping	2
3 LANDSCAPING PROPOSALS	4
3.1 General	4

Drawings	Number
Landscape and Services General Arrangements	3505_100_B
Detail landscape planting proposals 1	3505_201_B
Detail landscape planting proposals 2	3505_202_B
Detail landscape planting proposals 3	3505_203_B
Detail landscape planting proposals 4	3505_204_B
Sections and planting details	3505_300_A

Appendix 1 Typical specifications - Galloper Wind farm Soft Works Specifications

## **1 INTRODUCTION**

### **1.1 General**

- 1.1.1 This document relates to the proposed Galloper Wind Farm (GWF) project, to be constructed off the coast of Suffolk, and associated infrastructure to connect to the national electricity transmission system at Sizewell, Suffolk. It forms part of a series of submissions to Suffolk Coastal District Council in response to requirements set out in Part 3 of the Galloper Wind Farm Order 2013.
- 1.1.2 The Galloper Wind Farm Order 2013 was made by on the 24<sup>th</sup> of May 2013, having received a direction from the Secretary of State for Energy, following an examination by the National Infrastructure Directorate of the Planning Inspectorate.
- 1.1.3 Section 2 of this document sets out the relevant Requirement being addressed, whilst Section 3 sets out GWFL's interpretation of this Requirement and provides the relevant information.
- 1.1.4 At this time, GWFL in particular needs to discharge the Requirements associated with the commencement of the Enabling Works to the north of Sizewell Gap, to allow the provision of a site ready for mobilisation of National Grid Electricity Transmission (NGET) works in January 2014. The details that are included in this submission include all of the 'soft' landscaping proposals.
- 1.1.5 Further details of 'hard' landscaping within the substation compounds will be submitted in advance of both the NGET construction and Galloper on-shore electrical construction stages, following the detailed design of these stages.

## 2 DCO PART 3 REQUIREMENT

### 2.1 Requirement 21 – Provision of Landscaping

2.1.1 The Draft DCO states:

#### **Provision of landscaping**

Neither the connection works nor the transmission works shall commence until a written landscaping scheme and associated work programme (which accords with the landscape strategy comprising Appendix 4 of application document 5.4.5, unless otherwise agreed by the relevant planning authority) in relation to the relevant works has been submitted to and approved by the relevant planning authority, in consultation with Suffolk County Council and Natural England (and in the case of sub-paragraph (k) below with the owner of the water main). Each landscaping scheme must include details of all proposed hard and soft landscaping works, including:

- (a) location, number, species, size and planting density of any proposed planting, including any trees;
- (b) cultivation, importing of materials and other operations to ensure plant establishment;
- (c) proposed finished ground levels;
- (d) hard surfacing materials;
- (e) vehicular and pedestrian access, parking and circulation areas;
- (f) minor structures, such as furniture, refuse or other storage units, signs and lighting;
- (g) proposed and existing functional services above and below, ground, including drainage, power and communications cables and pipelines, manholes and supports;
- (h) details of existing trees to be retained, with measures for their protection during the construction period;
- (i) retained historic landscape features and proposals for restoration, where relevant;
- (j) implementation timetables for all landscaping works; and
- (k) proposals to prevent adverse impact from root spread on the water main to the east of Sandy Lane beneath Pillbox Field.

2.1.2 Galloper Offshore Wind Farm Ltd's proposals regarding the 'soft' elements of the scheme are described in Section 3 and are shown on the attached plans. The scheme is based upon the Landscape Strategy previously agreed with Suffolk County Council and Natural England.

### 2.2 Requirement 22 – Implementation of Landscaping

2.2.1 The Draft DCO states:

#### **Implementation and maintenance of landscaping**

**22.—(1)** All landscaping works must be carried out in accordance with a landscaping scheme approved under requirement 21, unless otherwise agreed by the relevant planning authority, and to a good standard in accordance with the relevant

recommendations of appropriate British Standards or other recognised codes of good practice.

(2) Any tree or shrub planted as part of an approved landscaping scheme that, within a period of five years after planting, is removed, dies or becomes, in the opinion of the relevant planning authority, seriously damaged or diseased, must be replaced in the first available planting season with a specimen of the same species and size as that originally planted, unless otherwise agreed by the relevant planning authority.

### 3 LANDSCAPING PROPOSALS

#### 3.1 General

3.1.1 The details below are designed to supplement the information shown on the attached plans.

3.1.2 (a) Location, number species, size and planting density of any proposed planting density including any trees.

The details of the proposed plantings are shown on the attached plans. In total the scheme involves the planting of the following numbers –

Trees	10,376
Shrubs	5,180
Conifers	3,276

The total area / length covered by the different types of planting are –

Woodland core	17,073m <sup>3</sup>
Woodland edge	9,419m <sup>3</sup>
Grassland margin	3,745m <sup>3</sup> *
Hedge	189m

\*Further information regarding the creation of acid grassland is contained in the Ecological Management Plan, to be submitted for approval under Requirement 27. The preferred method of establishment is natural regeneration, except where exposed slopes present an erosion risk.

3.1.3 (b) Cultivation, importing of materials and other operations to ensure plant establishment

The typical specification for the work is attached in Appendix 1. The specification is 'typical' as the work has not yet been procured and the work will be carried out to this, or a similar standard.

The plans include fencing for both deer and rabbits. Suitable measures will be employed to insure that rabbits are excluded from the landform area and other plantings. The landform will be bare ground, enclosed within reptile exclusion fencing and it should be evident whether any rabbits are within the area to be fenced. If rabbit burrows are detected within the area, measures will be taken to exclude rabbits in advance of the fencing.

3.1.4 (c) Proposed finished ground levels

Finished ground level contours for the landform area are shown on the attached plans and have not changed from the details submitted during the examination. Original ground levels will be reinstated on the cable routes. The levels of the sealing end compounds are dealt with under Requirement 20, which also includes the method of grading in the platforms with the surrounding ground level.

3.1.5 *(d) Hard surfacing materials – Not included, these will be submitted in advance of the National Grid and Galloper Electrical construction works, following the detailed design of these stages.*

3.1.6 *(e) Vehicular and pedestrian access, parking and circulation areas - Not included, these will be submitted in advance of the National Grid and Galloper Electrical construction works, following the detailed design of these stages.*

3.1.7 *(f) Minor structures, such as furniture, refuse or other storage units, signs and lighting - Not included, these will be submitted in advance of the National Grid and Galloper Electrical construction works, following the detailed design of these stages.*

3.1.8 Proposed and existing functional services above and below ground, including drainage, power and communications cables and pipelines, manholes and supports.

The existing overhead high voltage transmission lines, existing buried services and the proposed cable corridors are all shown on Drawing 3505\_100B.

3.1.9 Details of existing trees to be retained with measures for their protection during the construction period.

The extent of existing trees to be retained are shown on the attached drawing Landscape General Arrangements 3505 100B. The fencing plan for the site, submitted in response to Requirement 24, showing the stock-proof and reptile fences, reflects the canopy of the trees to be protected and at most locations is considered to provide adequate protection.

There is one particular location where earthworks are will be carried out, during the Enabling Stage, in close proximity to retained trees and it is proposed to install additional protection. The location is the corner of the existing woodland to the north of the Transmission (NGET) substation compound. Other locations may require protection and this will be the duty of the Ecological Clerk of Works to identify these locations, following the erecting of the temporary fences and tree felling work.

The proposal for the protection of existing trees is summarised below -

Prior to the commencement of construction and immediately after the completion of the necessary tree surgery and felling work, protective tree fencing will be erected on site. This will be in accordance with protection measures given in Hayden's Arboricultural Consultants Tree Survey Report – 16/11/11.

This fencing will be constructed with weld mesh panels (Herras type Fencing) on a framework of scaffolding, or similarly sturdy material, driven into the ground to a suitable depth to ensure its stability and in line with BS 5837:2012, figure 2.

The location and extent of fencing will be directed by the Ecological Clerk of Works. The fencing will be retained during the period of risk to the retained trees. In the case of the section to the north of the NGET compound, this will be required during the Enabling Works. The final position of the tree protection will be determined following site fencing and tree felling. GWFL will arrange a site meeting to allow SCDC to agree the positioning of the tree protection measures on site.



3.1.10 Retained historic landscape features – n/a

3.1.11 Implementation timetable for the landscaping works

Landscape planting is due to take place in the first planting season following the completion of the construction works in specific areas and it is likely that work will be carried out at the following times –

1<sup>st</sup> winter during enabling works. Planting in Pillbox field on land east of the substations not affected by construction works.

2<sup>nd</sup> or 3<sup>rd</sup> winter. Main planting of the embankment re-profiled during the enabling works.

Any other areas will be reinstated and planted in the appropriate season following completion of works in that area.

3.1.12 Proposals to prevent adverse impacts from root spread on the water main to the East of Sandy Lane beneath Pillbox field.

Drawing 305\_204B (Sheet 5 of 5) shows the 6m offset from the position of the water main to the fence-line for the new planting. The first 4m of the planting comprises 'grassland margin' shrub species which are relatively shallow rooted, giving a separation of 10m between the water main and the woodland edge species.

Essex and Suffolk Water will be invited to send a representative to site to confirm the location of the main in advance of the erecting of this section of fence. Contact will be made in advance of the works with the Lound Office in Suffolk and the Distribution Operations Department (Tel: 08457 820999).