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Drawing Legend

-  Landowner Blue Line Boundary
-  Site Notice
-  Wayleave



PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

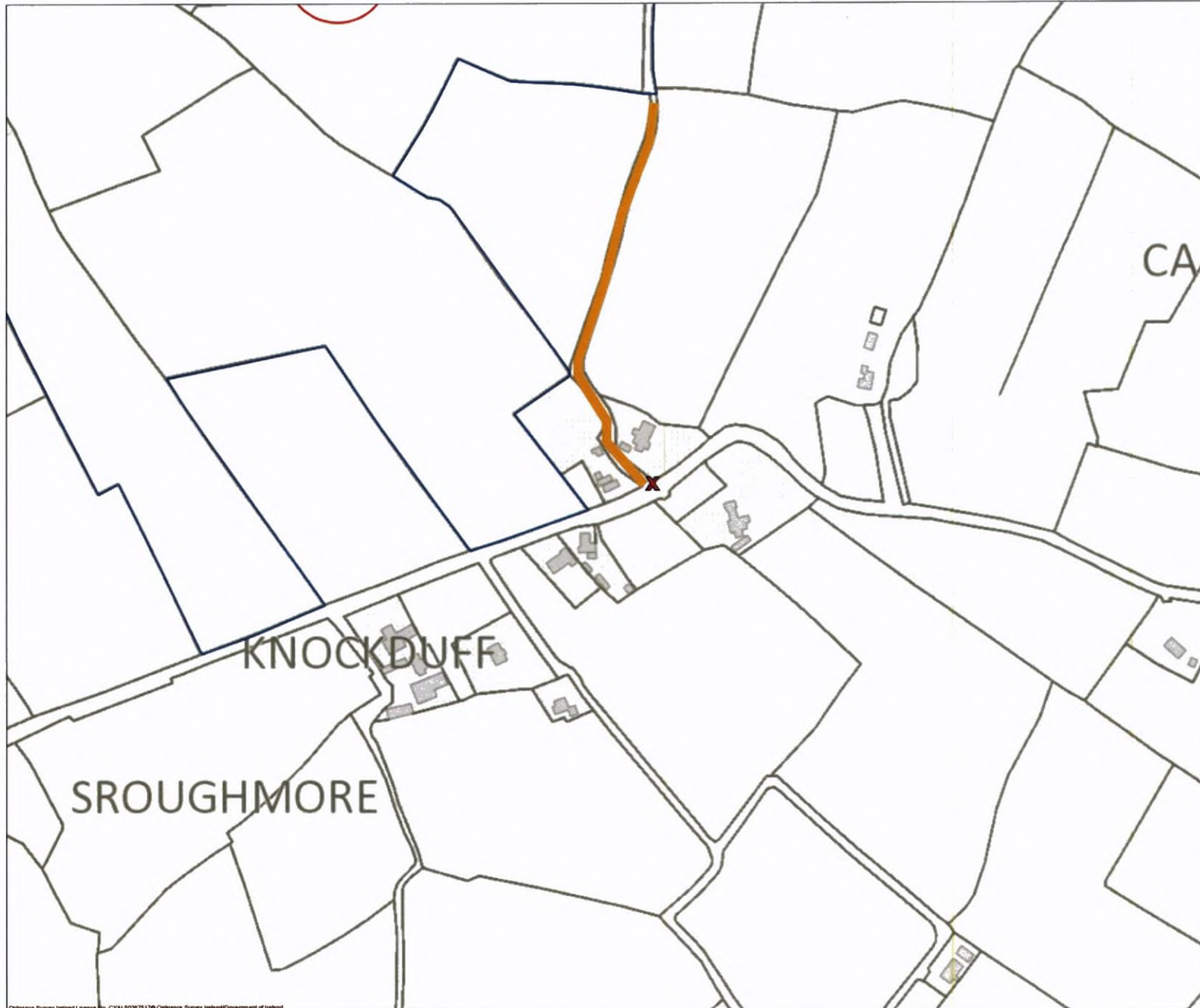
DRAWING TITLE
Site Location Map
Sheet A

PROJECT No: 210847	DRAWING No: 210847-02A	SCALE: 1:2,500 @ A3
DRAWN BY: ND	CHECKED BY: JW	DATE: 17.10.2024
		REVISION: P01

OS SHEET No:
4000, 4900, 4901, 4902



Email: info@www.mkoireland.ie Website: www.mkoireland.ie



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Drawing Legend

- Planning Application Boundary
- Landowner Blue Line Boundary
- X Site Notice
- Wayleave



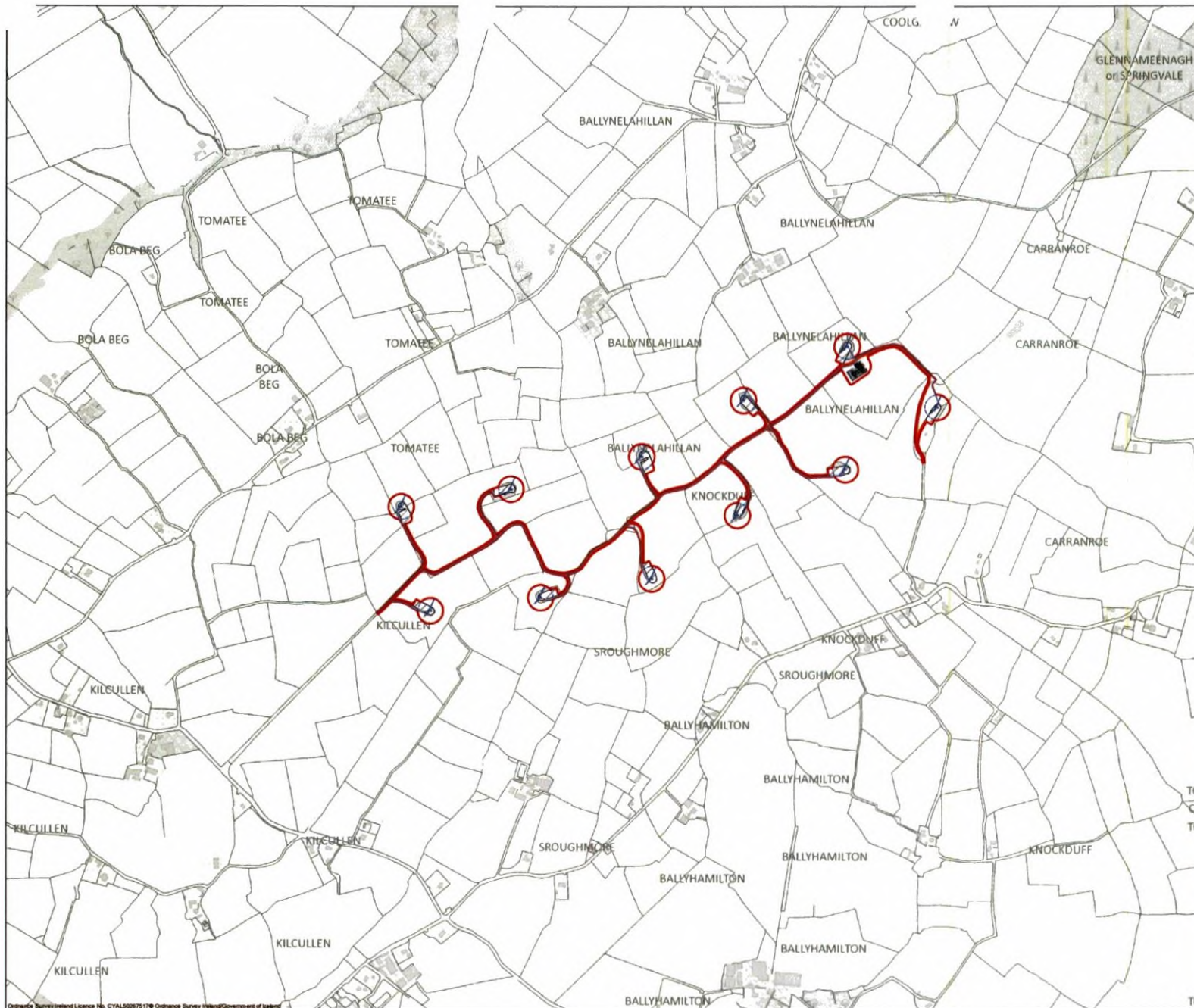
PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

DRAWING TITLE
Site Location Map
Sheet B

PROJECT No. 210847		DRAWING No. 210847-02B		SCALE 1:2,000 @ A3
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024	REVISION P01	
OS SHEET No.				



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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- As Built Substation Compound Consented Under WCC PI Ref. 2004/4702 & ASP Ref. PL26.211729 and Amended by WCC PL REF. 2005/3846
- Internal Underground Electrical Cabling
- As Built Handstanding Area
- ⊙ Turbine Sweep Area



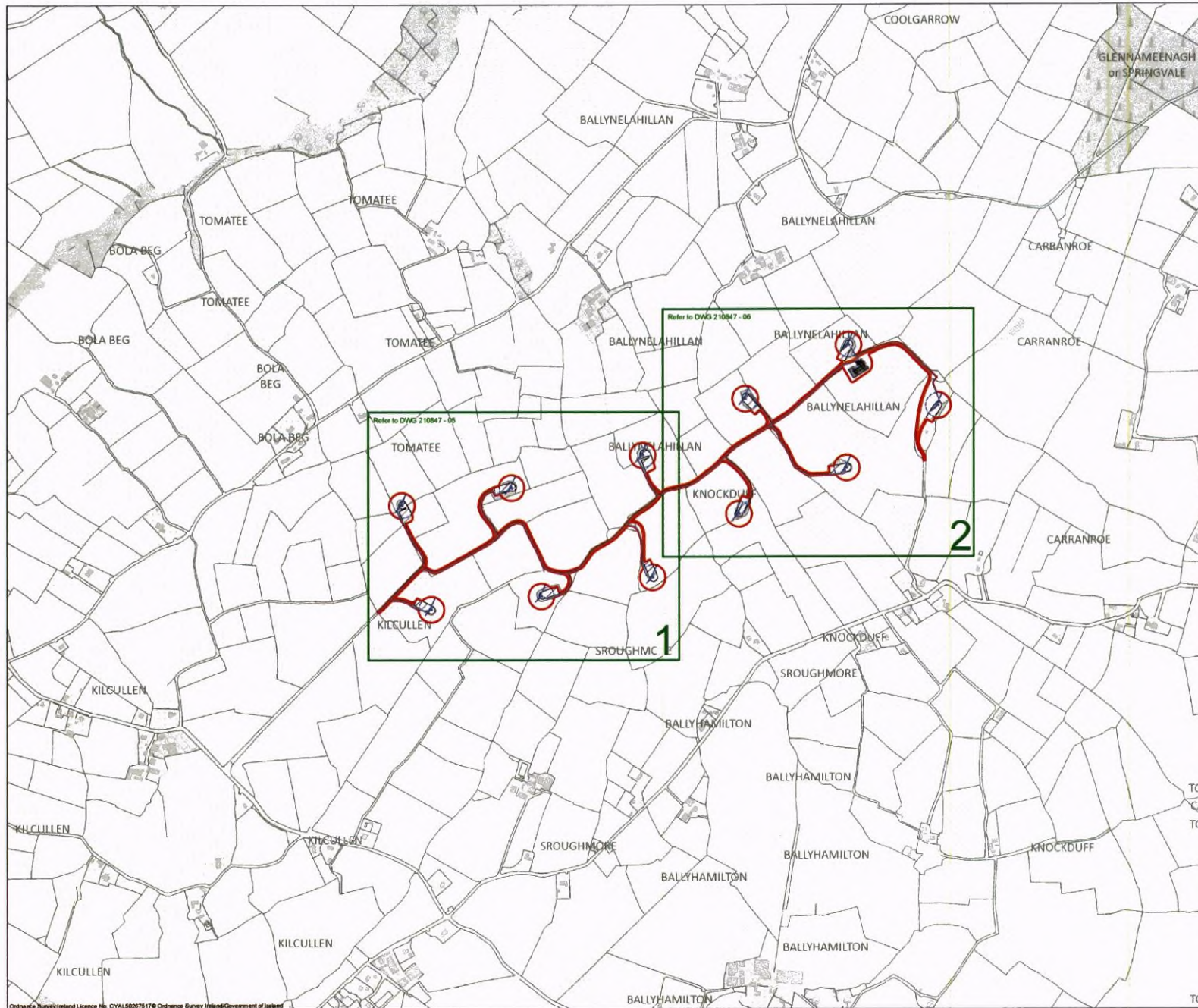
PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

DRAWING TITLE
Site Layout Plan

PROJECT No. 210647	DRAWING No. 210647 - 03	SCALE 1:10,000 @ A3
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024
OR SHEET No. 4000,4000,4001,4002	REVISION P01	



Email: info@www.mikeo.ie / Website: www.mikeo.ie



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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- As Built Substation Compound Consented Under WCC PI Ref. 2004/4702 & ABP Ref. PL26.211725 and Amended by WCC PL REF. 2005/3945
- Internal Underground Electrical Cabling
- As Built Hardstanding Area
- Turbine Sweep Area

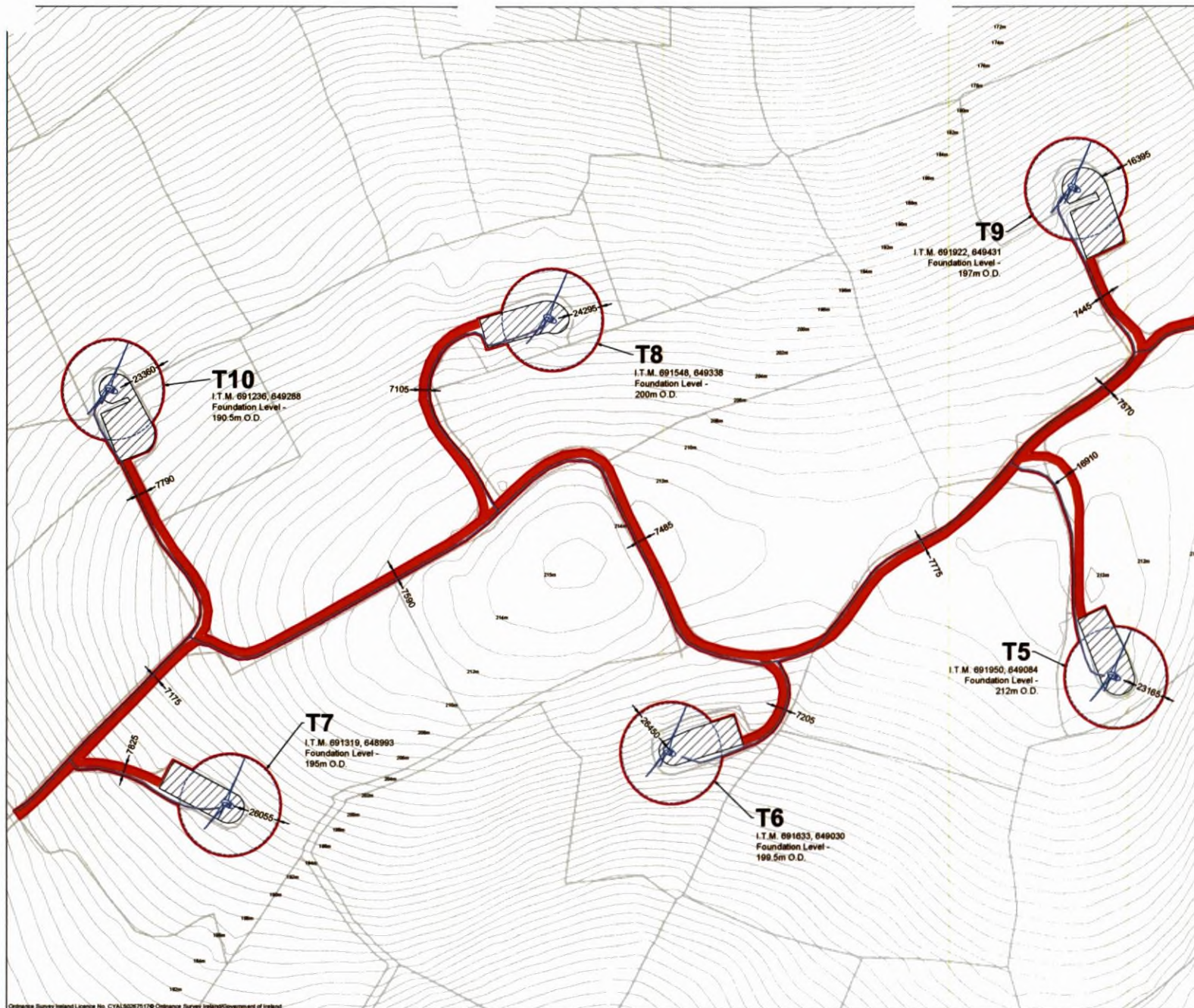
PROJECT TITLE
**Castledockrell Wind Farm
Extended Operational Period**

DRAWING TITLE
**Site Layout
Key Plan**

PROJECT No: 210847	DRAWING No: 210847 - 04	SCALE: 1:10,000 @ A3
DRAWN BY: KD	CHECKED BY: JW	DATE: 17.10.2024
OS SHEET No: 4899,4900,4901,4902	REVISION: P01	



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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- Internal Underground Electrical Cabling
- As Built Handstanding Area
- Turbine Sweep Area



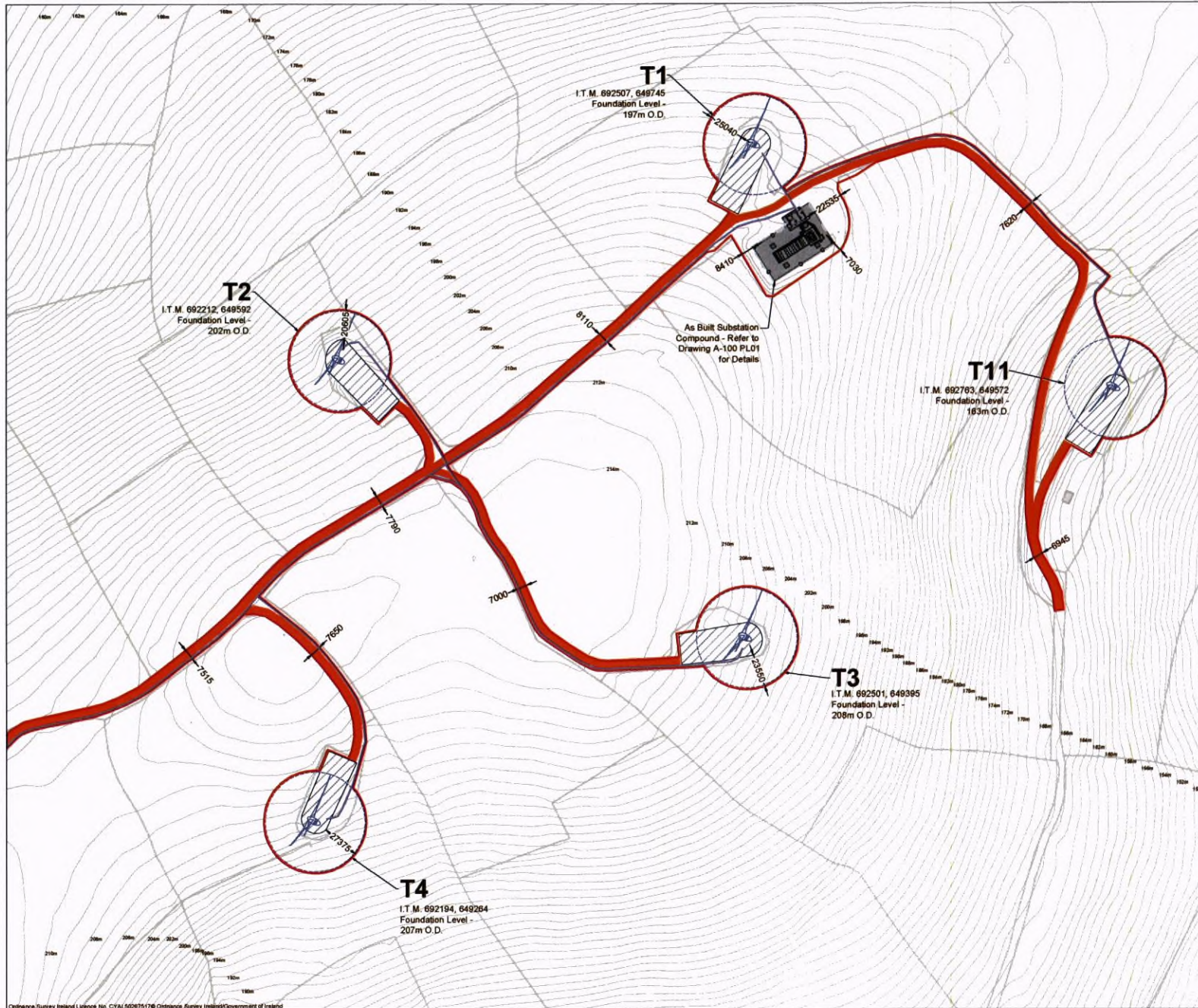
PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

DRAWING TITLE
Site Layout
Sheet 1 of 2

PROJECT No. 210647	DRAWING No. 210647 - 05	SCALE 1:2,500 @ A3
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024
OS SHEET No. 4899, 4900, 4901, 4902	REVISION P01	



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Project Design Drawing Notes

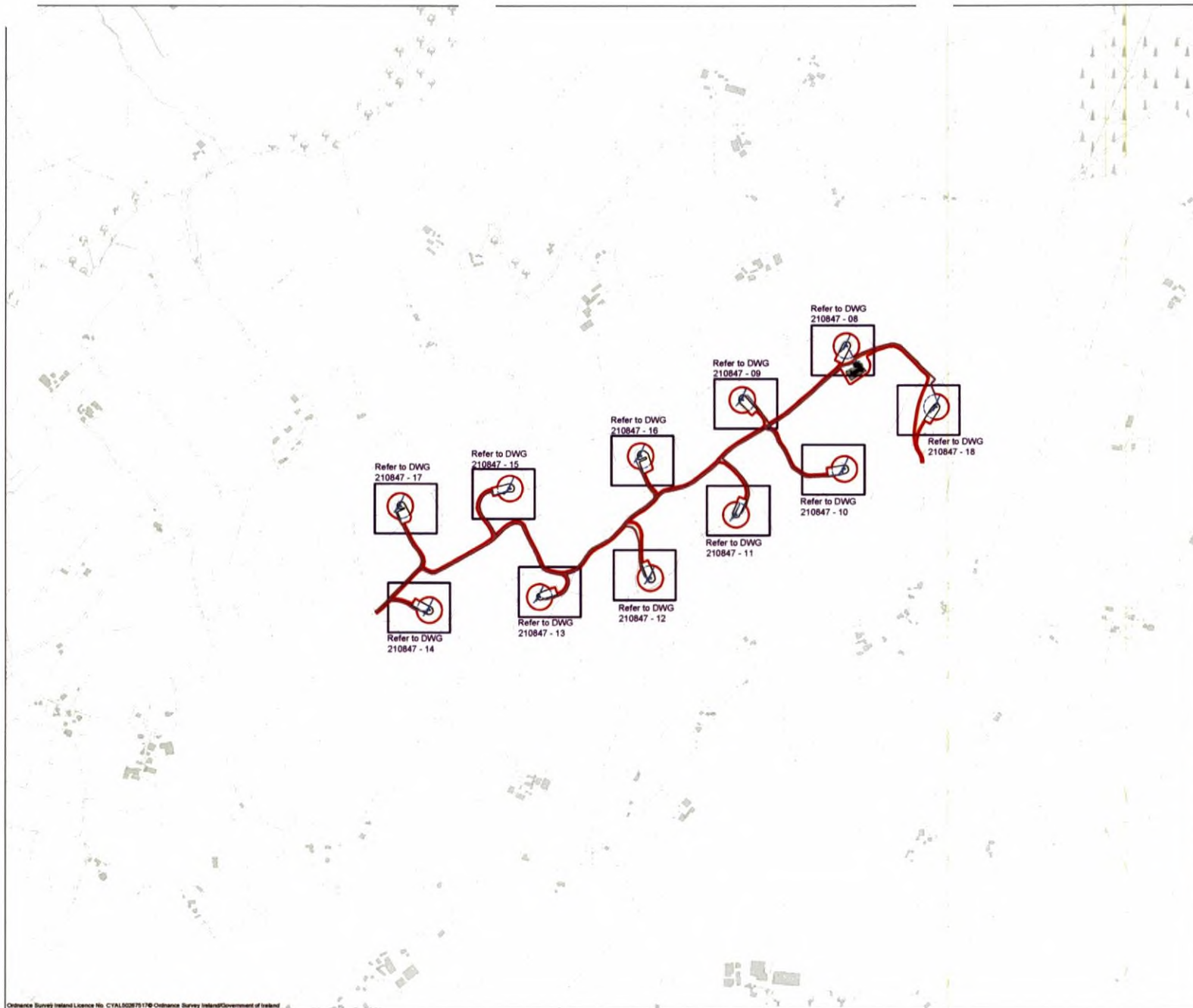
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- Drawing Legend**
- Planning Application Boundary
 - As Built Site Road
 - As Built Substation Compound Consented Under WCC PI Ref. 2004/4702 & ABP Ref. PL28.211728 and Amended by WCC PL REF. 2005/2645
 - Internal Underground Electrical Cabling
 - As Built Handstanding Area
 - Turbine Sweep Area

PROJECT TITLE		
Castledockrell Wind Farm Extended Operational Period		
DRAWING TITLE		
Site Layout Sheet 2 of 2		
PROJECT No:	DRAWING No:	SCALE
210647	210647 - 06	1:2,500 @ A3
DRAWN BY:	CHECKED BY:	DATE
KD	JW	17.10.2024
REV	DATE	REVISION
		P01
OS SHEET No:		
4800, 4900, 4961, 4962		









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Drawing Legend

-  Planning Application Boundary
-  As Built Site Road
-  As Built Substation Compound Consented Under WCC PI Ref. 20044702 & ABP Ref. PL26.211725 and Amended by WCC PL REF. 20052945
-  Internal Underground Electrical Cabling
-  As Built Handstanding Area
-  Turbine Sweep Area



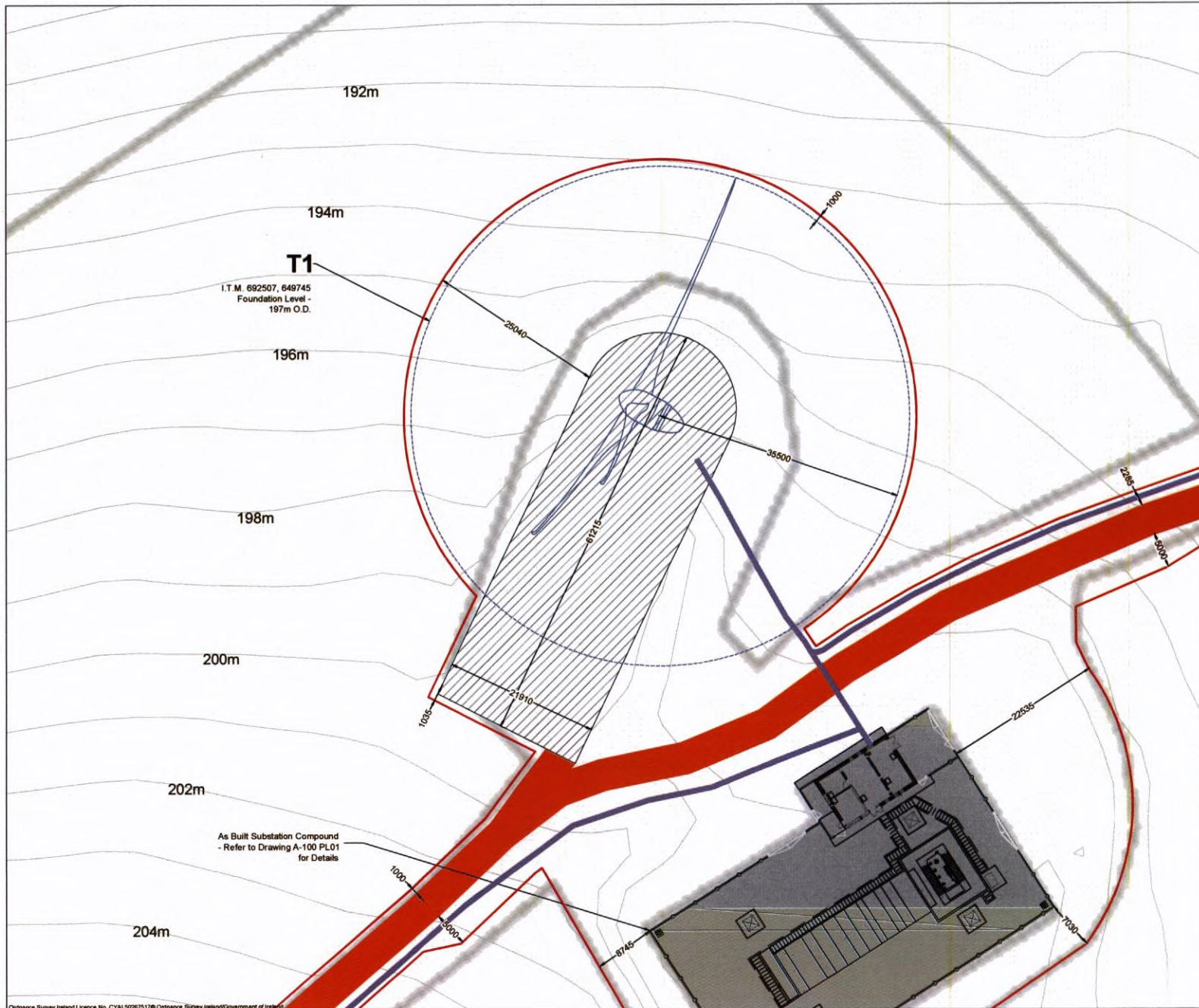
PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

DRAWING TITLE
Turbine Layout
Key Plan

PROJECT No. 210847	DRAWING No. 210847 - 07	SCALE 1:10,000 @ A3
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024
OS SHEET No. 4090, 4000, 4061, 4062		REVISION P01



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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- As Built Substation Compound Consented Under WCC PI Ref. 2004/4702 & ABP Ref. PL28.211725 and Amended by WCC PL REF. 2006/3945
- Internal Underground Electrical Cabling
- As Built Hardstanding Area
- Turbine Sweep Area



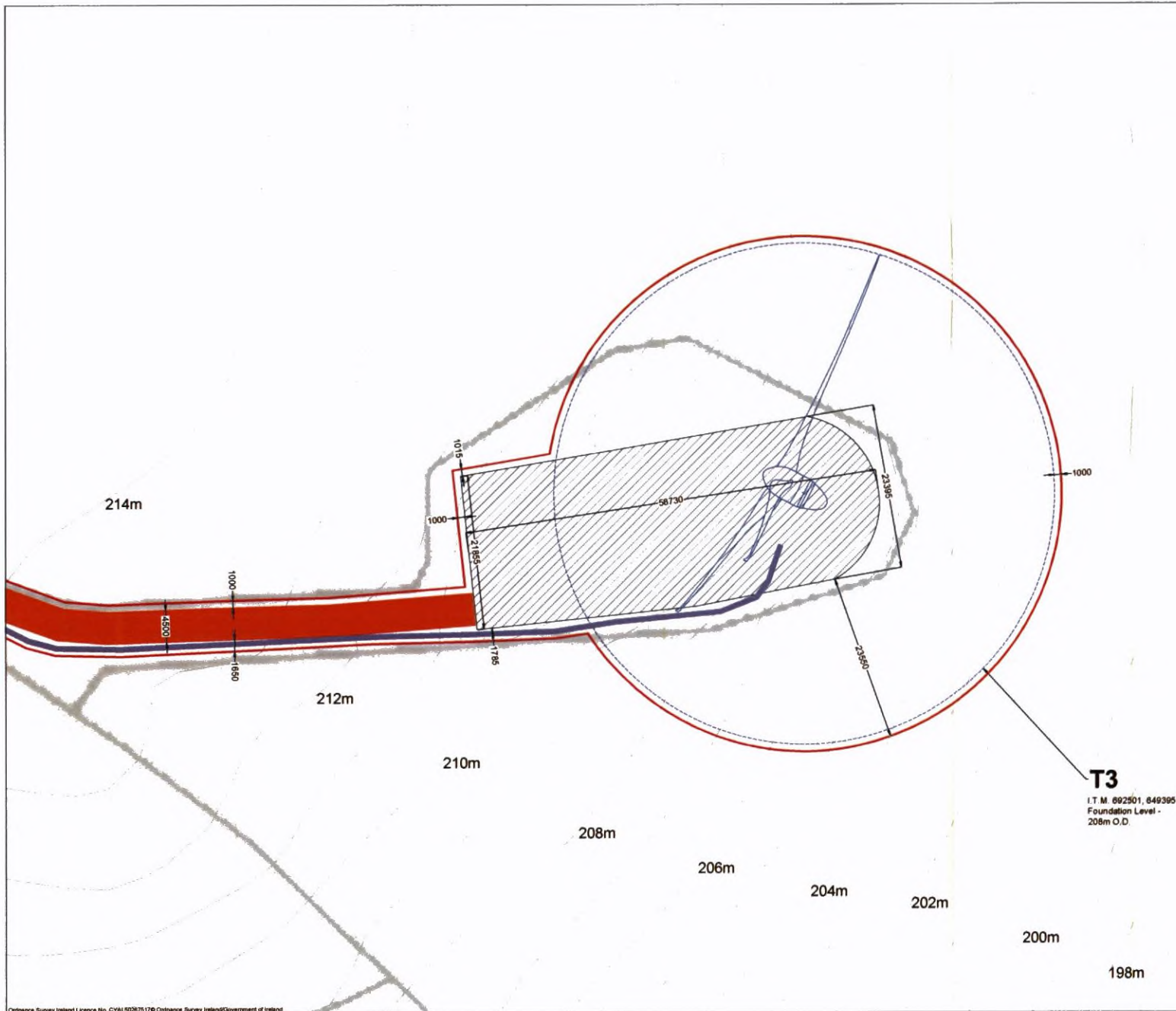
PROJECT TITLE
 Castledockrell Wind Farm
 Extended Operational Period

DRAWING TITLE
 Turbine Layouts
 Sheet 1 of 11

PROJECT NO: 210647	DRAWING NO: 210647 - 08	SCALE: 1:500 @ A3
DRAWN BY: KD	CHECKED BY: JW	DATE: 17.10.2024
OS SHEET NO: 4899, 4900, 4961, 4962	REVISION: P01	



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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- Internal Underground Electrical Cabling
- As Built Handstanding Area
- Turbine Sweep Area



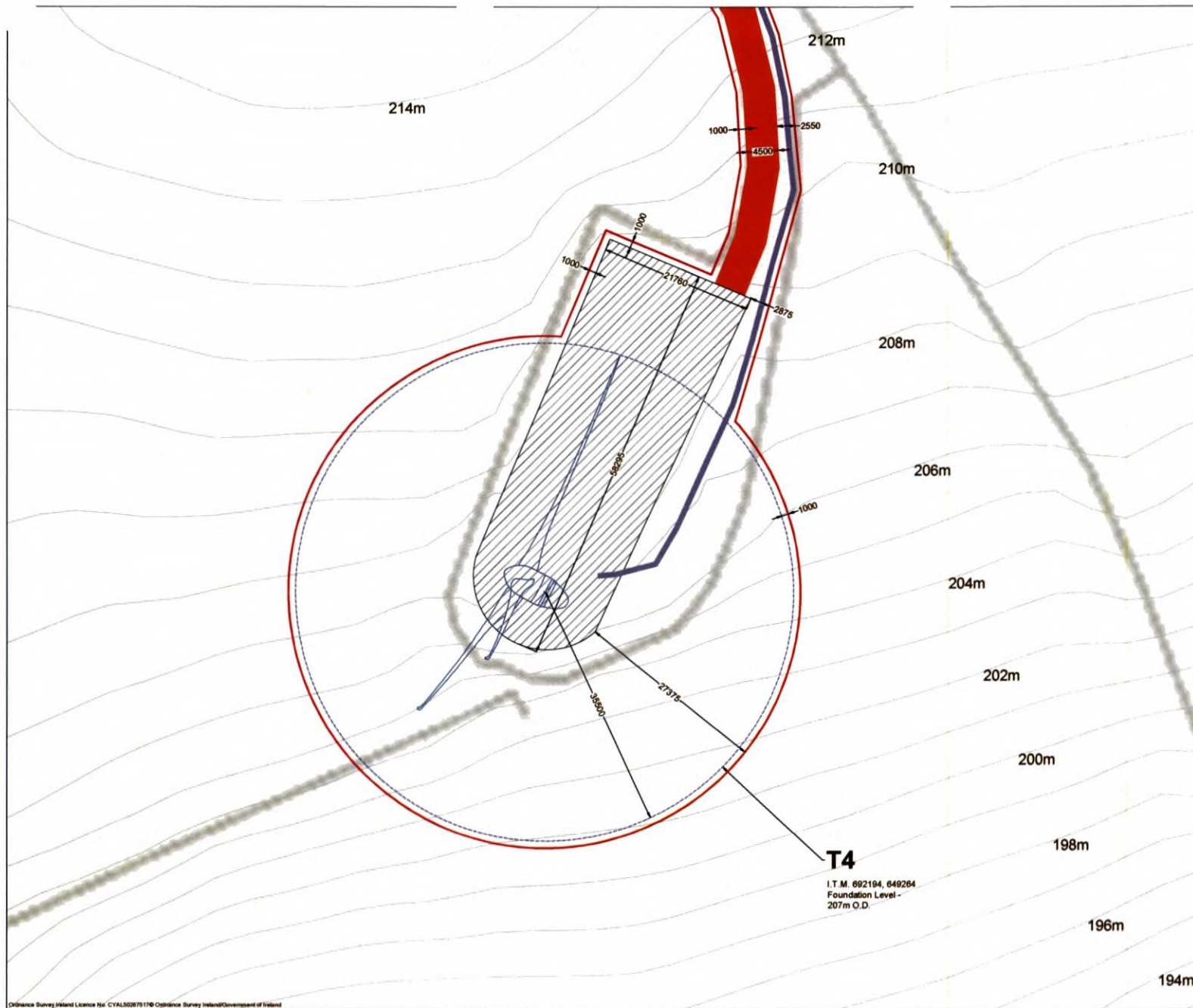
PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

DRAWING TITLE
Turbine Layouts
Sheet 3 of 11

PROJECT No. 210847	DRAWING No. 210847 - 10	SCALE 1:500 @ A3
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024
OS SHEET No. 4899, 4900, 4901, 4902		REVISION P01



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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- Internal Underground Electrical Cabling
- As Built Hardstanding Area
- Turbine Sweep Area

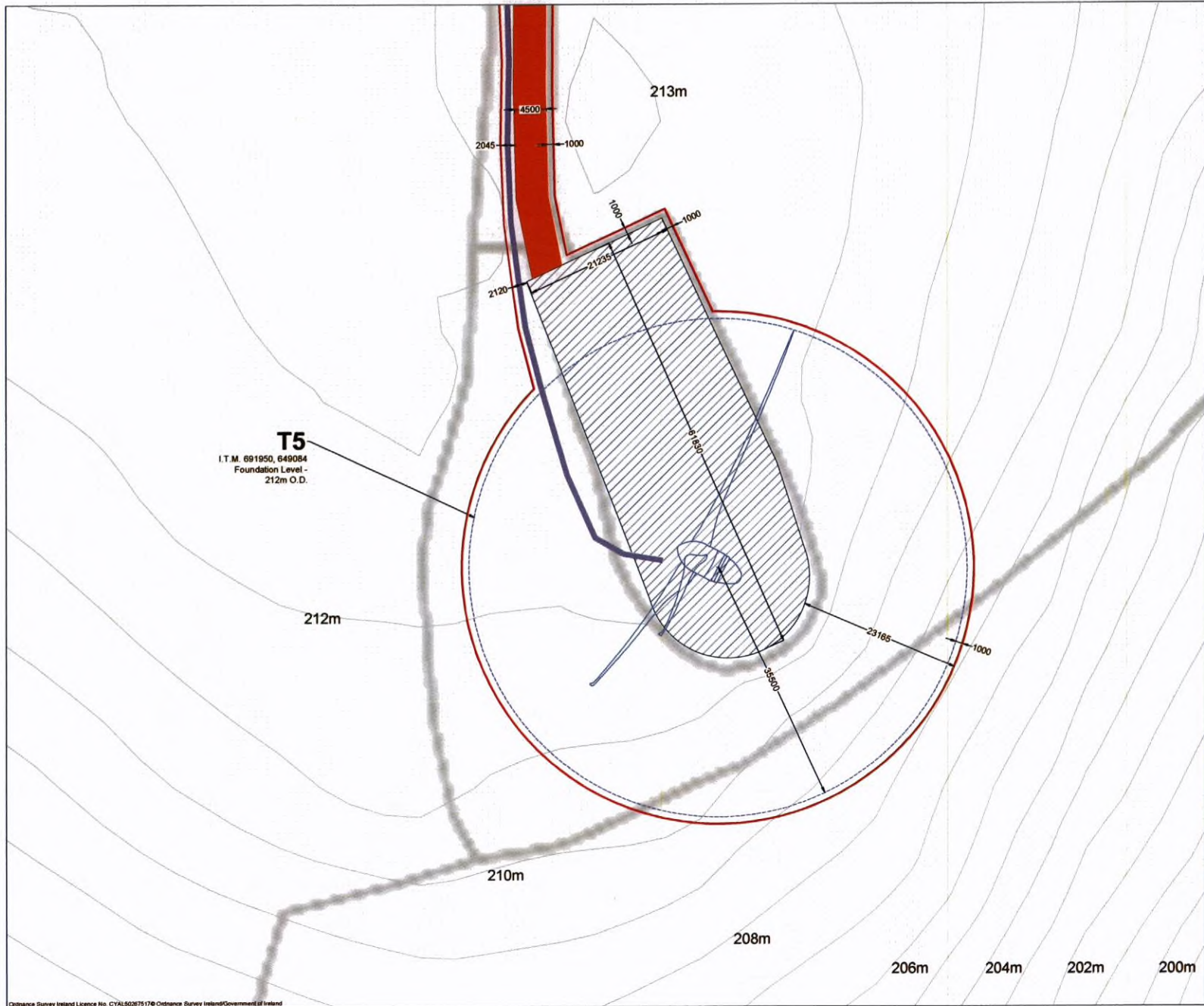
PROJECT TITLE
**Castledockrell Wind Farm
 Extended Operational Period**

DRAWING TITLE
**Turbine Layouts
 Sheet 4 of 11**

PROJECT No: 210647	DRAWING No: 210647 - 11	SCALE: 1:500 @ A3
DRAWN BY: KD	CHECKED BY: JW	DATE: 17.10.2024
OS SHEET No:	4800, 4900, 4901, 4902	REVISION: P01

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- Drawing Legend**
- Planning Application Boundary
 - As Built Site Road
 - Internal Underground Electrical Cabling
 - ▨ As Built Hardstanding Area
 - ⊗ Turbine Sweep Area



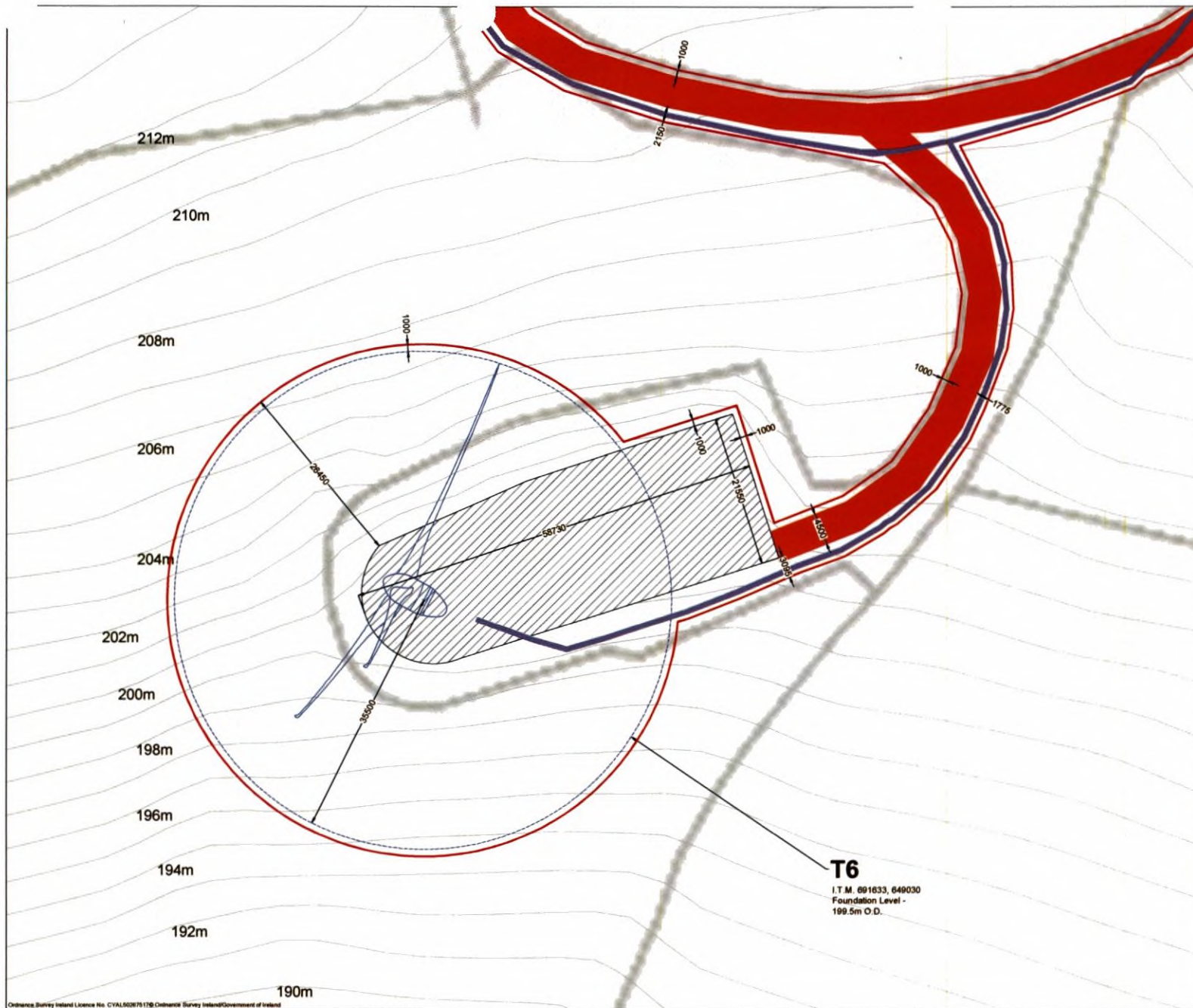
PROJECT TITLE
**Castledockrell Wind Farm
 Extended Operational Period**

DRAWING TITLE
**Turbine Layouts
 Sheet 5 of 11**

PROJECT No: 210847		DRAWING No: 210847 - 12	SCALE: 1:500 @ A3
DRAWN BY: KD	CHECKED BY: JW	DATE: 17.10.2024	REVISION: P01

OS SHEET No:
4899, 4900, 4901, 4902

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- Drawing Legend**
- Planning Application Boundary
 - As Built Site Road
 - Internal Underground Electrical Cabling
 - ▨ As Built Hardstanding Area
 - ⊙ Turbine Sweep Area



PROJECT TITLE
**Castledockrell Wind Farm
 Extended Operational Period**

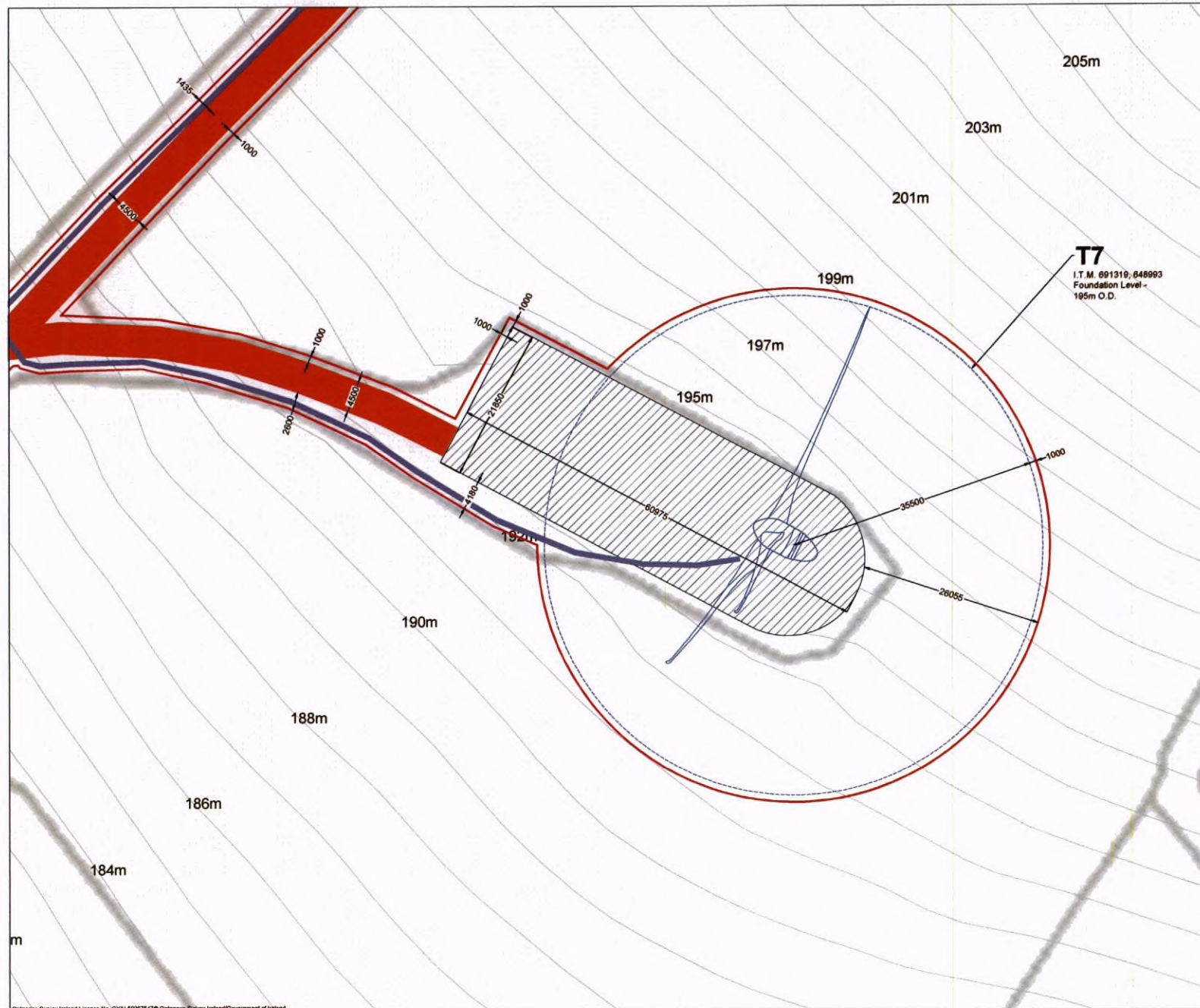
DRAWING TITLE
**Turbine Layouts
 Sheet 6 of 11**

PROJECT No. 210847		DRAWING No. 210847 - 13		SCALE 1:500 @ A3
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024	REVISION P01	

OS SHEET No. 4000,4000,4001,4002








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Drawing Legend

-  Planning Application Boundary
 As Built Site Road
 Internal Underground Electrical Cabling
 As Built Hardstanding Area
 Turbine Sweep Area

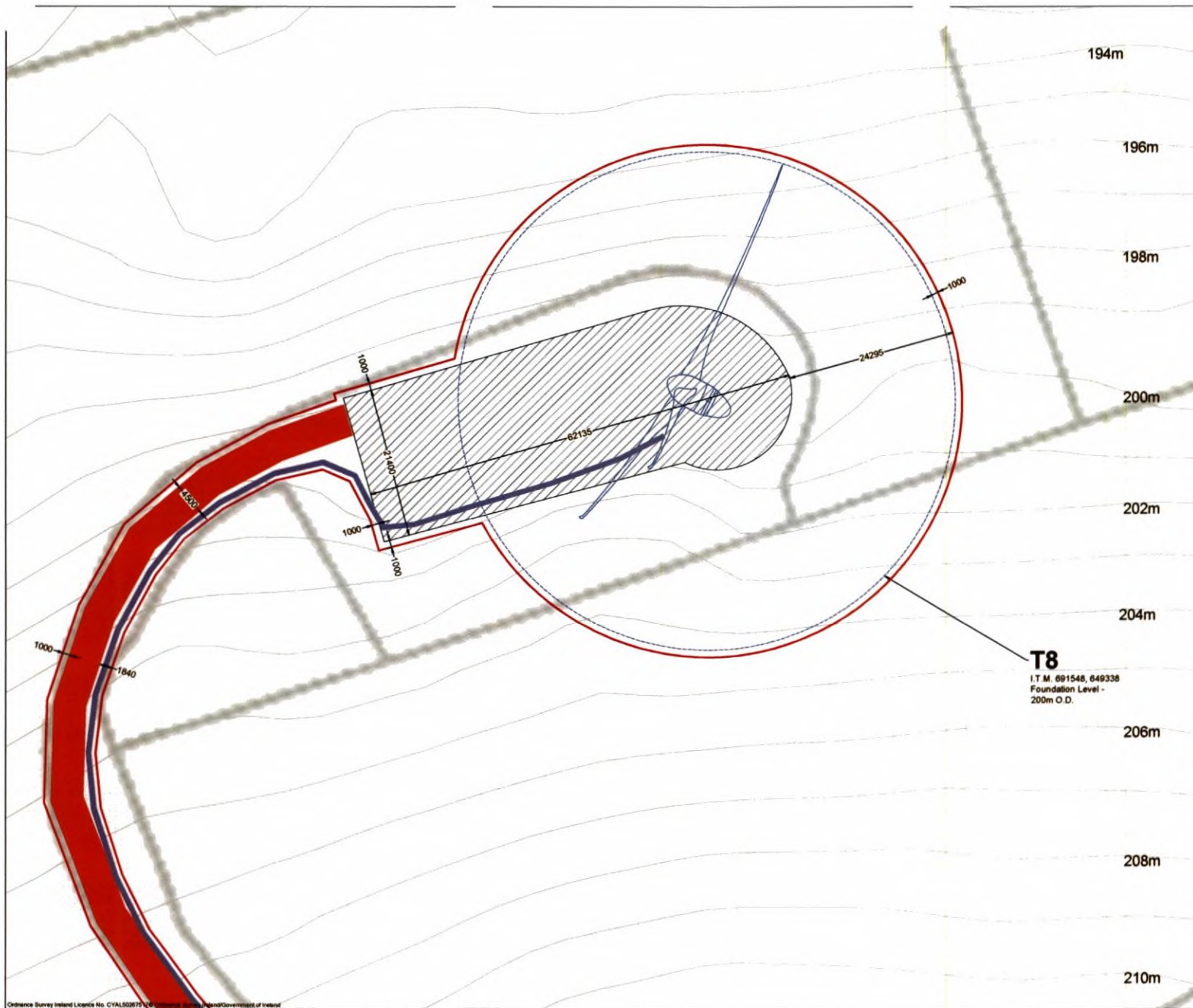
PROJECT TITLE
**Castledockrell Wind Farm
Extended Operational Period**

DRAWING TITLE: **Turbine Layouts**
Sheet 7 of 11

PROJECT No.: 210847		DRAWING No.: 210847 - 14		SCALE: 1:500 @ A3
DRAWN BY: KD	CHECKED BY: JW	DATE: 17.10.2024	REVISION: P01	
OS SHEET No.: 4899,4900,4961,4962				

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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- Internal Underground Electrical Cabling
- As Built Handstanding Area
- Turbine Sweep Area

T8
I.T.M. 691548, 649338
Foundation Level -
200m O.D.



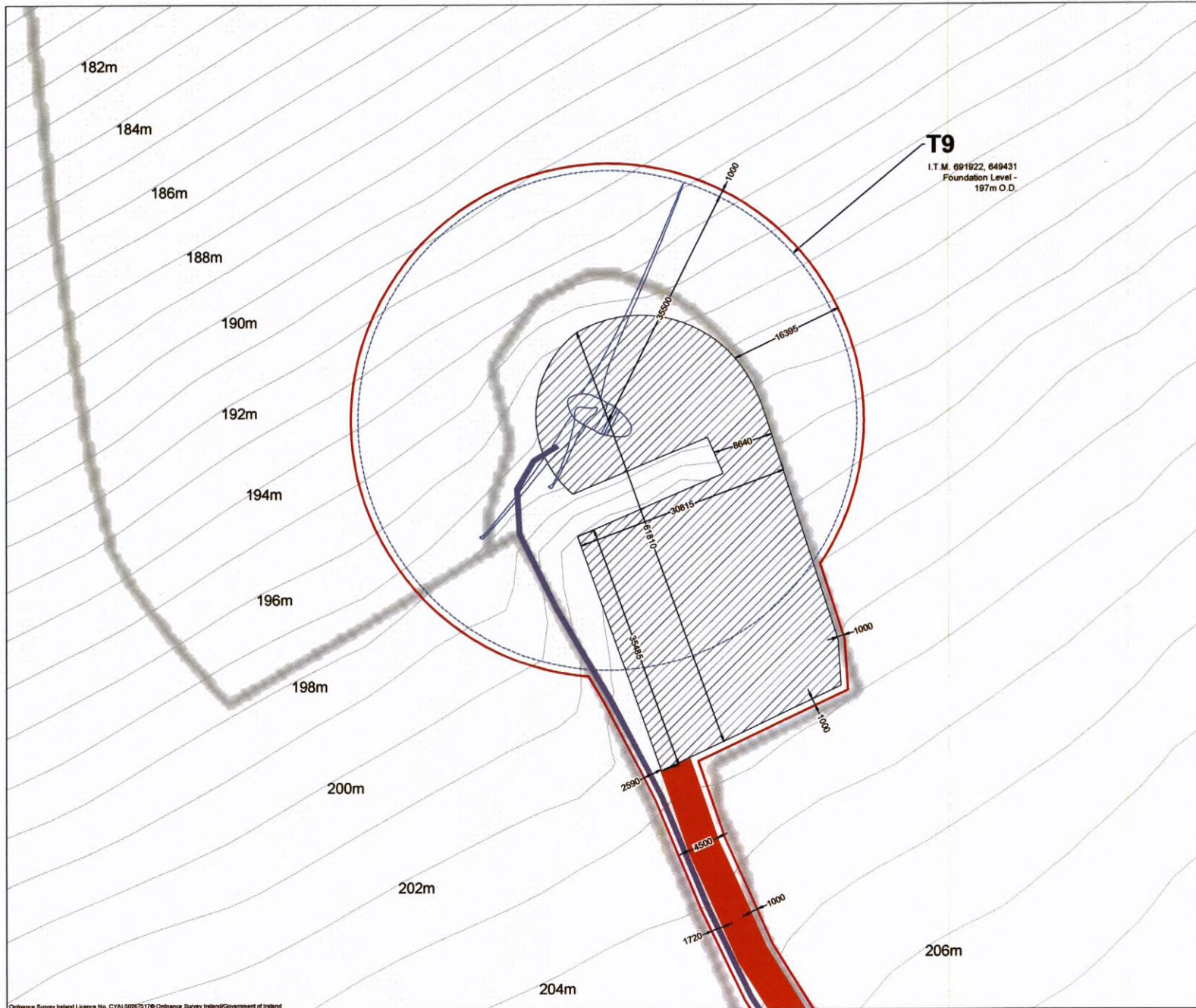
PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

DRAWING TITLE
Turbine Layouts
Sheet 8 of 11

PROJECT No: 210847	DRAWING No: 210847 - 18	SCALE: 1:500 @ A3
DRAWN BY: KD	CHECKED BY: JW	DATE: 17.10.2024
OS SHEET No: 4800, 4900, 4901, 4902		REVISION: P01



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- Drawing Legend**
- Planning Application Boundary
 - As Built Site Road
 - Internal Underground Electrical Cabling
 - As Built Hardstanding Area
 - Turbine Sweep Area



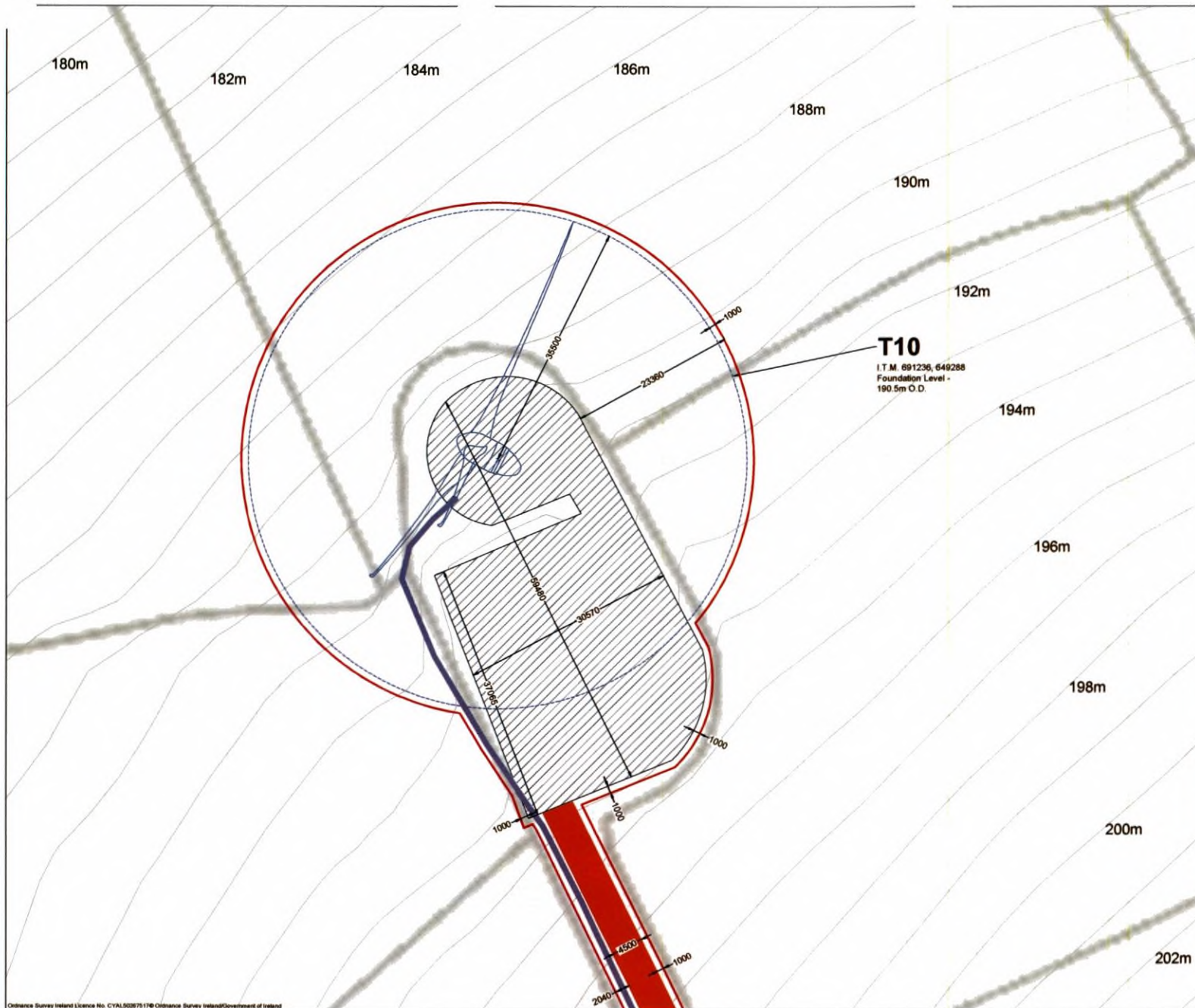
PROJECT TITLE
**Castledockrell Wind Farm
 Extended Operational Period**

DRAWING TITLE
**Turbine Layouts
 Sheet 9 of 11**

PROJECT No. 210847		DRAWING No. 210847 - 18		SCALE 1:500 @ A3	
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024	REVISION P01		
OS SHEET No.		4800, 4900, 4961, 4962			

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Drawing Legend

- Planning Application Boundary
- As Built Site Road
- Internal Underground Electrical Cabling
- As Built Hardstanding Area
- Turbine Sweep Area



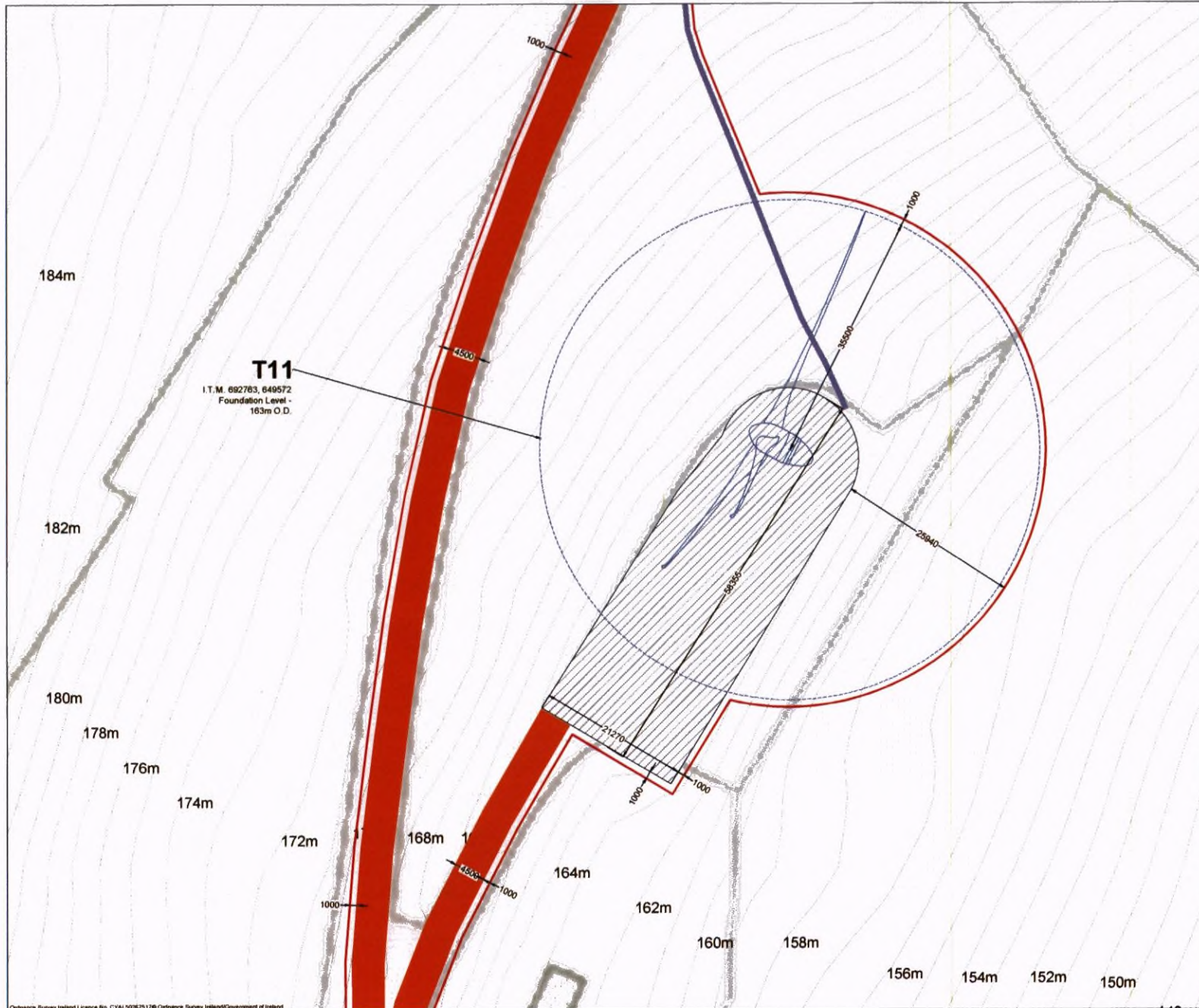
PROJECT TITLE
Castledockrell Wind Farm
Extended Operational Period

DRAWING TITLE
Turbine Layouts
Sheet 10 of 11

PROJECT No. 210847	DRAWING No. 210847 - 17	SCALE 1:500 @ A3
DRAWN BY KD	CHECKED BY JW	DATE 17.10.2024
OS SHEET No. 4000,4000,4001,4002		REVISION P01

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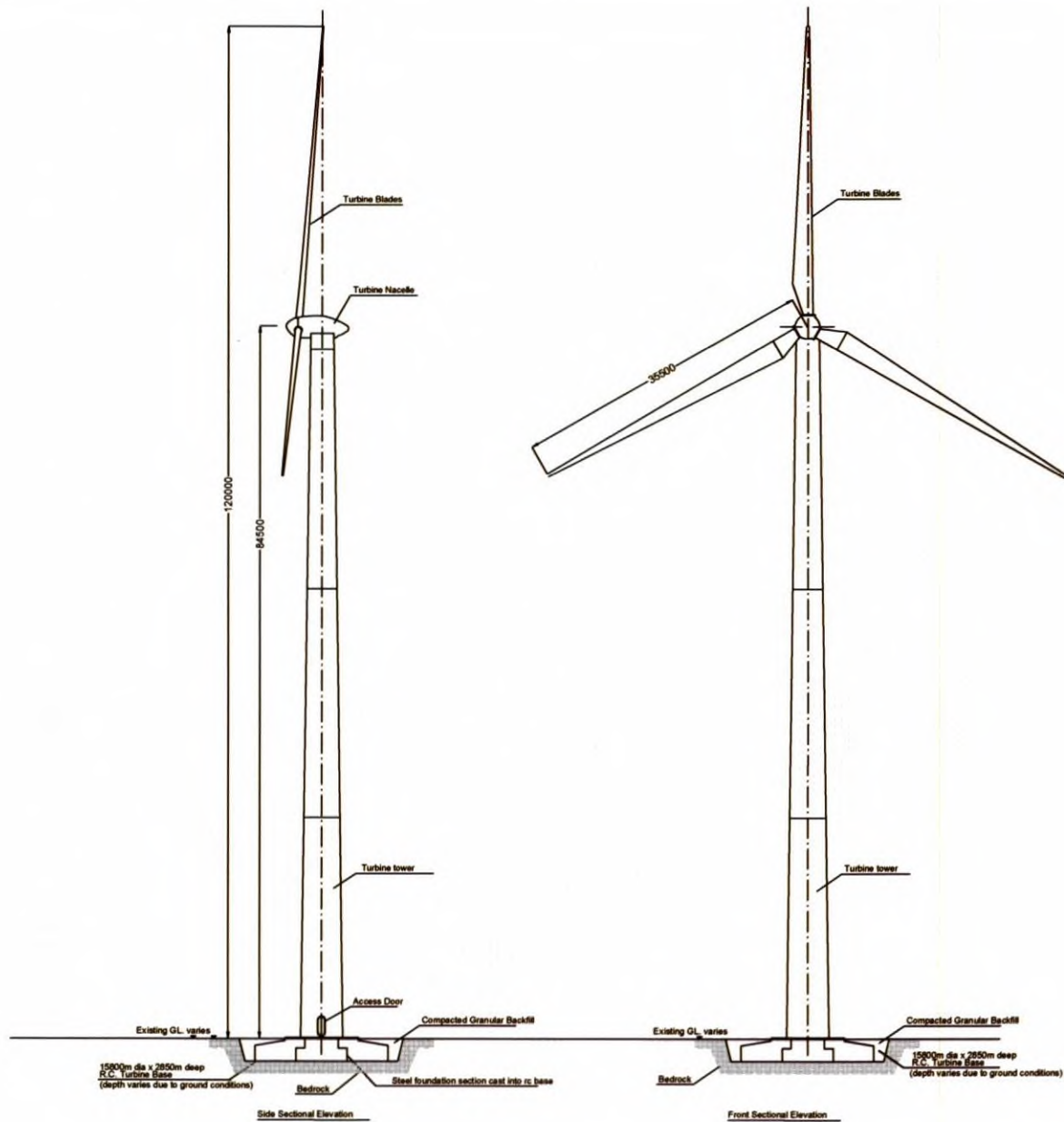
- Drawing Legend**
- Planning Application Boundary
 - As Built Site Road
 - Internal Underground Electrical Cabling
 - As Built Handstanding Area
 - Turbine Sweep Area



PROJECT TITLE			
Castledockrell Wind Farm Extended Operational Period			
DRAWING TITLE			
Turbine Layouts Sheet 11 of 11			
PROJECT No.	DRAWING No.	SCALE	
210847	210847 - 18	1:500 @ A3	
DRAWN BY	CHECKED BY	DATE	REVISION
KD	JW	17.10.2024	P01
OS SHEET No.		4899,4900,4901,4902	



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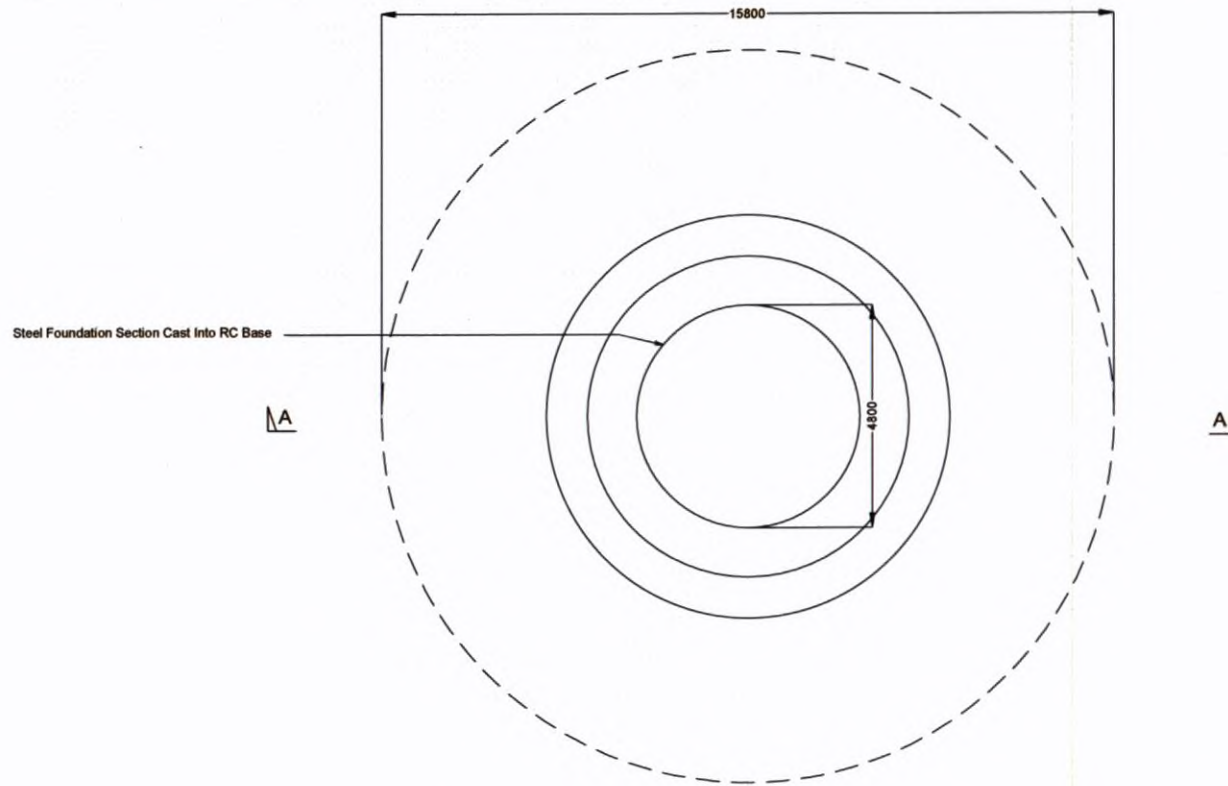
PROJECT TITLE
**Castledockrell Wind Farm
Extended Operational Period**

DRAWING TITLE
**Wind Turbine
Elevations**

PROJECT NO. 210847	DRAWING NO. 210847 - 19	SCALE 1:500 @ A3
DRAWN BY RD	CHECKED BY JW	DATE 17.10.2024
DESIGNER OS SHEET NO.		REVISION P01



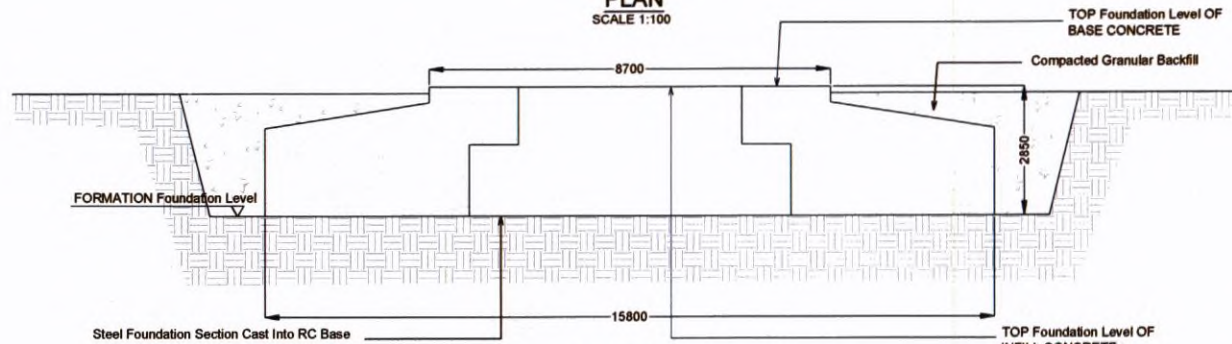
Email: info@www.mkoireland.ie Website: www.mkoireland.ie



NOTE:

1. ALL DIMENSIONS IN mm UNLESS NOTED

PLAN
SCALE 1:100



SECTION A-A
SCALE 1:100

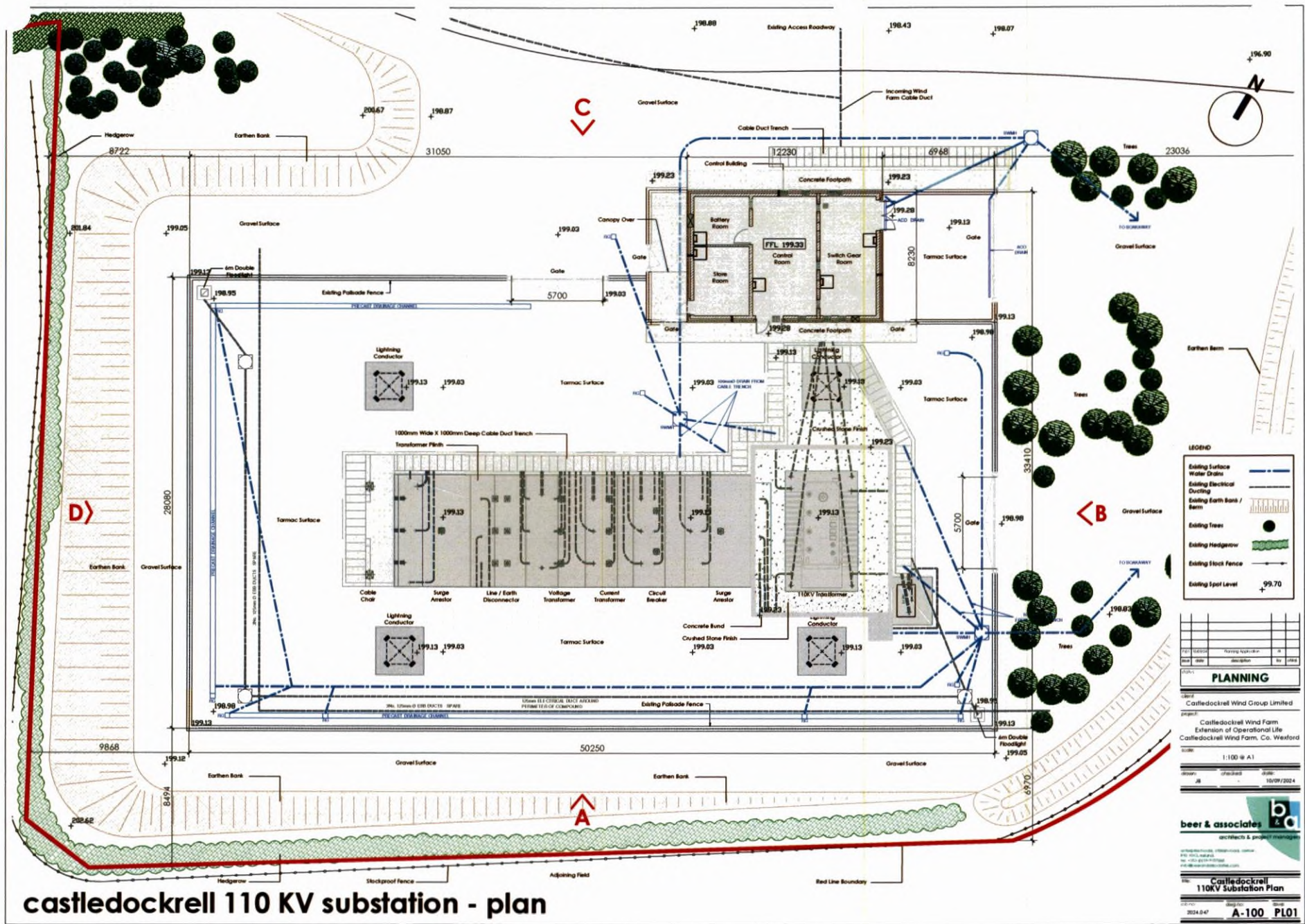
PROJECT TITLE
**Castledockrell Wind Farm
Extended Operational Period**

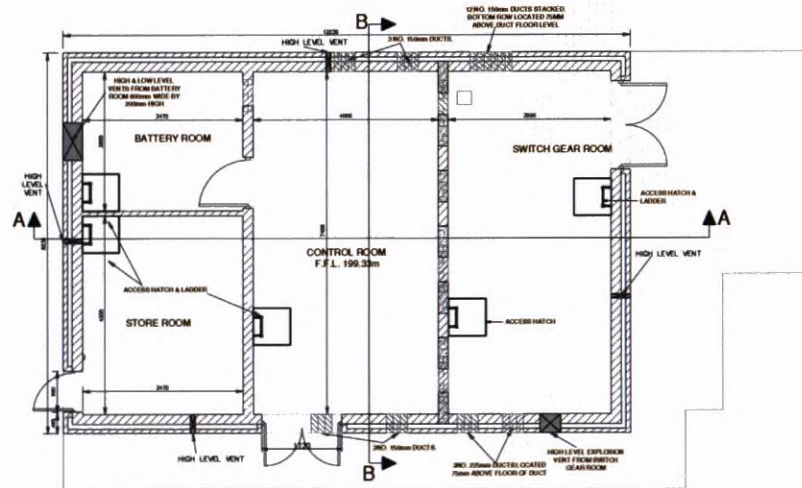
DRAWING TITLE
Turbine Foundation

PROJECT No: 210647	DRAWING No: 210647 - 20	SCALE: 1:100 @ A3
DRAWN BY: KD	CHECKED BY: JW	DATE: 17.10.2024
		REVISION: P01

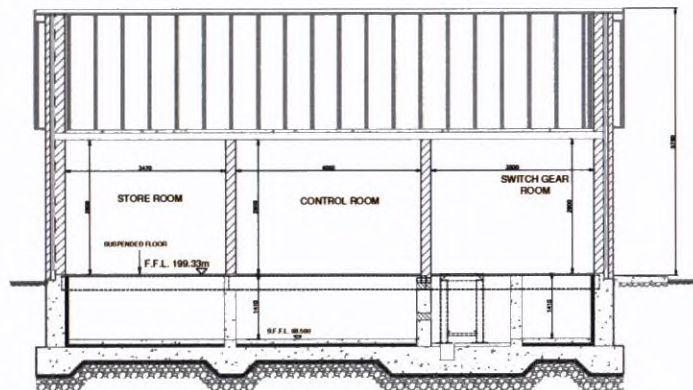


Email: info@www.mkofireland.ie / Website: www.mkofireland.ie

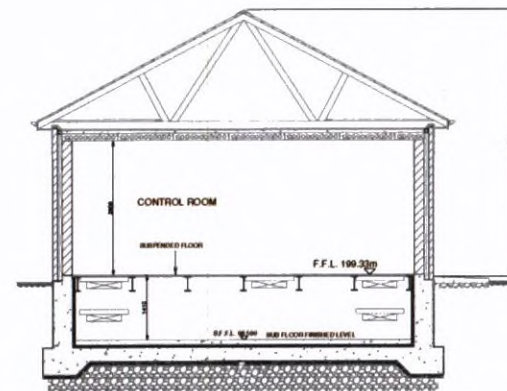




FLOOR PLAN



SECTION A-A



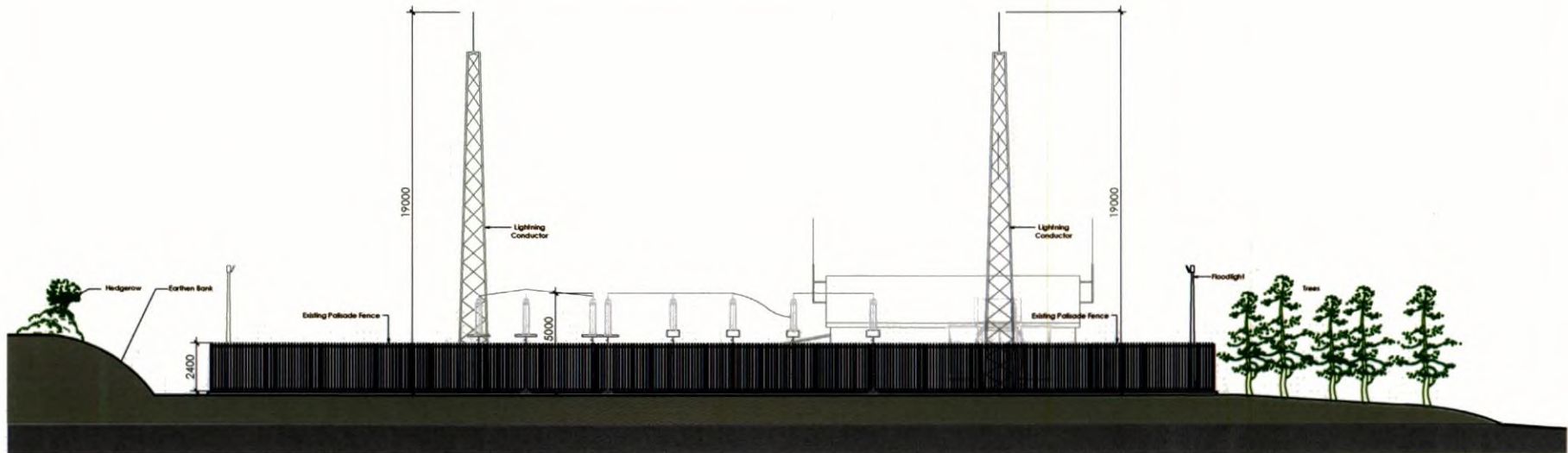
SECTION B-B



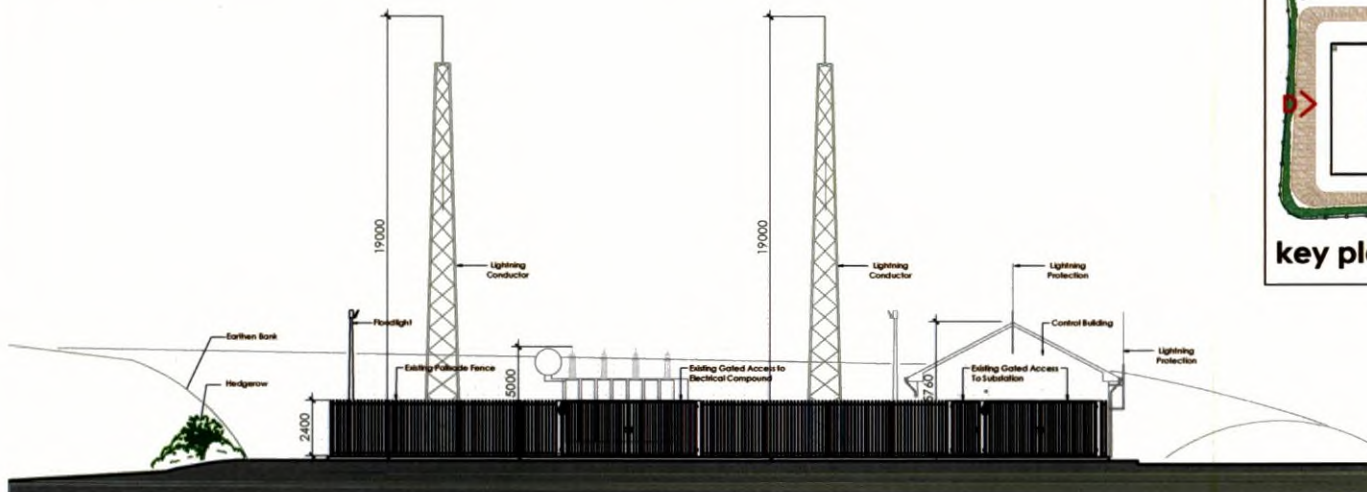
NO.	DATE	REVISION	BY	CHKD
1	15/09/2024	Issued for construction	AB	AB

PLANNING	
Client	Castledockrell Wind Group Limited
Project	Castledockrell Wind Farm Extension of Operational Life Castledockrell Wind Farm, Co. Westford
Scale	1:100 @ A1
Drawn	AB
Checked	AB
Date	15/09/2024

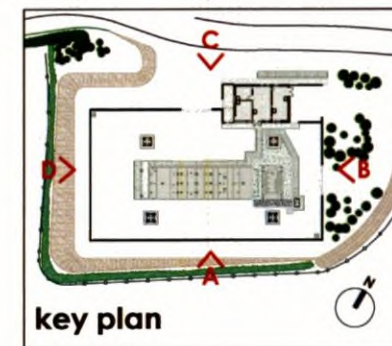
castledockrell 110 KV substation - control building plan & sections



elevation a



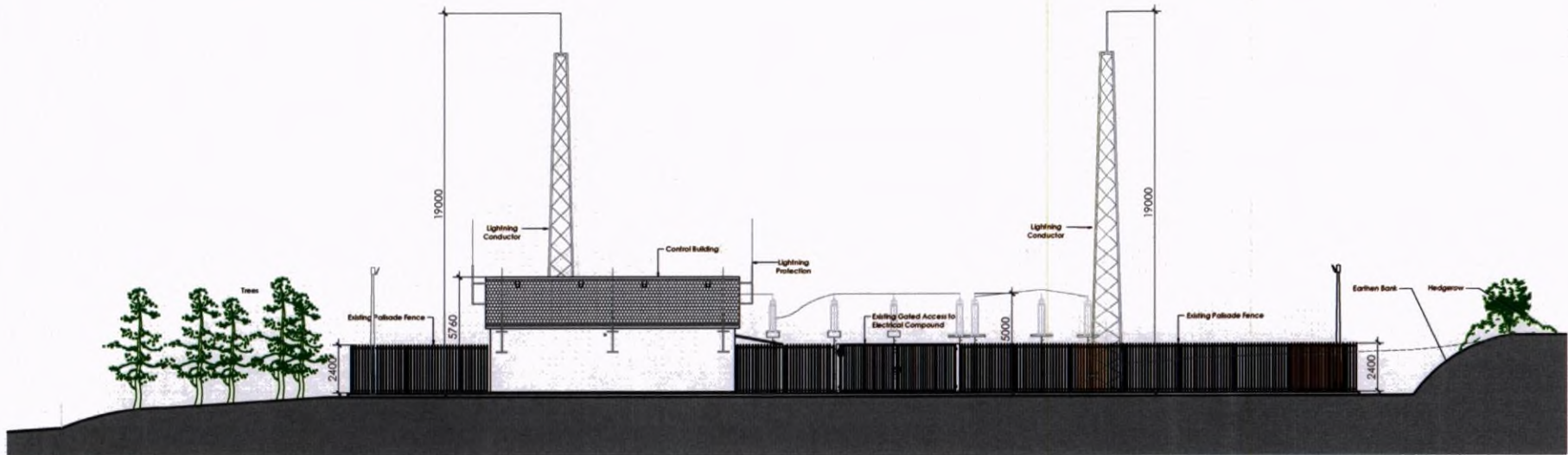
elevation b



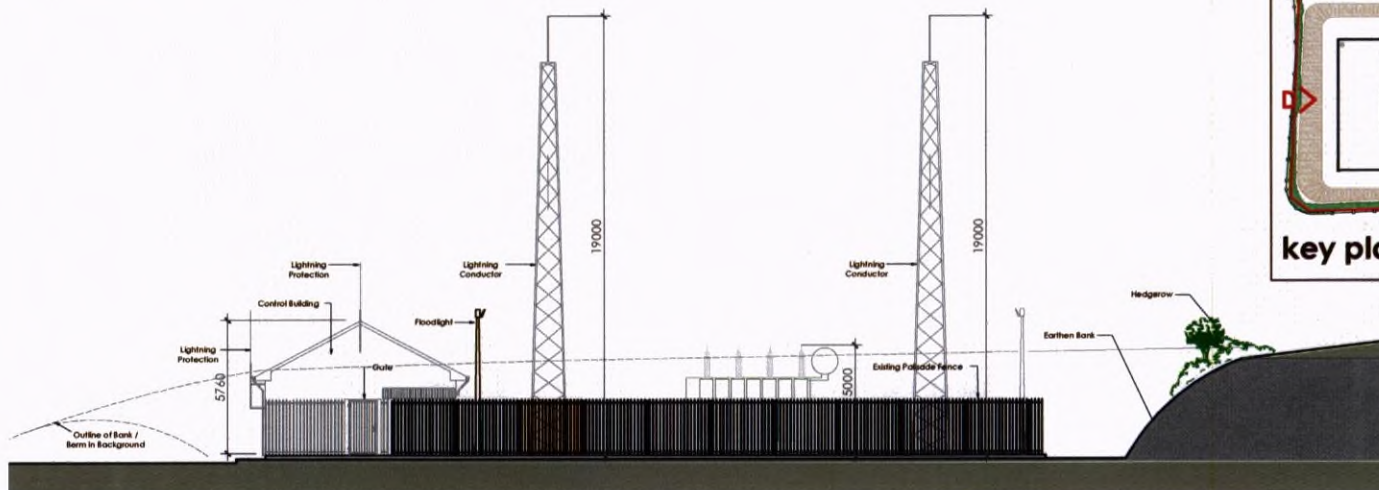
key plan

PLANNING			
Client	Castledockrell Wind Group Limited		
Project	Castledockrell Wind Farm Extension of Operational Life Castledockrell Wind Farm, Co. Wexford		
Scale	1:100 @ A1		
Drawn	JA	Checked	10/09/2024
 beer & associates architects & project managers			
Contextual Elevations 1			
Ref	2024.047	Sheet No.	A-200 PL01

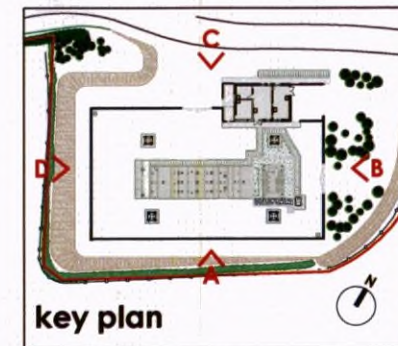
castledockrell 110 KV substation - contextual elevations 1



elevation c



elevation d



PLANNING			
DATE	15/09/2024	PROJECT	Castledockrell Wind Farm Extension of Operational Life
SCALE	1:100 @ A1	CLIENT	Castledockrell Wind Farm, Co. Wexford
DESIGNER	beer & associates	DATE	15/09/2024

Castledockrell Wind Group Limited
 Castledockrell Wind Farm
 Extension of Operational Life
 Castledockrell Wind Farm, Co. Wexford

1:100 @ A1
 15/09/2024

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Contextual Elevations 2
 2024.047 A-201 PL01

castledockrell 110 KV substation - contextual elevations 2



APPENDIX 4-3

**OPERATION AND
ENVIRONMENTAL
MANAGEMENT PLAN**

1.

INTRODUCTION

This Operation and Environmental Management Plan (OEMP) has been prepared by MKO on behalf of Castledockrell Wind Group Ltd as part of an Environmental Impact Assessment Report (EIAR) and planning application to Wexford County Council, for the proposed extension of operational life of the existing Castledockrell Wind Farm (Pl. Ref. WCC 2004/4702 and ABP Pl. Ref. 26.211725) for a further period of 20 years, hereafter referred to as the Proposed Development. Decommissioning of the Proposed Development is intended to take place after the proposed additional 20-year period (2045), subject to planning permission.

This report provides the environmental management framework to be adhered to during the extended operational phase of the Proposed Development and it incorporates the mitigating and monitoring principles that minimises the potential for any environmental impacts to occur.

This document has been prepared to accompany the EIAR prepared as part of the planning application for the Proposed Development.

1.1

Scope of the Operation and Environmental Management Plan

This report is presented as a guidance document for the operation of the Proposed Development and is intended to replace the environmental management plan currently in place up to expiry of the existing permission in 2025. The OEMP is intended to provide a more concise document targeted specifically at the continued operation of the Proposed Development.

Where the term 'Site' is used in this OEMP it refers to all works associated with the operation of the Proposed Development. The OEMP clearly outlines the mitigation measures and monitoring proposals that are required to be adhered to in order to operate the site in an appropriate manner.

The report is divided into six sections, as outlined below:

- **Section 1** provides a brief introduction as to the scope of the report.
- **Section 2** outlines the Site and Project details, detailing the targets and objectives of this plan along with providing an overview of methodologies for works that will be carried out during the operational phase of the Proposed Development.
- **Section 3** sets out details of the environmental controls to be implemented on site including the mechanisms for implementation.
- **Section 4** consists of a summary table of all mitigation proposals to be adhered to during the operational phase of the project.
- **Section 5** consists of a summary table of all monitoring proposals to be adhered to during the operational phase of the project.
- **Section 6** outlines the proposals for reviewing compliance with the provisions of this report.

2. SITE AND PROJECT DETAILS

2.1 Site Location and Description

The Proposed Development is located approximately 6.5 kilometres (km) south of the town of Buncloody and approximately 8.1 km west of the town of Ferns in County Wexford. The Proposed Development is located within the townlands of Kilcullen, Ballynelahillan, Carranroe, Tomatee, Knockduff and Sroughmore, while the approximate grid reference location for the centre of the site is ITM X688181 Y648191.

The existing wind farm consists of 11 No. Enercon 2.3 MW wind turbines with a maximum overall blade tip height of 120m (hub height 84.5m, rotor diameter 71m). The existing wind farm, which became operational in 2011, has a total rated capacity of 25.3MW

The existing wind farm became operational in 2011 and is connected to the National Grid by a 110 kilovolt (kV) underground cable between the existing 110kV substation at Castledockrell Wind Farm and the existing Lodgewood 220 kV Substation, located approximately 7km east of the Proposed Development.

The grid connection is assessed as a cumulative project only within the EIAR. The planning background for Castledockrell Wind Farm is detailed further in the accompanying EIAR Chapter 2: Background to the Proposed Development and the project description is further detailed in Chapter 4: Description of the Proposed Development.

No construction activities or alterations to the existing wind farm are proposed beyond routine maintenance of the turbines and associated infrastructure during the operational phase of the Proposed Development.

2.2 Description of the Proposed Development

Planning permission is being sought for the continued operation of 11 no. of the existing 12 no turbines on the Castledockrell Wind Farm, as permitted by WCC ref 2004/4702 and ABP Ref PL26.211725) for an additional period of 20 years beyond the expiry date on its existing permission (i.e. 2025). It is also proposed to permanently extend the operational life of the existing onsite 110kV substation. The Proposed Development does not comprise any modifications to the existing operational wind farm.

The Proposed Development consists of:

1. *11 no. existing 2.3 MW wind turbines with an overall tip height of 120m and associated hardstands;*
2. *1 no. existing 110kV Substation including 1 no. single story control building, all associated electrical plant and equipment, security fencing and all ancillary infrastructure;*
3. *All existing underground electrical and communication cabling connecting the existing wind turbines to the onsite Castledockrell 110kV Substation;*
4. *Existing internal access tracks; and,*
5. *All existing ancillary infrastructure.*

All elements of the wind farm are pre-existing and it is not proposed to make any alterations to the current site layout, wind turbines or associated infrastructure as part of this application.

As mentioned above, it is proposed to permanently extend the operational life of the existing onsite 110kV substation, as permitted under WCC Ref 2004/4702 and subsequently amended under WCC Ref 2005/3945. It should also be noted that the existing 110kV underground grid connection, which

connects the existing Castledockrell Wind Farm to the National Grid at Lodgewood 220kV substation does not form part of this application, and is assessed cumulatively in the EIAR. The planning history of the existing Castledockrell Wind Farm is further detailed in the accompanying EIAR Chapter 2: Background to the Proposed Development.

The site layout showing the existing infrastructure of the Proposed Development is shown in Figure 2-1.

As construction has been completed, elements of the project that were developed as a temporary facilitator have either been removed, restored to its original condition or will have naturally revegetated. All access roads and hardstanding areas form part of a site roadway network which will be required by the ongoing agricultural practices, and therefore will be left in-situ for future use. It is intended that decommissioning will remove the existing turbines and reinstate areas where infrastructure is removed. The following elements are included:

- Wind turbines dismantling and removal off site;
- Electrical cabling removal (ducting remaining), and
- Turbine foundation backfilling (underground reinforced concrete remaining in-situ).

A Decommissioning Plan has been prepared for the Proposed Development and is presented as Appendix 4.4 of this EIAR.

