

**Proposed Borrisbeg Renewable Energy
Development, Co. Tipperary
Planning Application Drawings**



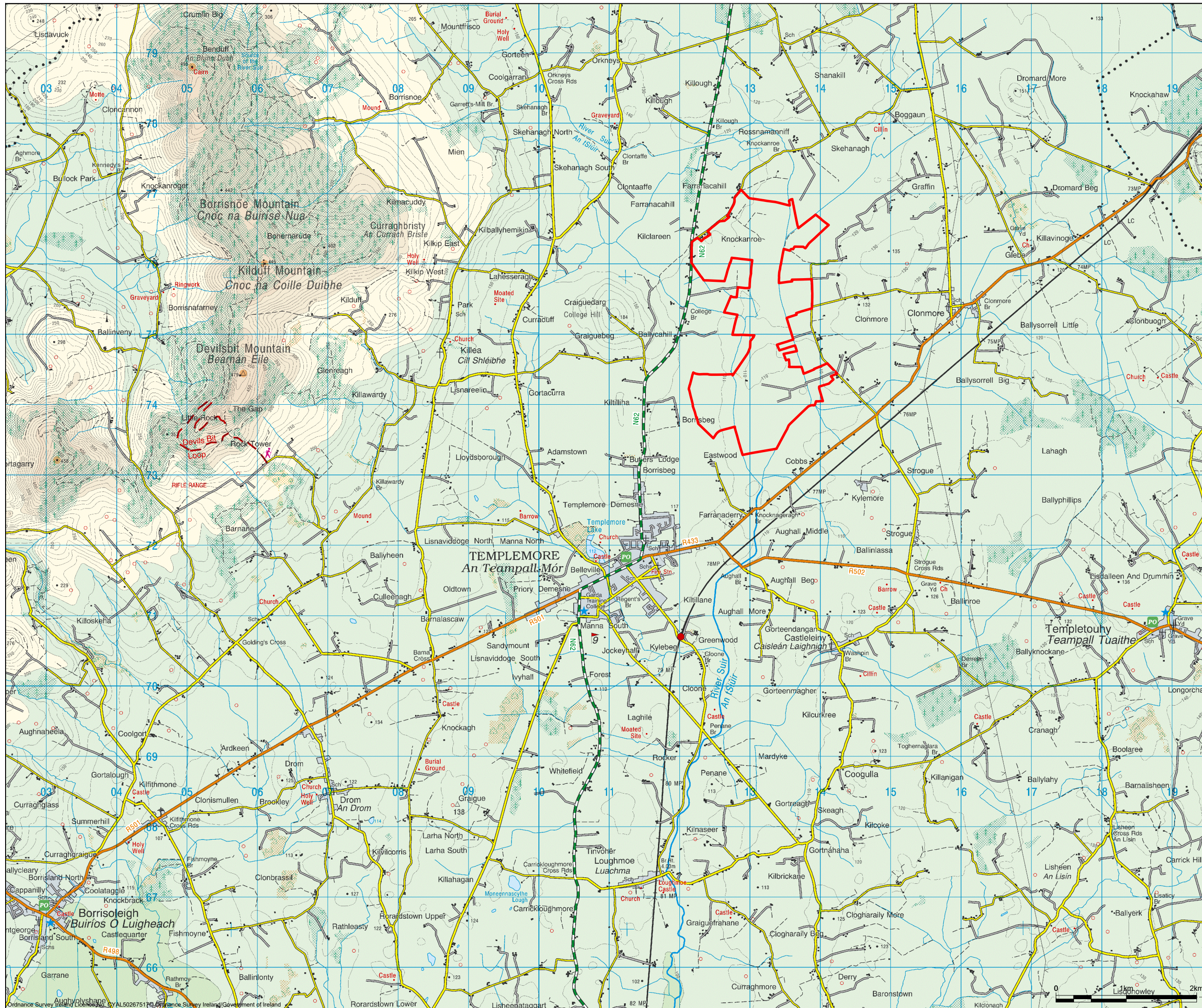


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 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

Drawing Legend

— Planning Application Boundary

Legend:
 ● Site Location

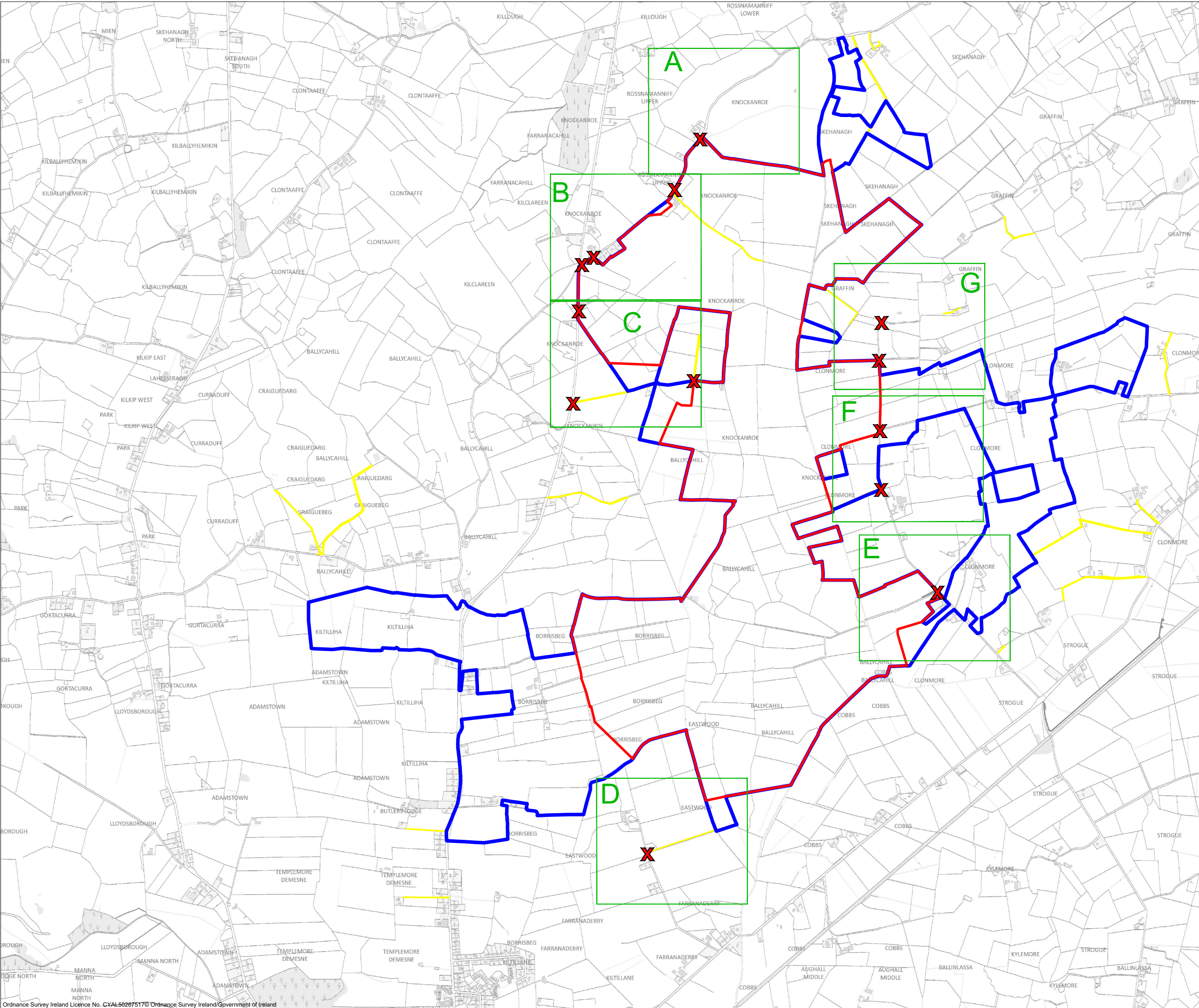
Map - N.T.S

PROJECT TITLE:
Borrisbeg Renewable Energy Development

DRAWING TITLE:
Location Context Map

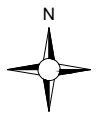
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DRAWN BY: GO	CHECKED BY: KD	REVISION: P01
DATE: 16.11.2023		
OS SHEET No.:	OS2016	

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- Drawing Legend**
- Planning Application Boundary
 - Landowners Boundary
 - X Site Notice
 - Wayleave



PROJECT TITLE:
Borrisbeg Renewable Energy Development

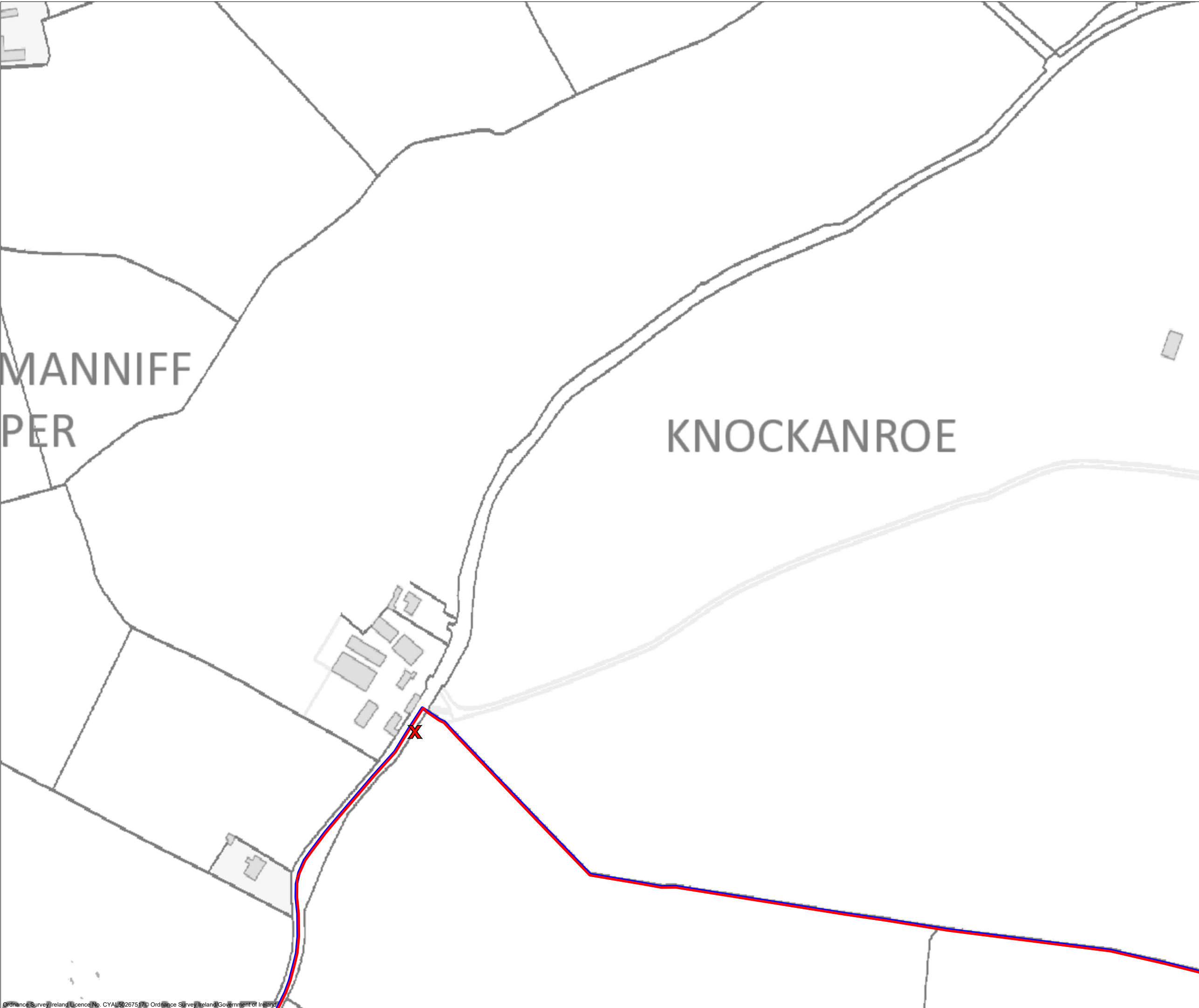
DRAWING TITLE:
Site Location Map

PROJECT No.: 220310	DRAWING No.: 220310 - 02	SCALE: 1:20,000 @ A3
DRAWN BY: GO	CHECKED BY: KD	REVISION: P01
DATE: 16.11.2023		

OS SHEET No.:
4341, 4342, 4399, 4400, 4457, 4458



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PROJECT TITLE:
Borrisbeg Renewable Energy Development

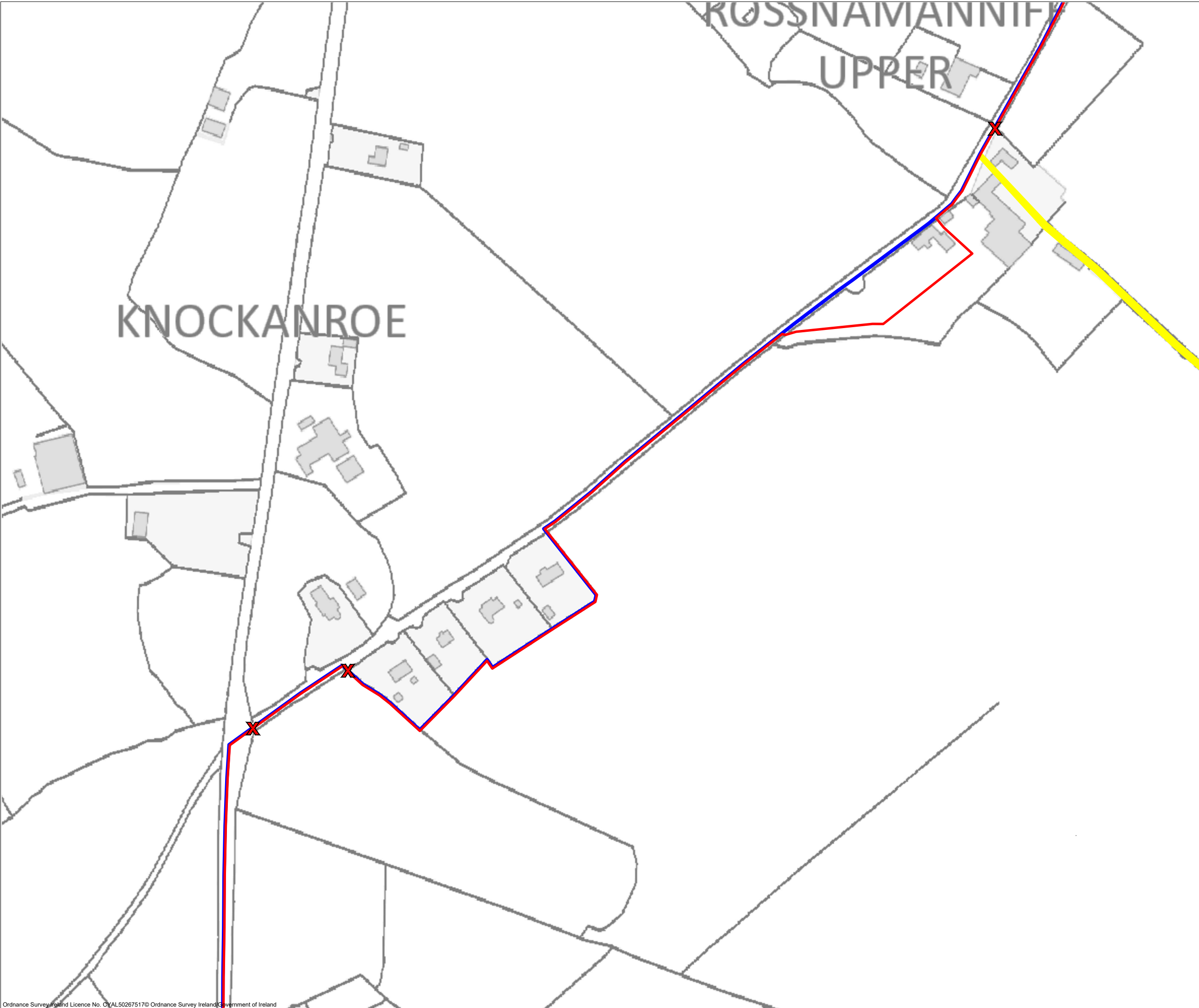
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Site Location Map Sheet A

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		REVISION:. P01

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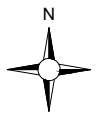


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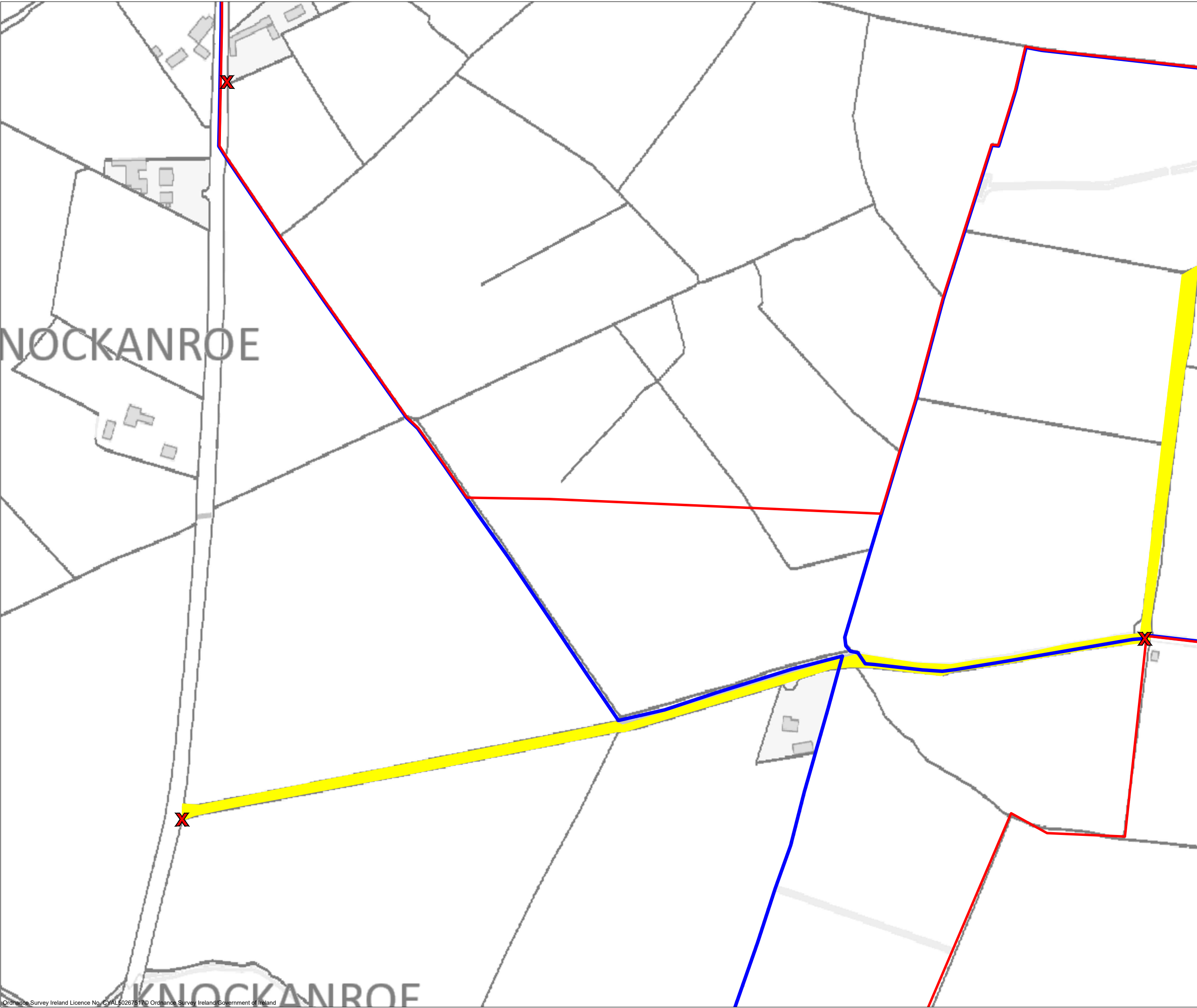
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Site Location Map Sheet B

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DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01

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- Drawing Legend**
- Planning Application Boundary
 - Landowners Boundary
 - X Site Notice
 - Wayleave



PROJECT TITLE:
Borrisbeg Renewable Energy Development

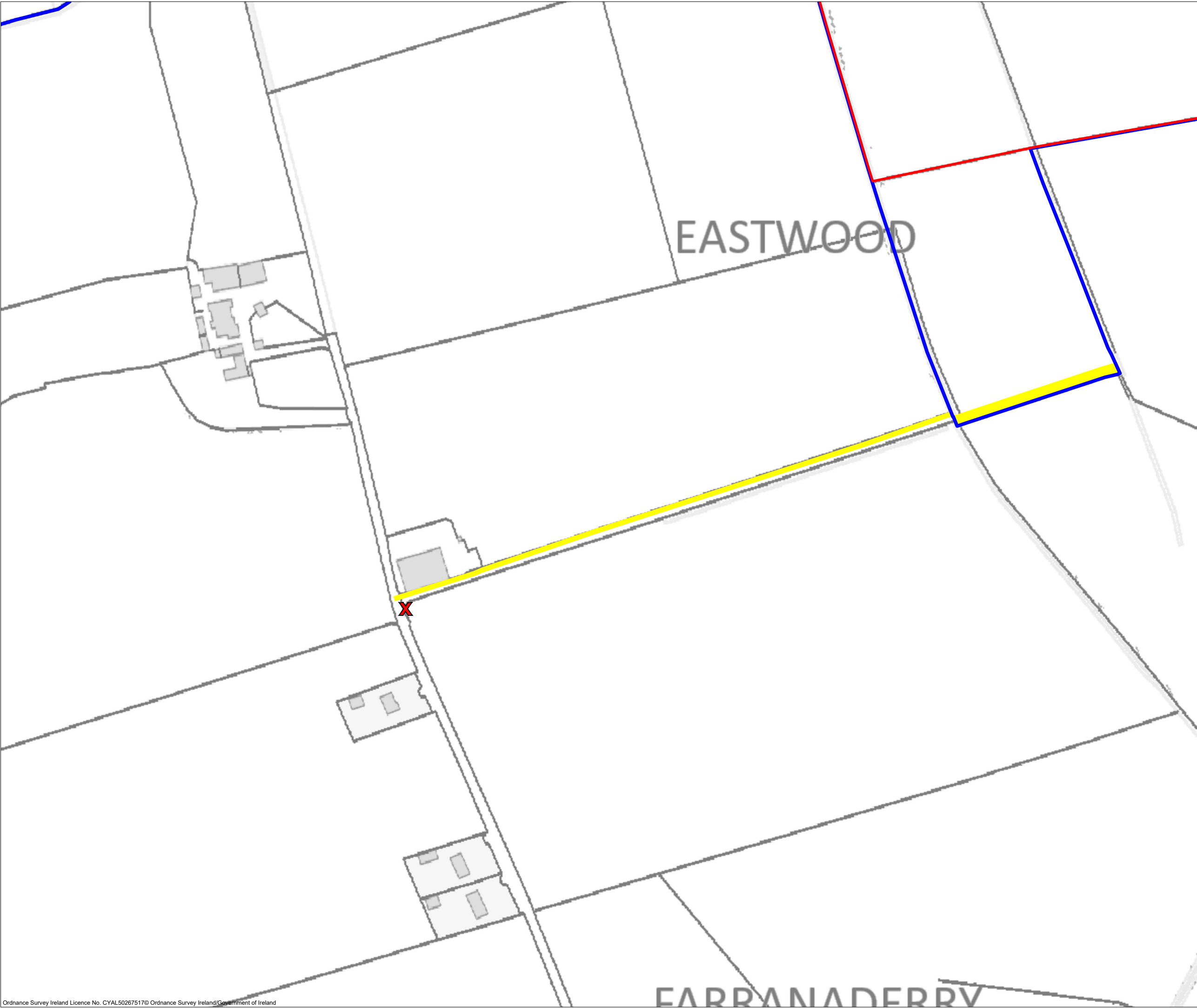
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Site Location Map Sheet C

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DRAWN BY:	CHECKED BY:	DATE:
GO	KD	16.11.2023
		REVISION.:
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OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458

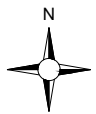


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- Planning Application Boundary
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Borrisbeg Renewable Energy Development

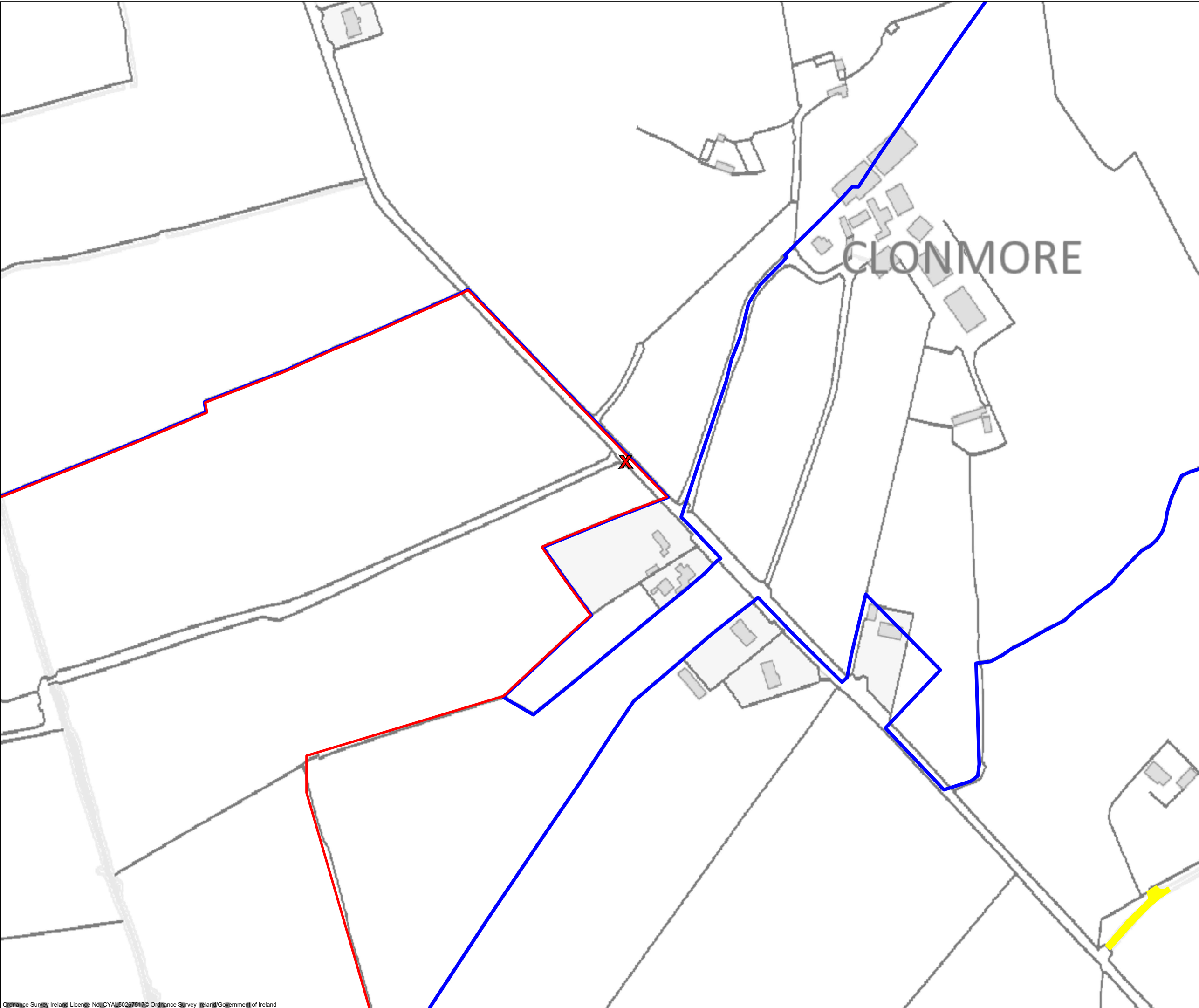
DRAWING TITLE:
Site Location Map Sheet D

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DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01

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- Planning Application Boundary
 - Landowners Boundary
 - X Site Notice
 - Wayleave



PROJECT TITLE:
Borrisbeg Renewable Energy Development

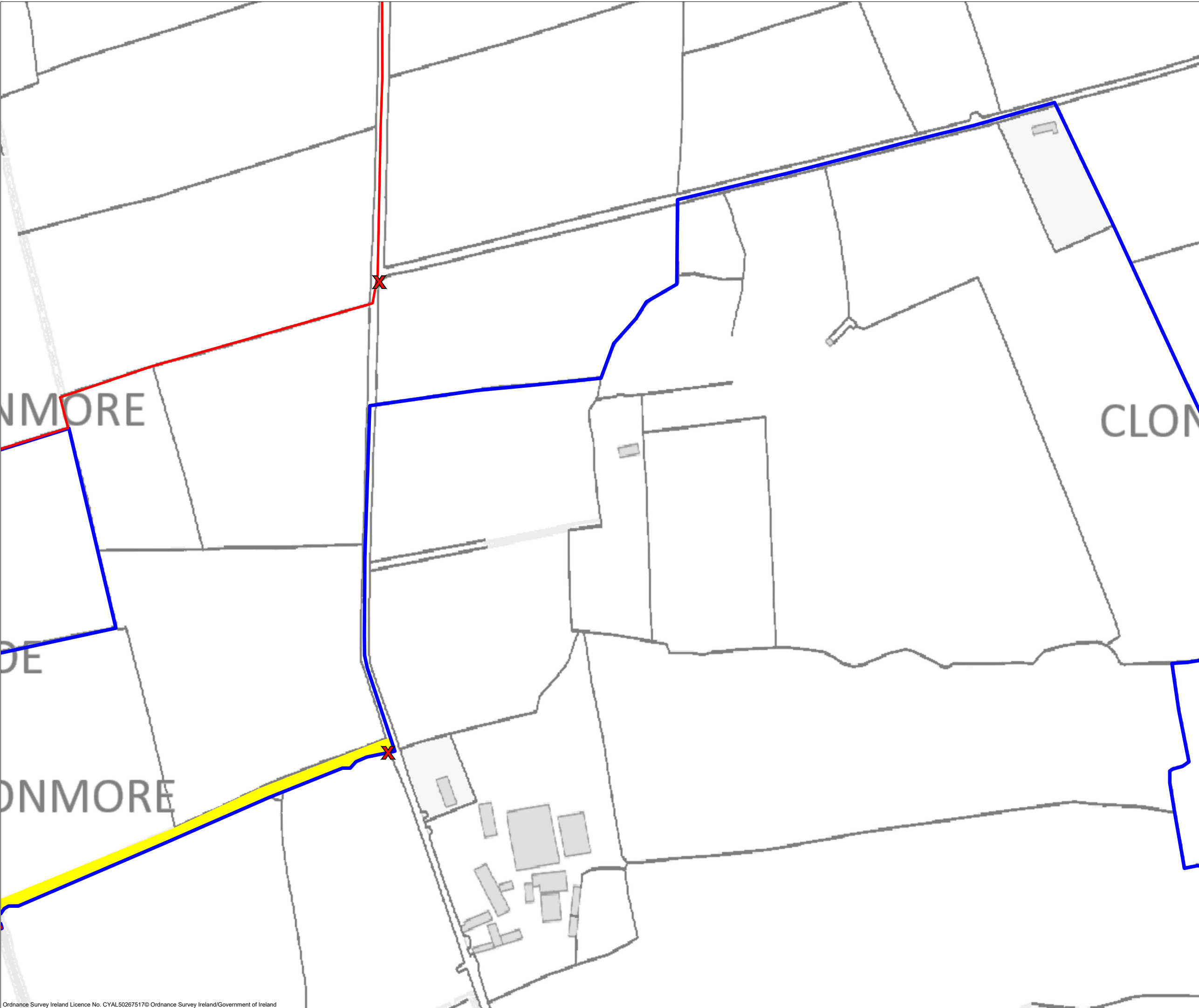
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Site Location Map Sheet E

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DRAWN BY:	CHECKED BY:	DATE:
GO	KD	16.11.2023
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- Planning Application Boundary
 - Landowners Boundary
 - X Site Notice
 - Wayleave



PROJECT TITLE:
Borrisbeg Renewable Energy Development

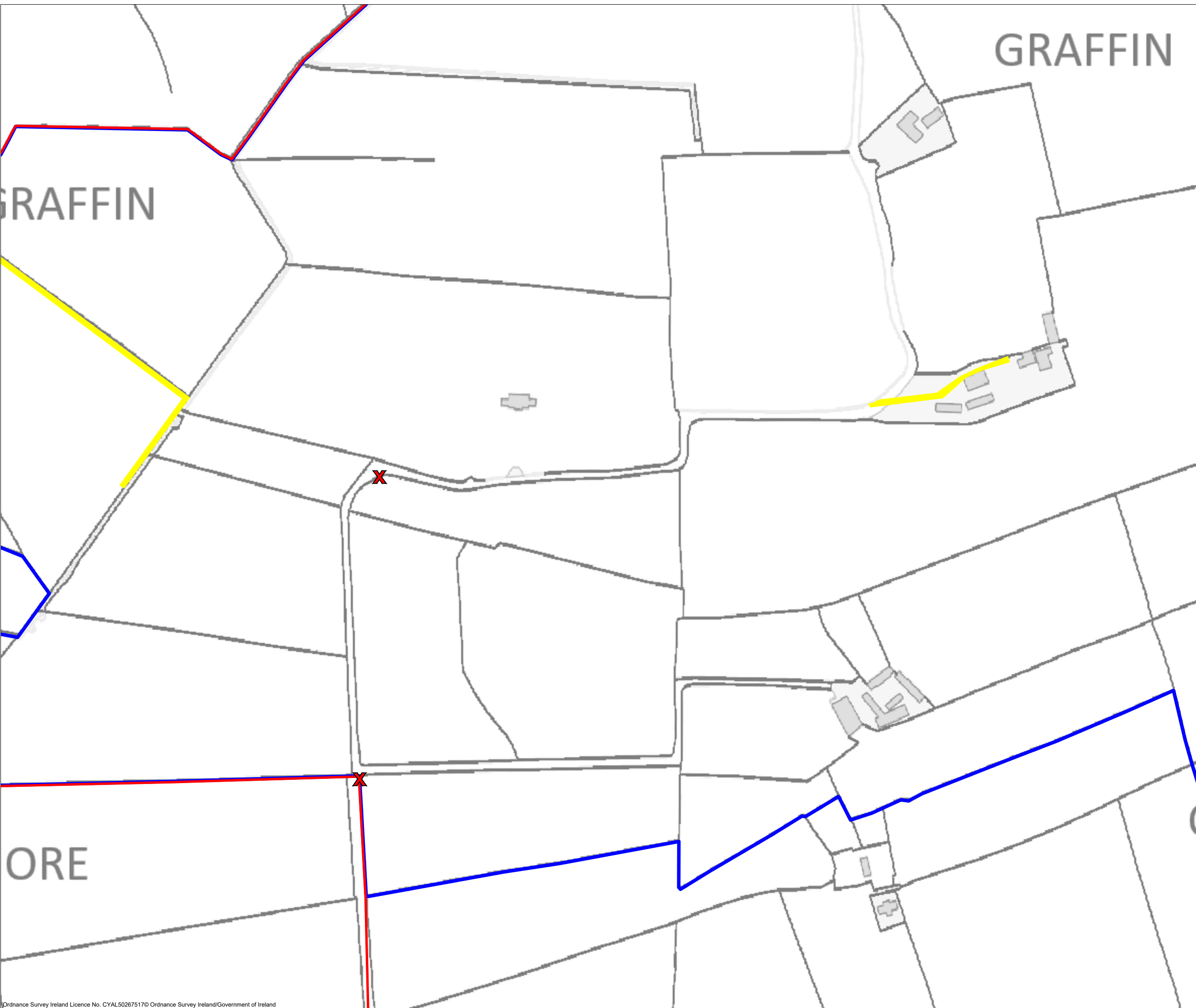
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DRAWN BY:	CHECKED BY:	DATE:
GO	KD	16.11.2023
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		P01

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Borrisbeg Renewable Energy Development

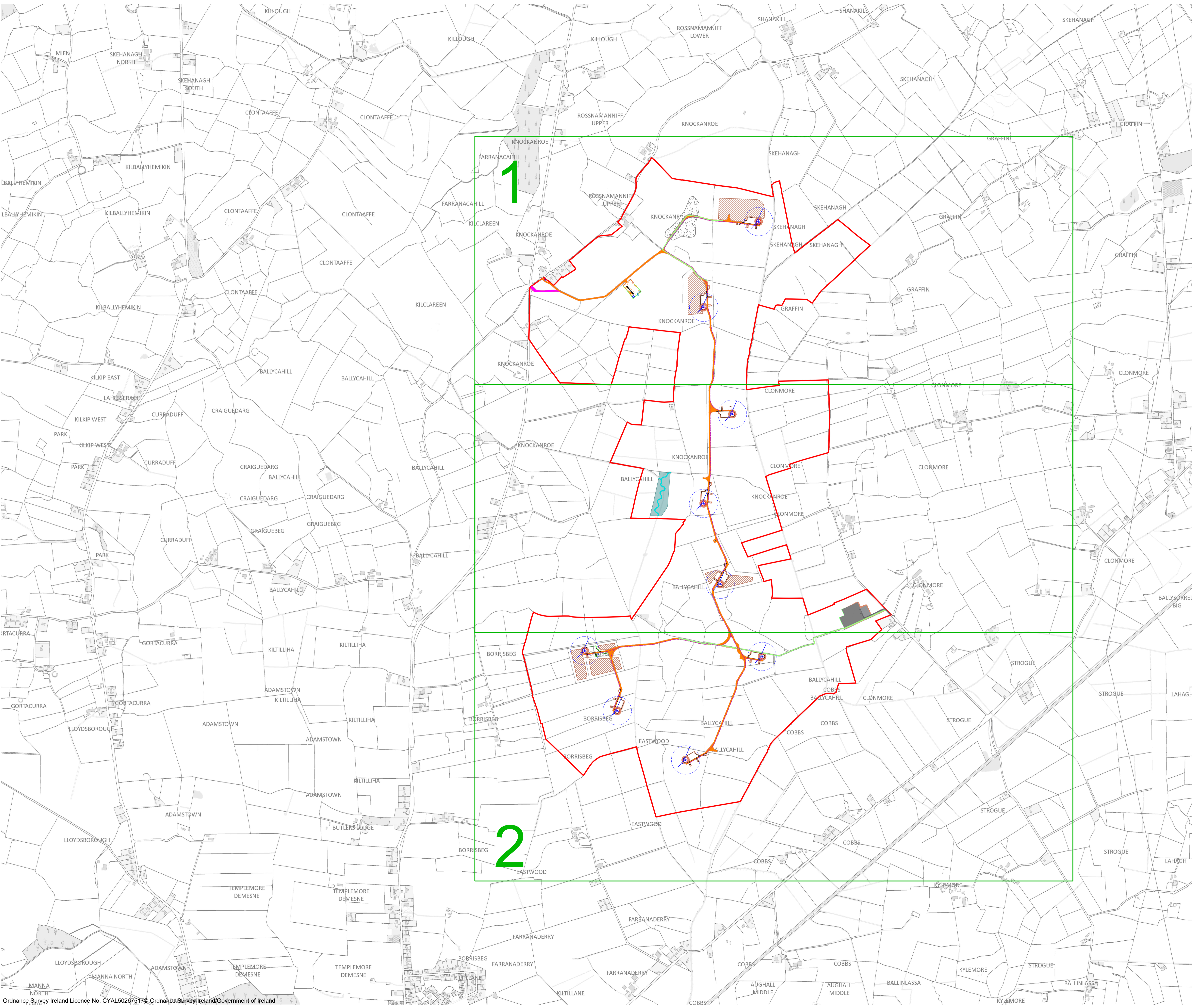
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Site Location Map Sheet G

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DRAWN BY:	CHECKED BY:	DATE:
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		REVISION.:
		P01

OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458

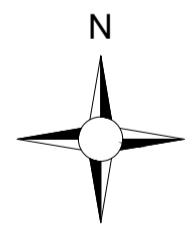


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- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - ▨ Assembly Areas
 - ▨ Hardstand
 - ⊗ Turbine Foundation
 - ⊙ Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Woodland conservation Area
 - River restoration
 - ⊙ Borrow Pit
 - Internal Electrical Cable Trench
 - ▨ Spoil Management Areas
 - Temporary New Road (to facilitate delivery of abnormal loads)



PROJECT TITLE:
Borrisbeg Renewable Energy Development

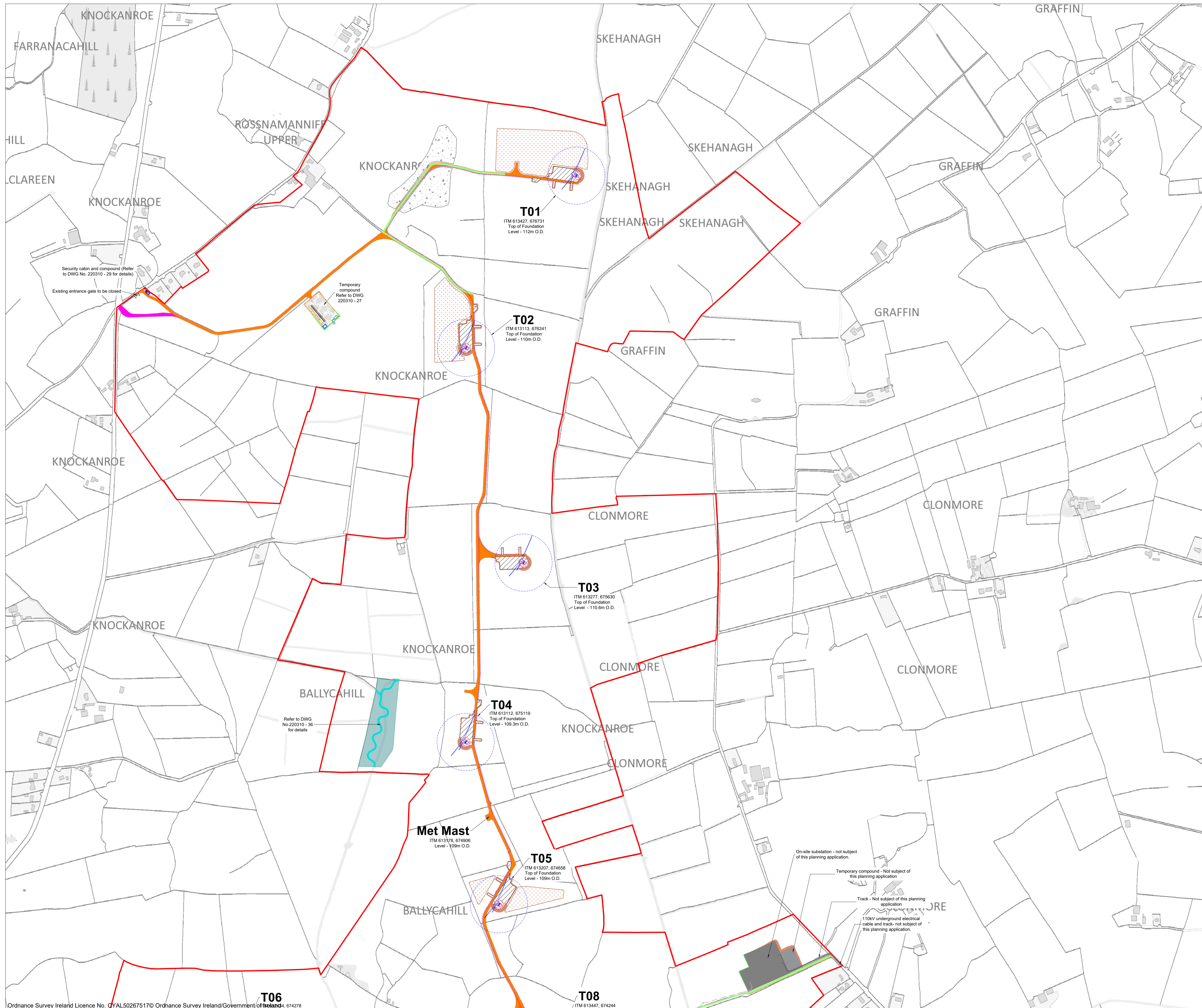
DRAWING TITLE:
Site Layout Key Plan (1:5,000)

PROJECT No.: 220310	DRAWING No.: 220310 - 03	SCALE: 1:10,000 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01

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 - Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Woodland conservation Area
 - River restoration
 - Borrow Pit
 - Internal Electrical Cable Trench
 - Spoil Management Areas
 - Temporary New Road (to facilitate delivery of abnormal loads)
 - - - 33 KV Cable

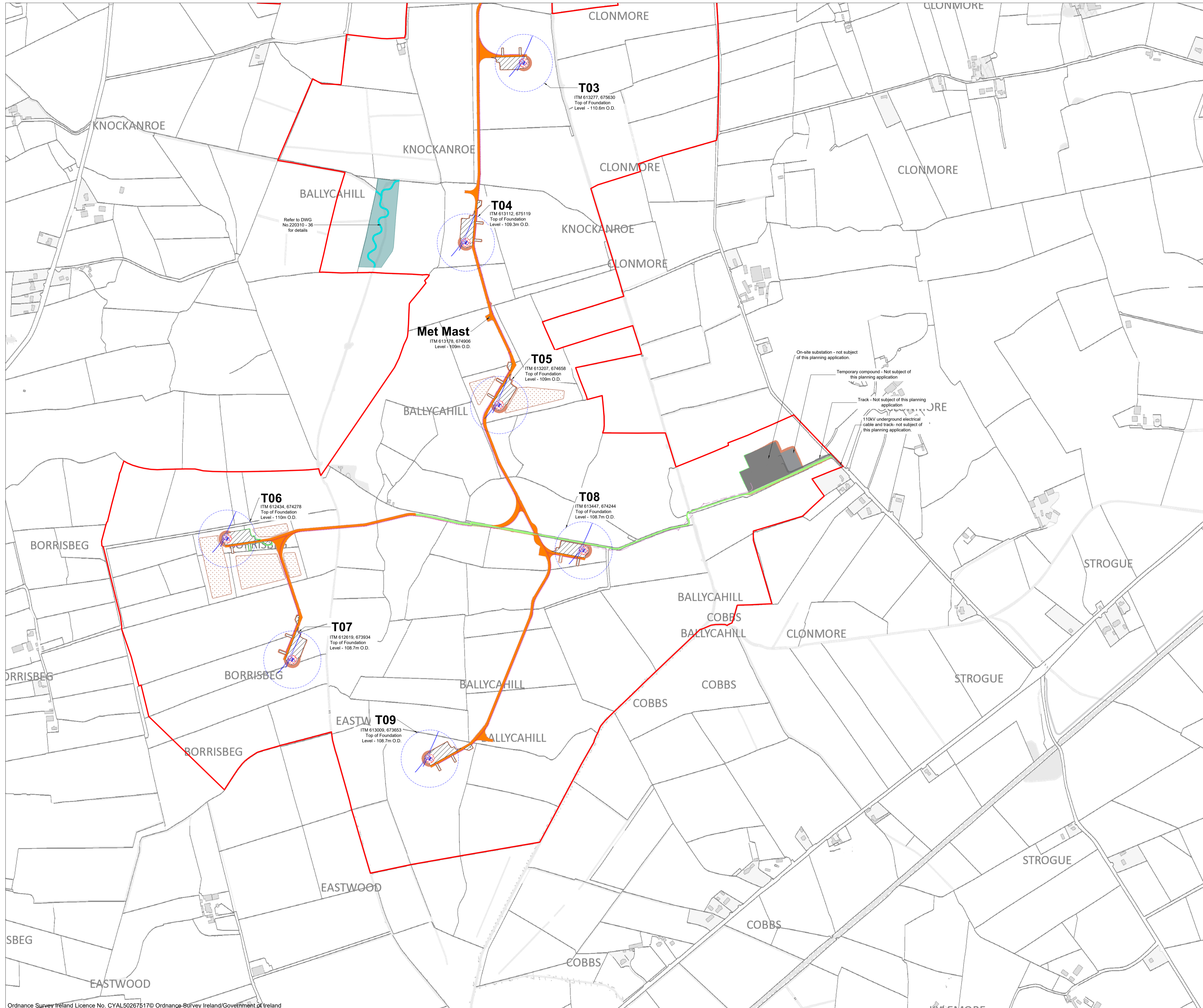
PROJECT TITLE:
Borrisbeg Renewable Energy Development

DRAWING TITLE:
Site Layout 1:5,000 Sheet 1 of 2

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DRAWN BY:	CHECKED BY:	DATE:
GO	KD	16.11.2023
OS SHEET No.:	REVISION.:	
4341, 4342, 4399, 4400, 4457, 4458	P01	



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 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Woodland conservation Area
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 - Spoil Management Areas
 - 33 kV Cable

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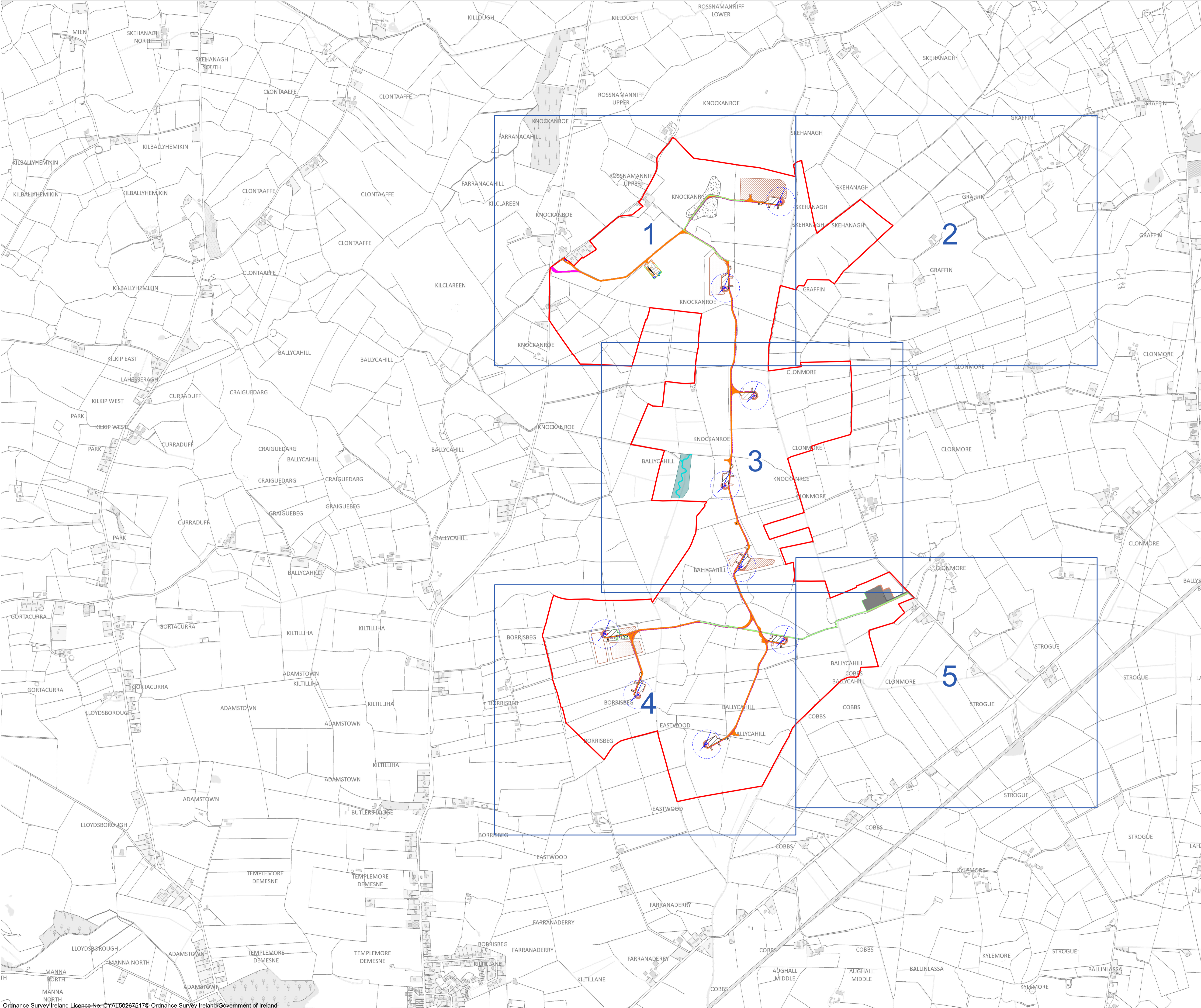
DRAWING TITLE:
Site Layout 1:5,000 Sheet 2 of 2

PROJECT No.: 220310	DRAWING No.: 220310 - 05	SCALE: 1:5,000 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01

OS SHEET No.:
4341, 4342, 4399, 4400, 4457, 4458

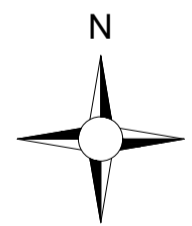


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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

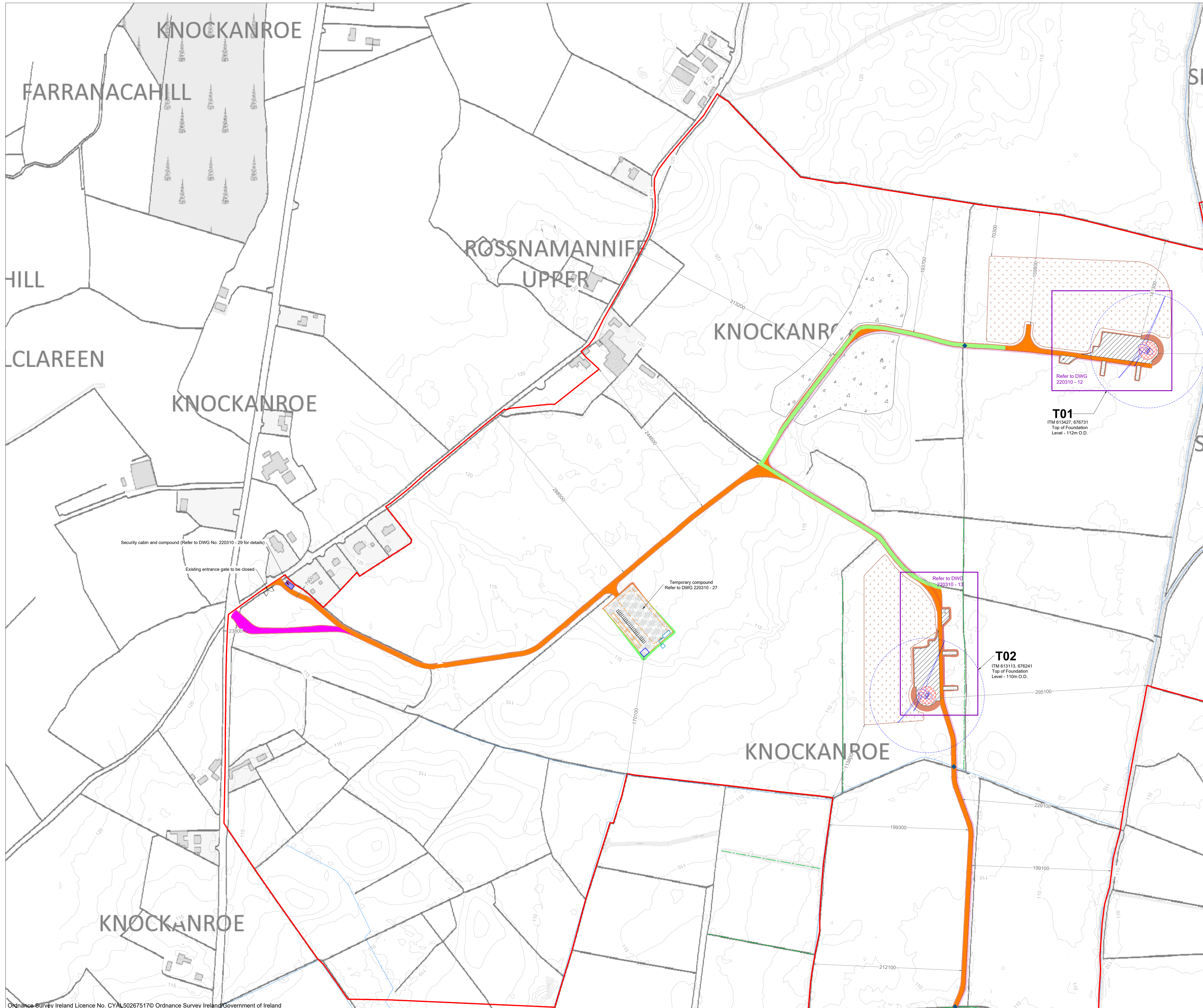
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Woodland conservation Area
 - River restoration
 - Spoil Management Areas
 - Temporary New Road (to facilitate delivery of abnormal loads)
 - Borrow Pit
 - Internal Electrical Cable Trench



PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Site Layout Key Plan (1:2,500)		
PROJECT No.: 220310	DRAWING No.: 220310 - 06	SCALE: 1:10,000 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
OS SHEET No.:		REVISION: P01
4341, 4342, 4399, 4400, 4457, 4458		



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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Blade Fingers
 - Hardstand
 - Turbine Foundation
 - Proposed Max. Turbine Sweep Area
 - Cut
 - Fill
 - Spoil Management Areas
 - Temporary New Road (to facilitate delivery of abnormal loads)
 - Borrow Pit
 - River/Stream
 - Internal Electrical Cable Trench
 - Drains
 - Culvert Crossing

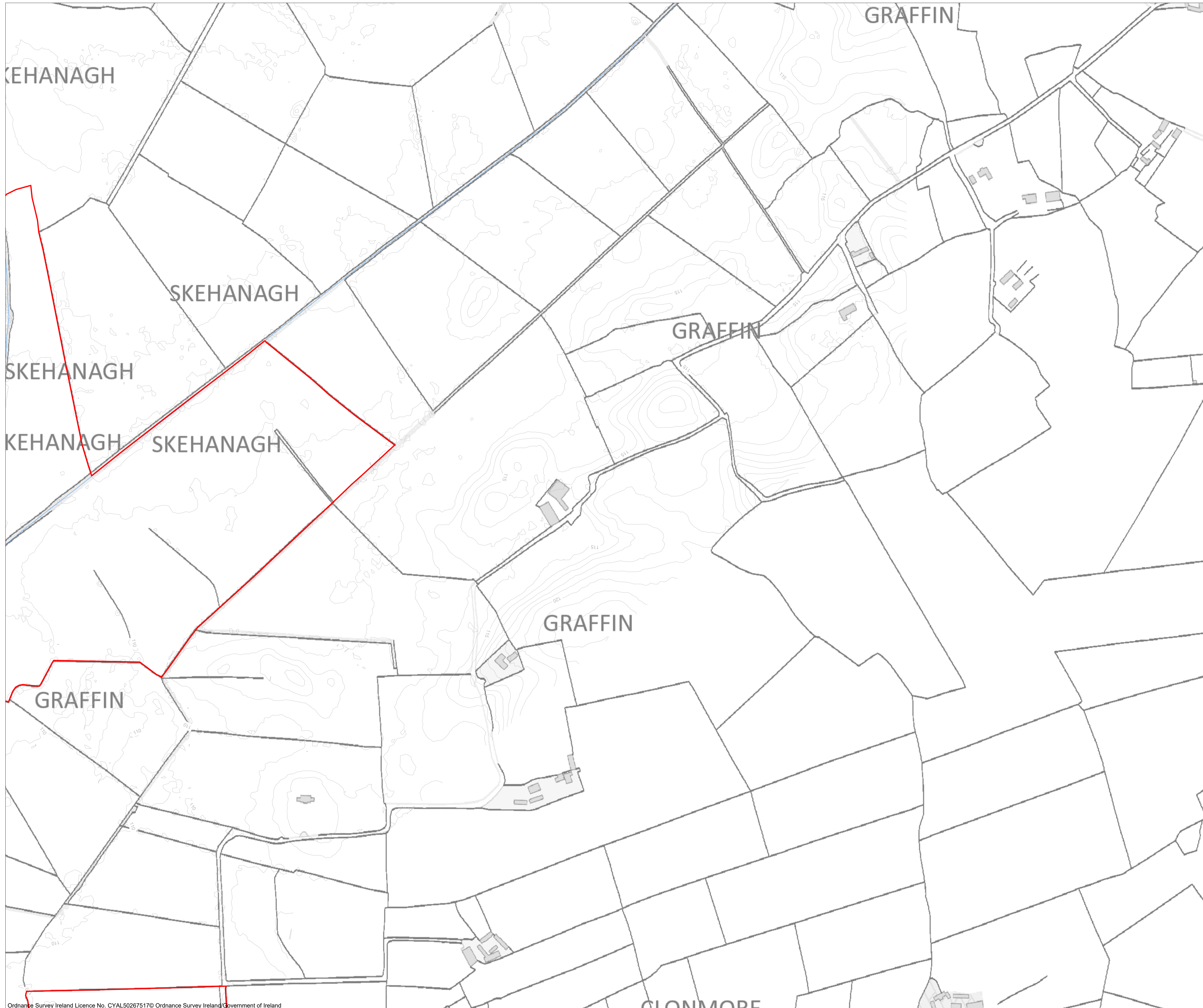
T01
ITM 613427, 676731
Top of Foundation
Level - 112m O.D.

T02
ITM 613113, 676241
Top of Foundation
Level - 110m O.D.

PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Site Layout 1:2,500 sheet 1 of 5		
PROJECT No.: 220310	DRAWING No.: 220310 - 07	SCALE: 1:2,500 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023
REVISION: P01		
OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458		



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GRAFFIN

SKEHANAGH

SKEHANAGH

SKEHANAGH SKEHANAGH

SKEHANAGH

GRAFFIN

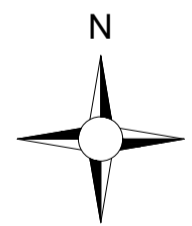
GRAFFIN

GRAFFIN

CLONMORE

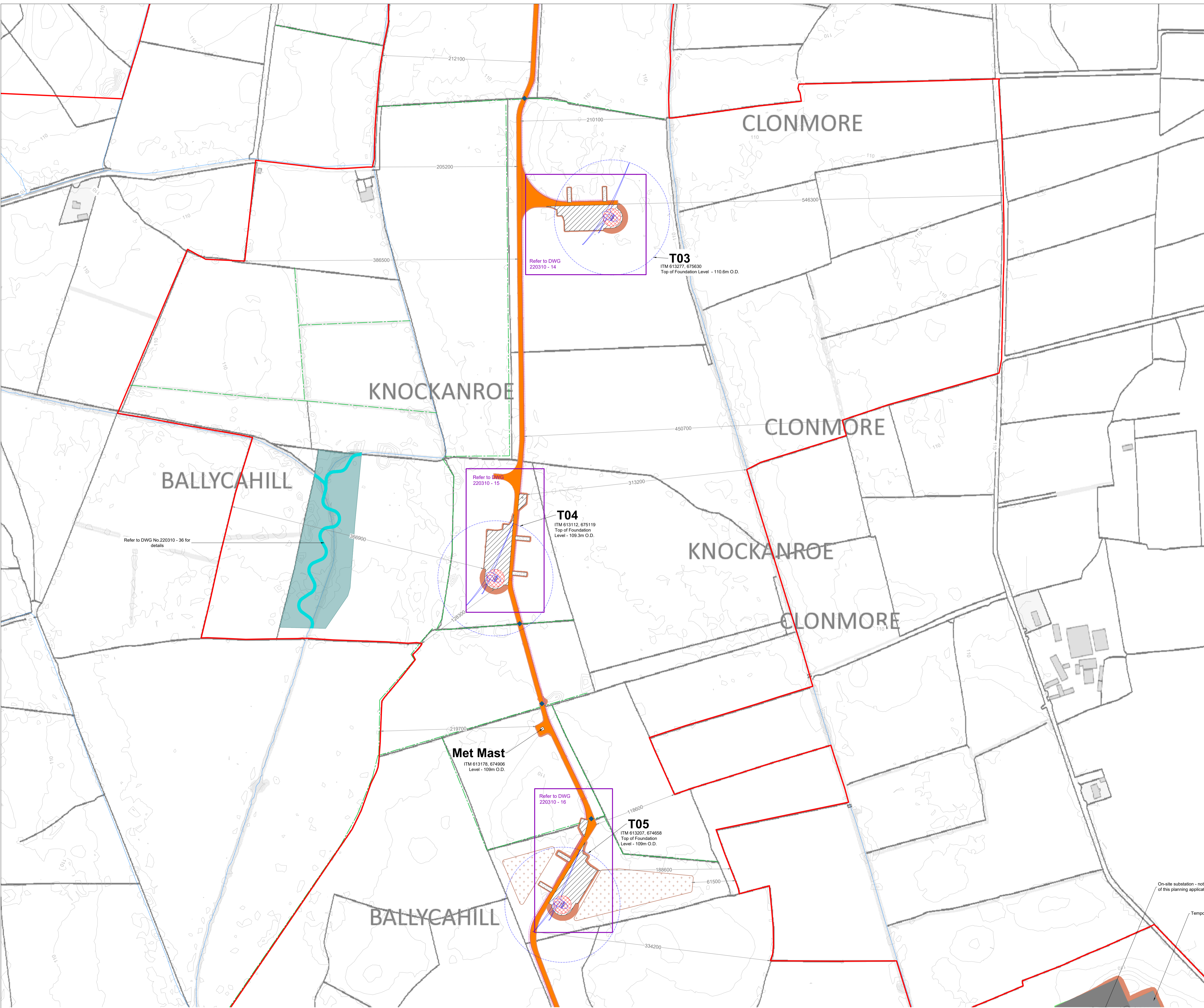
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Planning Application Boundary
 - River/Stream



PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Site Layout 1:2,500 sheet 2 of 5		
PROJECT No.: 220310	DRAWING No.: 220310 - 08	SCALE: 1:2,500 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
OS SHEET No.:		REVISION: P01
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - Blade Fingers
 - Hardstand
 - Turbine Foundation
 - Proposed Max. Turbine Sweep Area
 - Cut
 - Fill
 - Woodland conservation Area
 - River restoration
 - River/Stream
 - Spoil Management Areas
 - Internal Electrical Cable Trench
 - Drains
 - Culvert Crossing

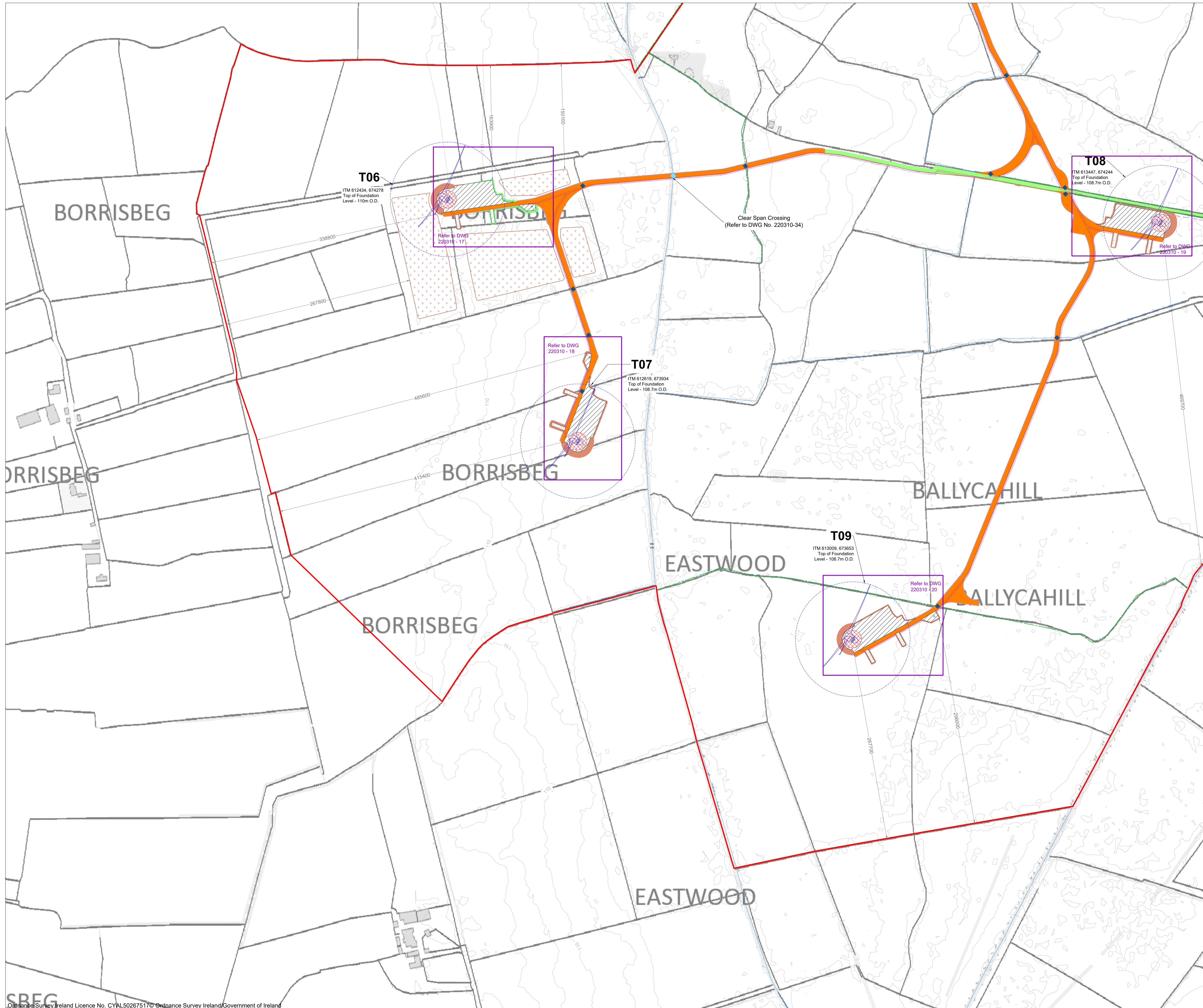
PROJECT TITLE:
Borrisbeg Renewable Energy Development

DRAWING TITLE:
Site Layout 1:2,500 sheet 3 of 5

PROJECT No.: 220310	DRAWING No.: 220310 - 09	SCALE: 1:2,500 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023
OS SHEET No.:		REVISION: P01
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Blade Fingers
 - Hardstand
 - Turbine Foundation
 - Proposed Max. Turbine Sweep Area
 - Cut
 - Fill
 - Spoil Management Areas
 - River/Stream
 - Internal Electrical Cable Trench
 - Clear Span Crossing (Refer to DWG No. 220310-34)
 - Drains
 - Culvert Crossing
 - 33 kV Cable

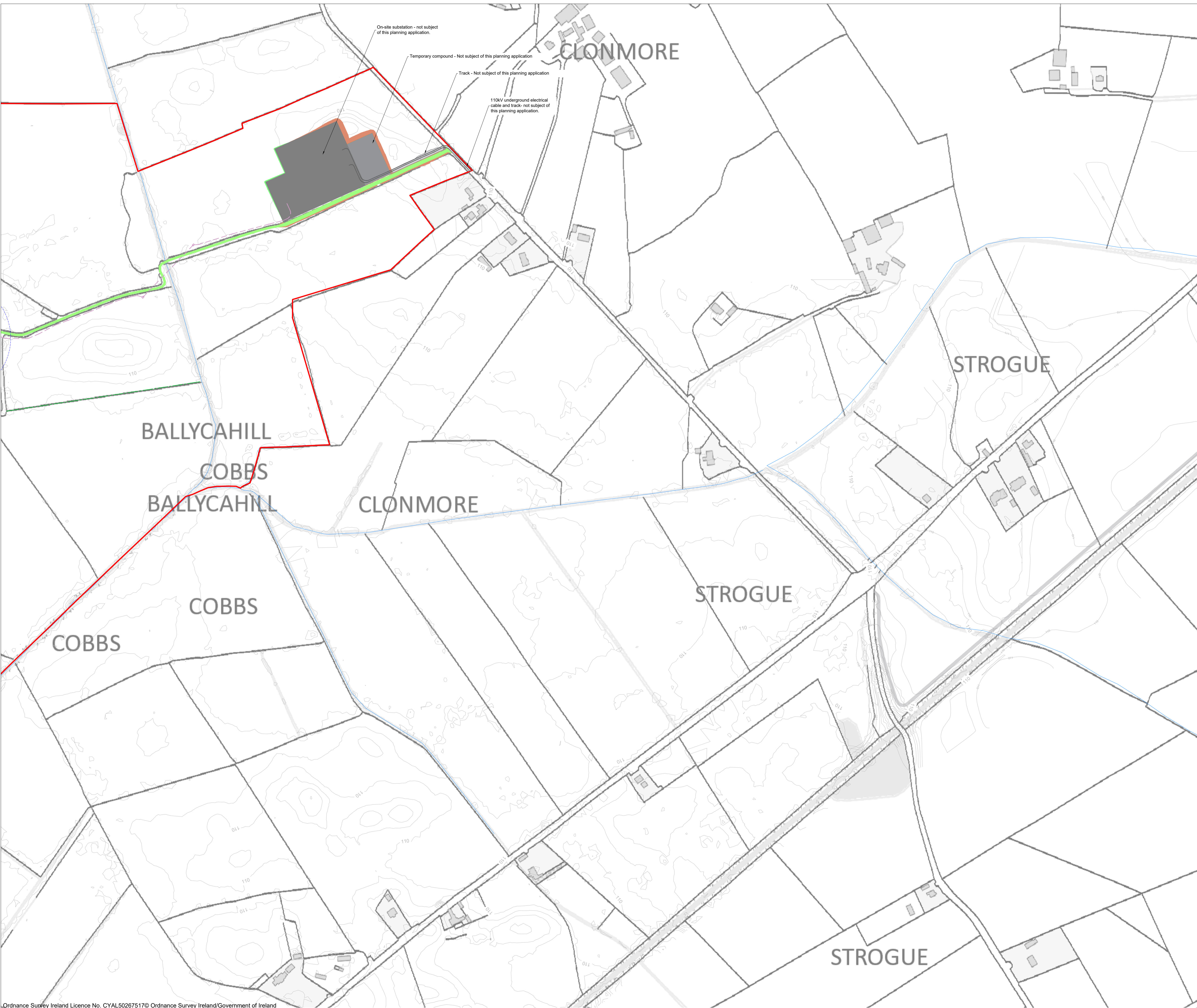
PROJECT TITLE:
Borrisbeg Renewable Energy Development

DRAWING TITLE:
Site Layout 1:2,500 sheet 4 of 5

PROJECT No.: 220310	DRAWING No.: 220310 - 10	SCALE: 1:2,500 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023
OS SHEET No.:		4341, 4342, 4399, 4400, 4457, 4458



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On-site substation - not subject of this planning application.

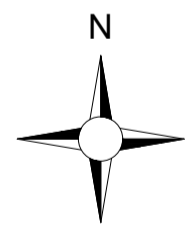
Temporary compound - Not subject of this planning application

Track - Not subject of this planning application

110KV underground electrical cable and track - not subject of this planning application.

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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Cut
 - Fill
 - River/Stream
 - Drains
 - 33 KV Cable



PROJECT TITLE:
Borrisbeg Renewable Energy Development

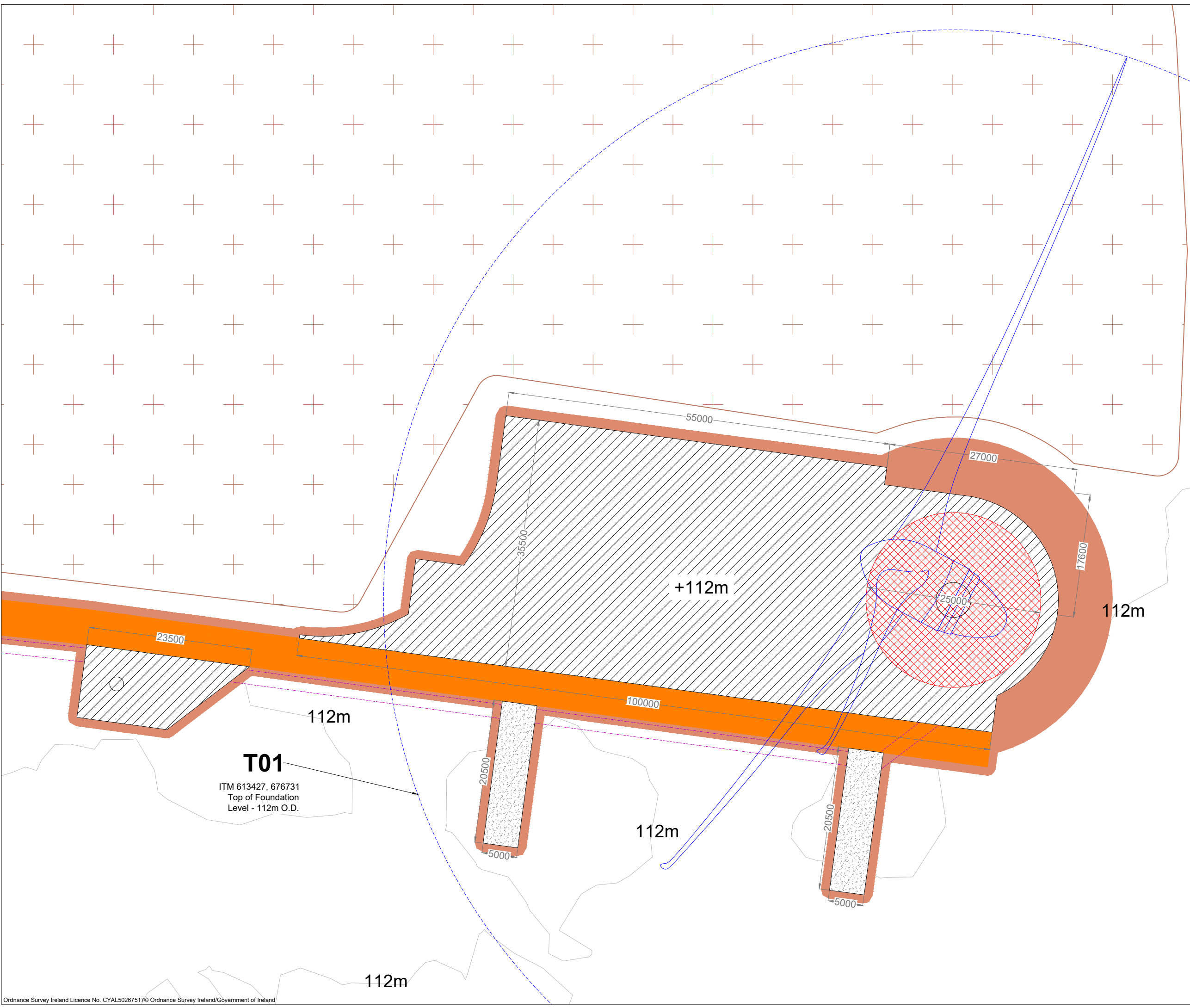
DRAWING TITLE:
Site Layout 1:2,500 sheet 5 of 5

PROJECT No.: 220310	DRAWING No.: 220310 - 11	SCALE: 1:2,500 @ A1
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01

OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458



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T01
 ITM 613427, 676731
 Top of Foundation
 Level - 112m O.D.

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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

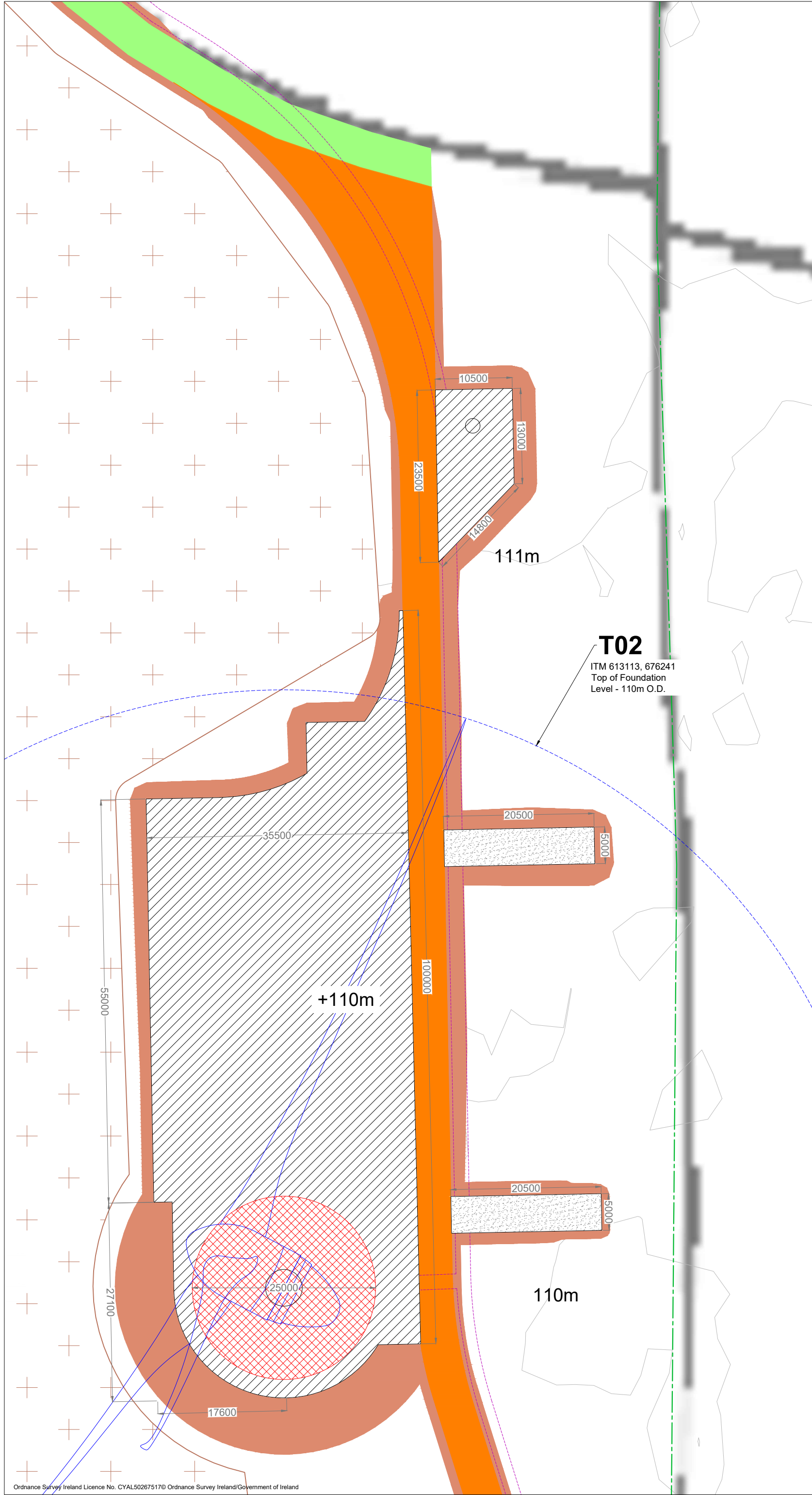
- Drawing Legend**
- Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Spoil Management Areas
 - Internal Electrical Cable Trench



PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Turbine 01 Layout		
PROJECT No.: 220310	DRAWING No.: 220310 - 12	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01
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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
9. Roads to follow existing ground level.

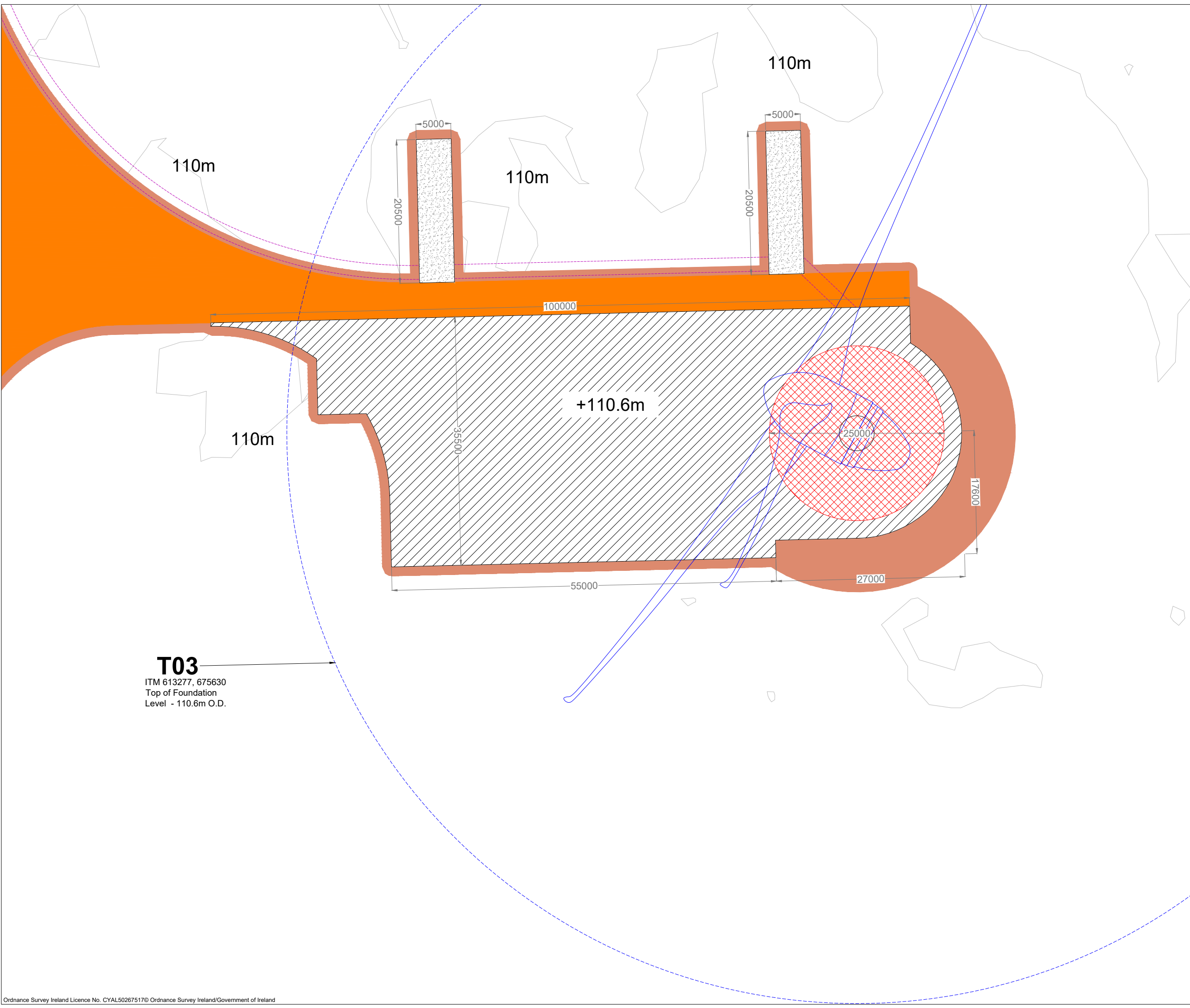
- Drawing Legend**
- Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Spoil Management Areas
 - Internal Electrical Cable Trench
 - Drains
 - Drain 10m Buffer

T02
 ITM 613113, 676241
 Top of Foundation
 Level - 110m O.D.

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Turbine 02 Layout			
PROJECT No.: 220310	DRAWING No.: 220310 - 13	SCALE: 1:500 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION:. P01
OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458			



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T03
 ITM 613277, 675630
 Top of Foundation
 Level - 110.6m O.D.

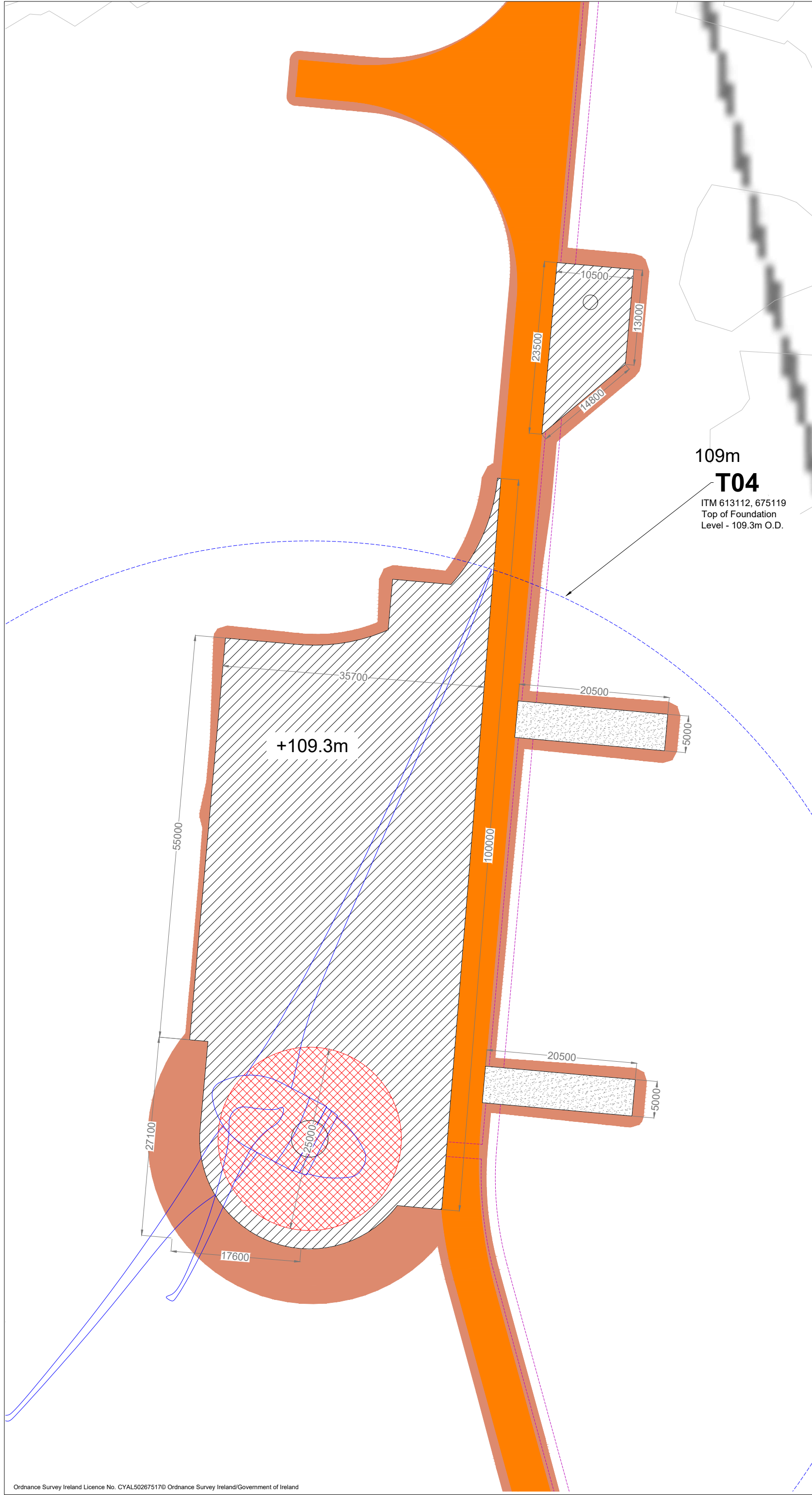
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Internal Electrical Cable Trench

PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Turbine 03 Layout		
PROJECT No.: 220310	DRAWING No.: 220310 - 14	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
OS SHEET No.:		4341, 4342, 4399, 4400, 4457, 4458



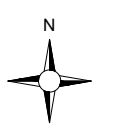
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 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

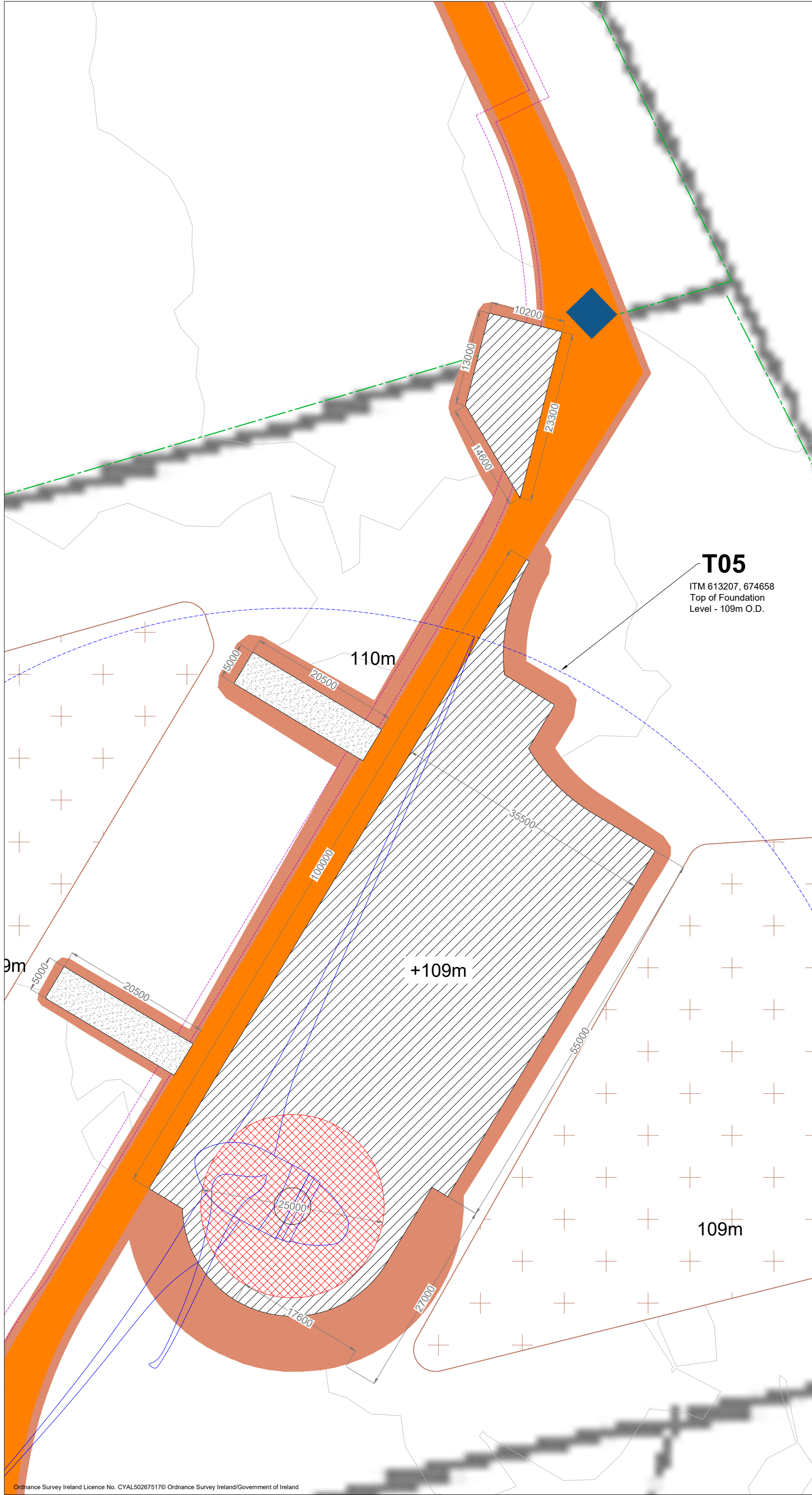
- Drawing Legend**
- Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Internal Electrical Cable Trench
 - Drain 10m Buffer

109m
T04
 ITM 613112, 675119
 Top of Foundation
 Level - 109.3m O.D.



PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Turbine 04 Layout		
PROJECT No.: 220310	DRAWING No.: 220310 - 15	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
OS SHEET No.:		P01
4341, 4342, 4399, 4400, 4457, 4458		





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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Internal Electrical Cable Trench
 - Spoil Management Areas
 - Drains
 - Culvert Crossing

T05
 ITM 613207, 674658
 Top of Foundation
 Level - 109m O.D.













PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Turbine 05 Layout			
PROJECT No.: 220310	DRAWING No.: 220310 - 16	SCALE: 1:500 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023	REVISION: P01
OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458			



Project Design Drawing Notes

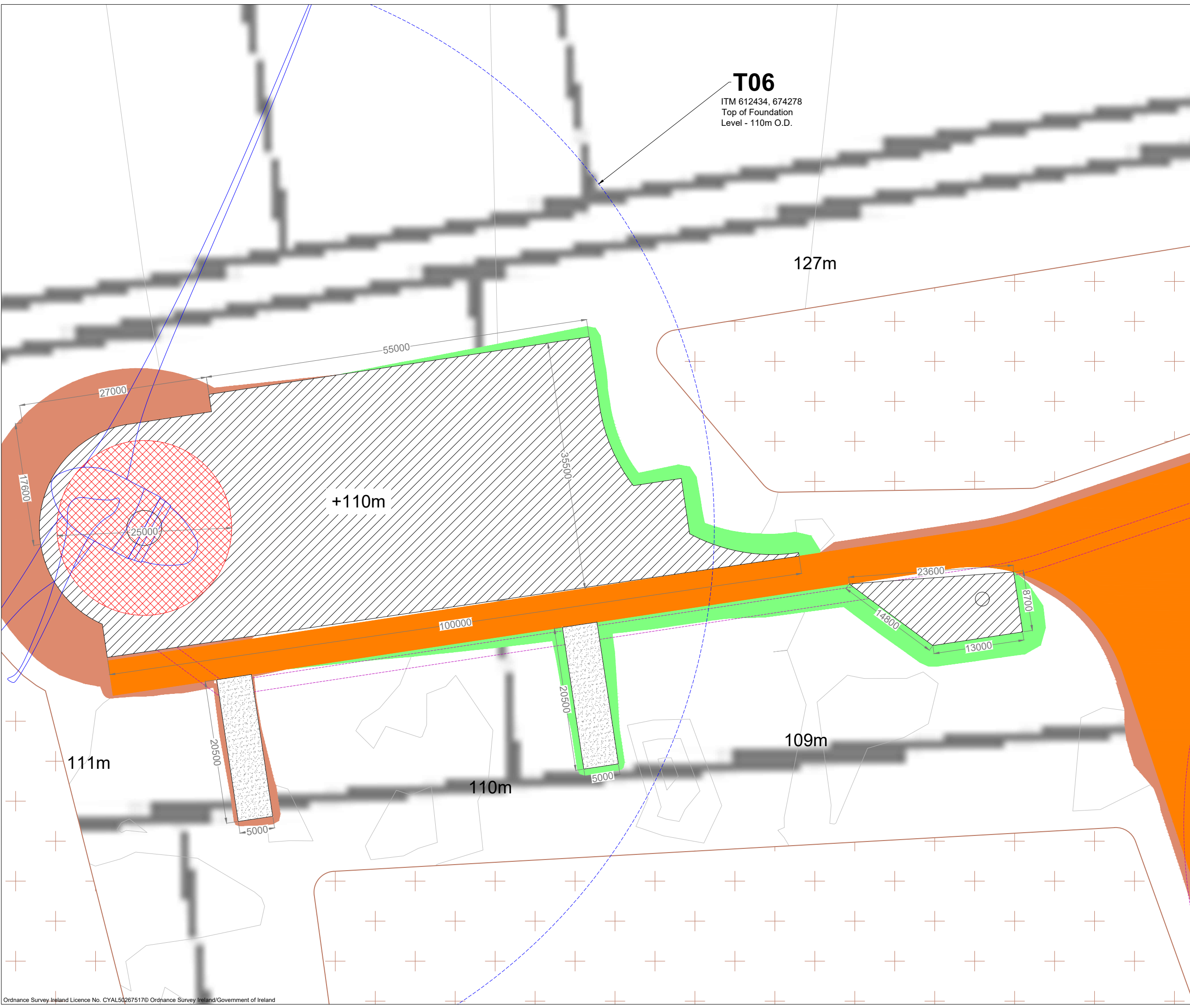
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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
9. Roads to follow existing ground level.

Drawing Legend

-  Existing Road to be Upgraded
-  Proposed Road
-  Assembly Areas
-  Hardstand
-  Turbine Foundation
-  Proposed Turbine Sweep Area
-  Cut
-  Fill
-  Spoil Management Areas
-  Internal Electrical Cable Trench

T06

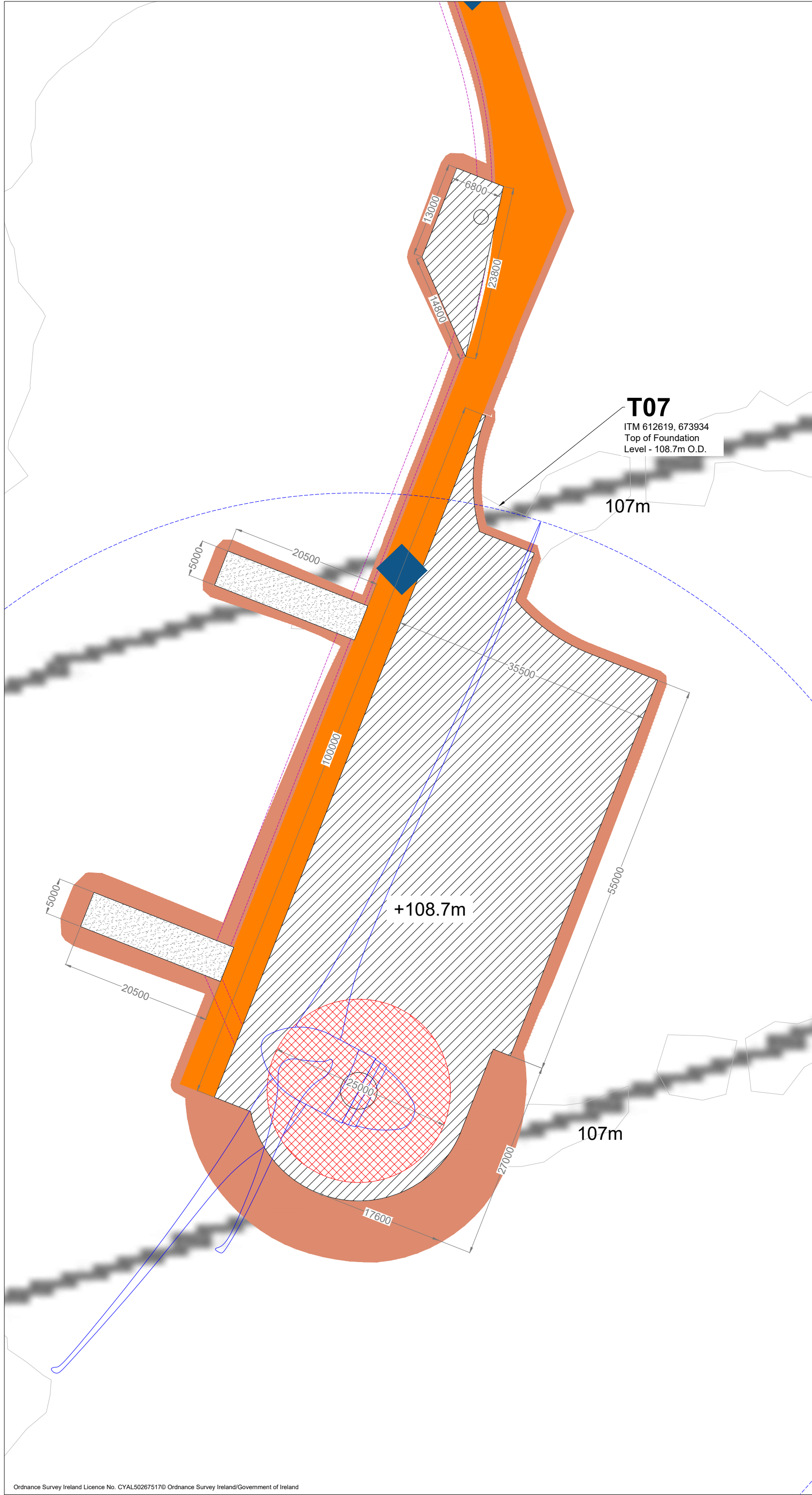
ITM 612434, 674278
Top of Foundation
Level - 110m O.D.



PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Turbine 06 Layout		
PROJECT No.: 220310	DRAWING No.: 220310 - 17	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01
OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458		

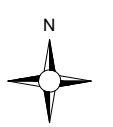


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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

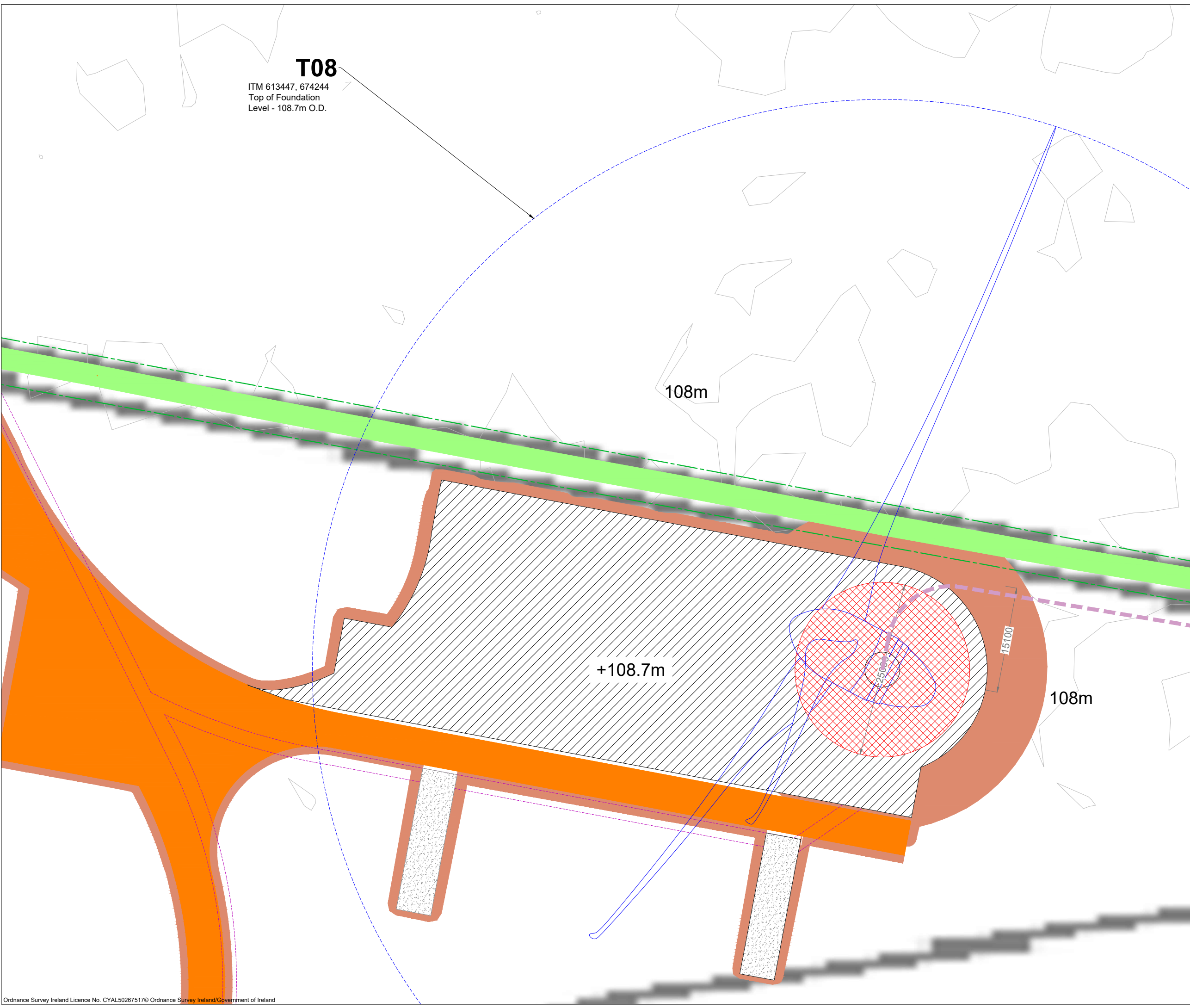
- Drawing Legend**
- Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - River/Stream
 - Internal Electrical Cable Trench
 - Culvert Crossing



PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Turbine 07 Layout		
PROJECT No.: 220310	DRAWING No.: 220310 - 18	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023
OS SHEET No.:		REVISION.: P01
4341, 4342, 4399, 4400, 4457, 4458		



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T08
 ITM 613447, 674244
 Top of Foundation
 Level - 108.7m O.D.

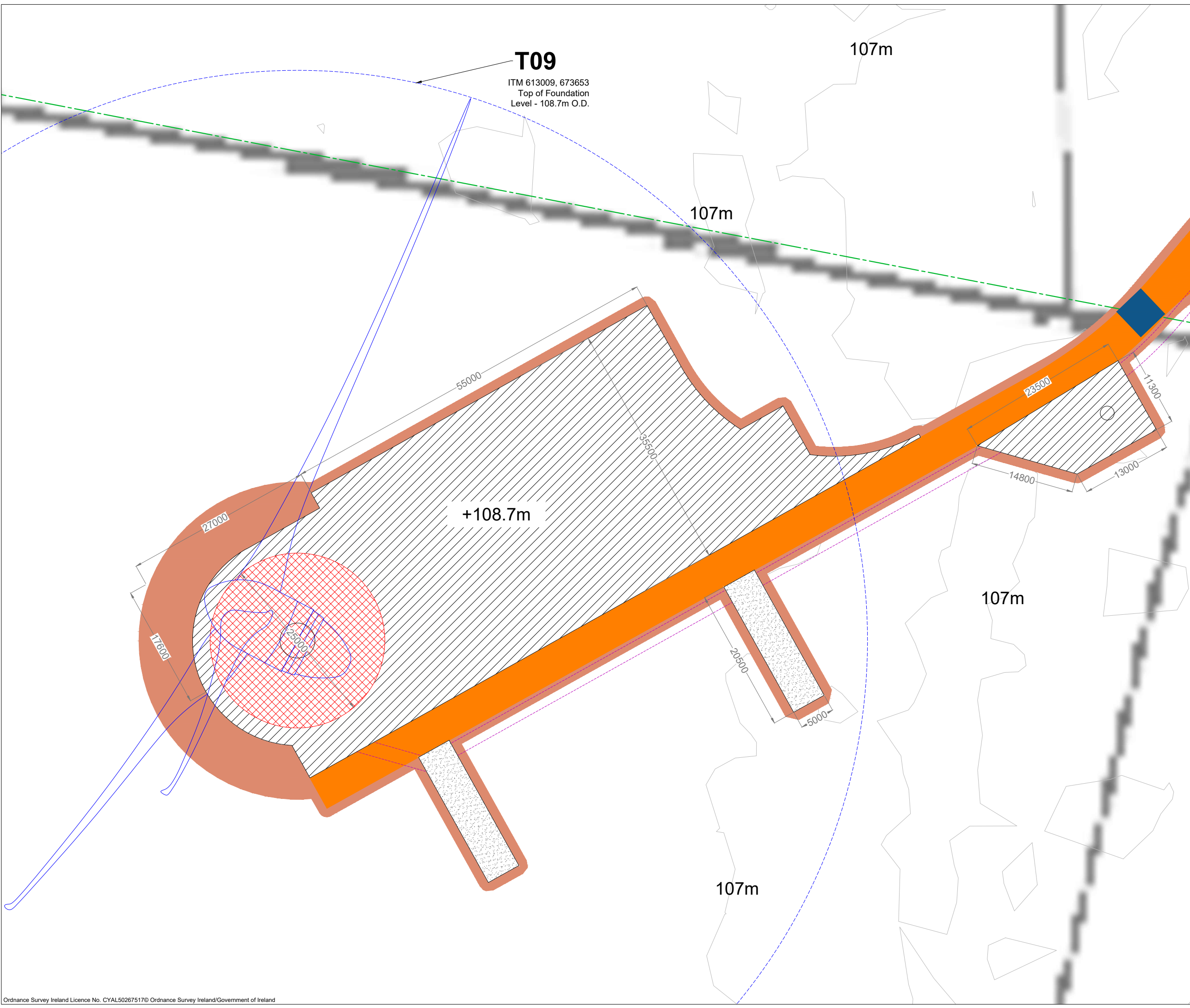
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 6. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the use or reliance upon this drawing.
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

- Drawing Legend**
- Existing Road to be Upgraded
 - Proposed Road
 - Assembly Areas
 - Hardstand
 - Turbine Foundation
 - Proposed Turbine Sweep Area
 - Cut
 - Fill
 - Internal Electrical Cable Trench
 - Drains
 - 33 kV Cable

PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Turbine 08 Layout		
PROJECT No.: 220310	DRAWING No.: 220310 - 19	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01
OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458		



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T09
 ITM 613009, 673653
 Top of Foundation
 Level - 108.7m O.D.

Project Design Drawing Notes

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6. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the use or reliance upon this drawing.
7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
9. Roads to follow existing ground level.

Drawing Legend

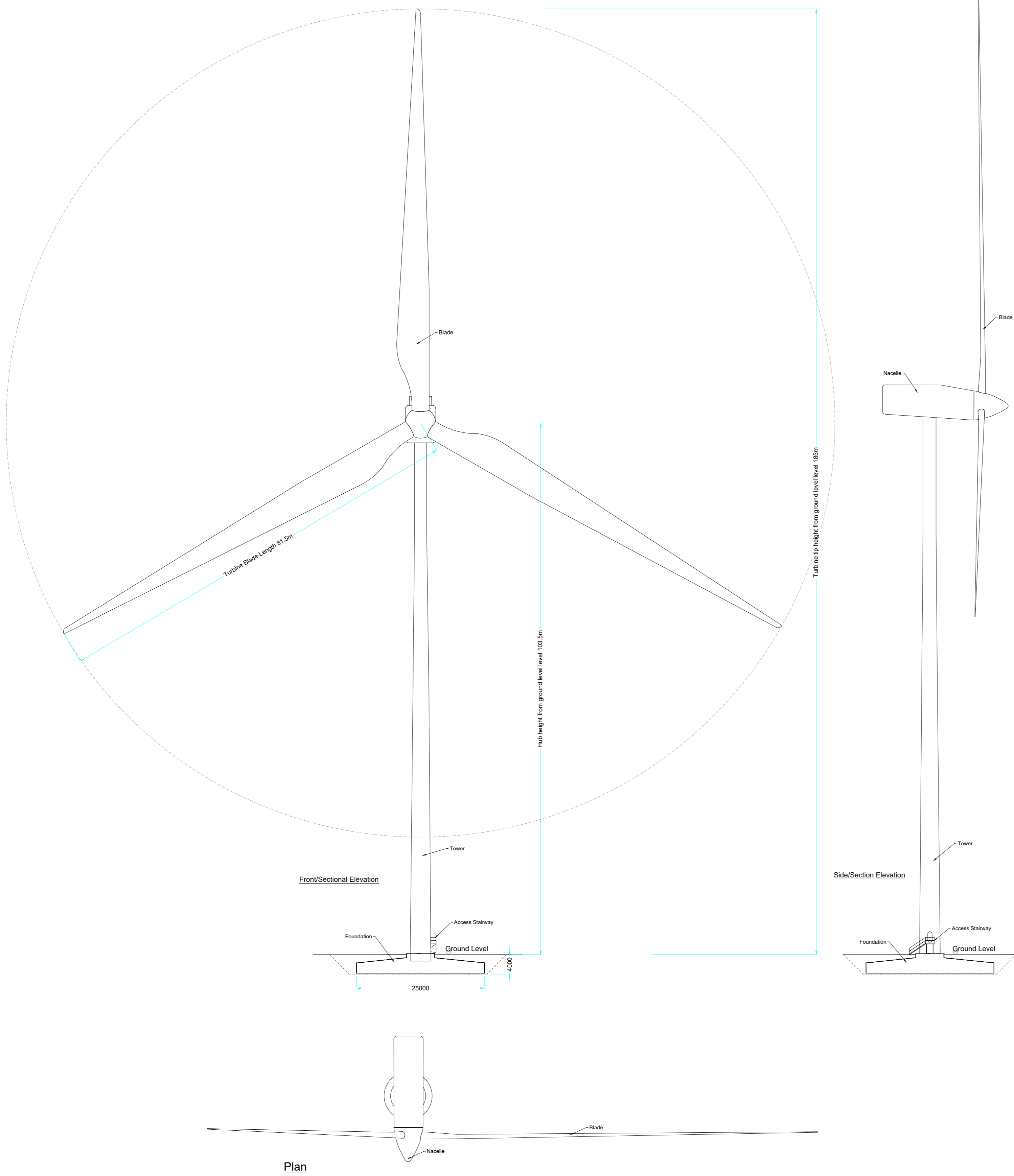
- Proposed Road
- Assembly Areas
- Hardstand
- Turbine Foundation
- Proposed Turbine Sweep Area
- Cut
- Fill
- Internal Electrical Cable Trench
- Drains
- Culvert Crossing



PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Turbine 09 Layout		
PROJECT No.: 220310	DRAWING No.: 220310 - 20	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023
		REVISION: P01
OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458		



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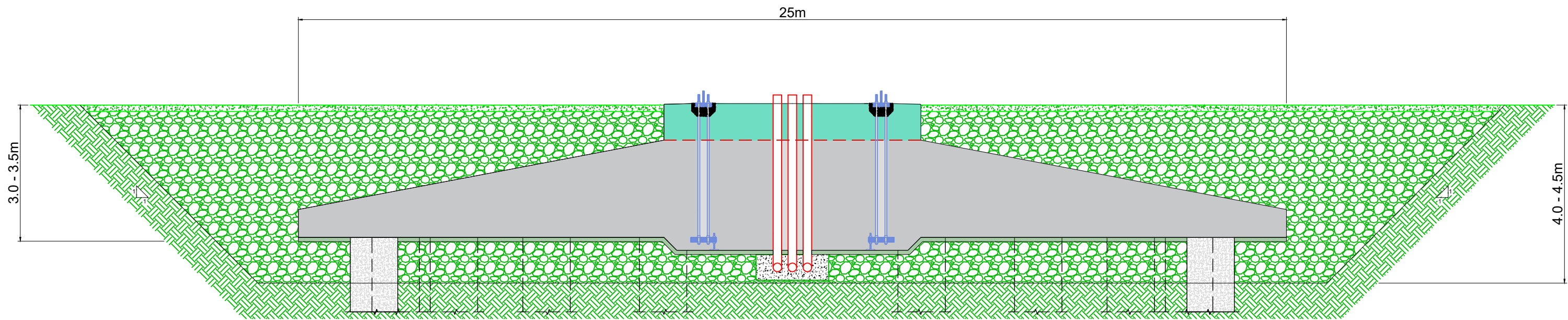


Drawing Notes
 1. Proposed wind turbines to have a maximum ground to blade tip height of 185m, blade length of 81.5m and hub height of 103.5m
 2. Ground level represents the top of turbine foundation.

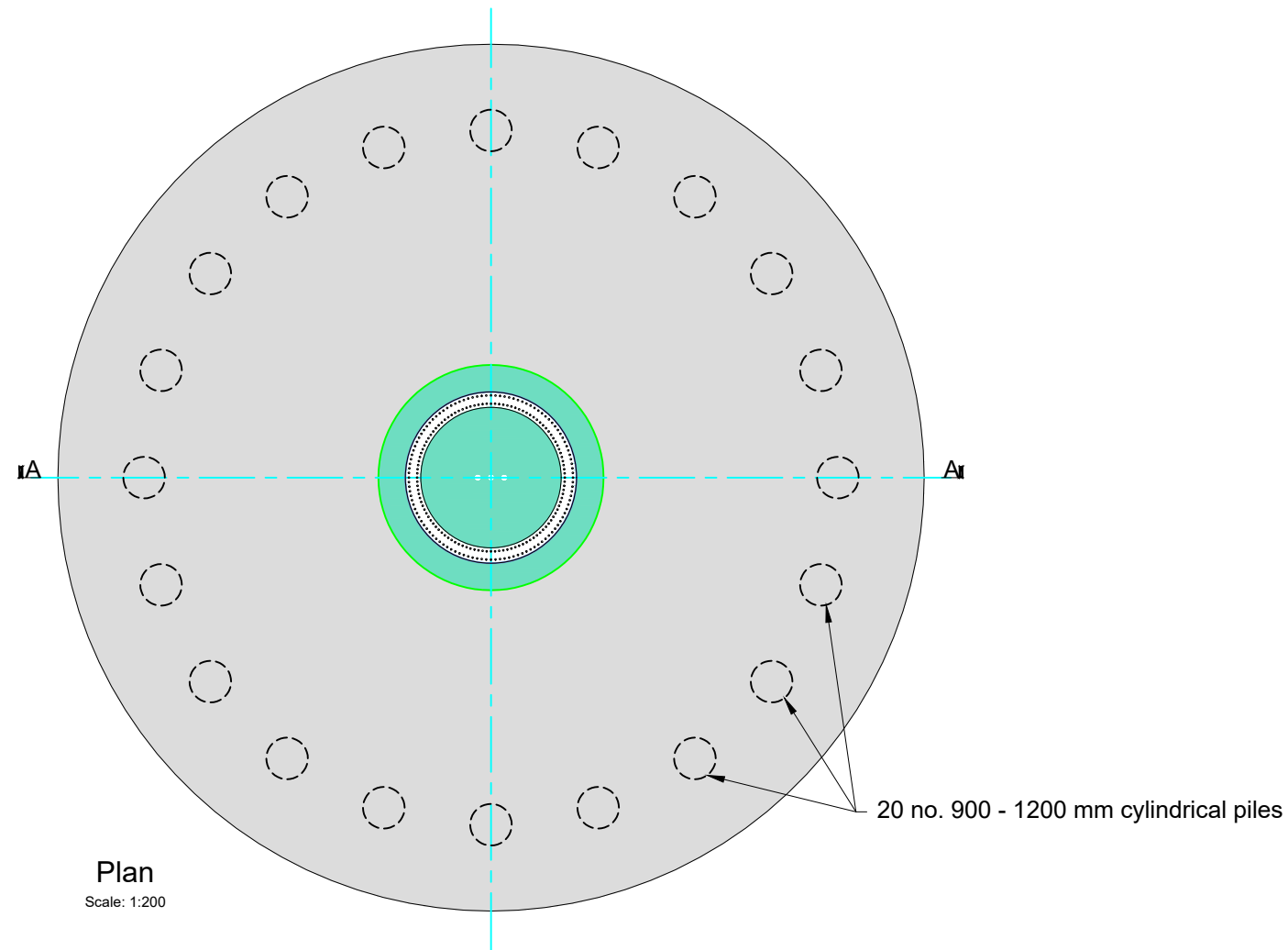
PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Wind Turbine Elevations & Plan			
PROJECT No.: 220310	DRAWING No.: 220310 - 21	SCALE: 1:500 @ A1	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION.: P01



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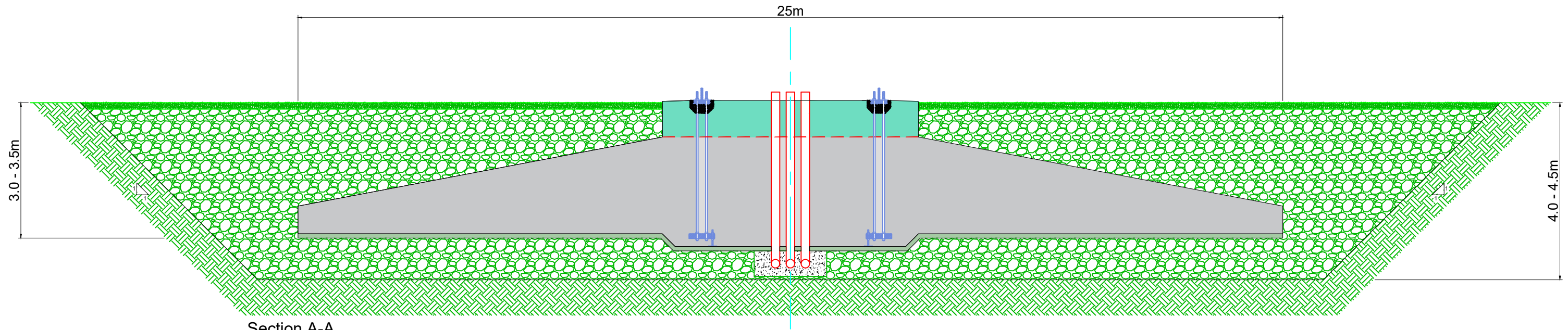
Section A-A
Scale 1:100



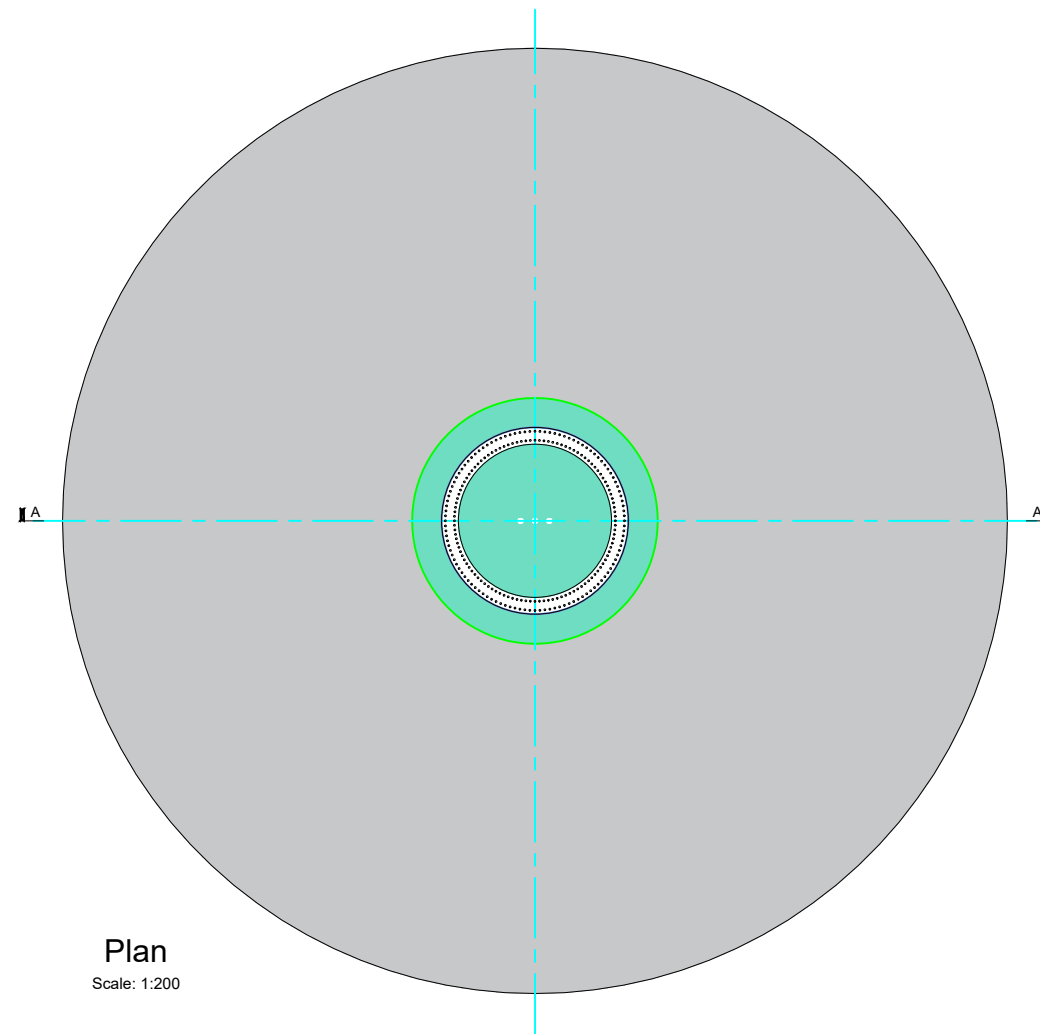
Plan
Scale: 1:200

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Bored Pile Foundations Details			
PROJECT No.: 220310	DRAWING No.: 220310 - 22	SCALE: As shown @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION:. P01





Section A-A
Scale 1:100



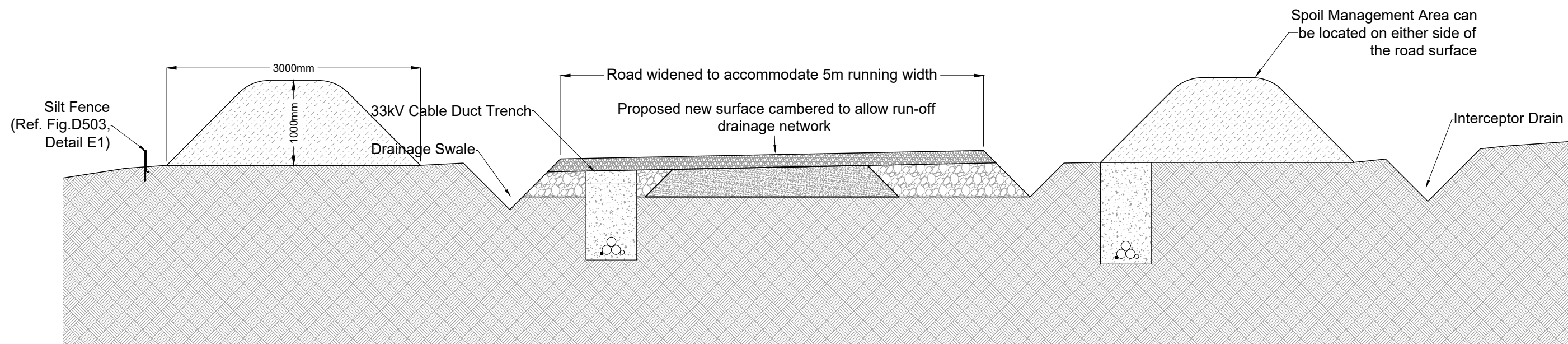
Plan
Scale: 1:200

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Gravity Foundations Details			
PROJECT No.: 220310	DRAWING No.: 220310 - 23	SCALE: As shown @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION:. P01



Project Design Drawing Notes

1. Widening can occur to either side of existing roads dependent on site conditions.
2. Depths of road fill to vary dependent on site conditions.
3. The cabling may be placed on either side of the roads, on both sides of the road or within the road. The exact configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.
4. The placement of the spoil berm will be avoided within the flood zone.
5. Drawings issued are for planning application purposes only.
6. Drawings not to be used for construction/contract conditions.
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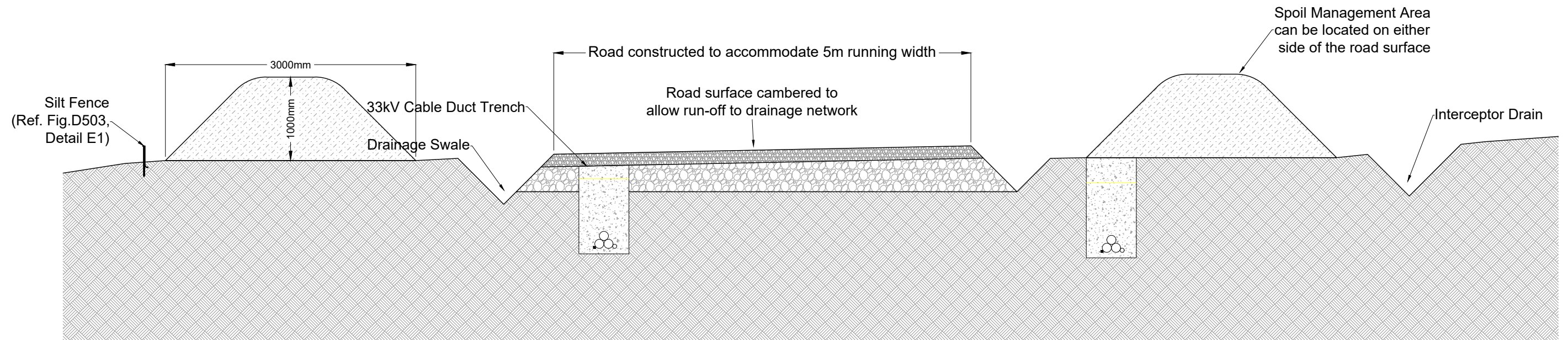
Existing Excavated Road Widening Section

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Upgrade of Existing Excavated Access Roads Section			
PROJECT No.: 220310	DRAWING No.: 220310 - 24	SCALE: 1:50 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 06.12.2023	REVISION: P01



Project Design Drawing Notes

1. Widening can occur to either side of existing roads dependent on site conditions.
2. Depths of road fill to vary dependent on site conditions.
3. The cabling may be placed on either side of the roads, on both sides of the road or within the road. The exact configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.
4. The placement of the spoil berm will be avoided within the flood zone
5. Drawings issued are for planning application purposes only.
6. Drawings not to be used for construction/contract conditions.
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10. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the use or reliance upon these drawings.



Excavated Road Section

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: New excavate and replace access road section			
PROJECT No.: 220310	DRAWING No.: 220310 - 25	SCALE: 1:50 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 06.12.2023	REVISION: P01





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 6. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the use or reliance upon this drawing.
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Roads to follow existing ground level.

Drawing Legend

- Proposed Road
- Cut
- Fill

PROJECT TITLE:
Borrisbeg Renewable Energy Development

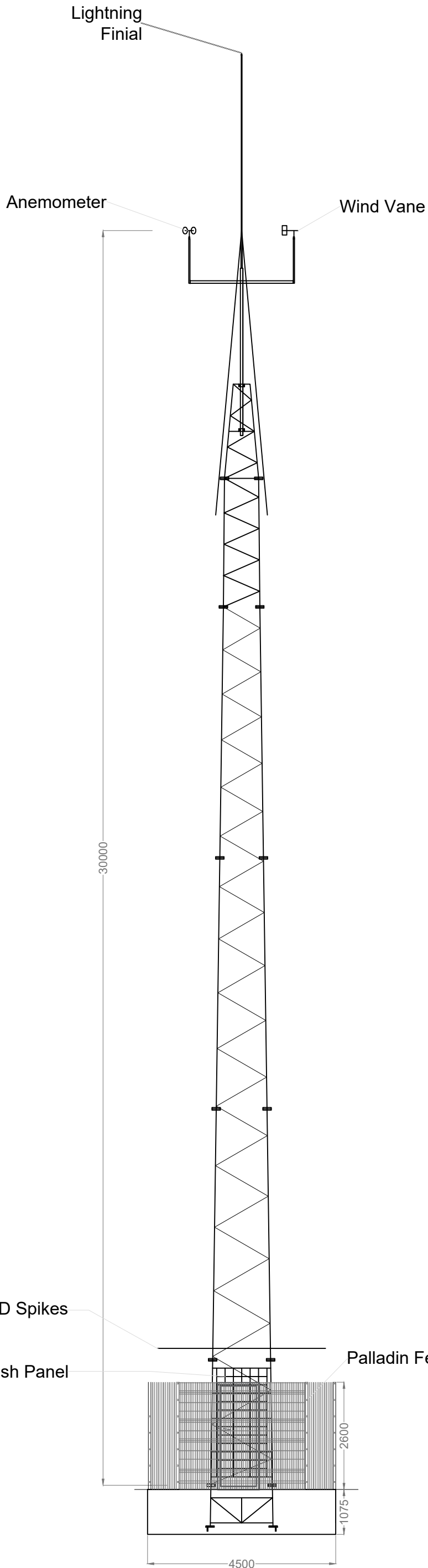
DRAWING TITLE:
Temporary Construction Compound

PROJECT No.: 220310	DRAWING No.: 220310 - 26	SCALE: 1:500 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION:. P01

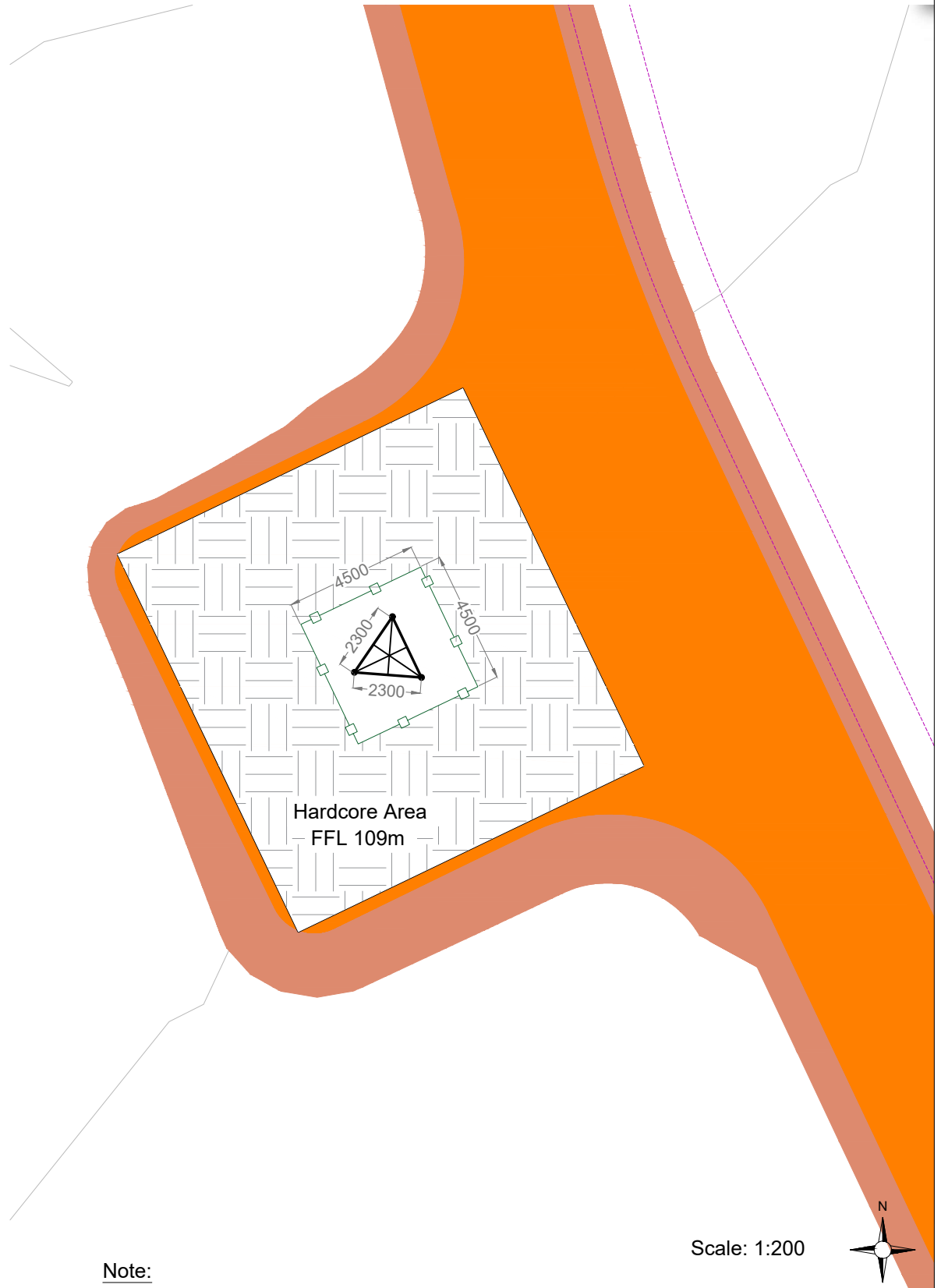
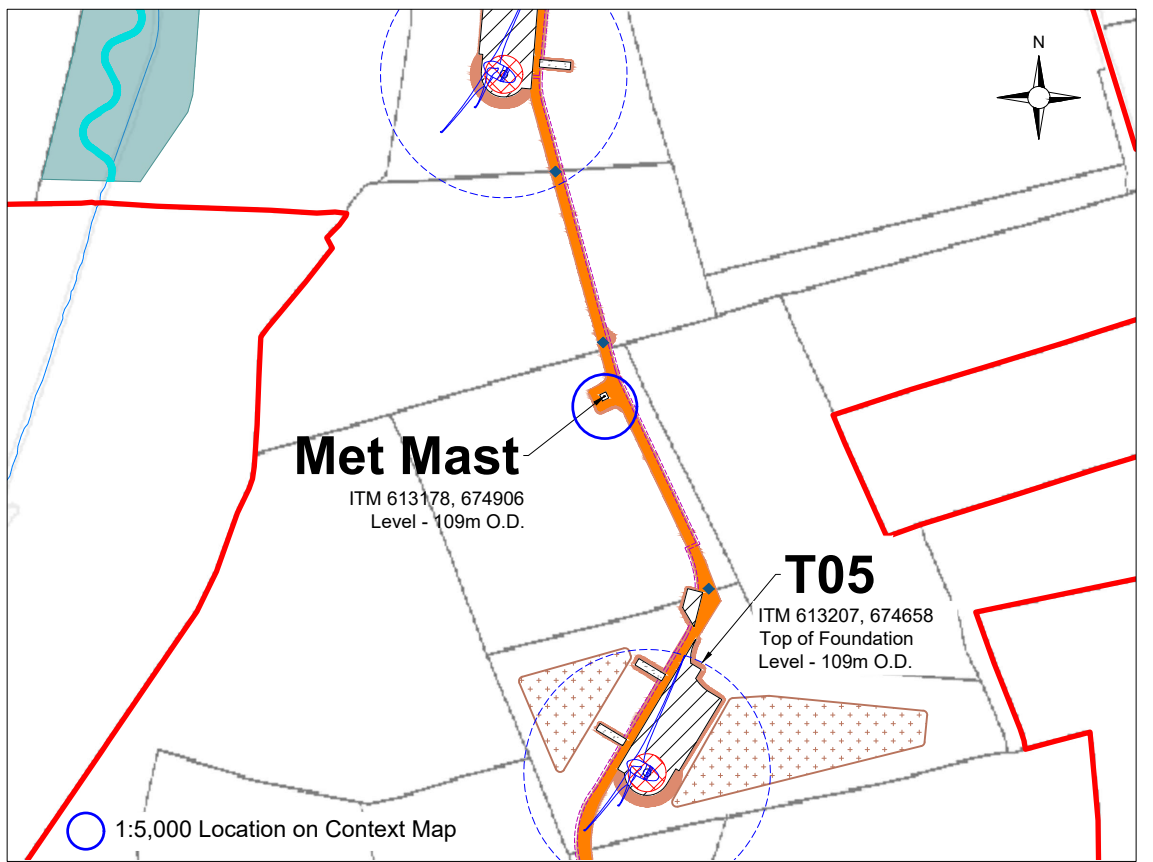
OS SHEET No.: 4341, 4342, 4399, 4400, 4457, 4458



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Mast Elevation
Scale: 1:100

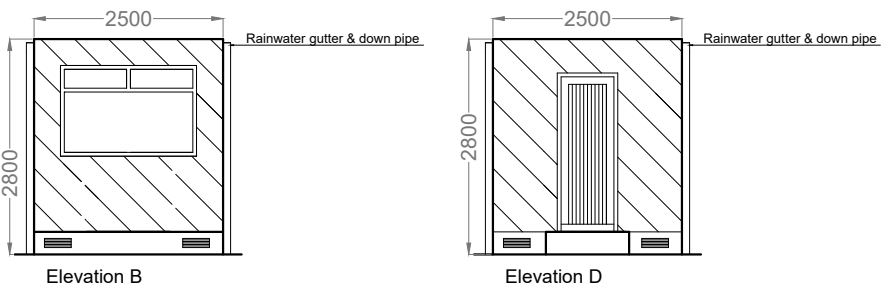
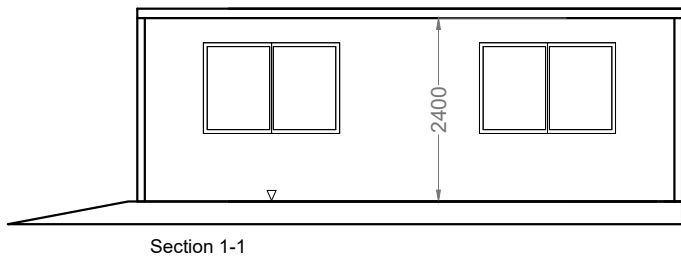
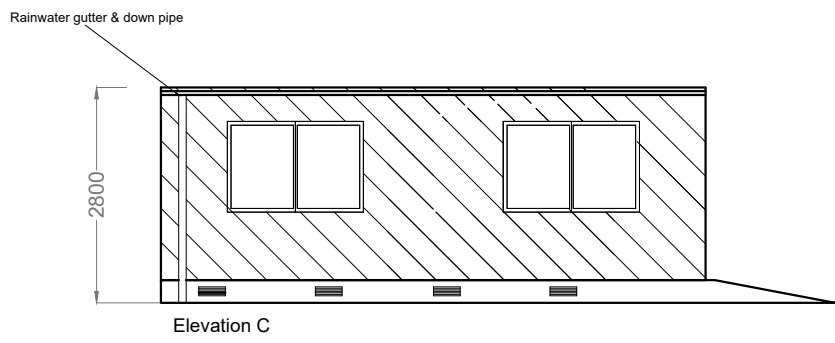
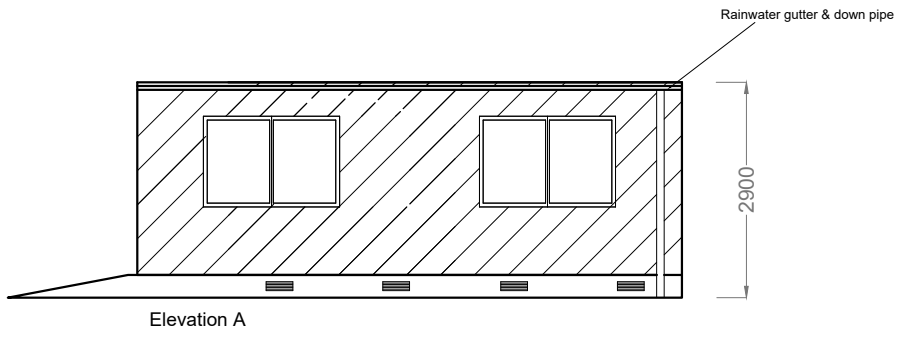
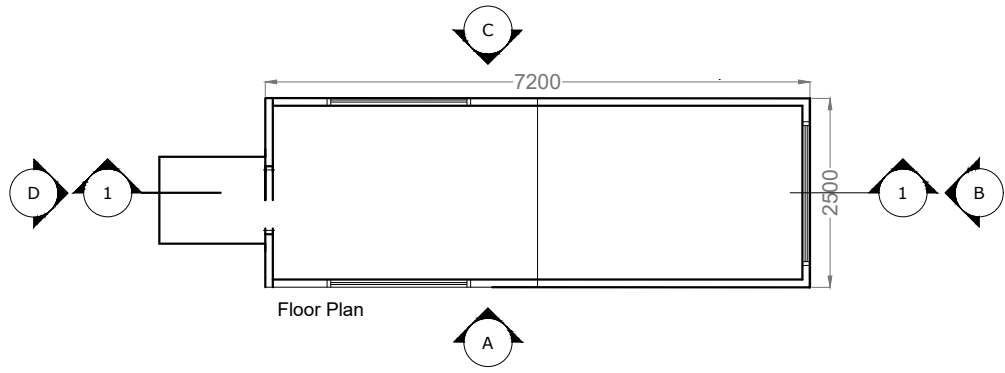


Note:

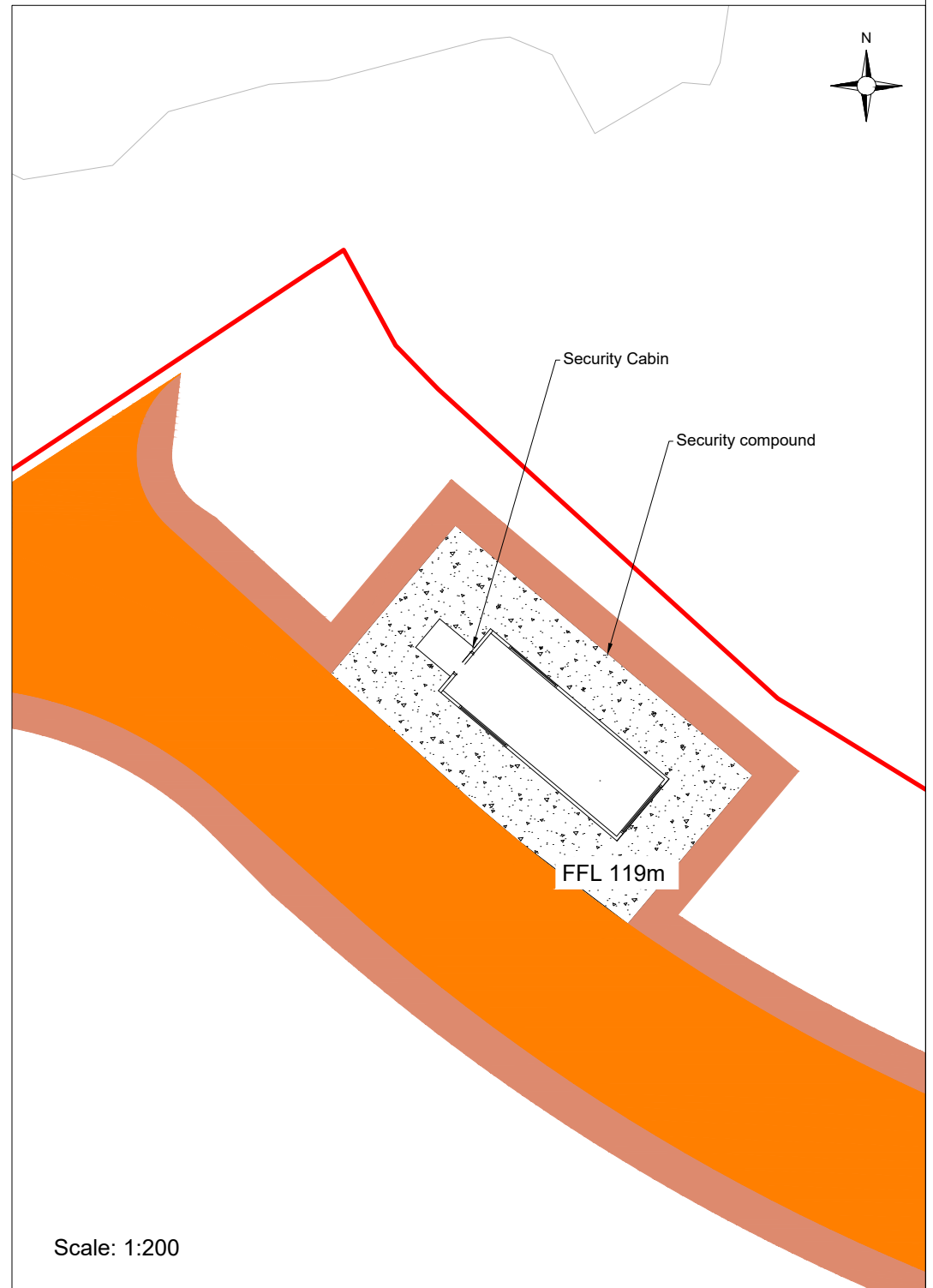
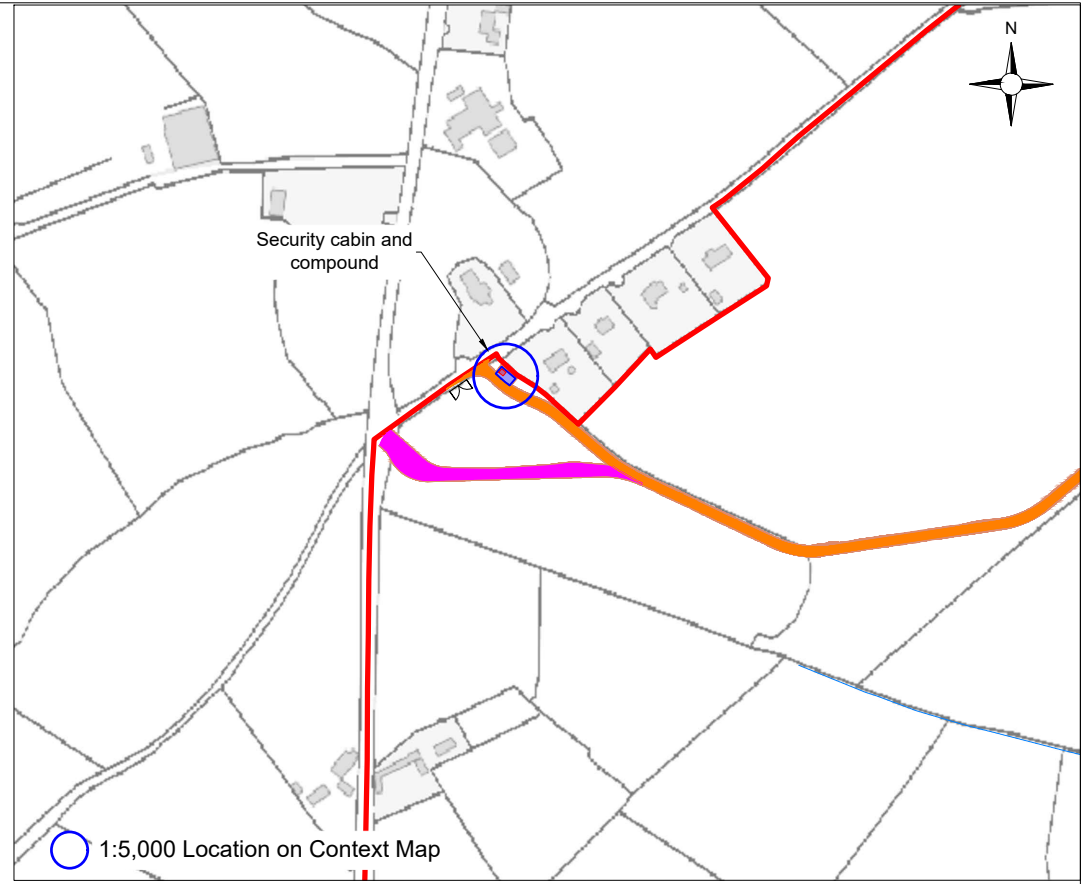
1. Met Mast exact detail may differ depending on the selected manufacturer.
2. Finished level of the mast to match ground conditions.
3. Mast/foundation orientation to be confirmed with met mast supplier.
4. Earthing and ducting requirements to be confirmed with met mast supplier and forwarded to foundation designer

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Met Mast			
PROJECT No.: 220310	DRAWING No.: 220310 - 27	SCALE: As shown @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023	REVISION: P01

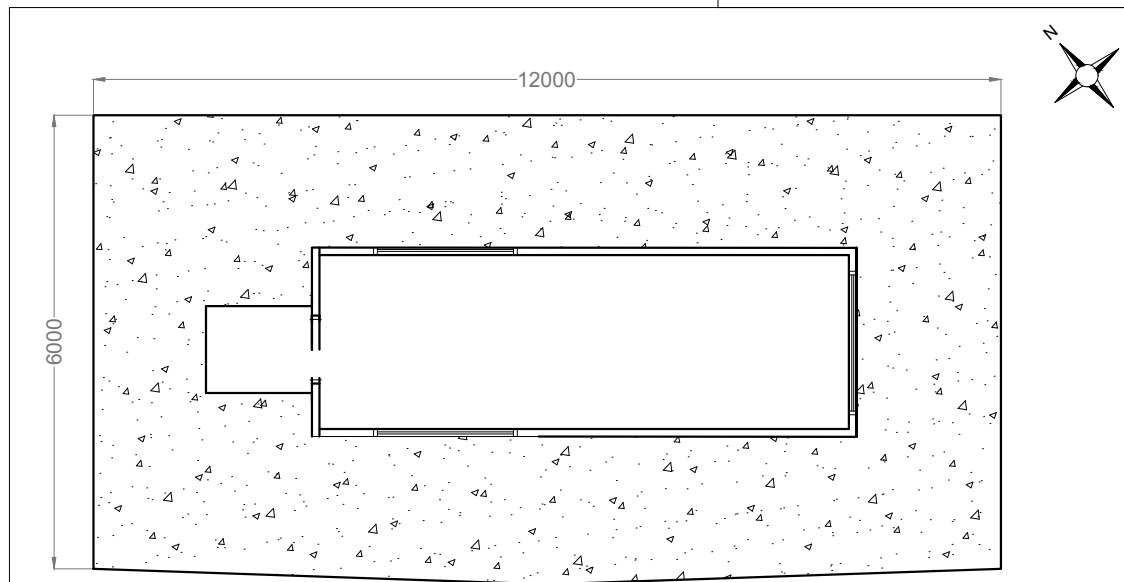




Scale: 1:100



Scale: 1:200



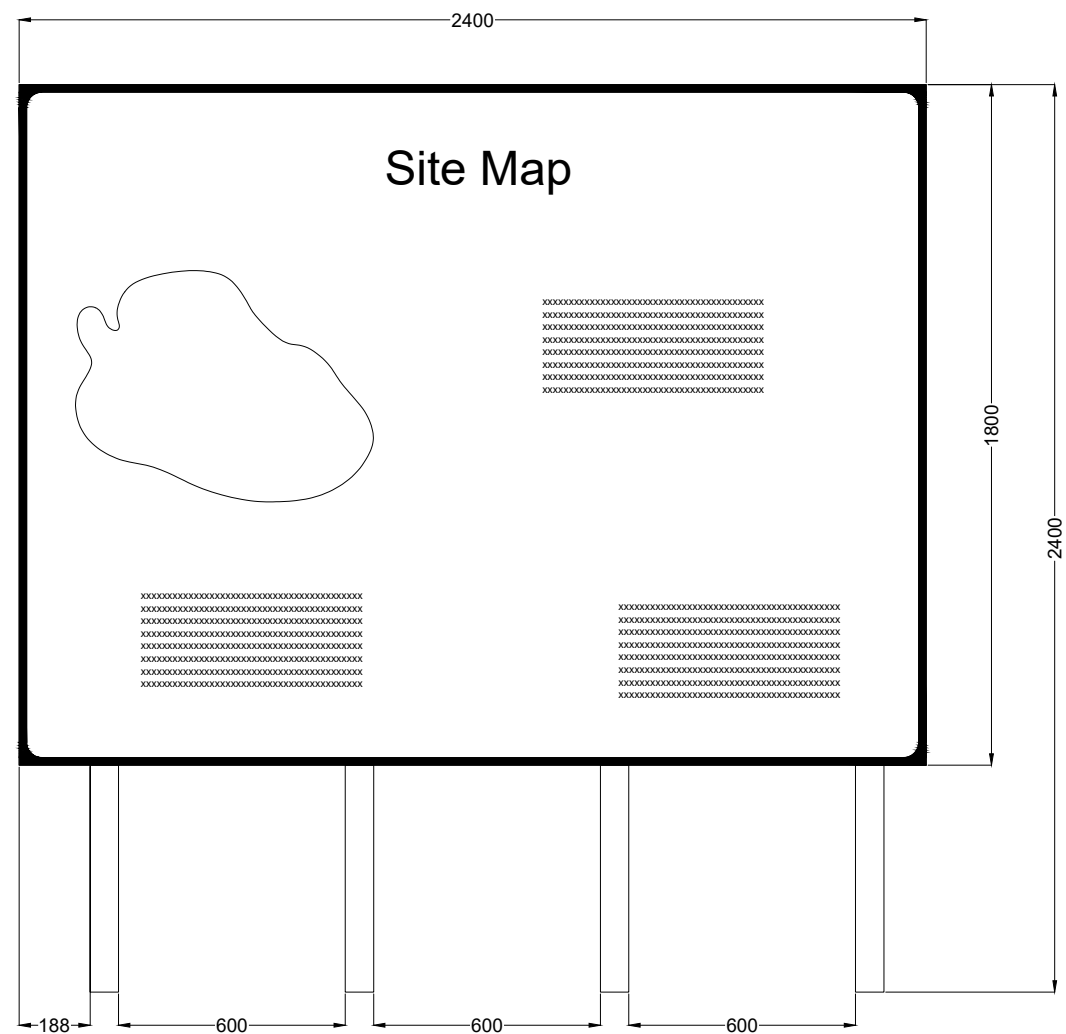
Scale: 1:100

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Standard Security Cabin & Compound			
PROJECT No.: 220310	DRAWING No.: 220310 - 28	SCALE: As shown @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION: P01

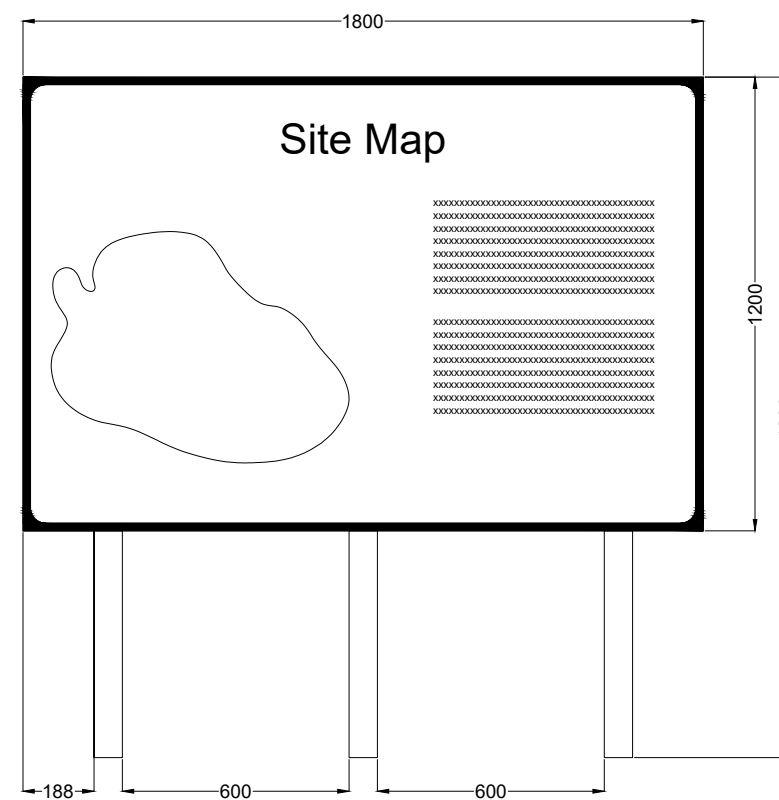


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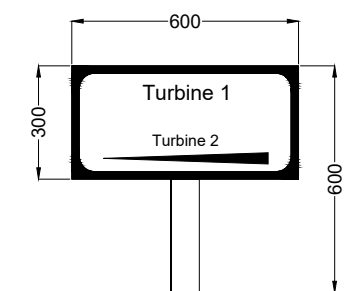
Note
For illustrative purposes only
exact details to be confirmed



Signage Type A - Waypoint Map Signage



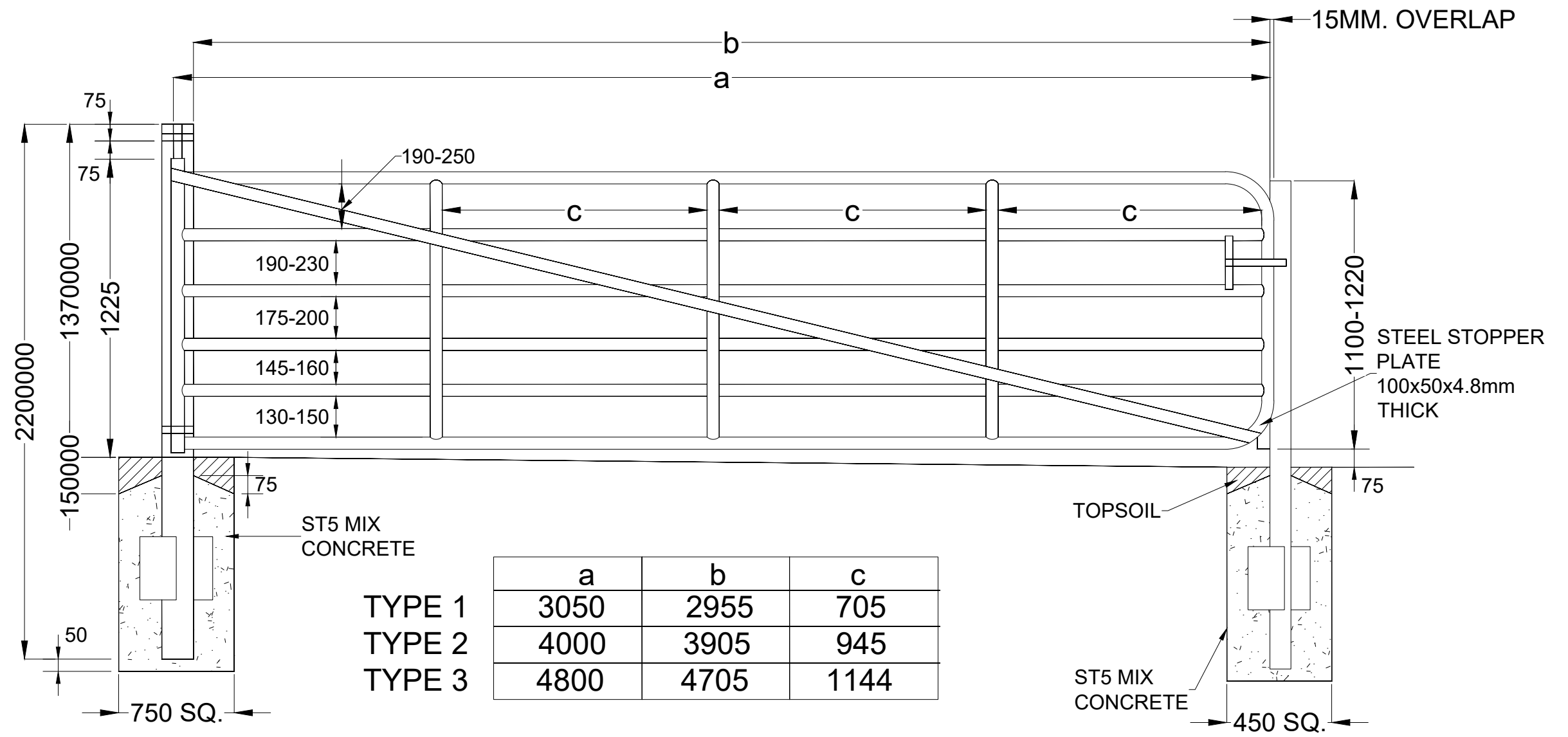
Signage Type B -Entry Point Signage



Signage Type C - Way Point Direction Signage

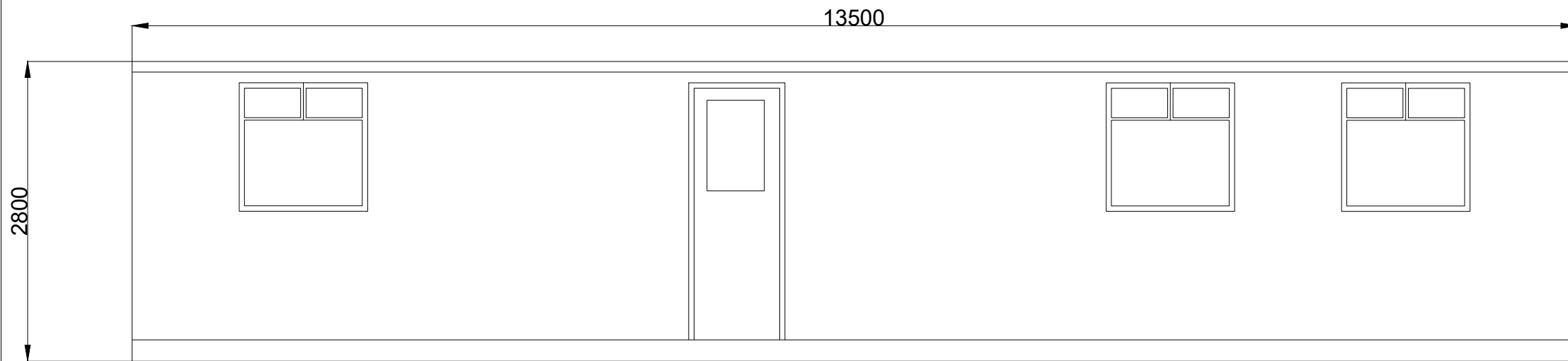
PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Signage Detail			
PROJECT No.: 220310	DRAWING No.: 220310 - 29	SCALE: 1:20 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION: P01



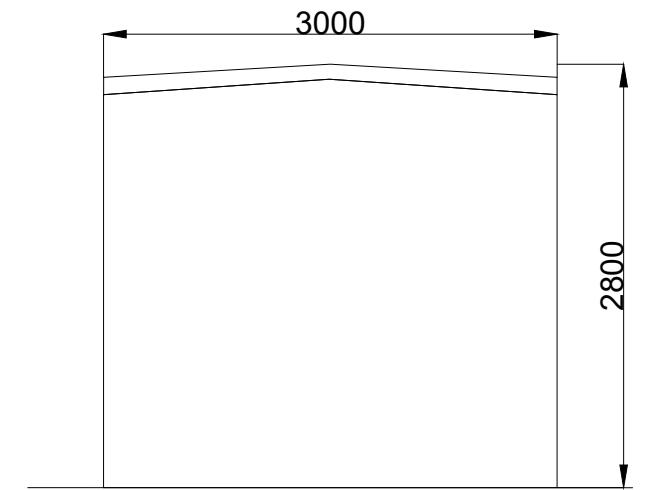


PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Field Gate Detail		
PROJECT No.: 220310	DRAWING No.: 220310 - 30	SCALE: 1: 20 @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023
		REVISION: P01

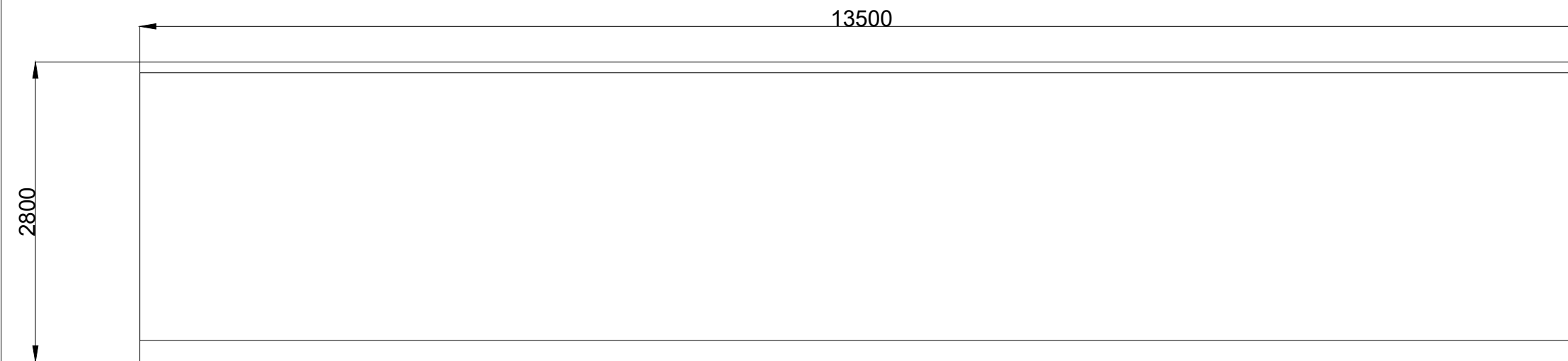




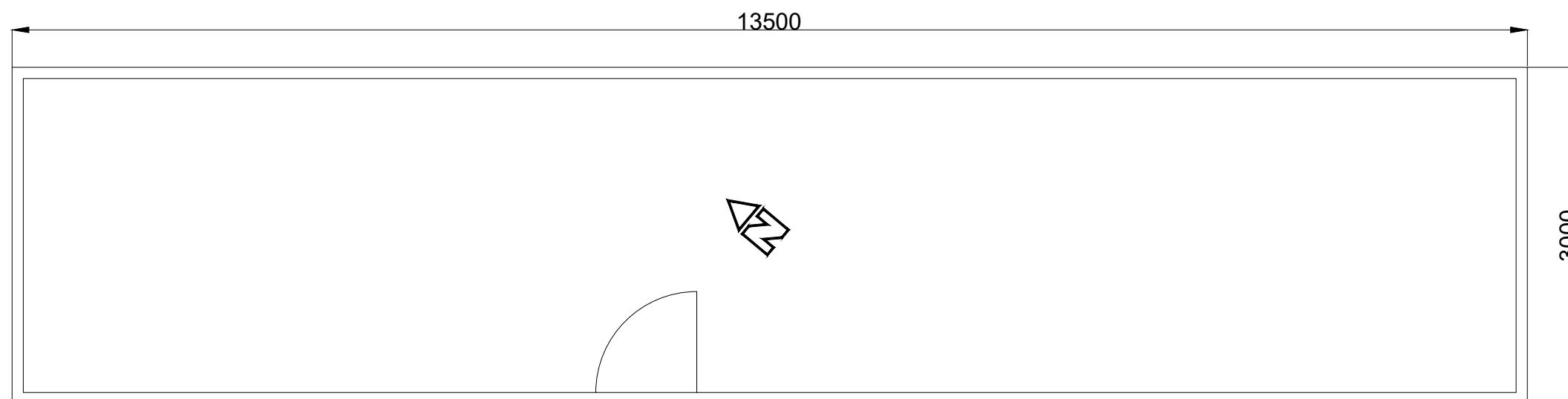
FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION



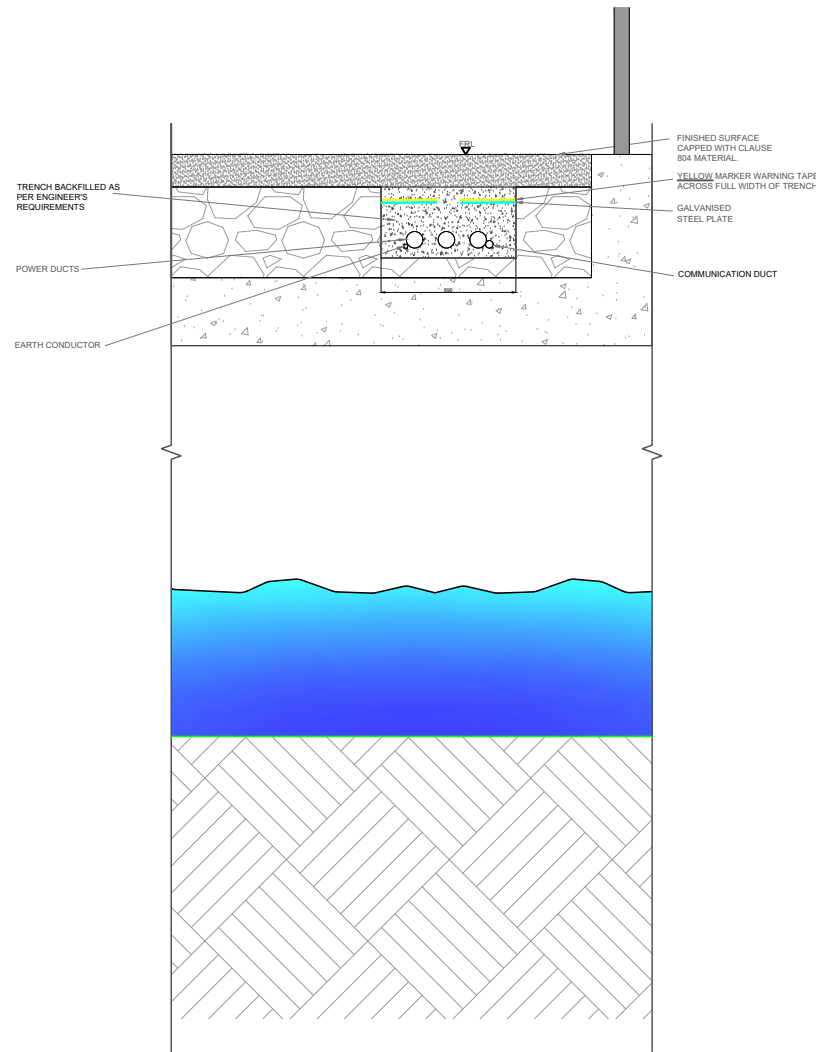
PLAN VIEW

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Site Office & Staff Facilities Detail			
PROJECT No.: 220310	DRAWING No.: 220310 - 31	SCALE: 1:50 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023	REVISION:. P01

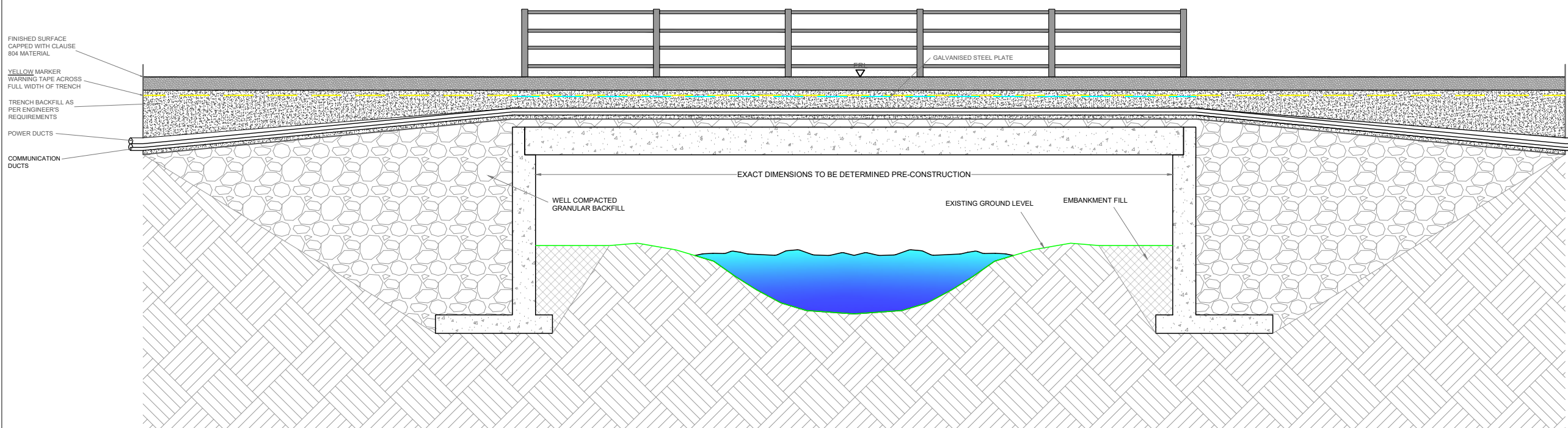
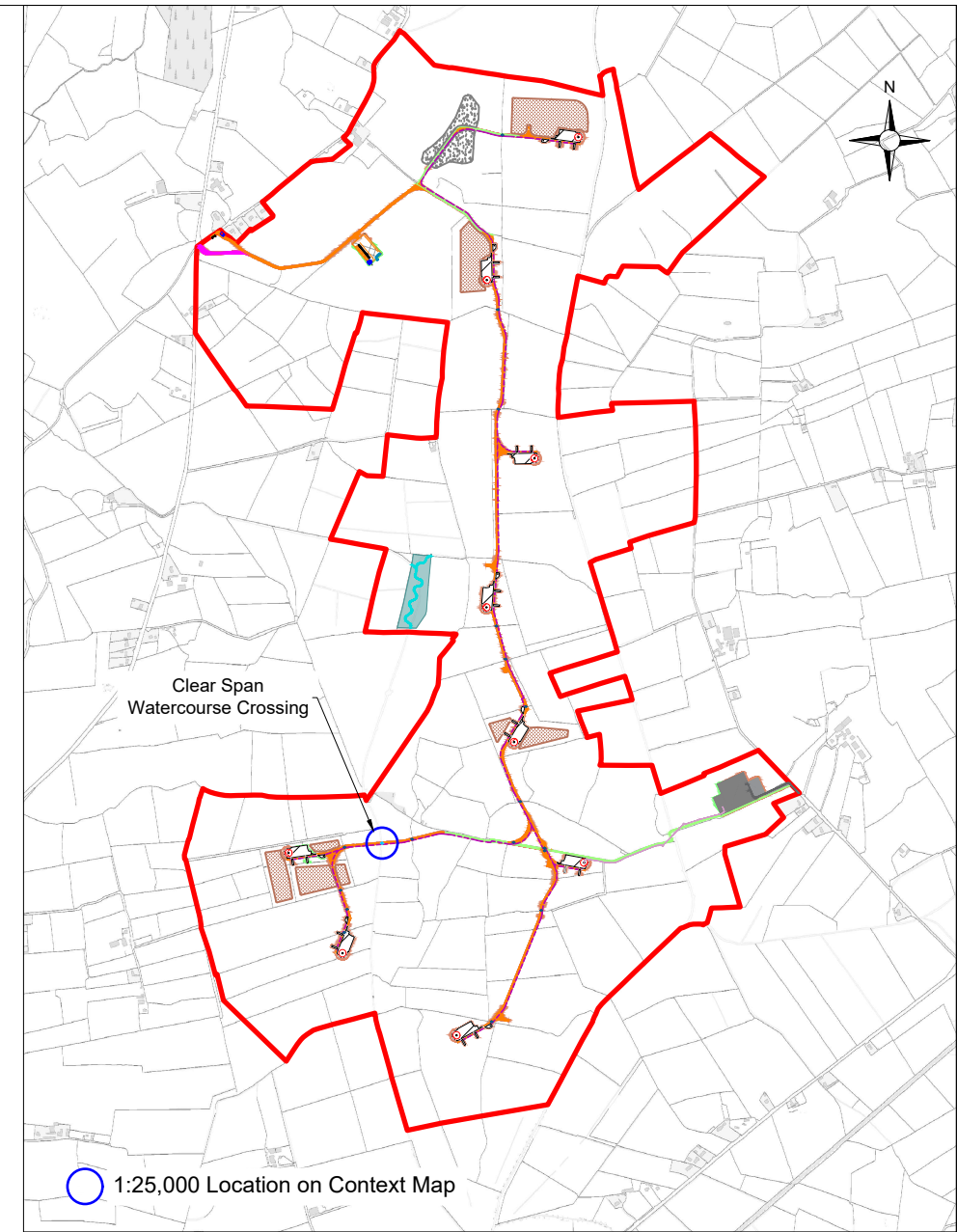


NOTES:

1. One circuit shown, no. of circuits to be determined by electrical design.
2. Crossings to be sized appropriately for 1 in 100yr flooding.
3. New culvert crossings to use 900mm pipes, or to be sized to engineer's requirements.
4. The cabling may be placed on either side of the roads, on both sides of the road or within the road.
5. The exact configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.



Clear Span Watercourse Crossing - 33kV - Cross Section
SCALE: 1:50



Clear Span Watercourse Crossing - 33kV - Longitudinal Section
SCALE: 1:75

PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Standard 33kV Clear Span Watercourse Crossing		
PROJECT No.: 220310	DRAWING No.: 220310 - 32	SCALE: As shown @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023
		REVISION: P01



FINISHED SURFACE
CAPPED WITH CLAUSE
804 MATERIAL

YELLOW MARKER
WARNING TAPE
ACROSS FULL WIDTH
OF TRENCH

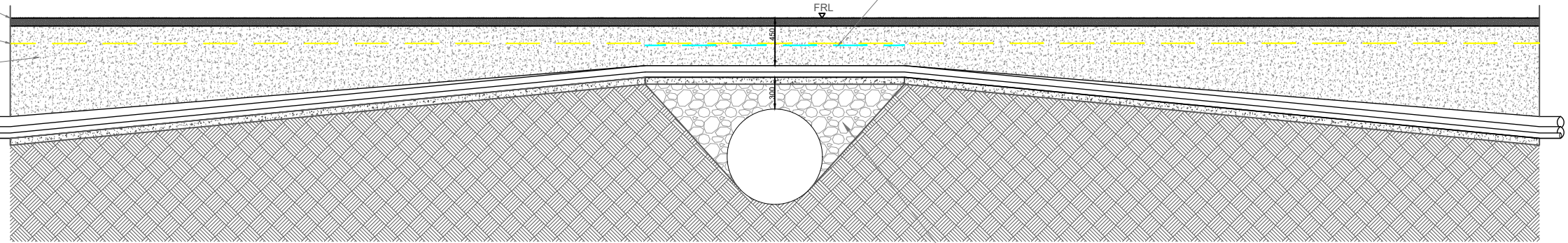
TRENCH BACKFILL
AS PER ENGINEER'S
REQUIREMENTS

POWER DUCTS

COMMUNICATION
DUCTS

GALVANISED STEEL PLATE

FRL



WELL COMPACTED
GRANULAR BACKFILL

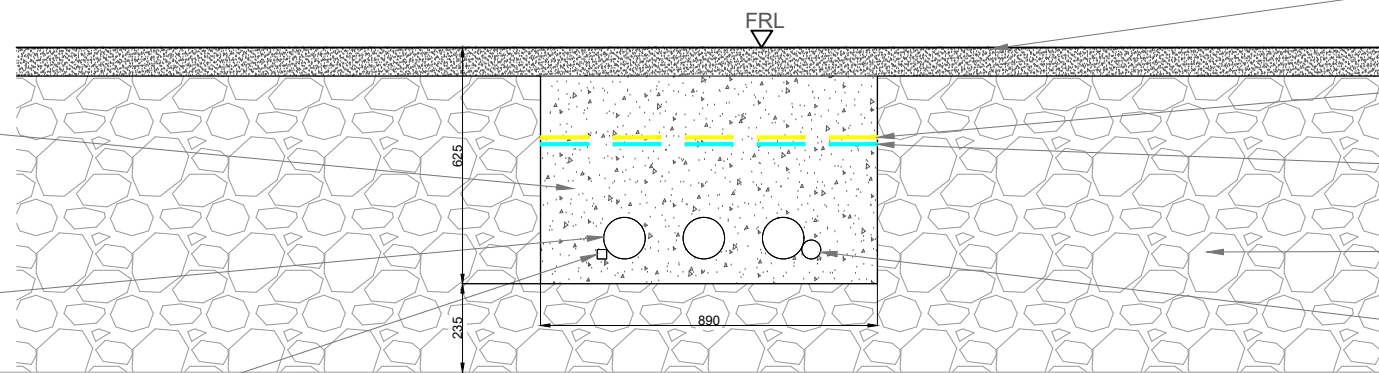
Culvert Crossing - 33kV - Longitudinal Section

SCALE 1:50

TRENCH BACKFILLED AS
PER ENGINEER'S
REQUIREMENTS

POWER DUCTS

EARTH CONDUCTOR



FINISHED SURFACE
CAPPED WITH CLAUSE
804 MATERIAL.

YELLOW MARKER WARNING TAPE.
ACROSS FULL WIDTH OF TRENCH

GALVANISED
STEEL PLATE

WELL COMPACTED
GRANULAR BACKFILL

COMMUNICATION DUCT

FRL

625
235

890

NOTES:

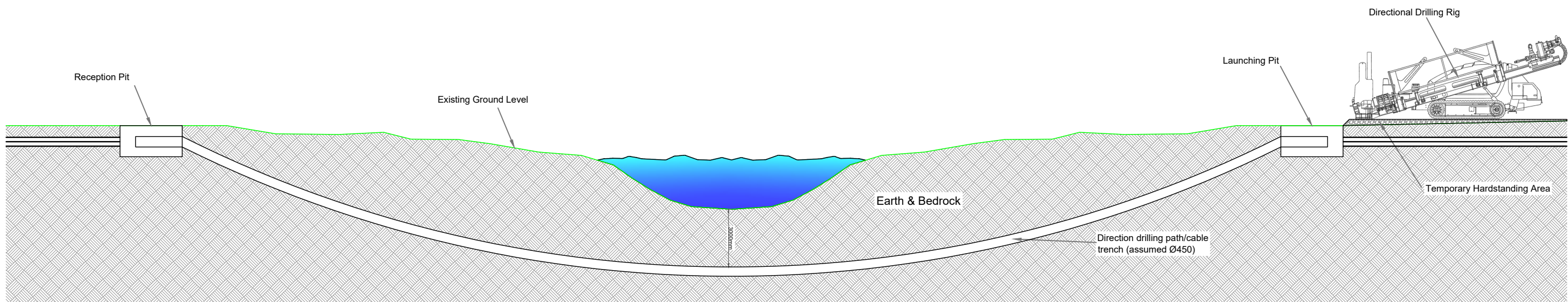
1. One circuit shown, no. of circuits to be determined by electrical design.
2. Crossings to be sized appropriately for 1 in 100yr flooding.
3. New culvert crossings to use 900mm pipes, or to be sized to engineer's requirements.
4. The cabling may be placed on either side of the roads, on both sides of the road or within the road.
5. The exact configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.

PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Standard 33kV Culvert Crossing			
PROJECT No.: 220310	DRAWING No.: 220310 - 33	SCALE: As shown @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 05.12.2023	REVISION.: P01

Culvert Crossing - 33kV - Cross Section

SCALE 1:20



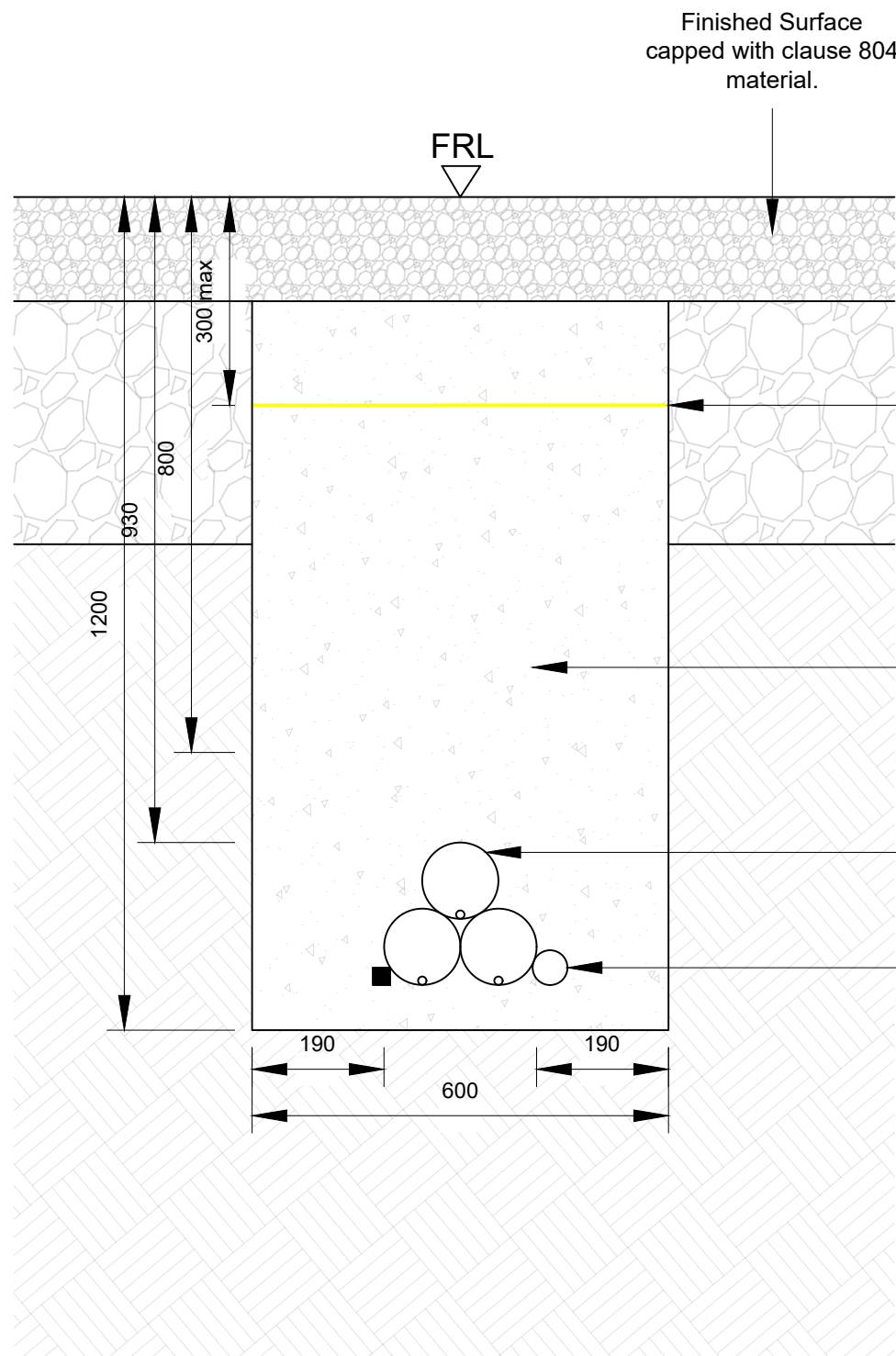


Standard 33kV Horizontal Directional Drill - Cross Section
 SCALE: 1:200

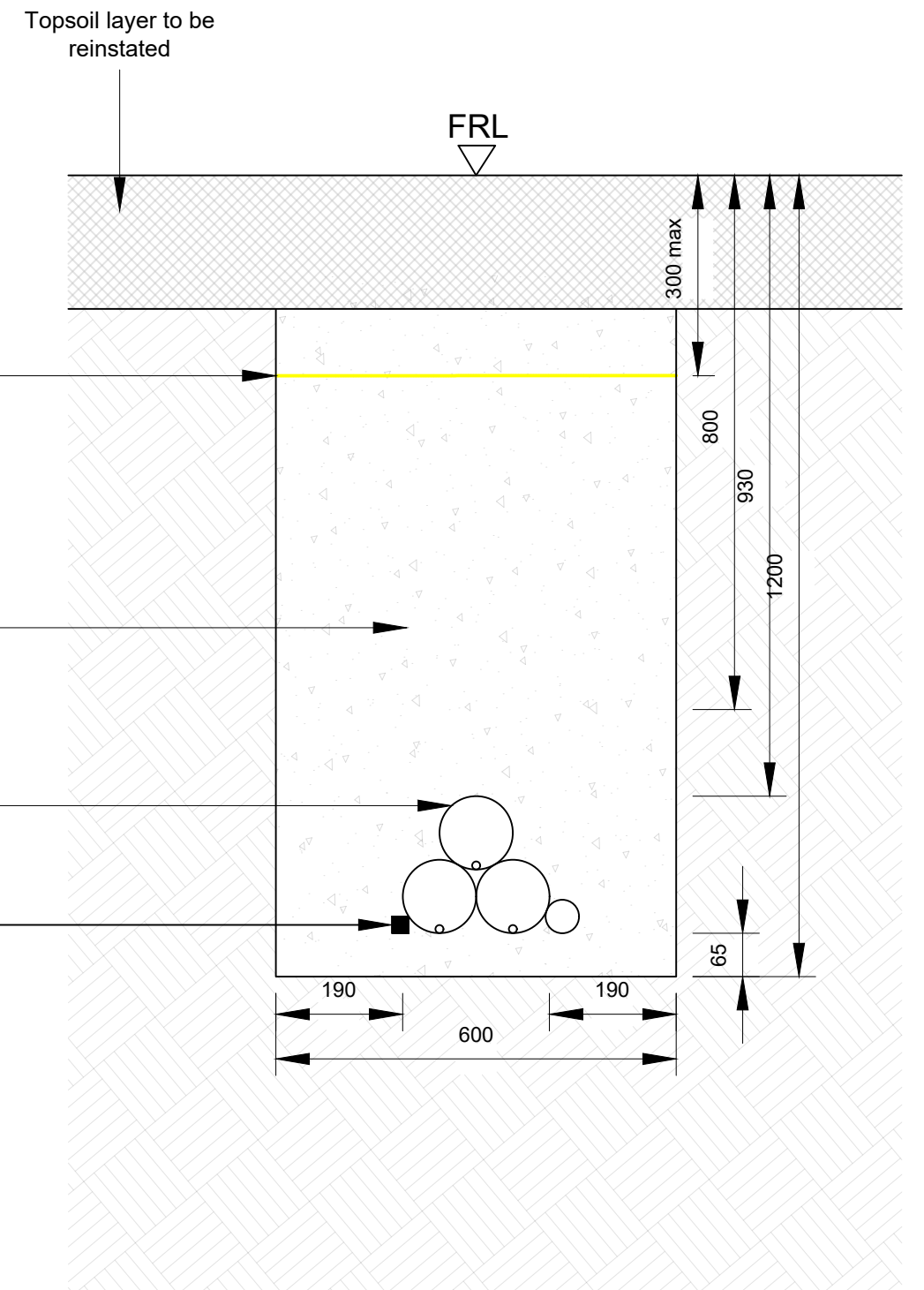
PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: Standard 33kV HDD Cross Section			
PROJECT No.: 220310	DRAWING No.: 220310 - 34	SCALE: 1:200 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION: P01



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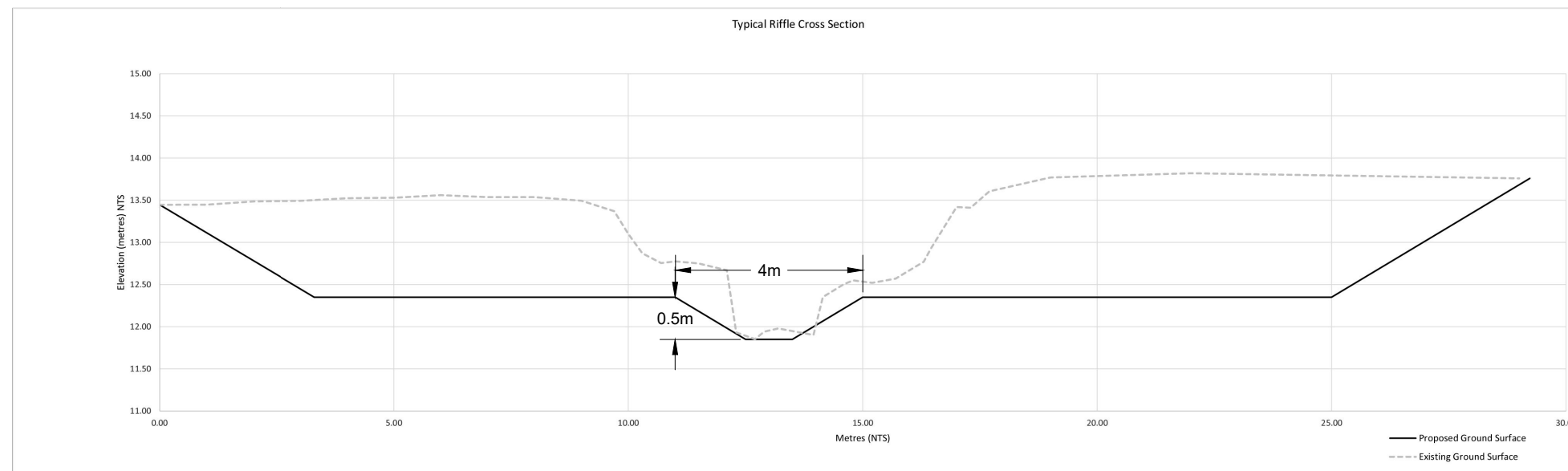
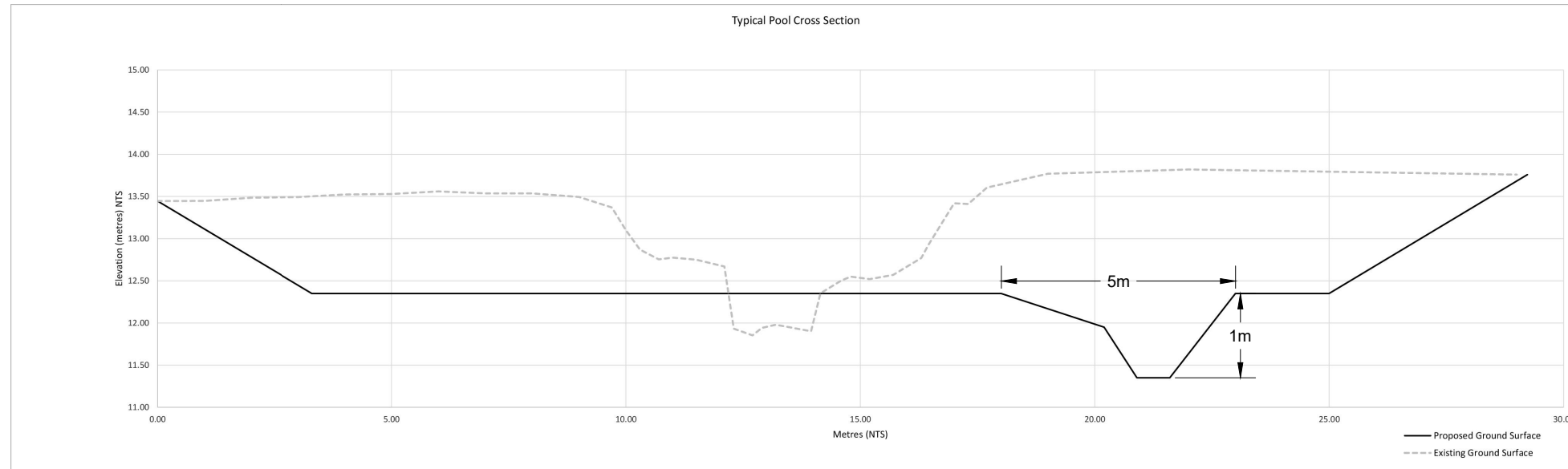
33kV Cable - On Road Trench Detail - Cross Section



33kV Cable - Off Road Trench Detail - Cross Section

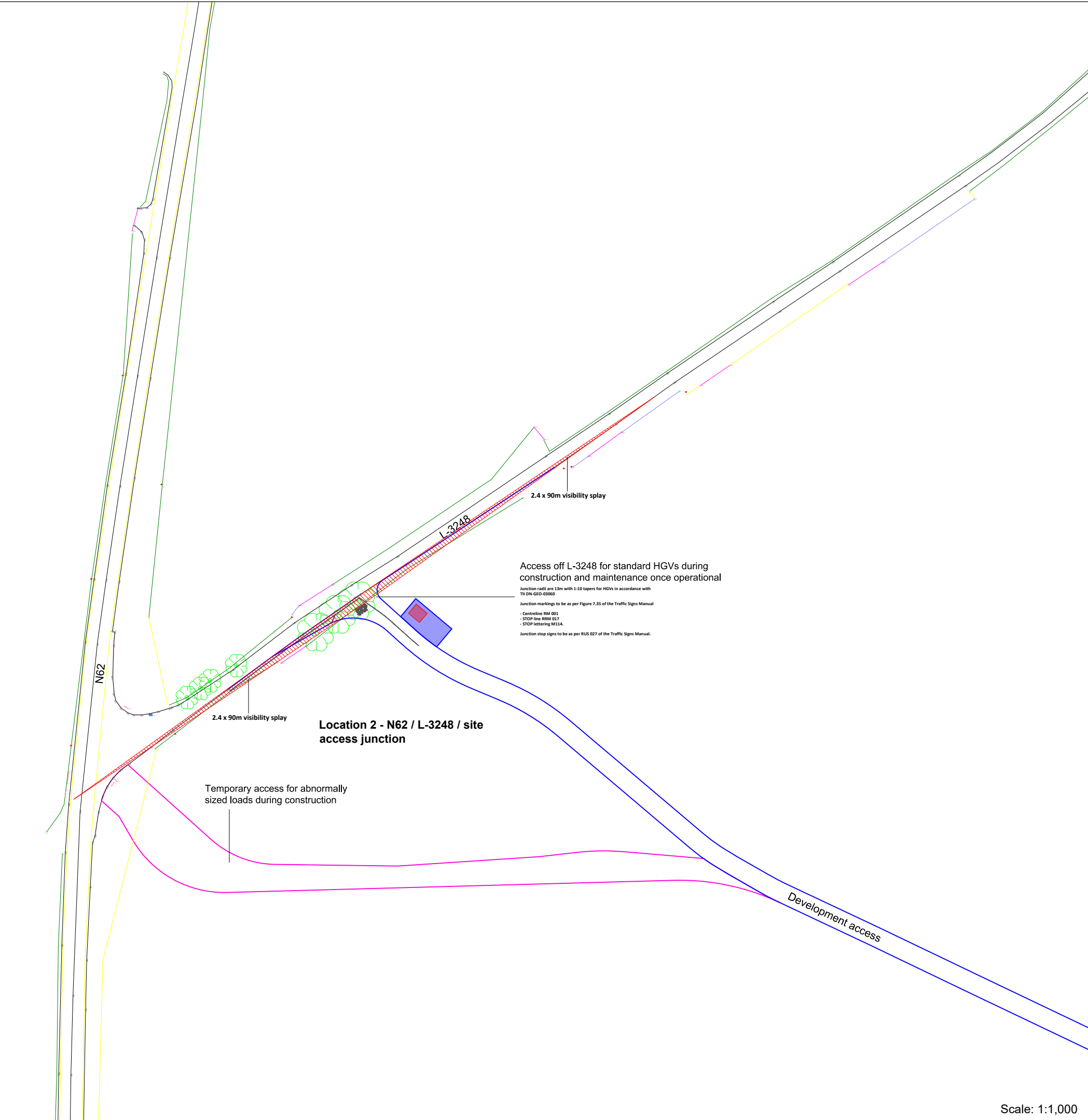
PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: 33kV Cable Trench Sections			
PROJECT No.: 220310	DRAWING No.: 220310 - 35	SCALE: 1:10 @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION: P01





PROJECT TITLE: Borrisbeg Renewable Energy Development			
DRAWING TITLE: River Restoration works to pattern, profile and dimension of Segment of Eastwood River			
PROJECT No.: 220310	DRAWING No.: 220310 - 36	SCALE: NTS @ A3	
DRAWN BY: GO	CHECKED BY: KD	DATE: 16.11.2023	REVISION.: P01





Access off L-3248 for standard HGVs during construction and maintenance once operational

Junction radii are 13m with 1:10 tapers for HGVs in accordance with TD 09-0500-03000

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

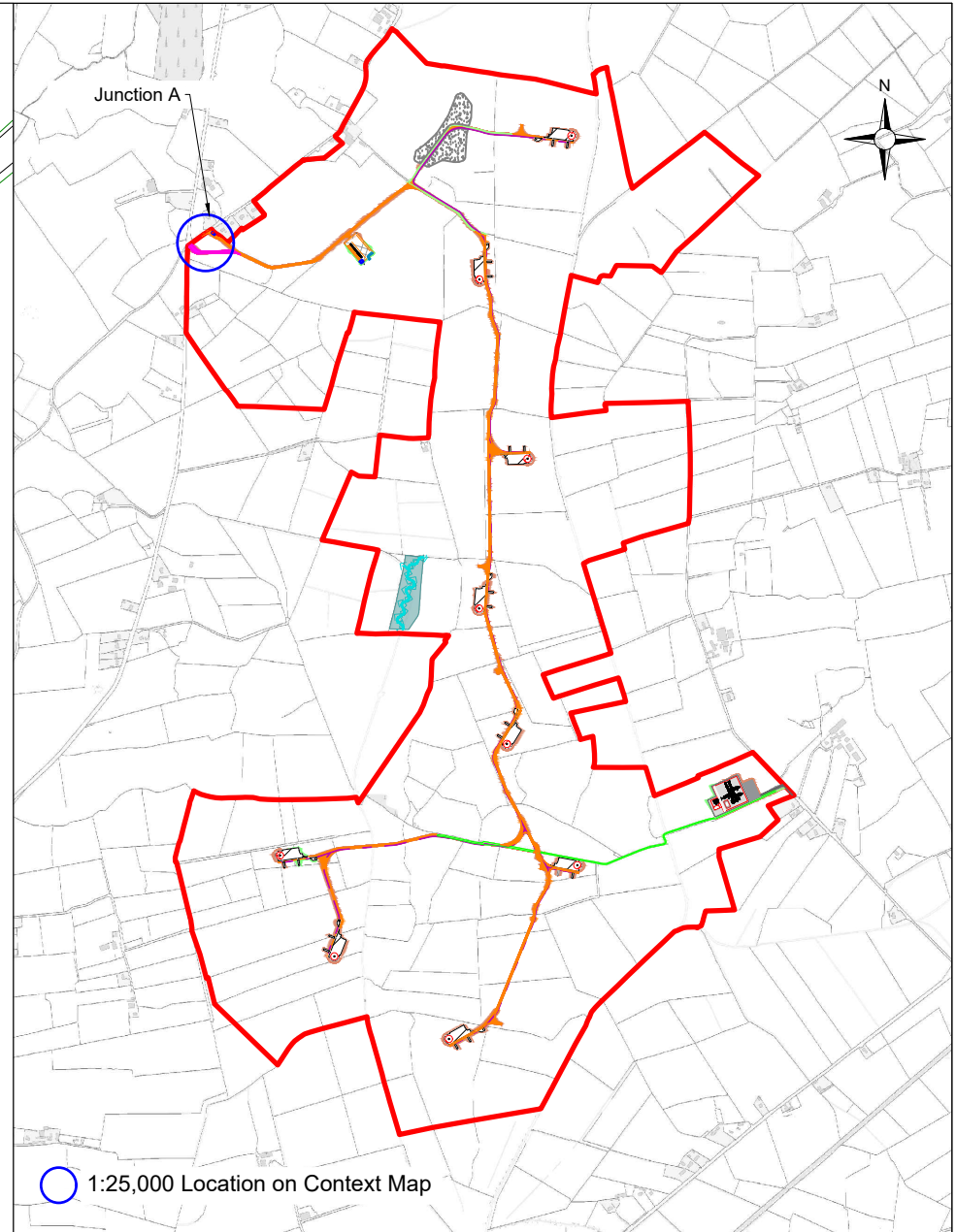
- Centreline BSM 021
- STOP line BSM 017
- STOP lettering M114.

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

Location 2 - N62 / L-3248 / site access junction

Temporary access for abnormally sized loads during construction

Development access



1:25,000 Location on Context Map

Scale: 1:1,000

PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Proposed Access Junction A		
PROJECT No.: 220310	DRAWING No.: 220310 - 37	SCALE: As Shown @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 11.12.2023
		REVISION: P01



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2.4 x 90m visibility splay

Location 3 - L-7039 / L-7039-1 road junction

Junction radii are 13m for HGVs in accordance with TII DN-GEO-03060

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

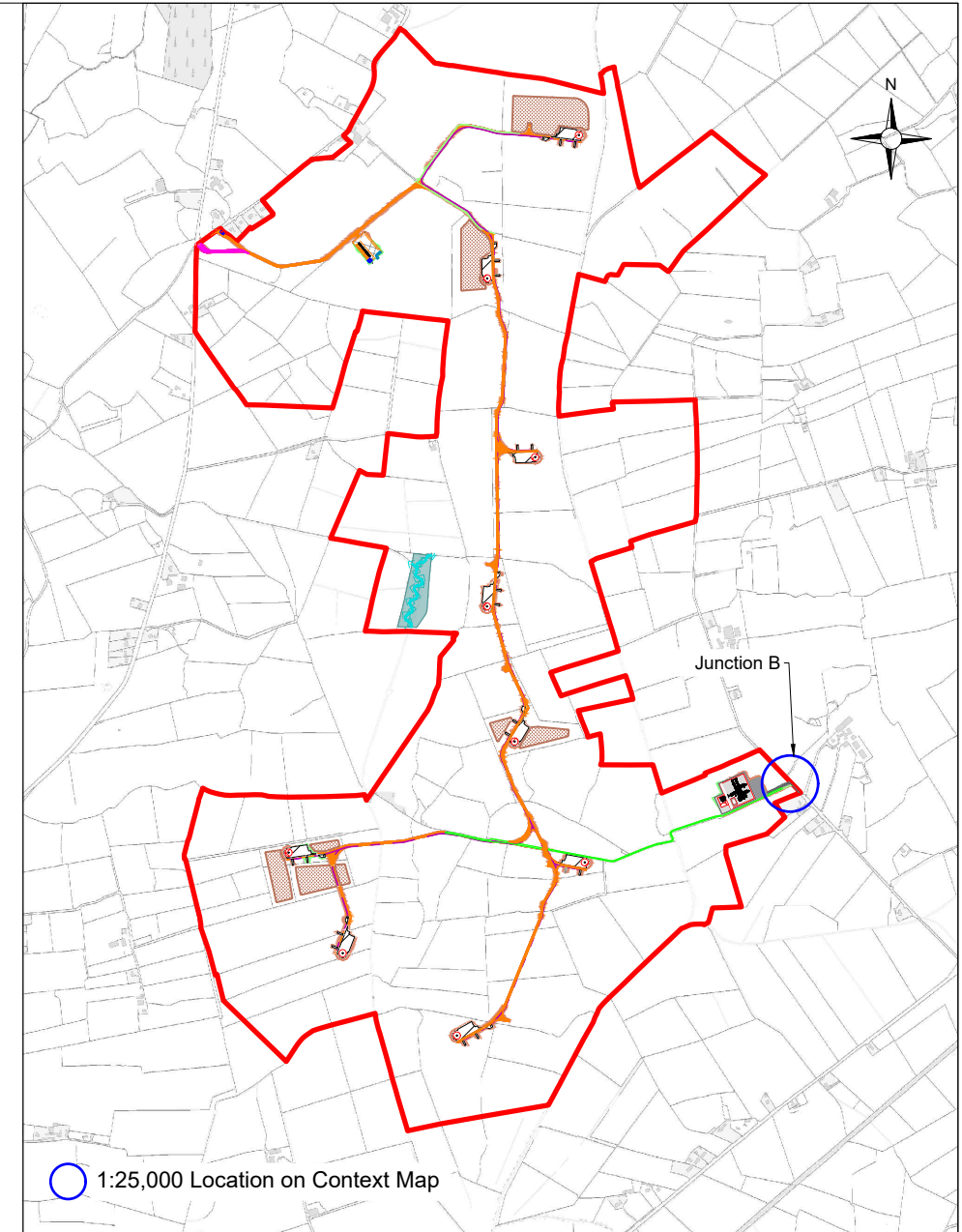
- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

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

L-7039-1

L-7039

2.4 x 90m visibility splay



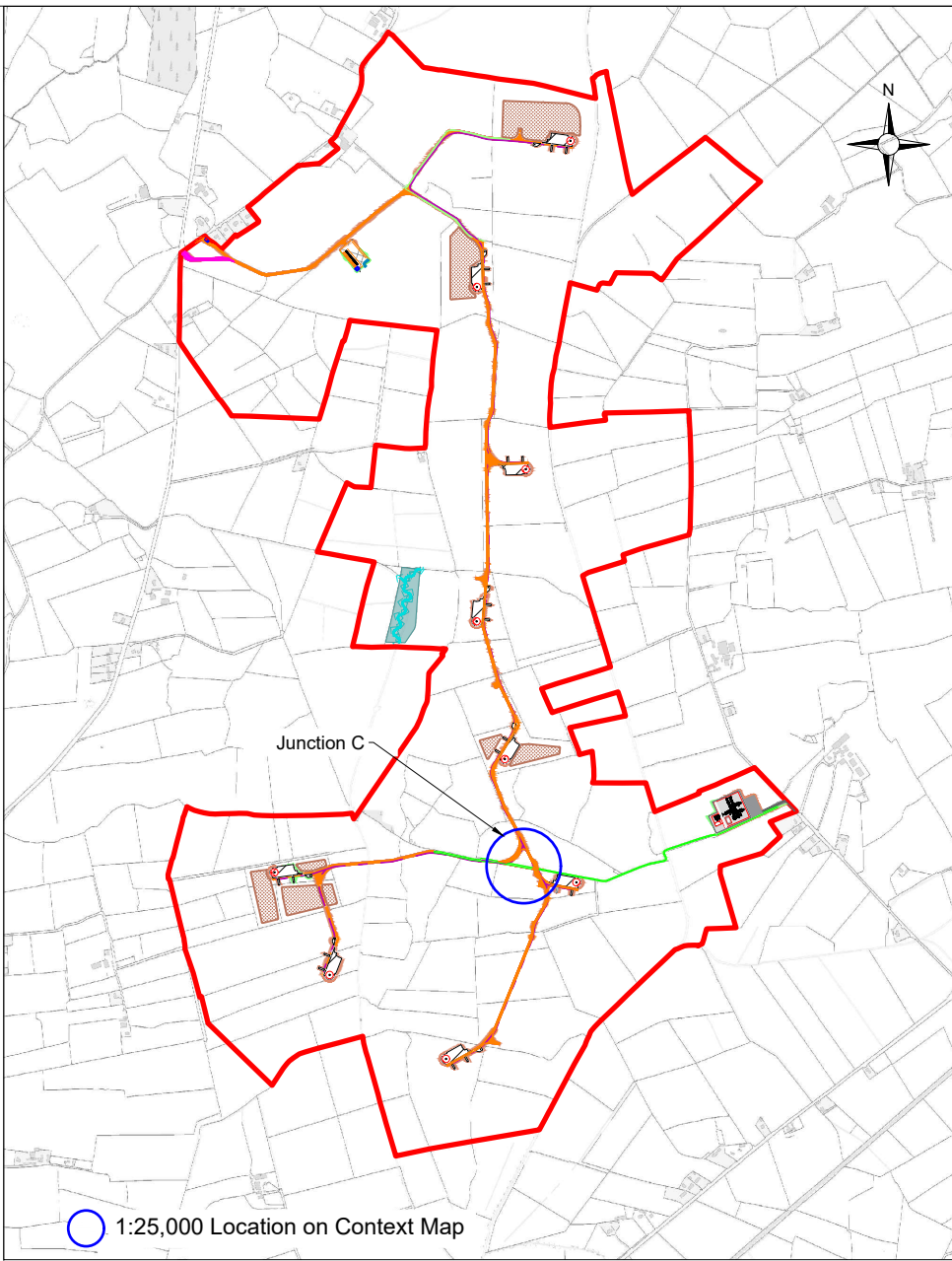
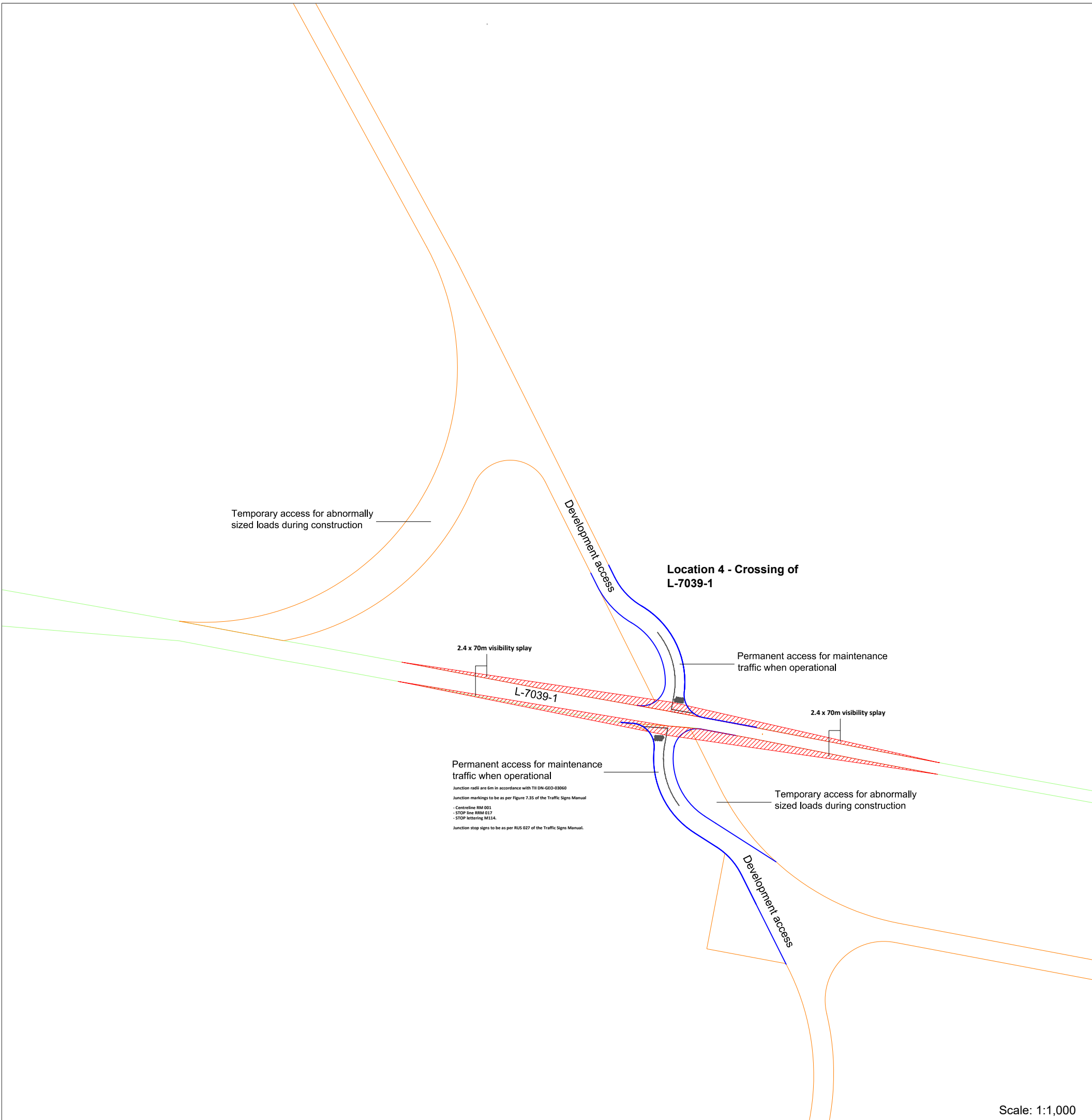
1:25,000 Location on Context Map

Scale: 1:500

PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Proposed Access Junction B		
PROJECT No.: 220310	DRAWING No.: 220310 - 38	SCALE: As Shown @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 11.12.2023
		REVISION: P01



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



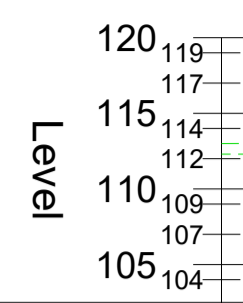
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PROJECT TITLE: Borrisbeg Renewable Energy Development		
DRAWING TITLE: Proposed Access Junction C		
PROJECT No.: 220310	DRAWING No.: 220310 - 39	SCALE: As Shown @ A3
DRAWN BY: GO	CHECKED BY: KD	DATE: 11.12.2023
		REVISION: P01



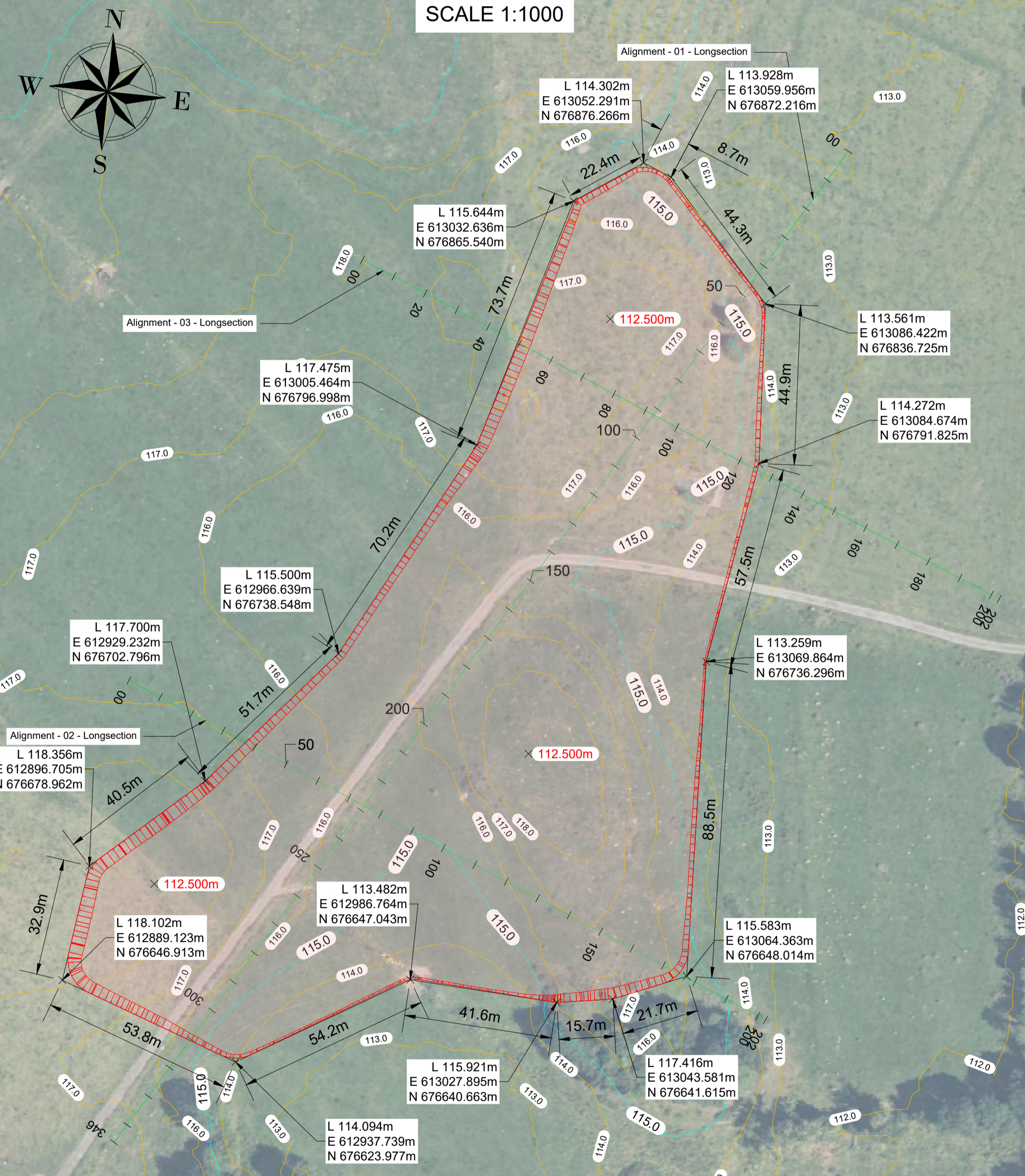
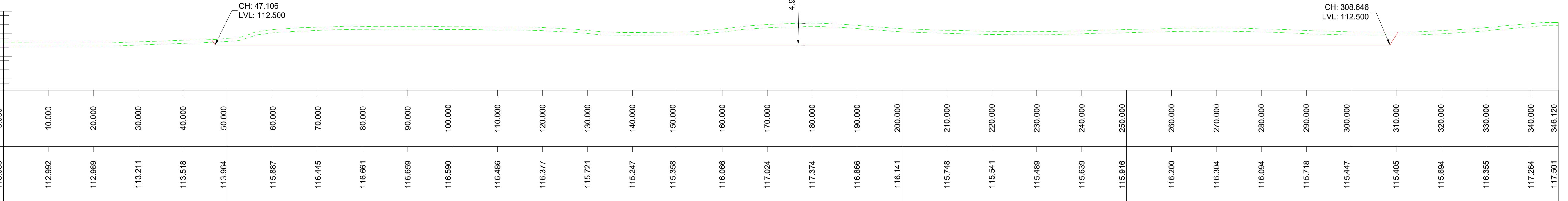
Email: info@www.mkoireland.ie / Website: www.mkoireland.ie

Alignment - 01 - Longsection
Scale: H 1:500, V 1:500

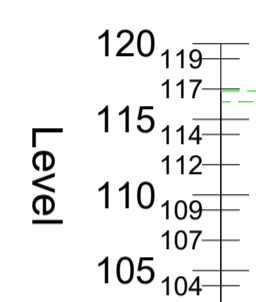


Chainage

Existing Levels

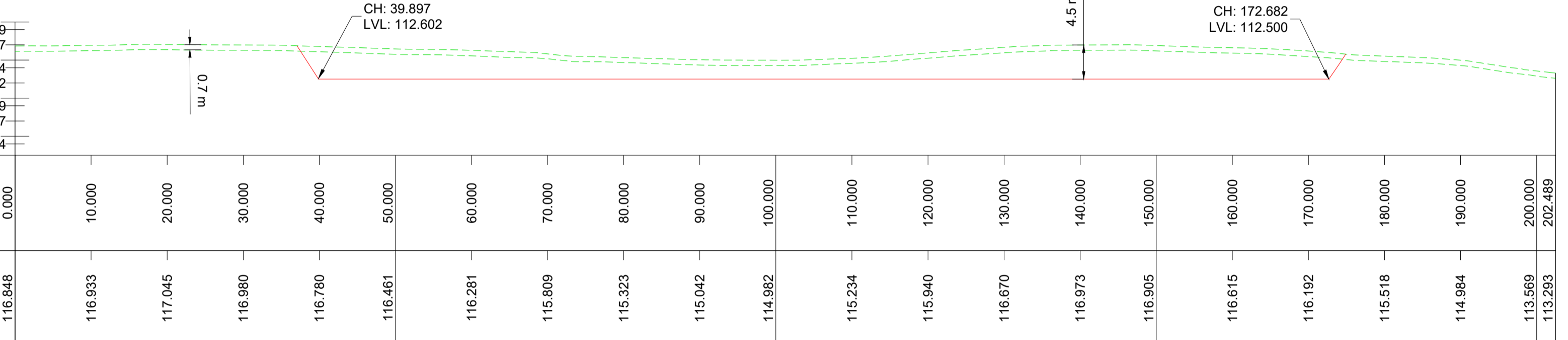


Alignment - 02 - Longsection
Scale: H 1:500, V 1:500

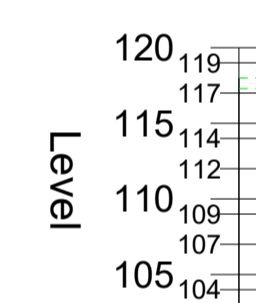


Chainage

Existing Levels

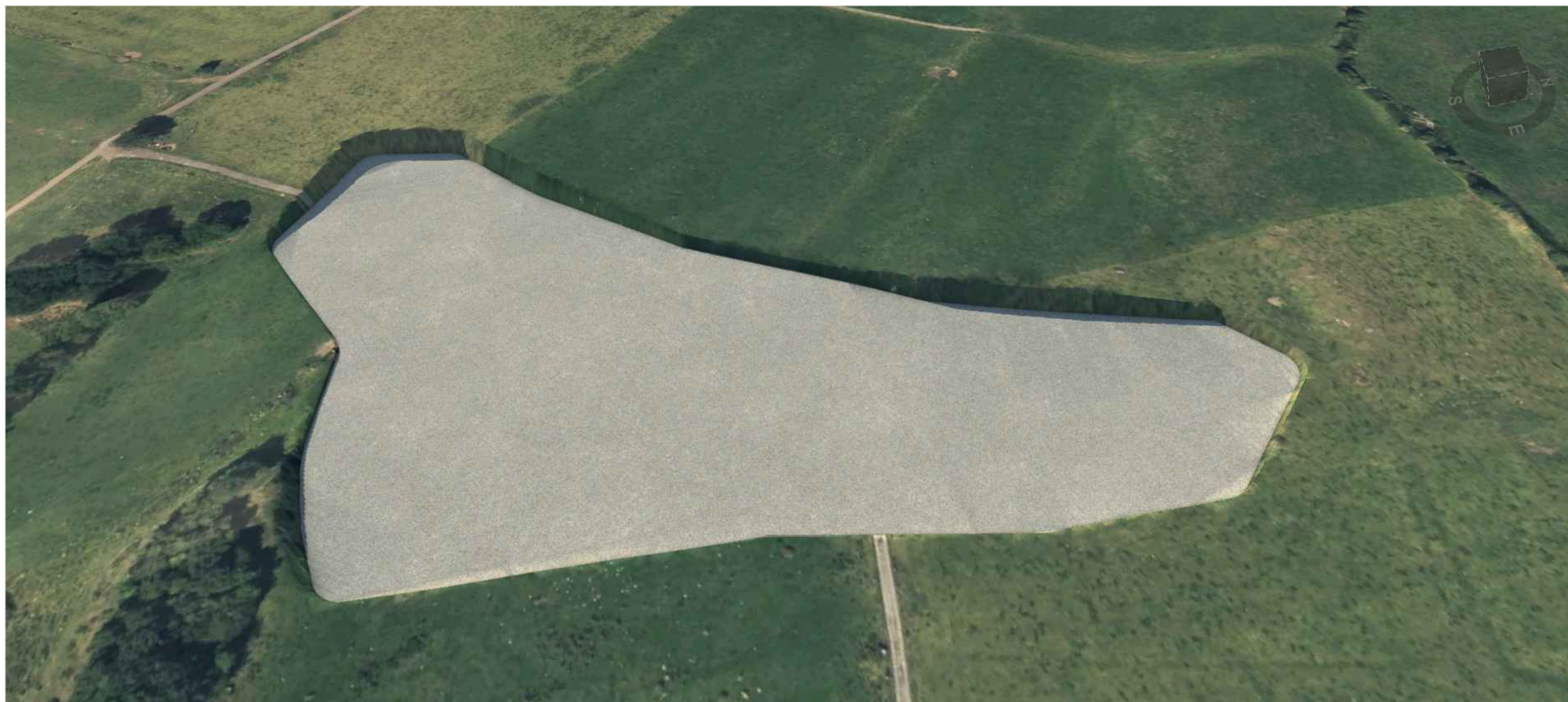
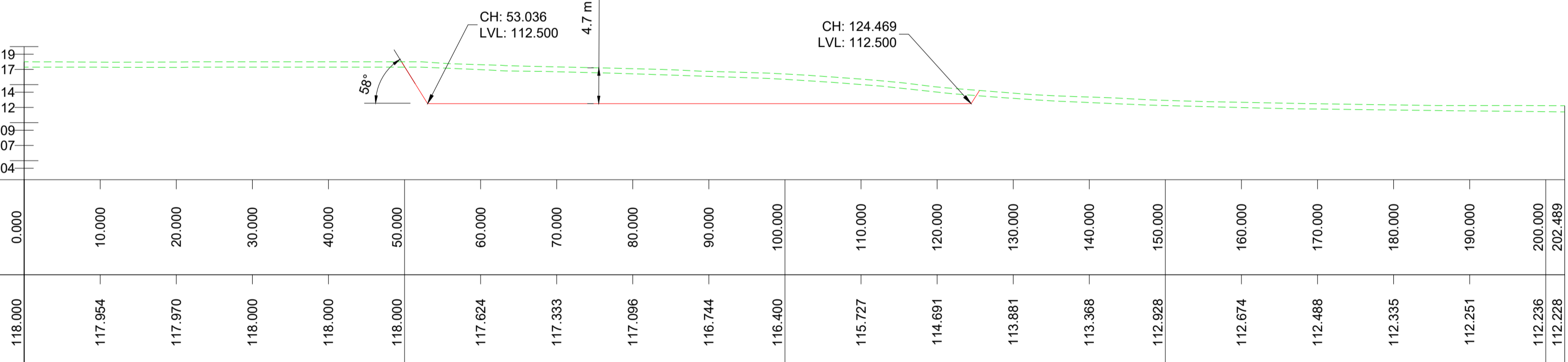


Alignment - 03 - Longsection
Scale: H 1:500, V 1:500



Chainage

Existing Levels



NOTES:

- Overburden depth of 0.7m is based on available S.I. information including trial pits and boreholes; bedrock was encountered locally between 0.4-0.8m
- Protective edge berms and/or fencing along the entire perimeter.
- This drawing relates to the excavated borrow pit prior to reinstatement and construction of the access road to T1. Refer to drawing DANU-BBG-D003.2 for proposed details following the excavation of borrow pit material and construction of the T1 access road.

OVERBURDEN QUANTITIES

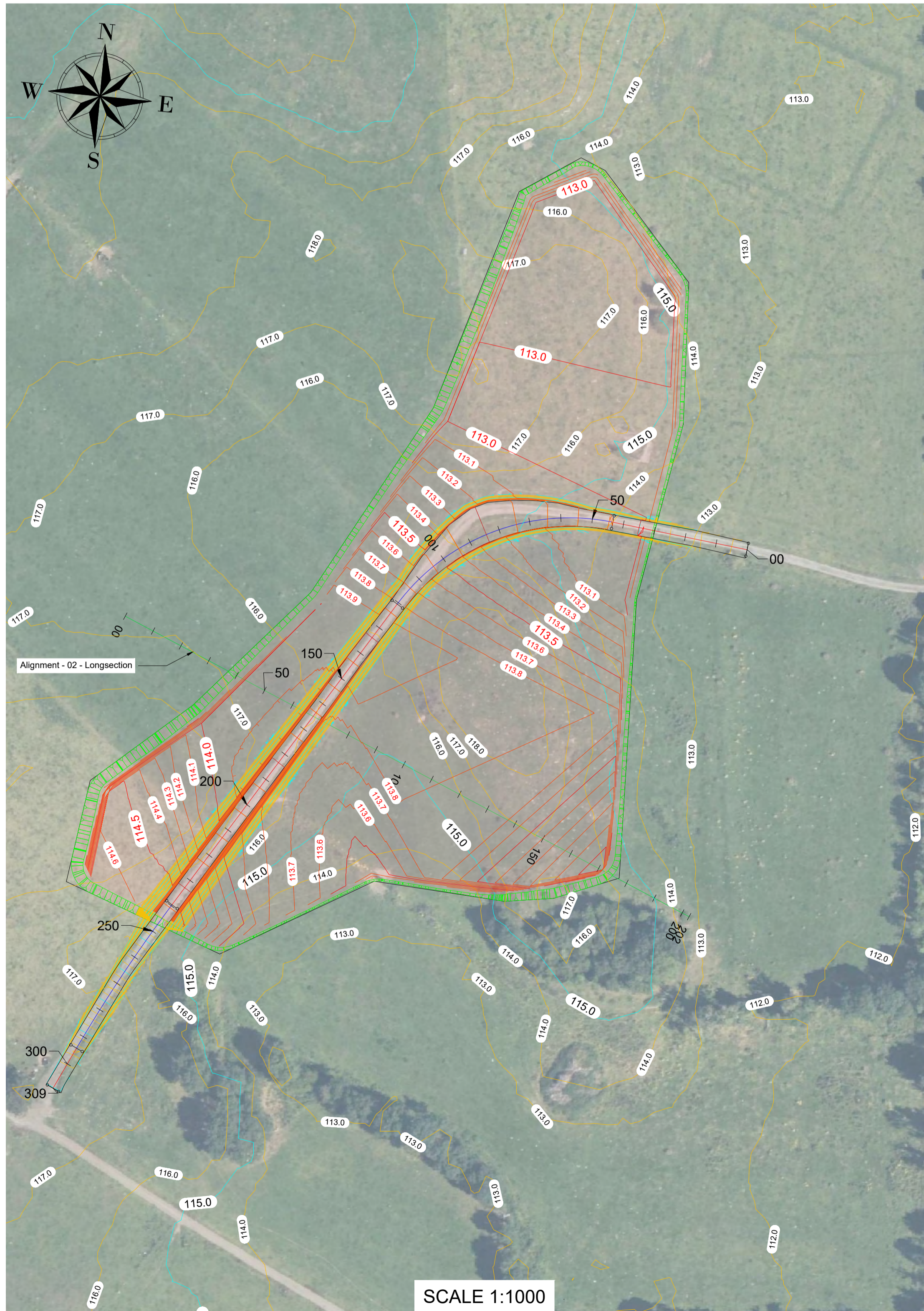
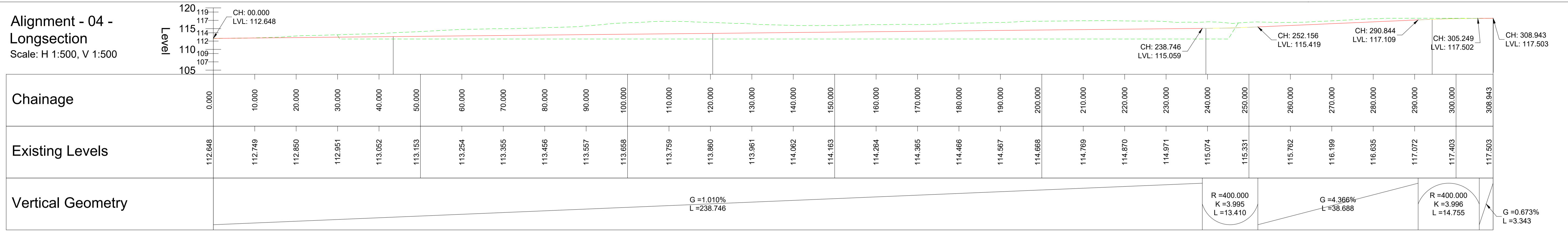
AREA	VOLUME
24 649 m ²	17 201 m ³

BEDROCK QUANTITIES (below 0.7 m)

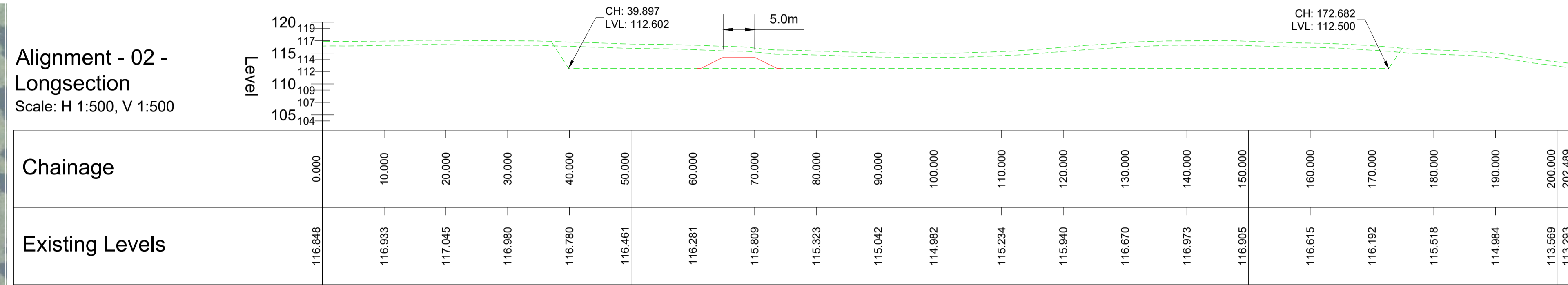
AREA	VOLUME
24 351 m ²	71 567 m ³

		CLIENT BUIRIOS LTD.	
PROJECT BORRISBEG RENEWABLE ENERGY DEVELOPMENT			
TITLE BORROW PIT DETAILS			
SCALE 1:1000	STATUS PLANNING APPLICATION		
PAPER SIZE A1	DRAWN BY A. ZOLOTAROV	CHECKED AND APPROVED C. O'DUBHTHAIGH	
PROJECT PHASE PLANNING	DATE 27/09/2023	DATE 27/09/2023	
DRAWING NUMBER DANU-BBG-D003.1			REVISION V4

Alignment - 04 - Longsection
Scale: H 1:500, V 1:500



Alignment - 02 - Longsection
Scale: H 1:500, V 1:500



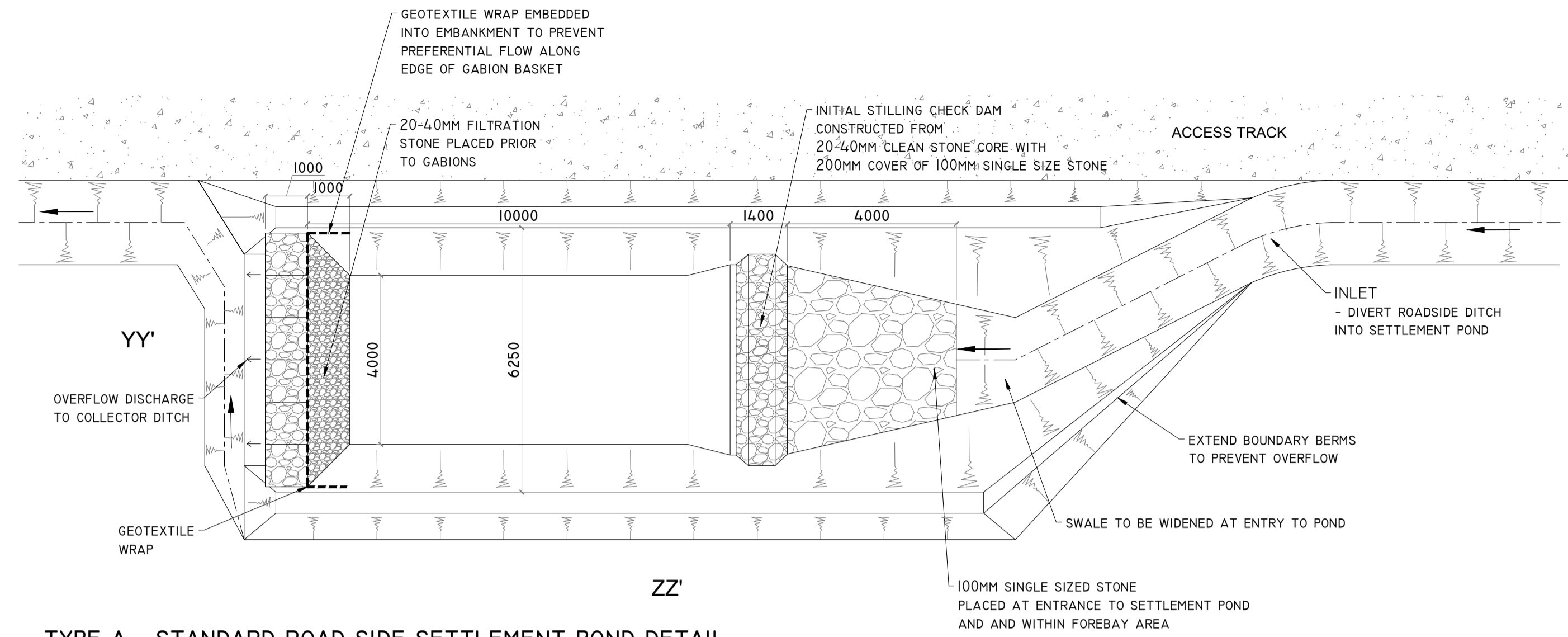
NOTES:

1. This drawing relates to the access road through the borrow pit post-excavation of bedrock
2. The elevated sections of access road shall include edge protection and additional marker posts
3. The borrow pit area will be partially reinstated with excess spoil and unsuitable material from elsewhere on site, along with the overburden material above the excavated bedrock.
4. Refer to drawing DANU-BBG-D003.1 for borrow pit excavation details

		CLIENT
www.danuenery.ie		BUIRIOS LTD.
PROJECT		
BORRISBEG RENEWABLE ENERGY DEVELOPMENT		
TITLE		
ACCESS ROAD THROUGH BORROW PIT TO T1		
SCALE	STATUS	
1:1000	PLANNING APPLICATION	
PAPER SIZE	DRAWN BY	CHECKED AND APPROVED
A1	A. ZOLOTAROV	C. O'DUBHTHAIGH
PROJECT PHASE	DATE	DATE
PLANNING	23/10/2023	23/10/2023
DRAWING NUMBER	REVISION	
DANU-BBG-D003.2	V1	

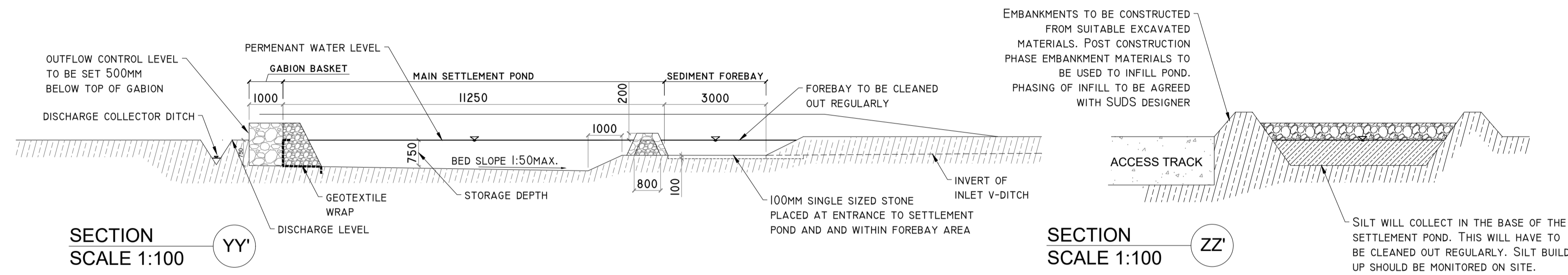
PROJECT DESIGN DRAWING NOTES
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DETAIL A1



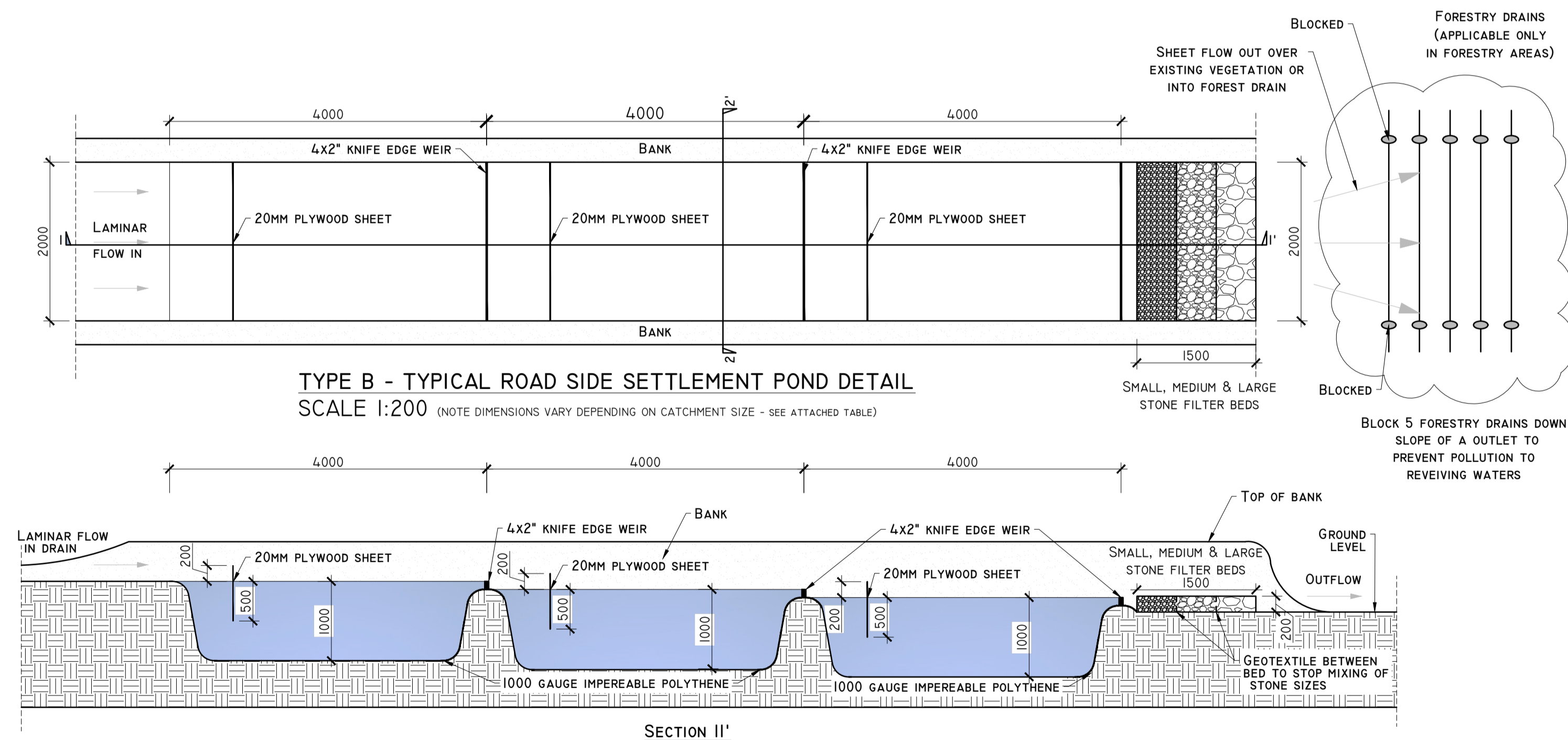
TYPE A - STANDARD ROAD SIDE SETTLEMENT POND DETAIL
 SCALE 1:200 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)

RETURN PERIOD	50 YRS	STORM DURATION	CATCHMENT SIZE (M ²)		
			500	1000	2000
6HR RETENTION FOR COARSE SILT		6 HRS	2.8 x 9 x 1 M	4 x 13 x 1 M	5.7 x 18 x 1 M
11HR RETENTION FOR MEDIUM SILT		12 HRS	3.2 x 10 x 1 M	4.5 x 14 x 1 M	6.4 x 20 x 1 M
24HR RETENTION FOR FINE SILT		24 HRS	3.5 x 11 x 1 M	5 x 16 x 1 M	7 x 22 x 1 M

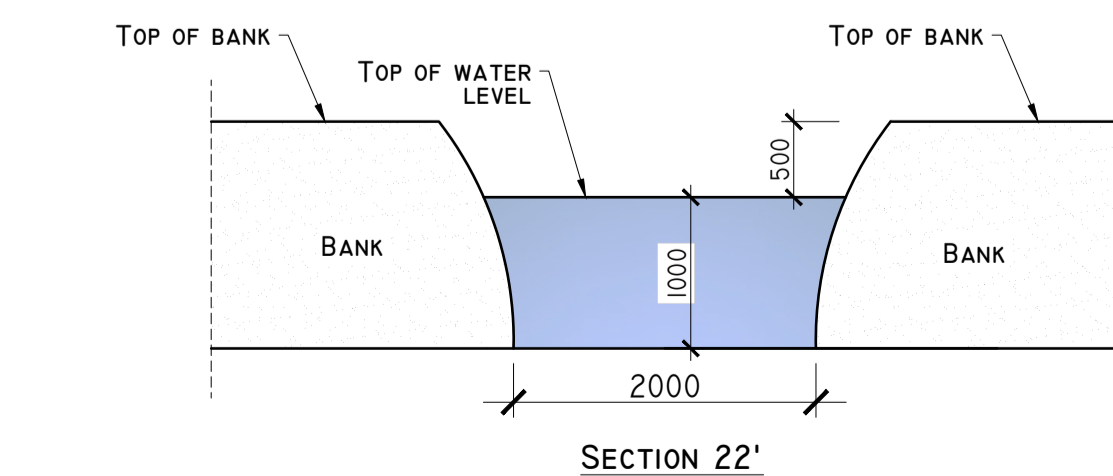


SECTION YY'
 SCALE 1:100

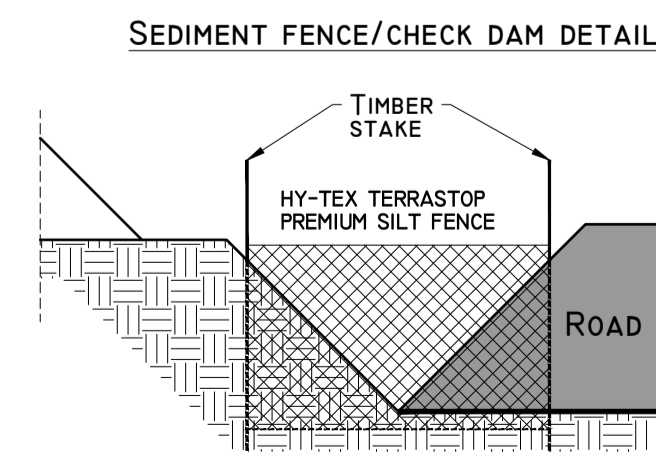
SECTION ZZ'
 SCALE 1:100



TYPE B - TYPICAL ROAD SIDE SETTLEMENT POND DETAIL
 SCALE 1:200 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)



SECTION 22'



DETAIL A2

Date	Description	MG	MG
24/11/23	Planning		
		Chkd	Signed

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 Dungannon
 Co. Wexford
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 fax: +353 (0) 58-44244
 email: info@hydroenvironmental.ie
 web: www.hydroenvironmental.ie

Client: MKO

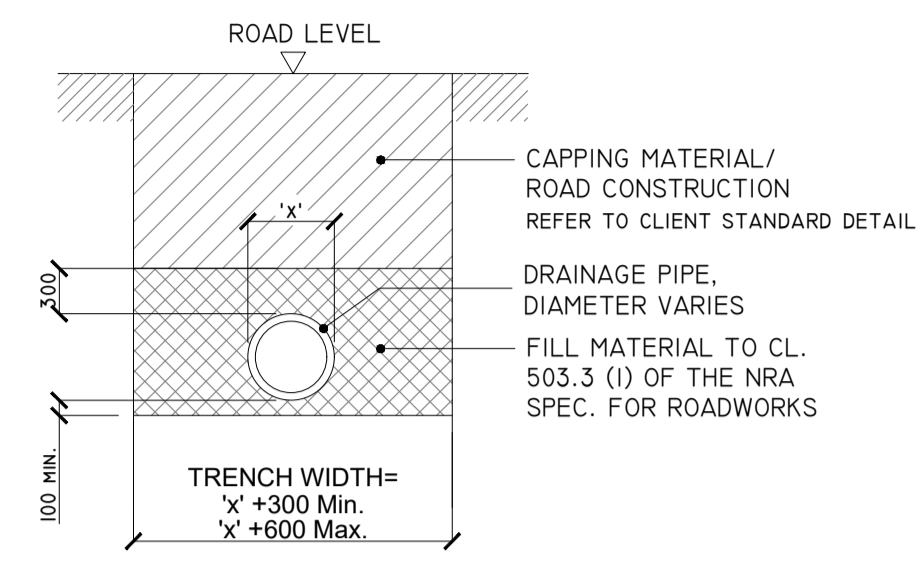
Job: BORRISBEG RENEWABLE ENERGY DEVELOPMENT

Title: DRAINAGE DETAILS I

Figure No: D501

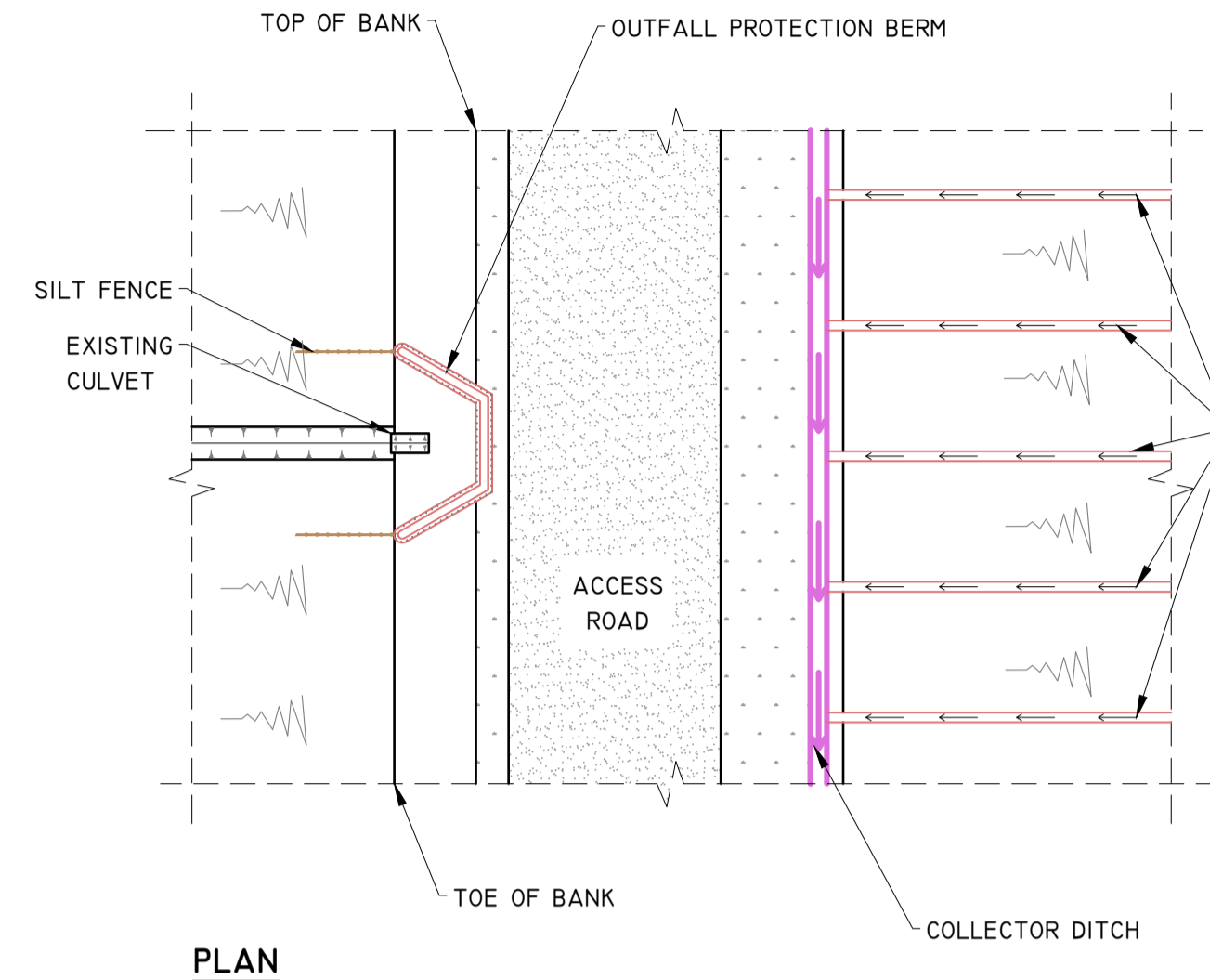
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 Sheet Size: A1 Project No.: P1619-0
 Scale: as shown (A1) Drawn By: MG/GD
 Date: 24/11/2023 Checked By: M.G.

DETAIL B



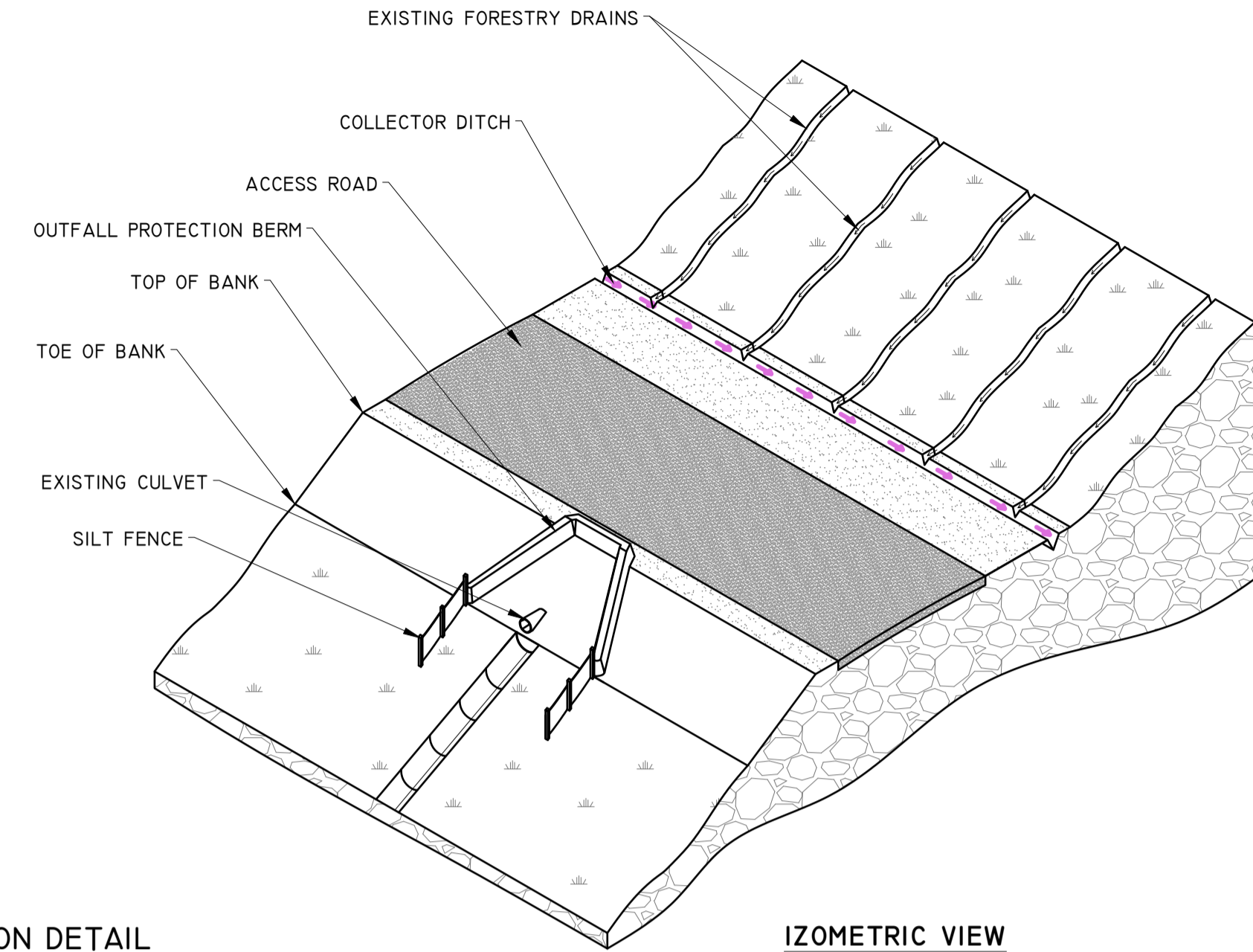
'TYPE B' CULVERT - DRAINAGE CROSSING BENEATH EXCAVATED ROAD
SCALE 1:50

DETAIL BI



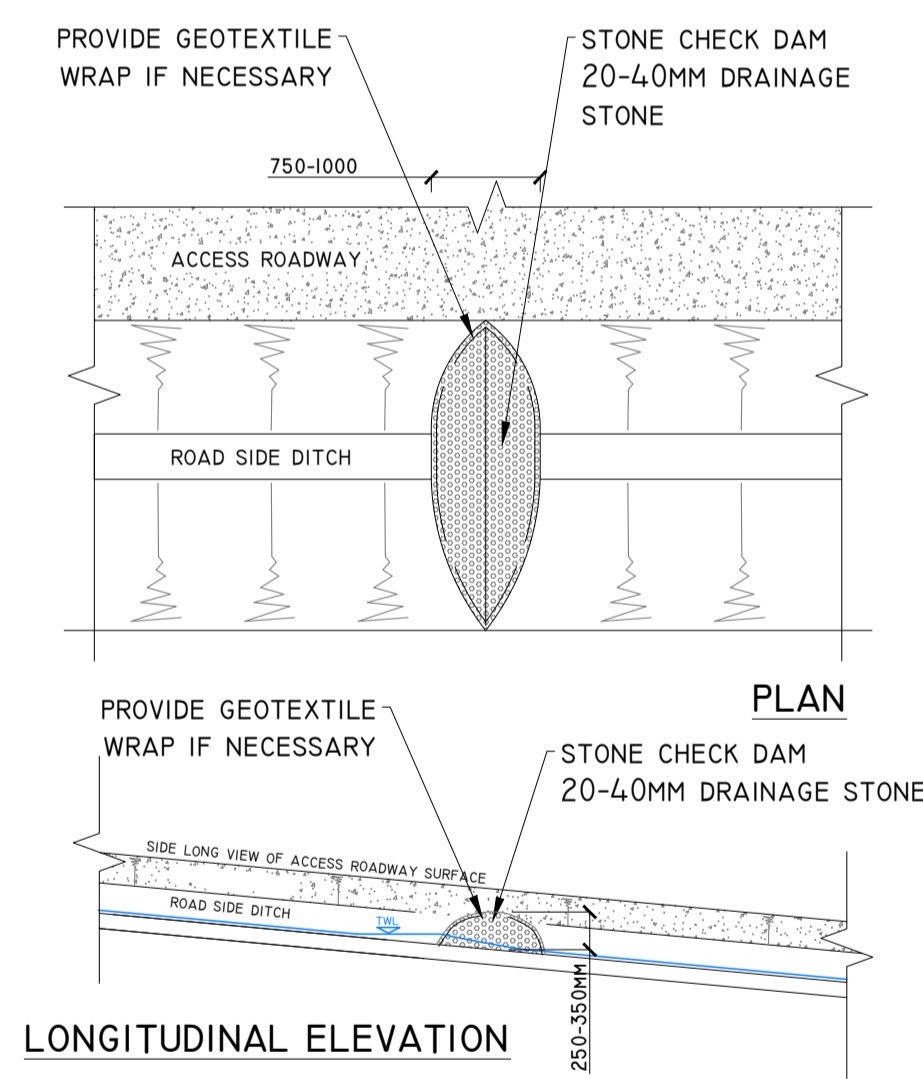
PLAN

CULVERT - OUTFALL PROTECTION DETAIL
SCHEMATIC - NOT TO SCALE



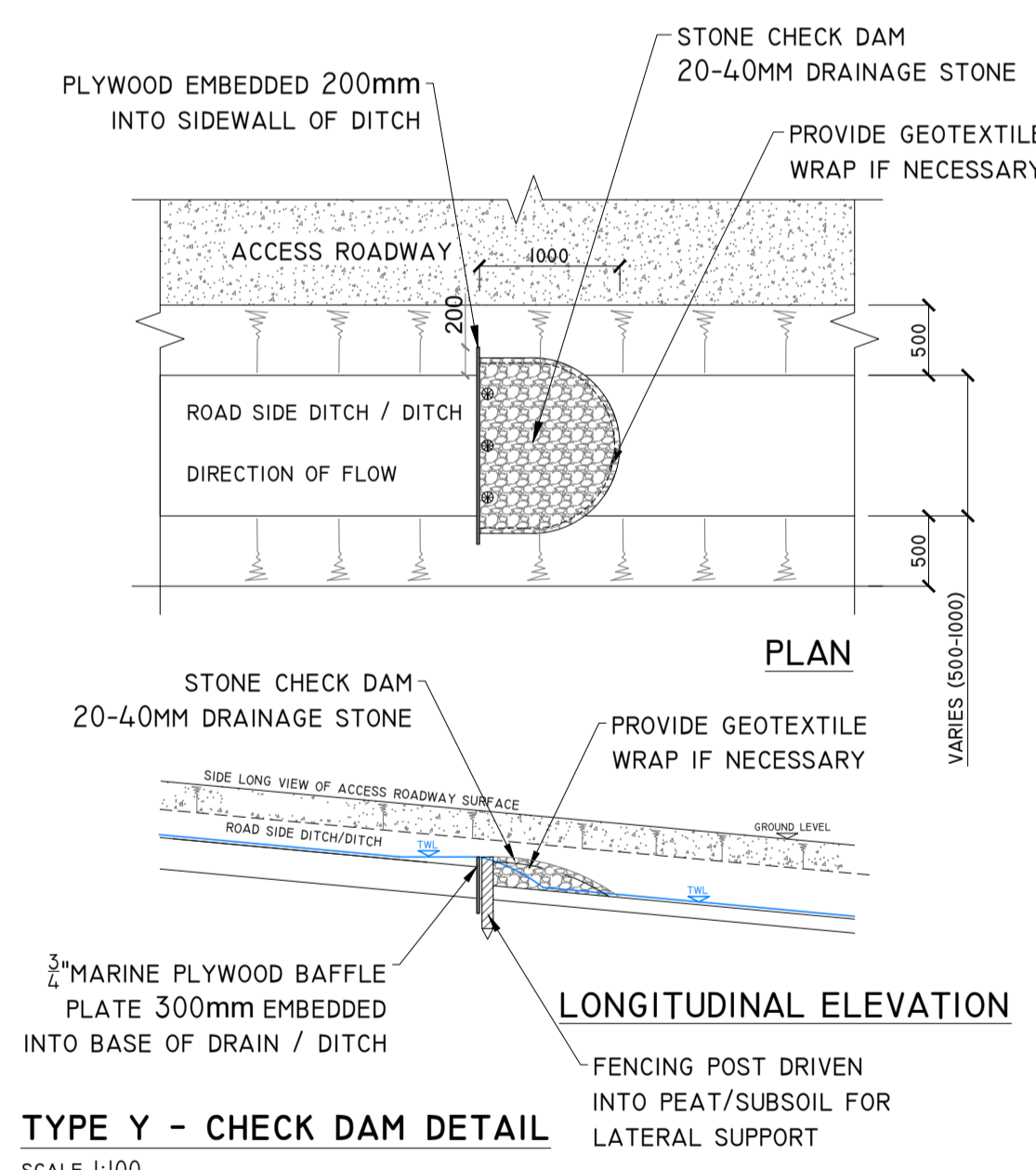
IZOMETRIC VIEW

DETAIL C

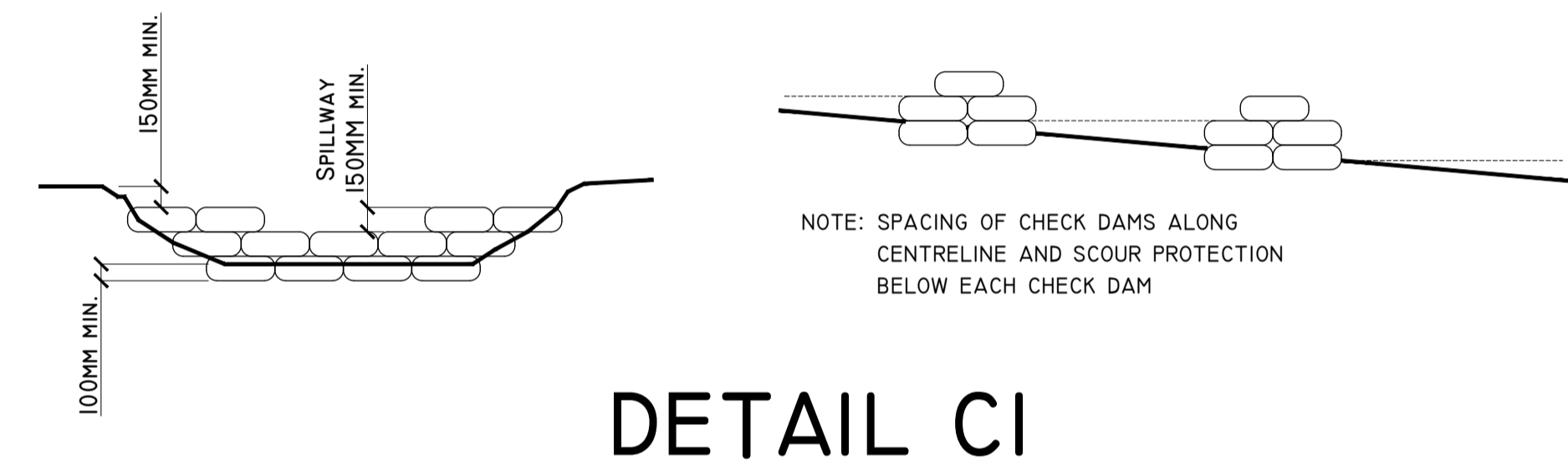


TYPE X - CHECK DAM DETAIL
SCALE 1:50

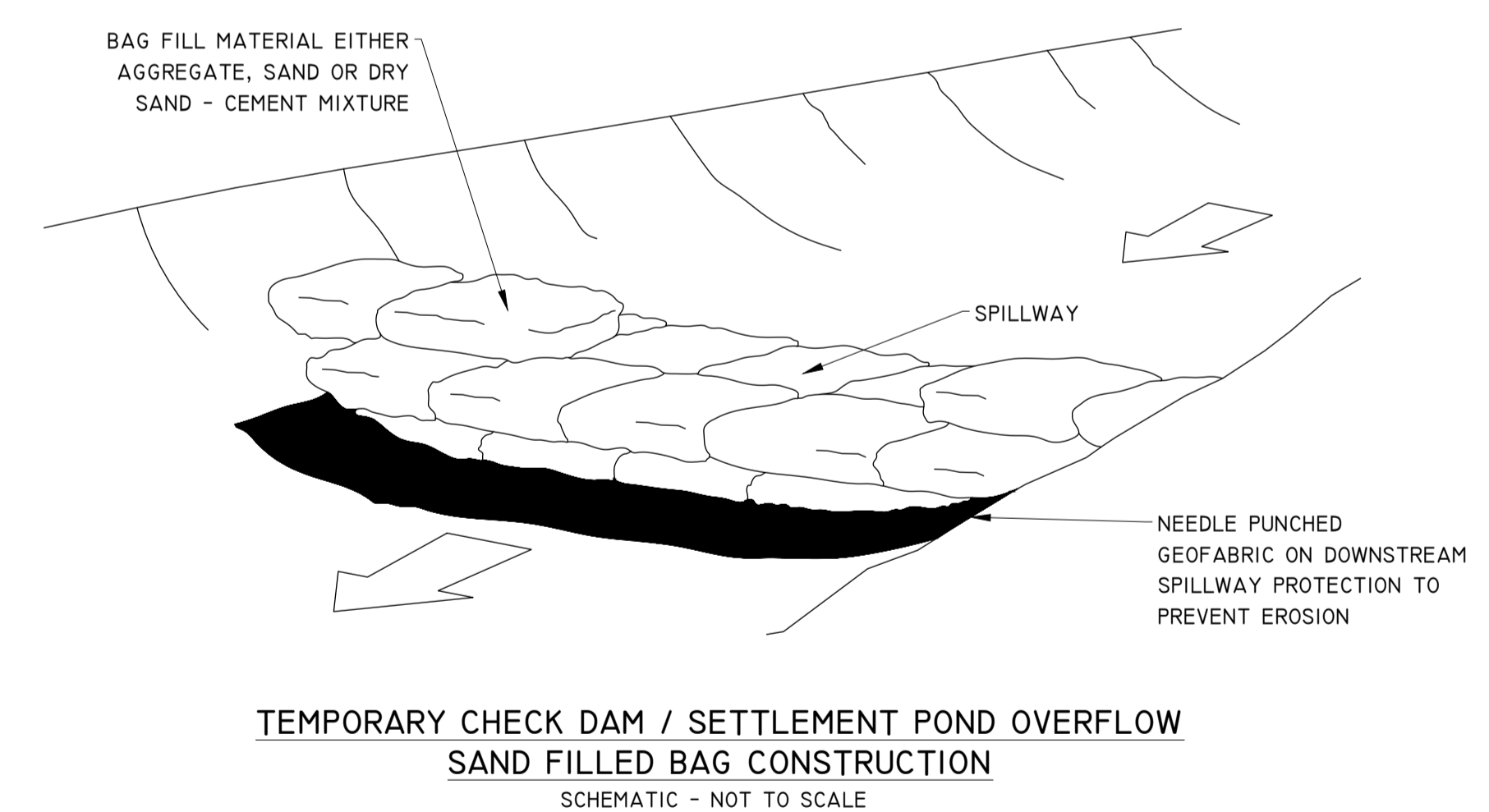
DETAIL D



TYPE Y - CHECK DAM DETAIL
SCALE 1:100

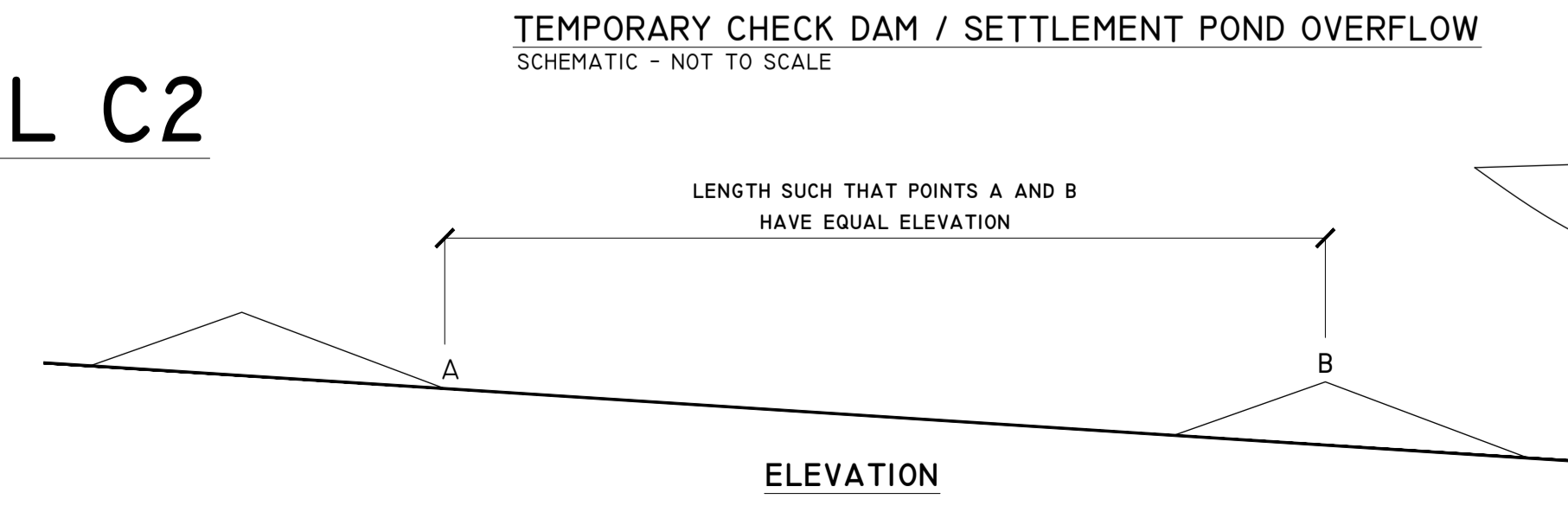


DETAIL CI

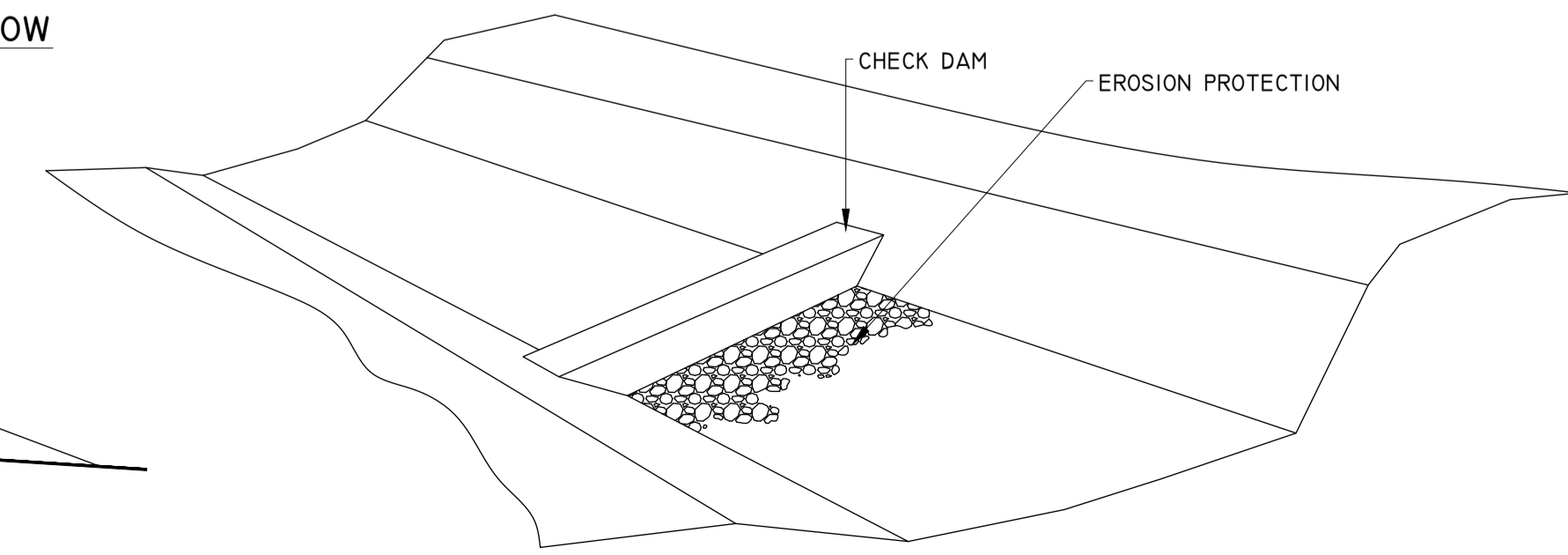


TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW
SAND FILLED BAG CONSTRUCTION
SCHEMATIC - NOT TO SCALE

DETAIL C2



TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW
SCHEMATIC - NOT TO SCALE



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24/11/23	Planning		MG	MG
Date	Description		Chkd	Signed
Revisions				

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tel: +353 (0) 58-44244
email: info@hydroenvironmental.ie
web: www.hydroenvironmental.ie

Client: MKO

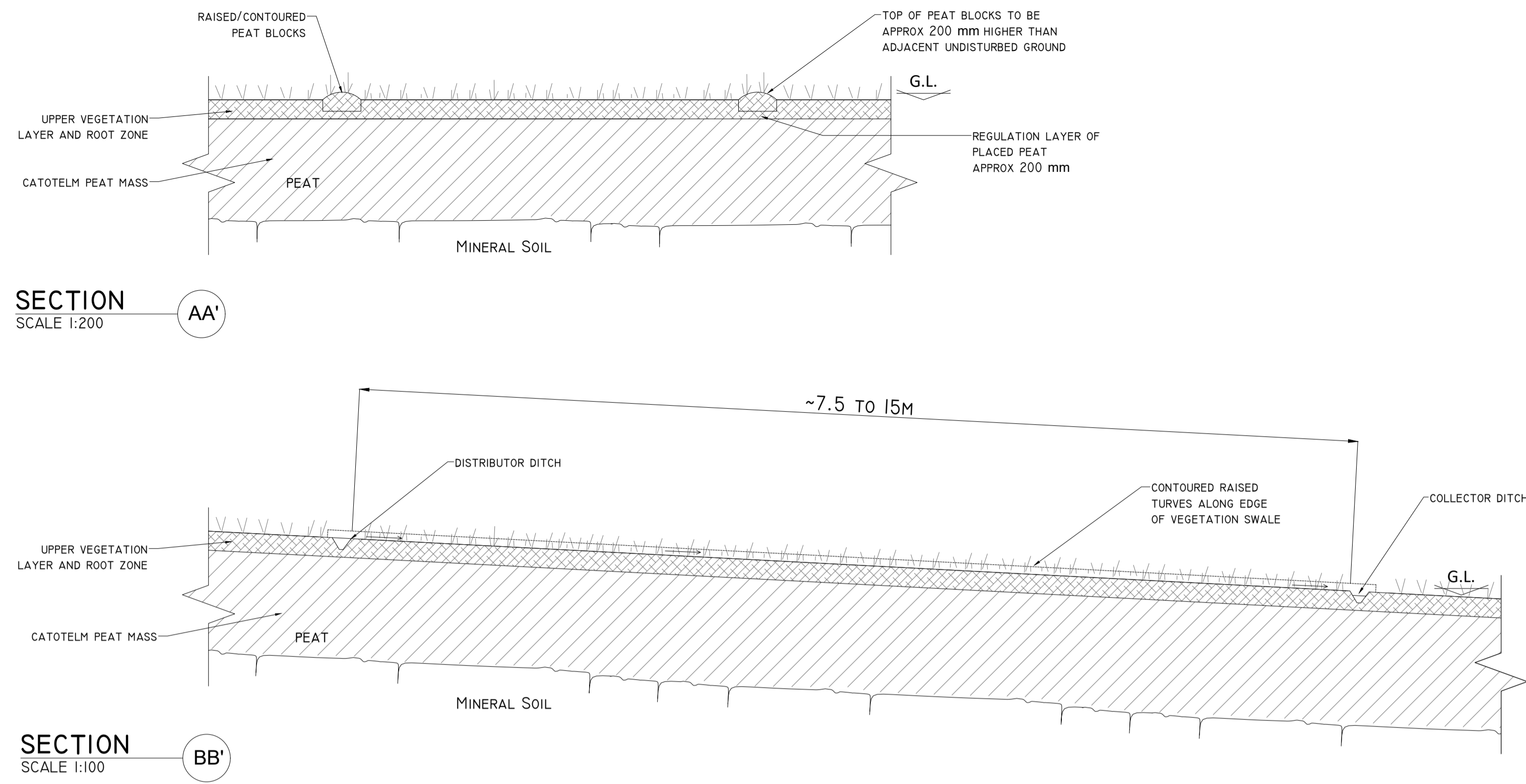
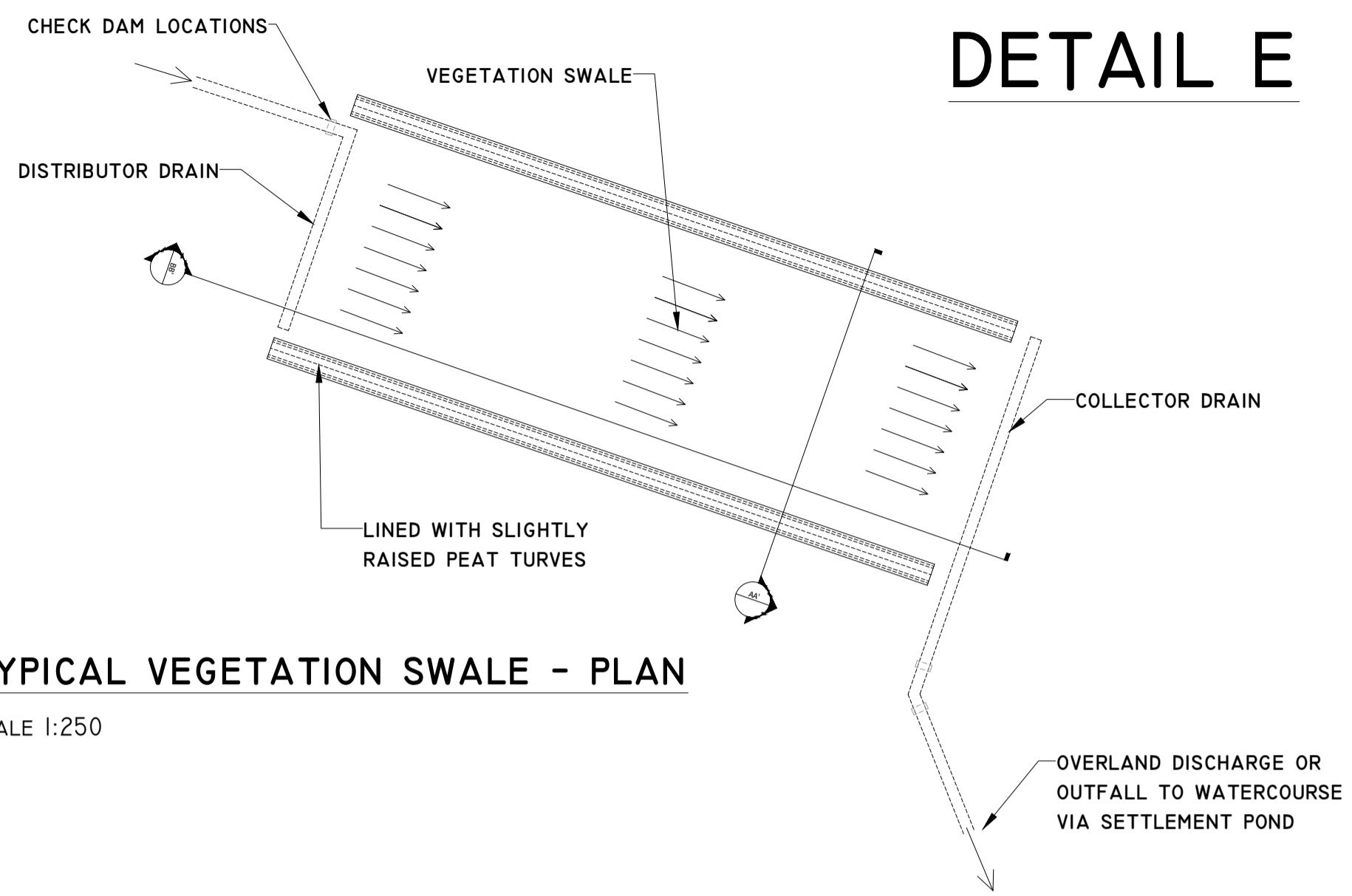
Job: BORRISBEG RENEWABLE ENERGY DEVELOPMENT

Title: DRAINAGE DETAILS 2

Figure No: D502

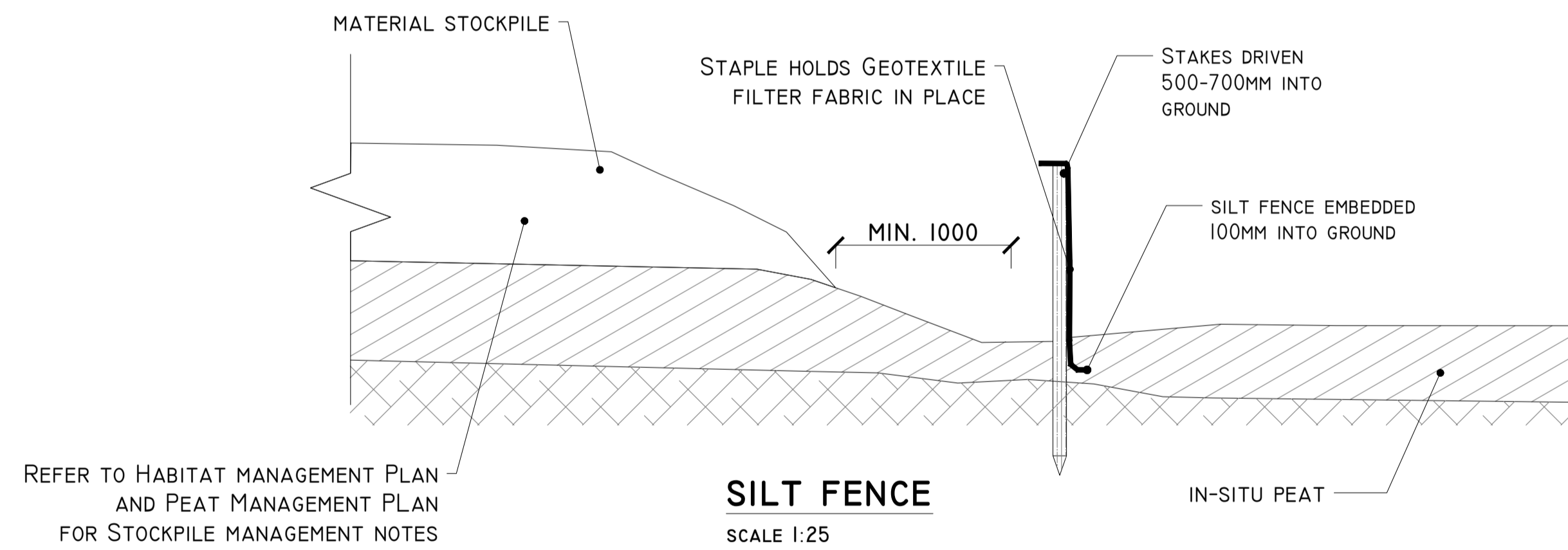
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Date: 24/11/2023

Project No.: P1619-0
Drawn By: MG/GD
Checked By: M.G.

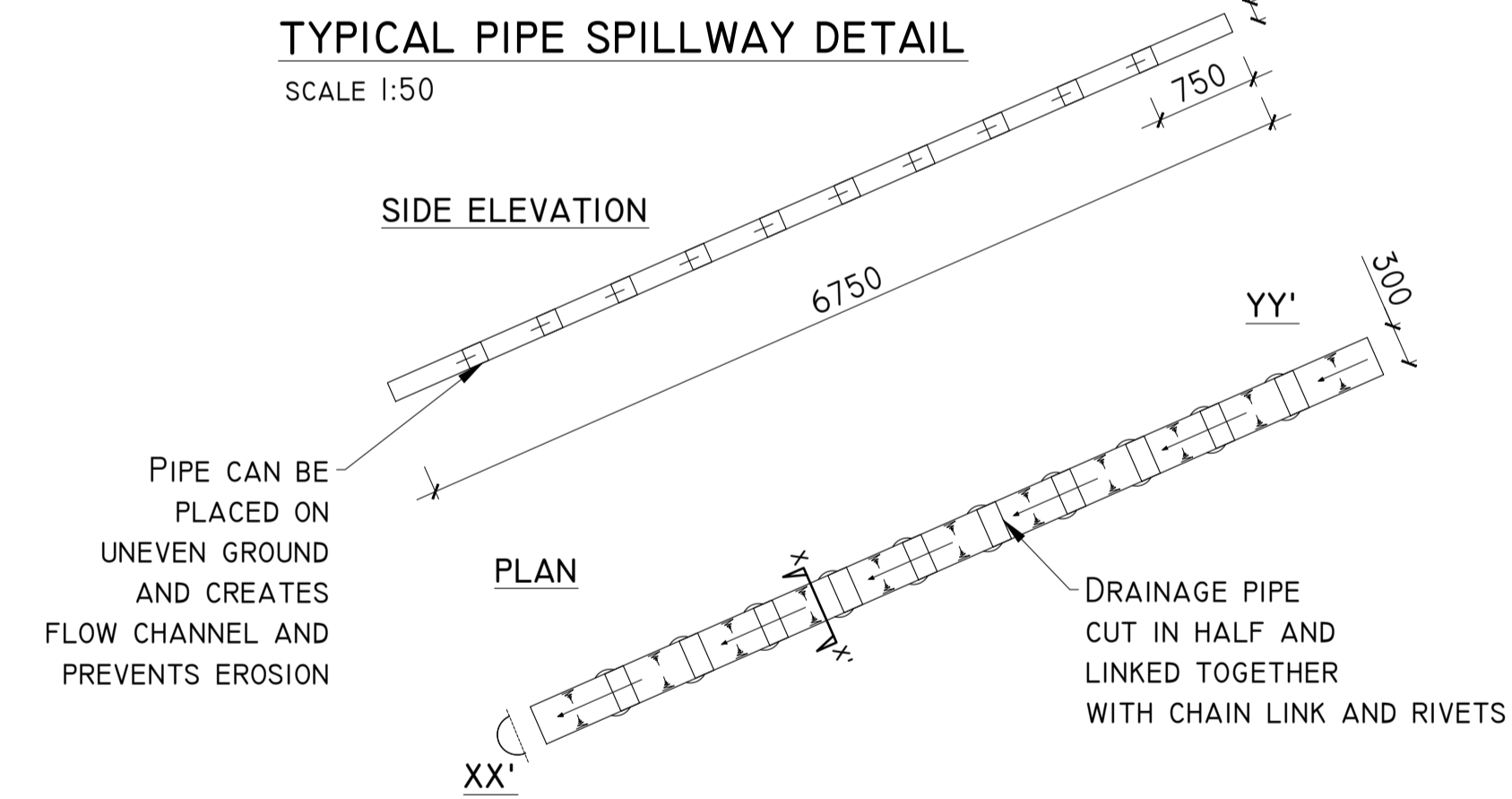


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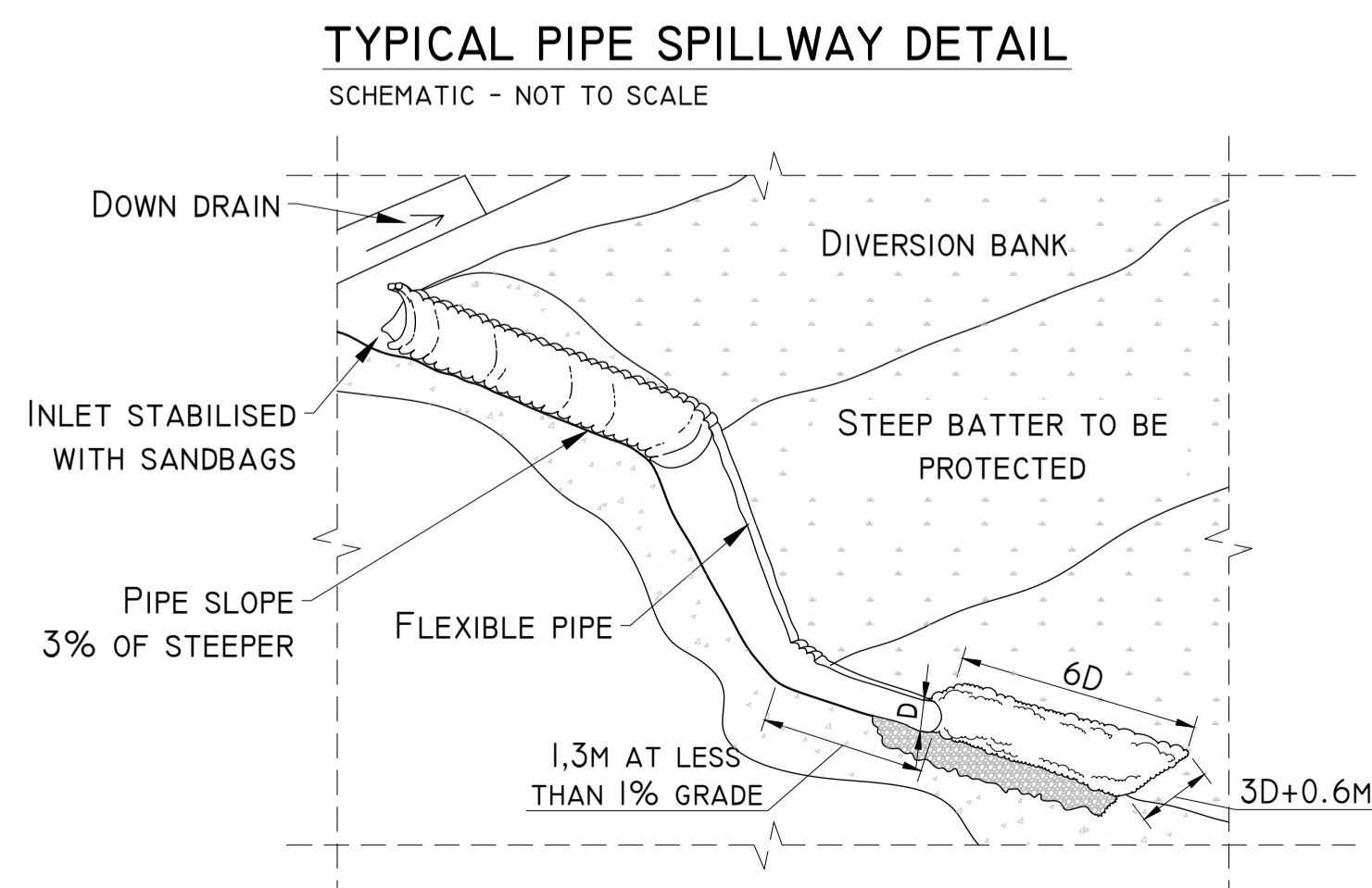
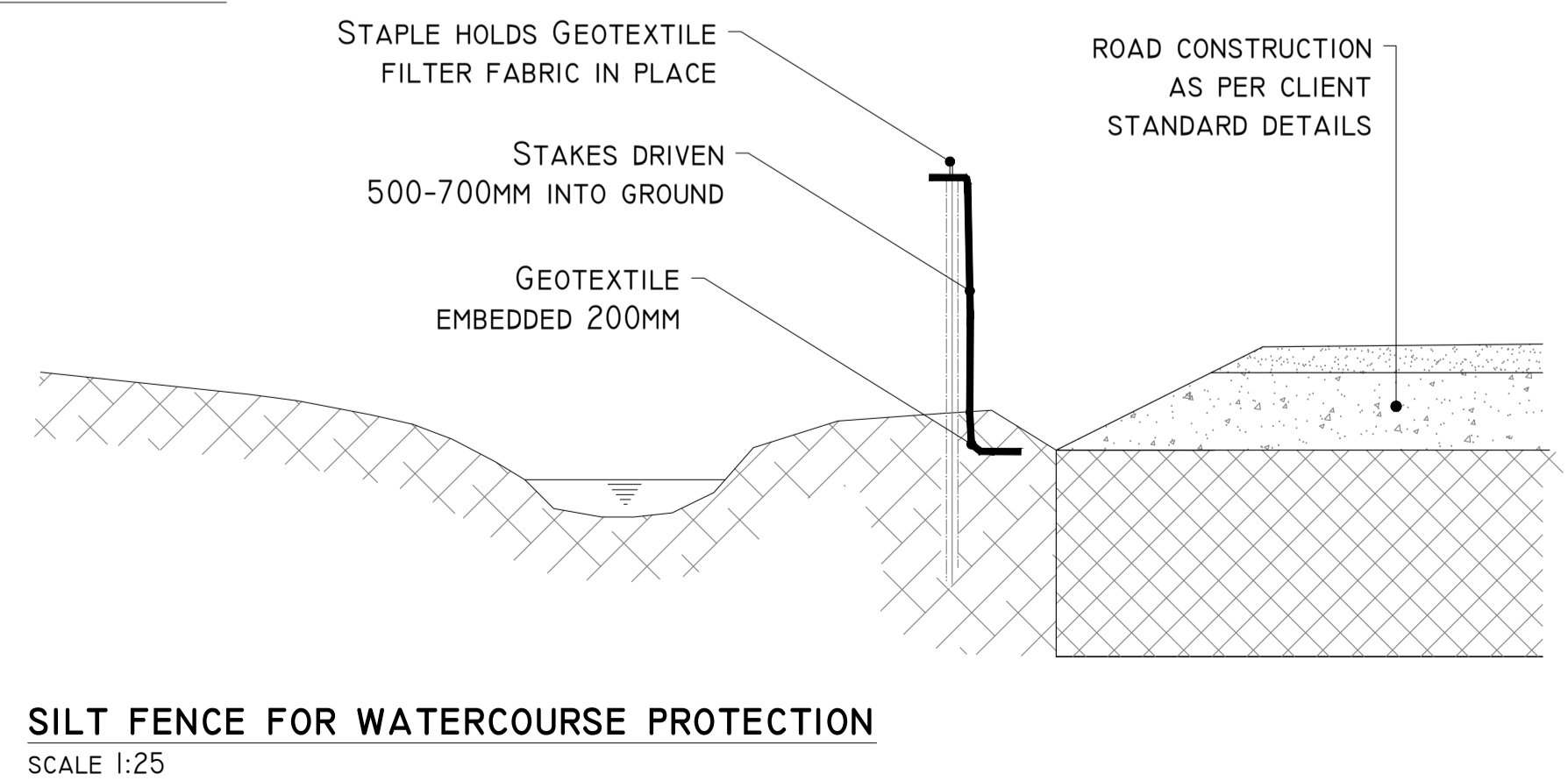
DETAIL F-I



DETAIL G



DETAIL F-II



24/11/23	Planning	MG	MG
Date	Description	Chkd	Signed
Revisions			

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Co. Wick
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tel: +353 (0) 58-44244
email: info@hydroenvironmental.ie
web: www.hydroenvironmental.ie

Client: MKO

Job: BORRISBEG RENEWABLE ENERGY DEVELOPMENT

Title: DRAINAGE DETAILS 3

Figure No: D503

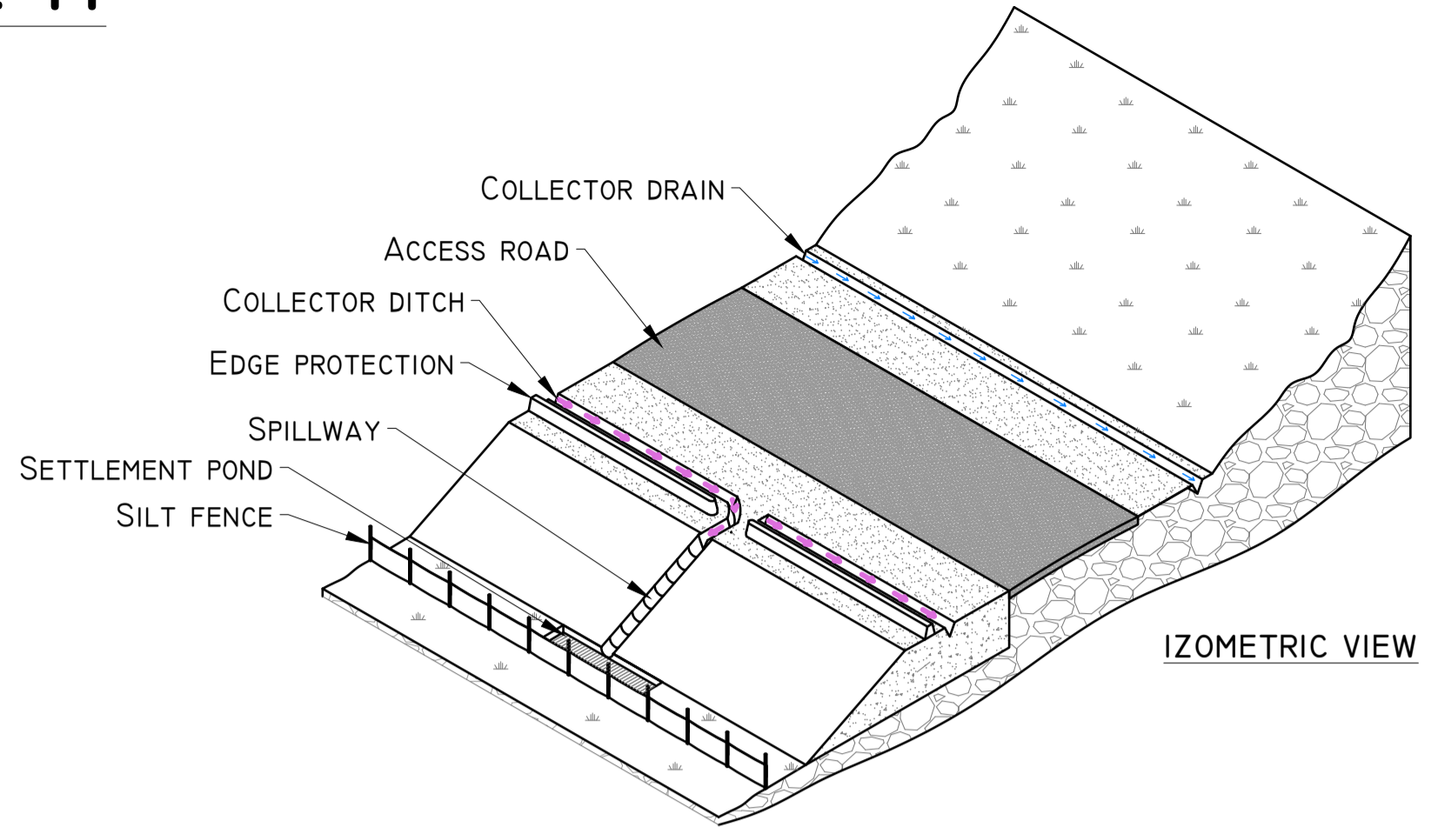
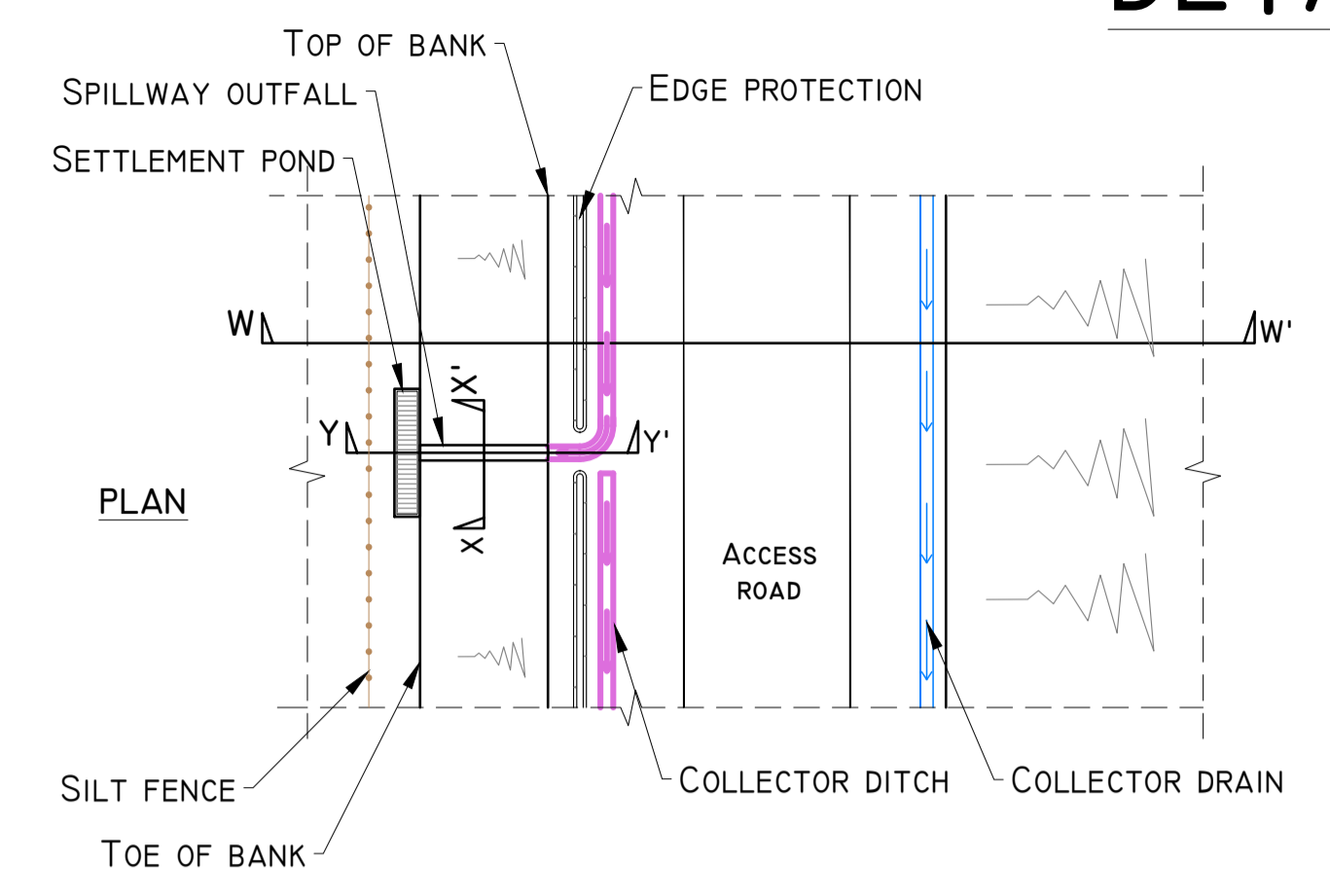
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Sheet Size: A1 Project No.: P1619-0

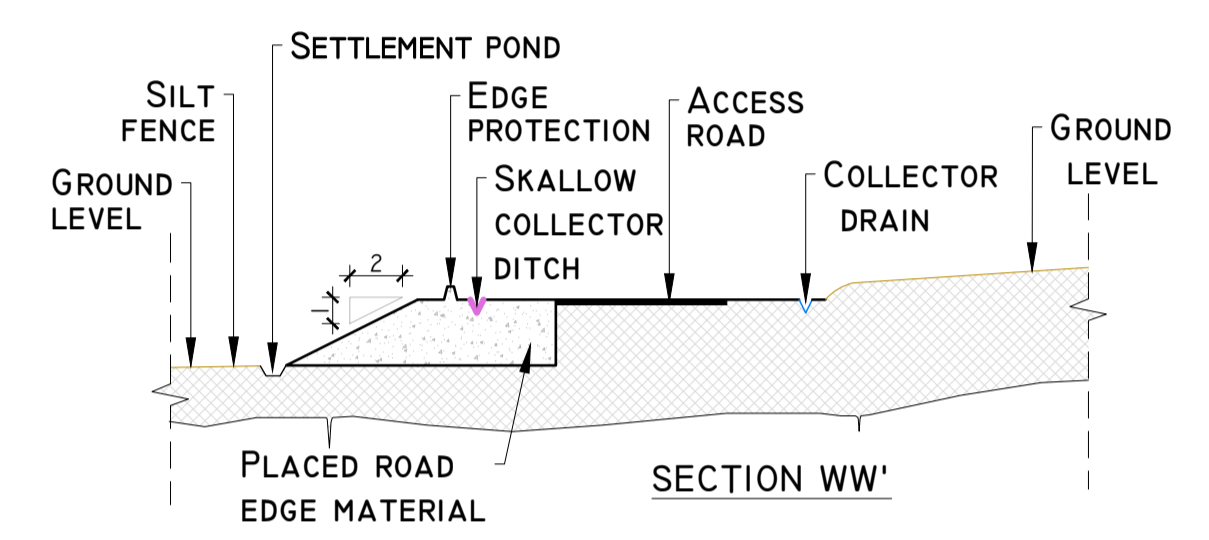
Scale: as shown (A1) Drawn By: MG/GD

Date: 24/11/2023 Checked By: M.G.

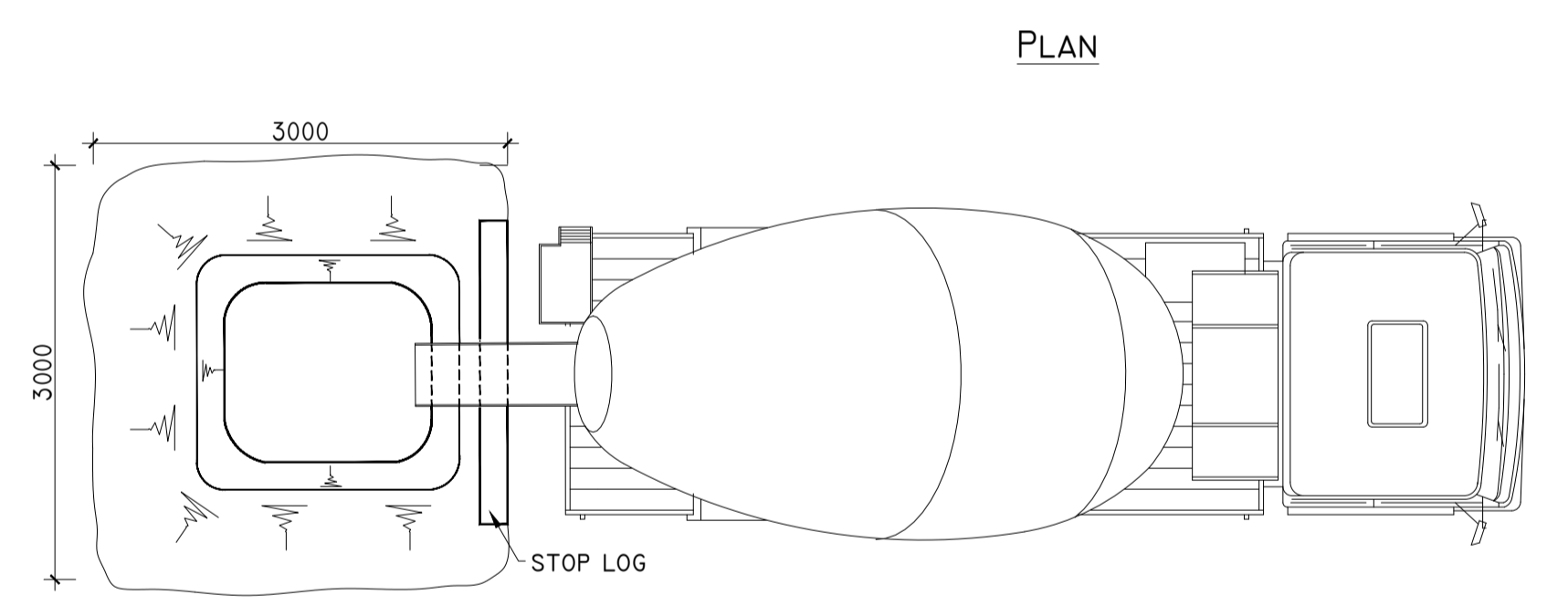
DETAIL H



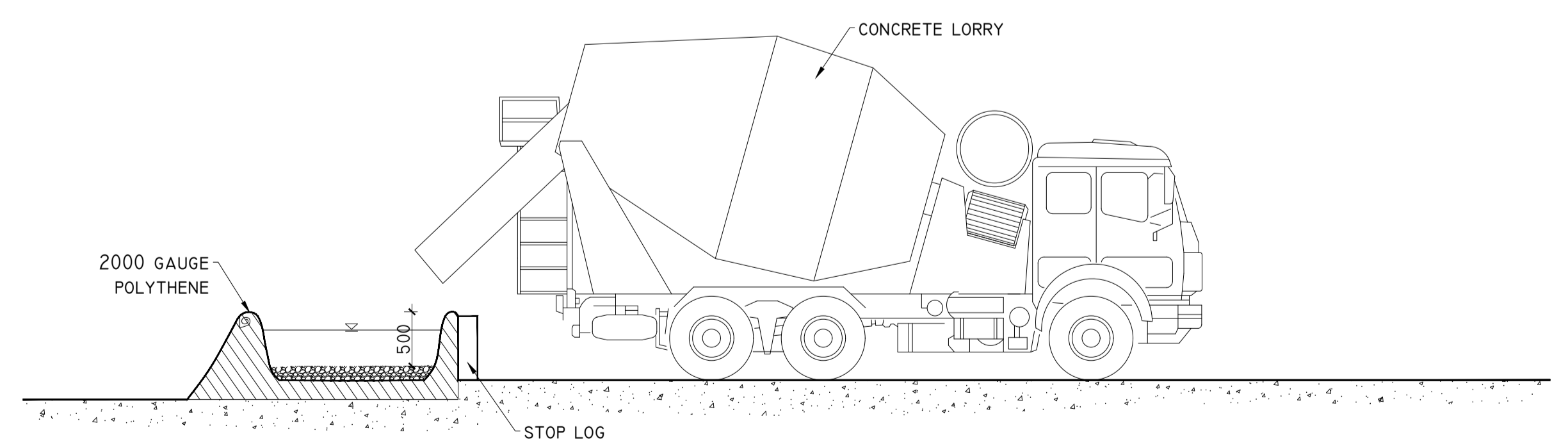
SPILLWAY OUTFALL PLAN
SCHEMATIC - NOT TO SCALE



TEMPORARY CONCRETE WASH OUT PIT
SCALE 1:50

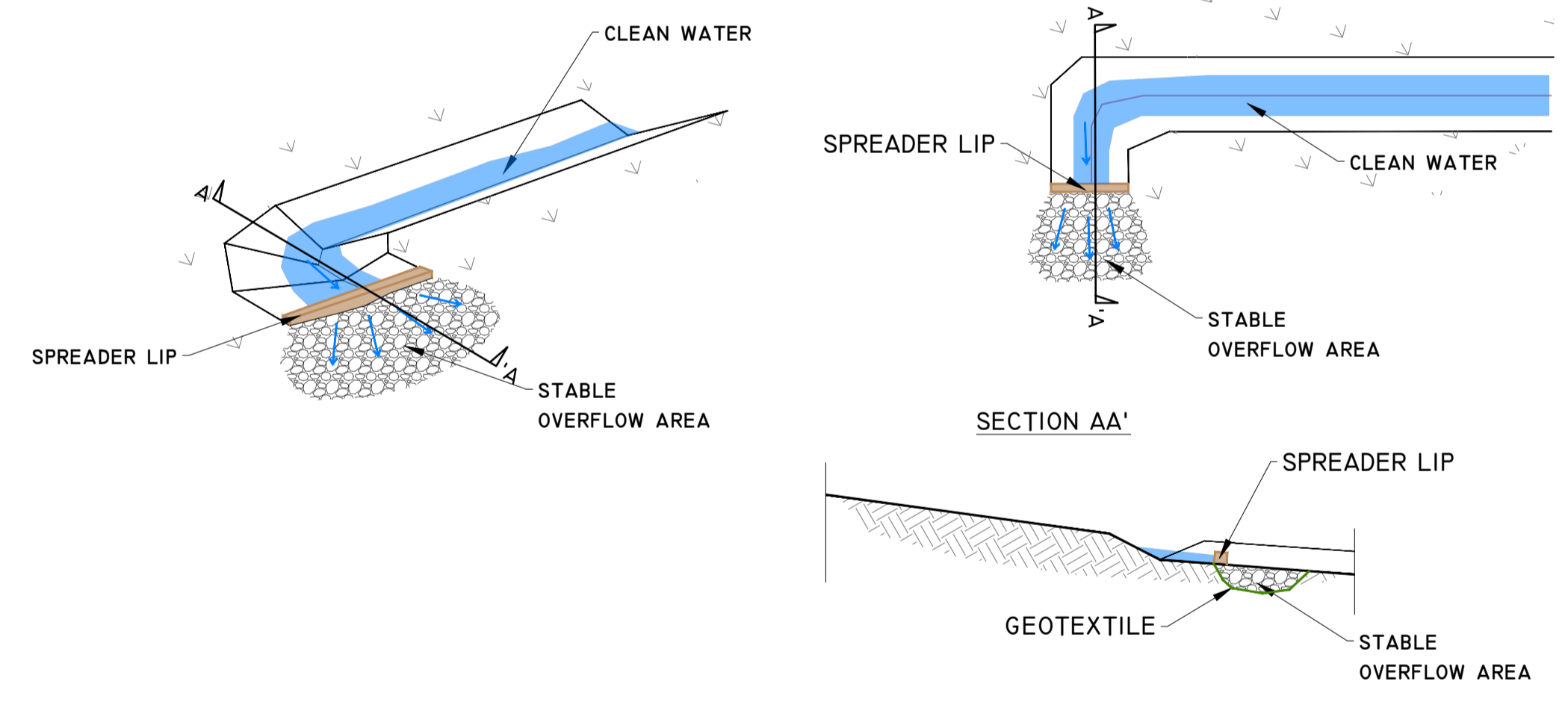


DETAIL I



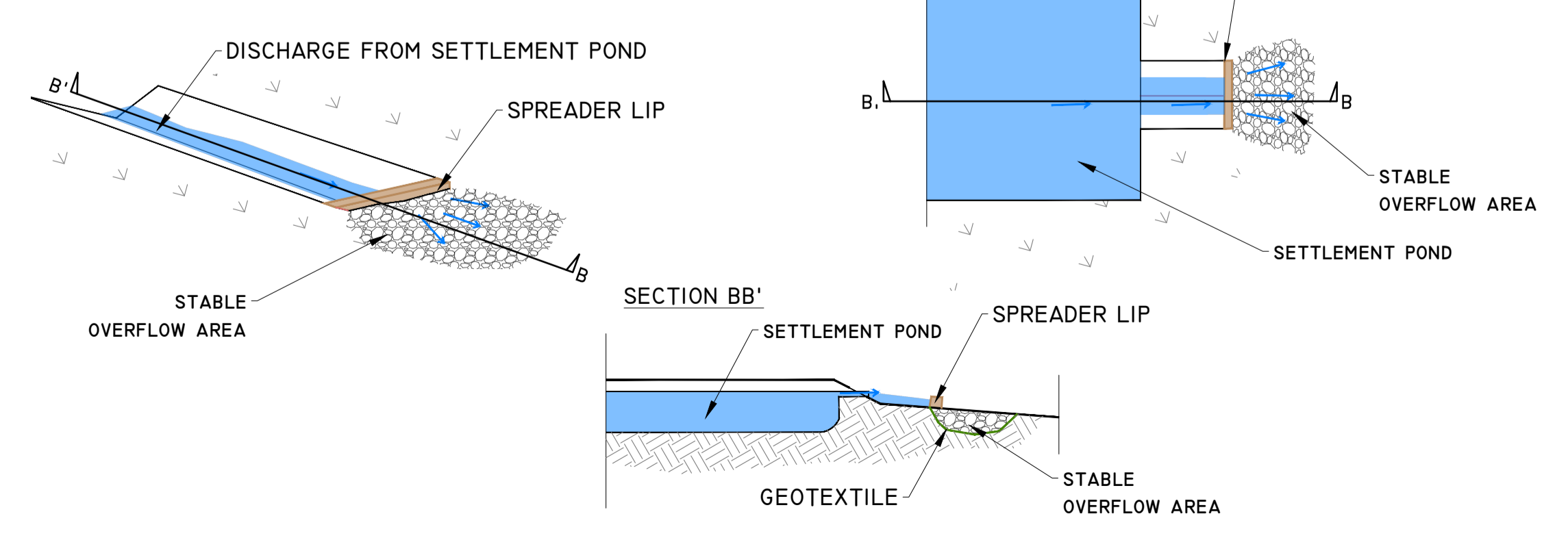
DETAIL J-1

LEVEL SPREADER DETAIL
SCHEMATIC - NOT TO SCALE



DETAIL J-2

LEVEL SPREADER DETAIL
SCHEMATIC - NOT TO SCALE



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Date	Description		Chkd	Signed
Revisions				

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Title: DRAINAGE DETAILS 4

Figure No: D504

Drawing No: P1619-0-1123-A1-D504-00A
Sheet Size: A1 Project No.: P1619-0
Scale: as shown (A1) Drawn By: MG/GD
Date: 24/11/2023 Checked By: M.G.