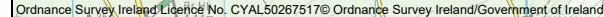
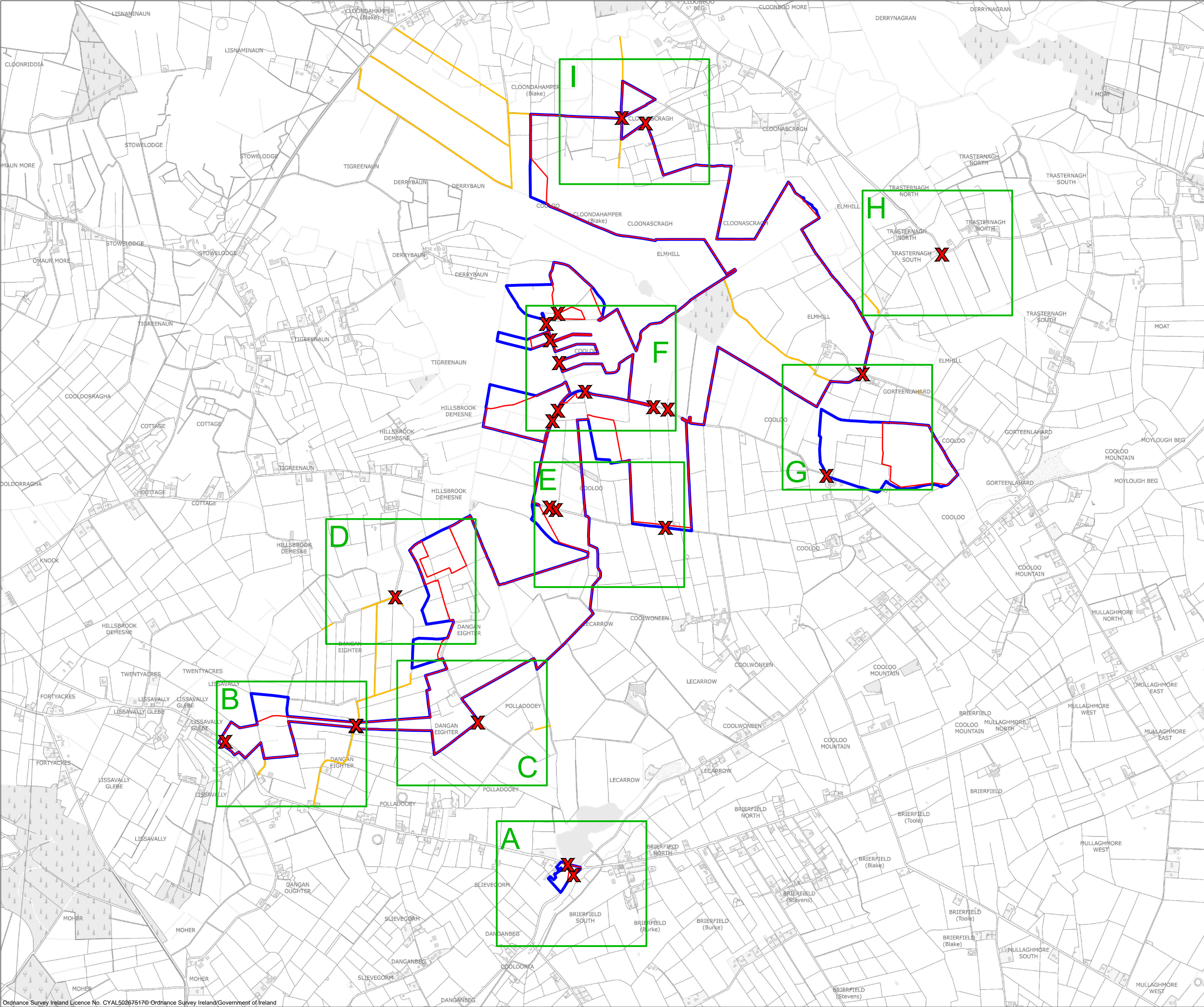




Schedule of Drawings

Drawing No.	Drawing Title	Size	Scale
190723- 01	Location Context Map	A3	1: 50,000
190723- 02	Site Location Map	A3	1: 20,000
190723- 02a	Site Notice Location Map A	A3	1:2,500
190723- 02b	Site Notice Location Map B	A3	1:2,500
190723- 02c	Site Notice Location Map C	A3	1:2,500
190723- 02d	Site Notice Location Map D	A3	1:2,500
190723- 02e	Site Notice Location Map E	A3	1:2,500
190723- 02f	Site Notice Location Map F	A3	1:2,500
190723- 02g	Site Notice Location Map G	A3	1:2,500
190723- 02h	Site Notice Location Map H	A3	1:2,500
190723- 02i	Site Notice Location Map I	A3	1:2,500
190723- 03	Site Layout Key Plan (1:5,000)	A3	1: 20,000
190723- 04	Site Layout Sheet 1 of 2	A1	1: 5,000
190723- 05	Site Layout Sheet 2 of 2	A1	1: 5,000
190723- 06	Site Layout Key Plan (1:2,500)	A3	1: 20,000
190723- 07	Site Layout Sheet 1 of 7	A1	1: 2,500
190723- 08	Site Layout Sheet 2 of 7	A1	1: 2,500
190723- 09	Site Layout Sheet 3 of 7	A1	1: 2,500
190723- 10	Site Layout Sheet 4 of 7	A1	1: 2,500
190723- 11	Site Layout Sheet 5 of 7	A1	1: 2,500
190723- 12	Site Layout Sheet 6 of 7	A1	1: 2,500
190723- 13	Site Layout Sheet 7 of 7	A1	1: 2,500
190723- 14	Turbine 1 Layout Sheet	A1	1: 500
190723- 15	Turbine 2 Layout Sheet	A1	1: 500
190723- 16	Turbine 3 Layout Sheet	A1	1: 500
190723- 17	Turbine 4 Layout Sheet	A1	1: 500
190723- 18	Turbine 5 Layout Sheet	A1	1: 500
190723- 19	Turbine 6 Layout Sheet	A1	1: 500
190723- 20	Turbine 7 Layout Sheet	A1	1: 500
190723- 21	Turbine 8 Layout Sheet	A1	1: 500
190723- 22	Turbine 9 Layout Sheet	A1	1: 500
190723- 23	Wind Turbine Elevation & Plan	A1	1: 500
190723- 24	Gravity Foundations Details	A3	As Shown
190723- 25	Bored Pile Foundations Details	A3	As Shown
190723- 26	Driven Pile Foundations Details	A3	As Shown
190723- 27	Temporary Construction Compound	A3	1: 500
190723- 28	Met Mast	A3	1: 500
190723- 29	Operational Signage Detail	A3	1: 20
190723- 30	Wheel Wash Detail	A3	1: 50
190723- 31	Field Gate Detail	A3	1: 20
190723- 32	Site Office & Staff Facilities Detail	A3	1: 100
190723- 34	Building for Demolition	A3	1: 100
190723 - 35	Clear Span Watercourse Crossing	A3	1: 50
190723- 36	Biodiversity Enhancement and Management Proposals	A3	1: 15,000
190723- 37	Proposed Access Junction 1	A3	1: 1,000
190723- 38	Proposed Access Junction 2	A3	1: 1,000
190723- 39	Proposed Access Junction 3	A3	1: 1,000
190723- 40	Proposed Access Junction 4	A3	1: 1,000
190723- 41	Proposed Access Junction 5	A3	1: 1,000
190723 - 42	Temporary Boundary Treatment Works	A3	As Shown
190723 - 43	33kv Cable Trench Sections	A3	1:10
Hydro Environmental Services (HES)			
P1611-0-0925-A1-D501-00B	Drainage Details 1	A1	As Shown
P1611-0-0925-A1-D502-00B	Drainage Details 2	A1	As Shown
P1611-0-0925-A1-D503-00B	Drainage Details 3	A1	As Shown
P1611-0-0925-A1-D101-00B	D101 Proposed Drainage Layout	A1	1: 2,000
P1611-0-0925-A1-D102-00B	D102 Proposed Drainage Layout	A1	1: 2,000
P1611-0-0925-A1-D103-00B	D103 Proposed Drainage Layout	A1	1: 2,000
P1611-0-0925-A1-D104-00B	D104 Proposed Drainage Layout	A1	1: 2,000
P1611-0-0925-A1-D105-00B	D105 Proposed Drainage Layout	A1	1: 2,000
Gavin & Doherty Geosolutions (GDG)			
22098-GDG-ZZ-XX-DR-C-0100	Access Road Standard Details	A1	1: 25
22098-GDG-ZZ-XX-DR-C-0101	Peat and Spoil Repository Area Typical Details	A1	As Shown





- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

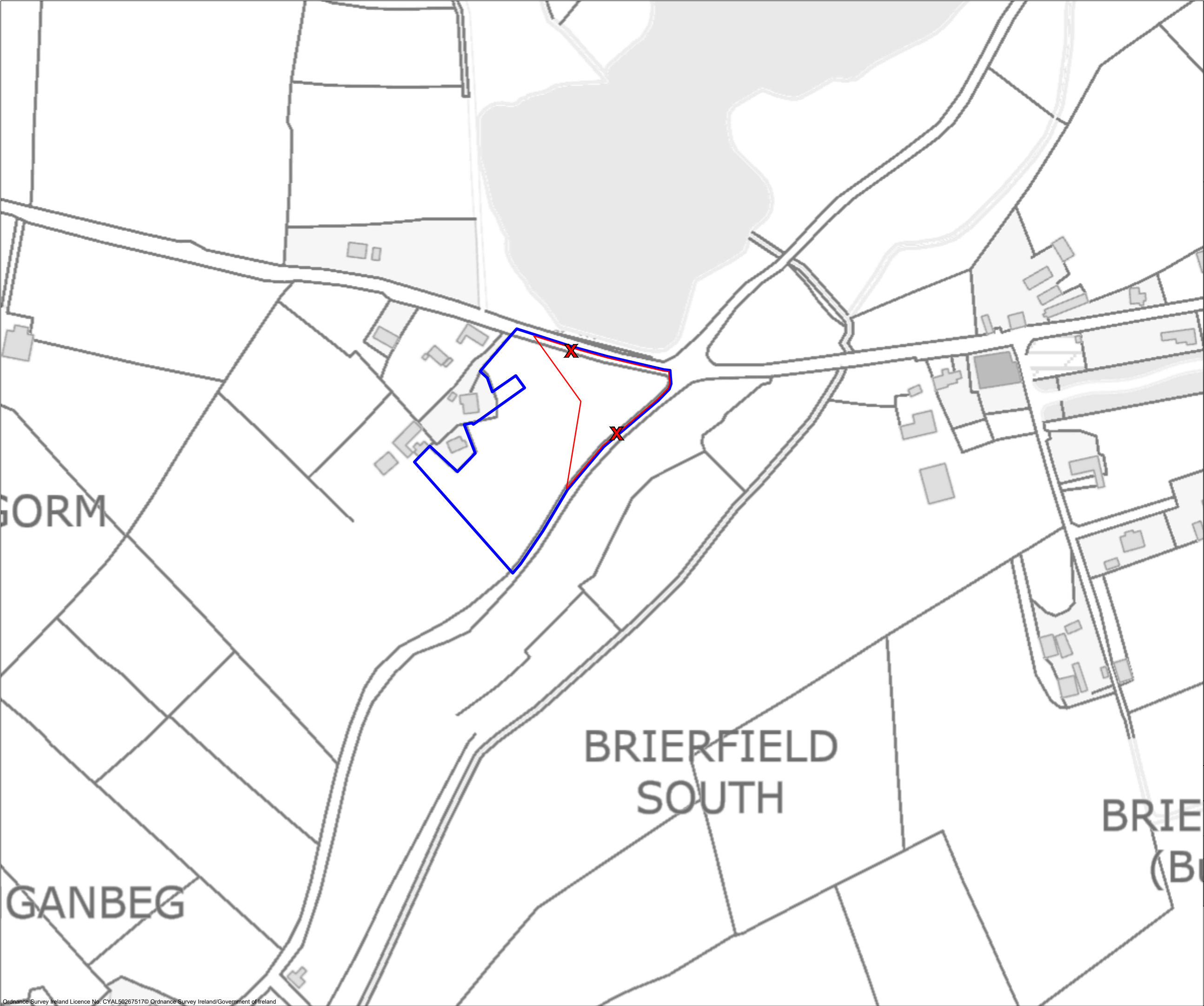
Drawing Legend

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

PROJECT TITLE: Cooloo Wind Farm, Co. Galway		
DRAWING TITLE: Site Notice Location Map		
PROJECT No.: 190723	DRAWING No.: 190723 - 02	SCALE: 1:20,000 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954		



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



Project Design Drawing Notes

1. Drawings issued are for planning application purposes only.
2. Drawings not to be used for construction/contract conditions.
3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
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 Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

Planning Application Boundary

Landowners Boundary

X

Site Notice



PROJECT TITLE: **Cooloo Wind Farm,
Co. Galway**

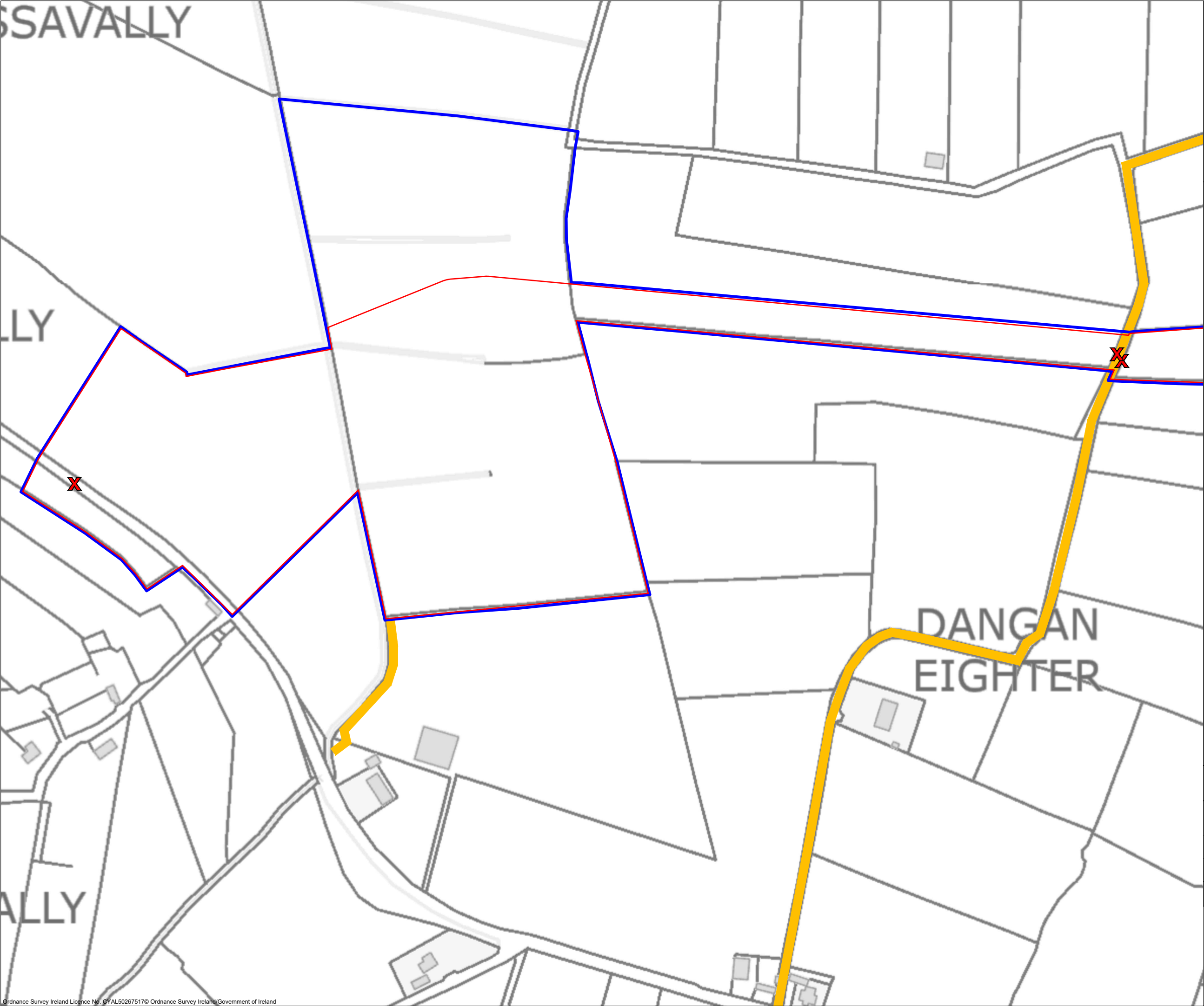
DRAWING TITLE: **Site Notice Location Map
Sheet A**

PROJECT No.: 190723		DRAWING No.: 190723 - 02A		SCALE: 1:2,500 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01	

OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954



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



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

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



PROJECT TITLE: **Cooloo Wind Farm, Co. Galway**

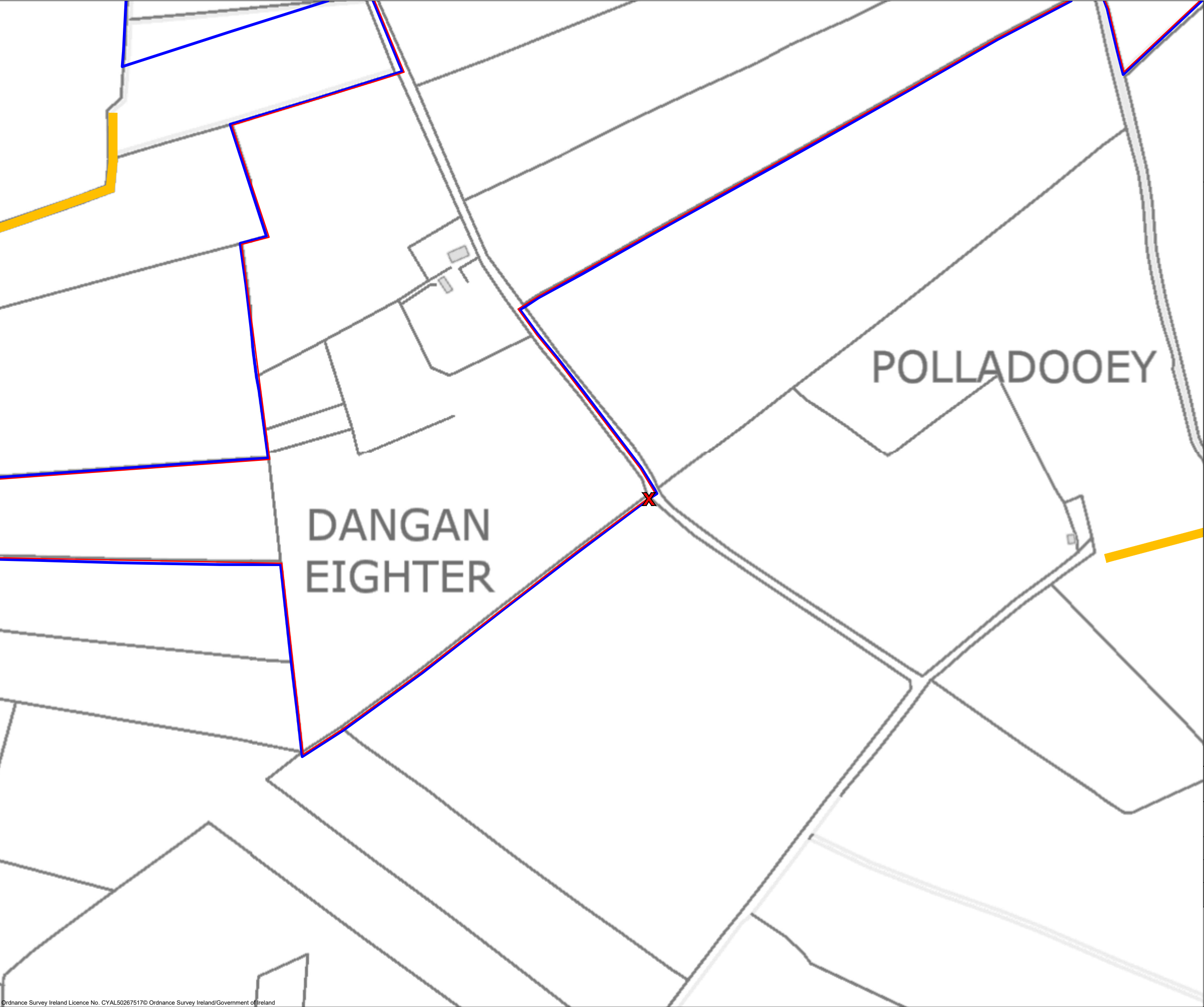
DRAWING TITLE: **Site Notice Location Map Sheet B**

PROJECT No.: 190723	DRAWING No.: 190723 - 02B	SCALE: 1:2,500 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025
		REVISION.: P01

OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954



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



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

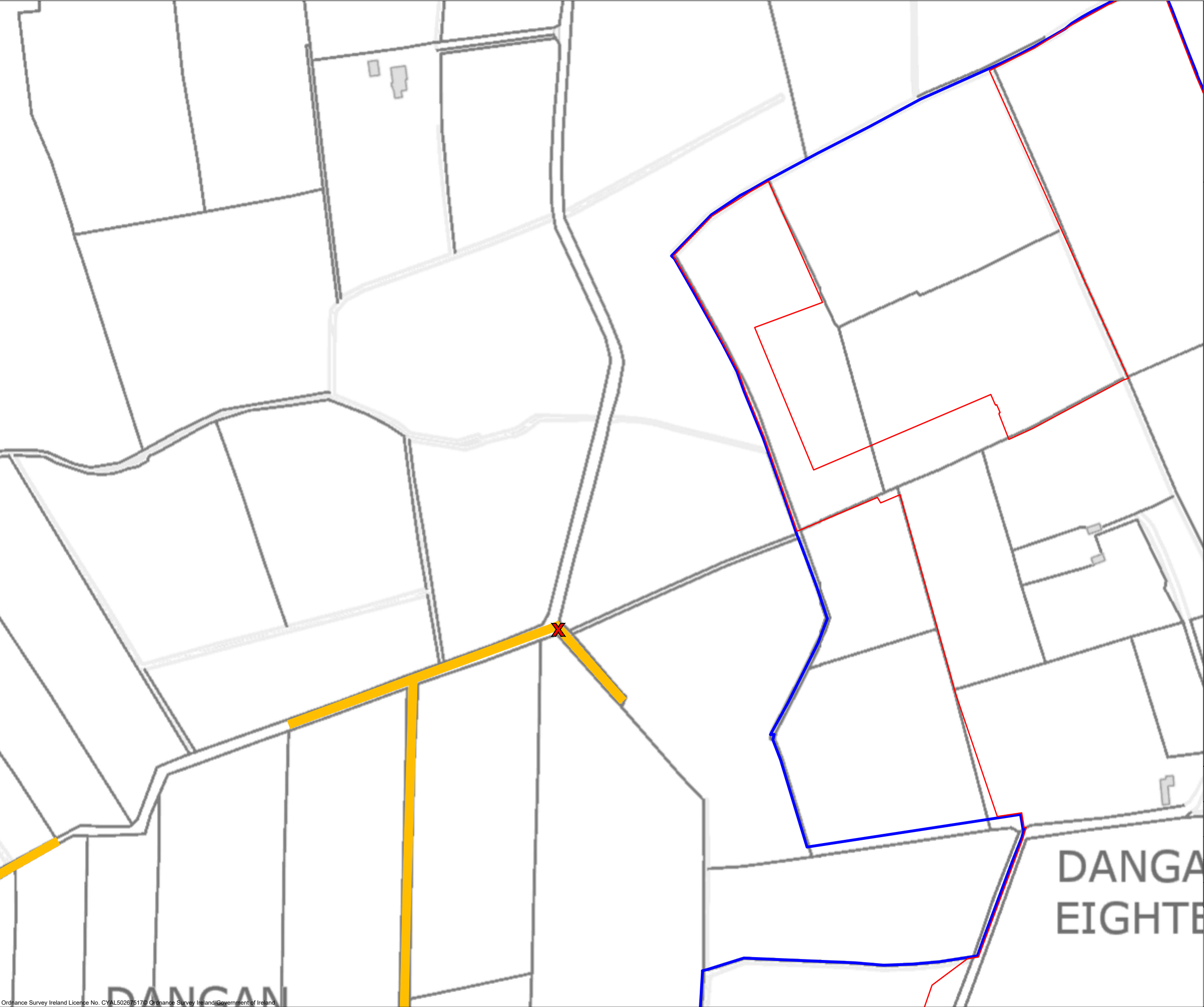
- Planning Application Boundary
- Landowners Boundary
- Site Notice
- Wayleaves



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Notice Location Map Sheet C			
PROJECT No.: 190723	DRAWING No.: 190723 - 02C	SCALE: 1:2,500 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

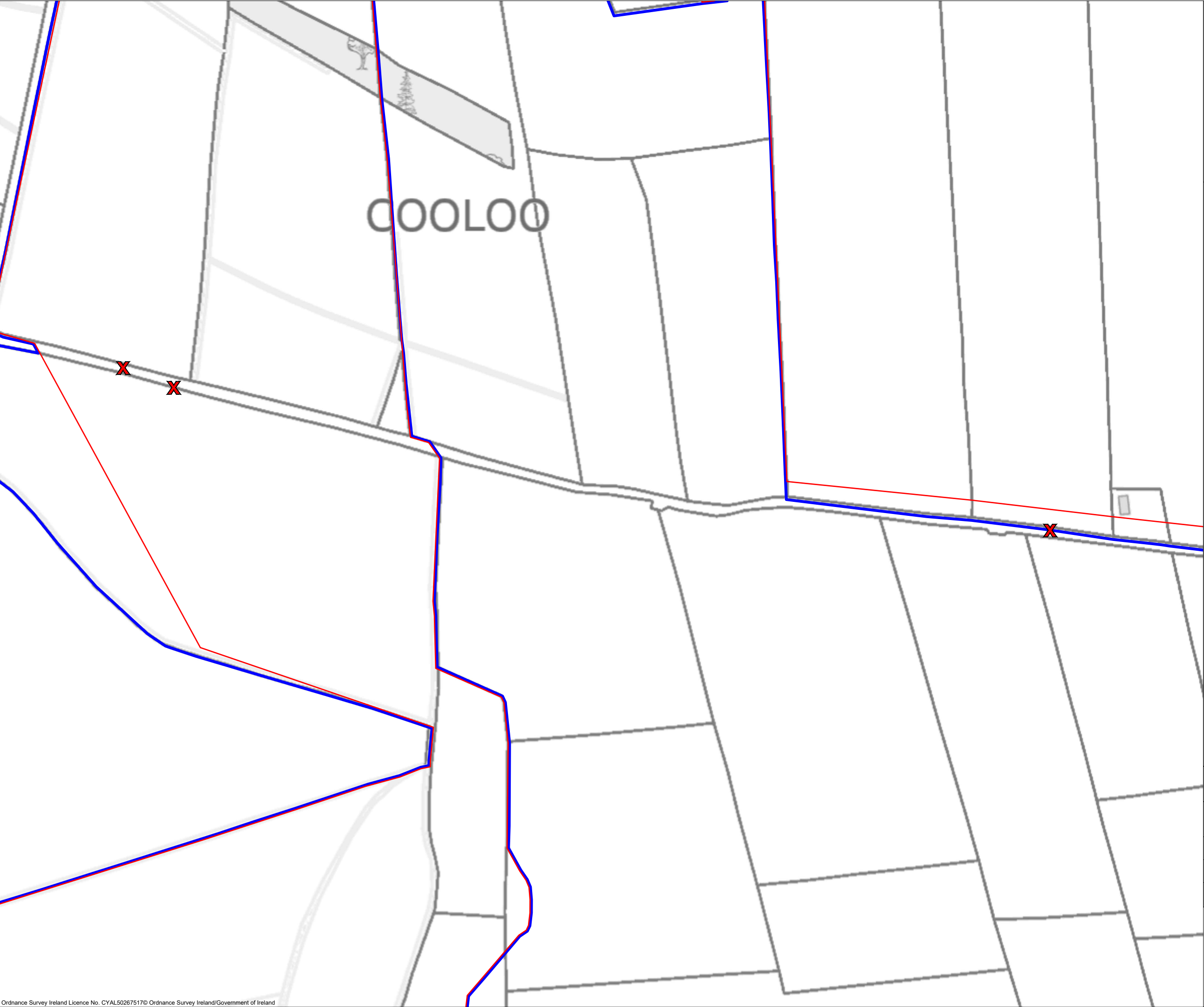
- Planning Application Boundary
- Landowners Boundary
- X Site Notice
- Wayleaves



PROJECT TITLE: Coolloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Notice Location Map Sheet D			
PROJECT No.: 190723	DRAWING No.: 190723 - 02D	SCALE: 1:2,500 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



Project Design Drawing Notes

1. Drawings issued are for planning application purposes only.
2. Drawings not to be used for construction/contract conditions.
3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
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 Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

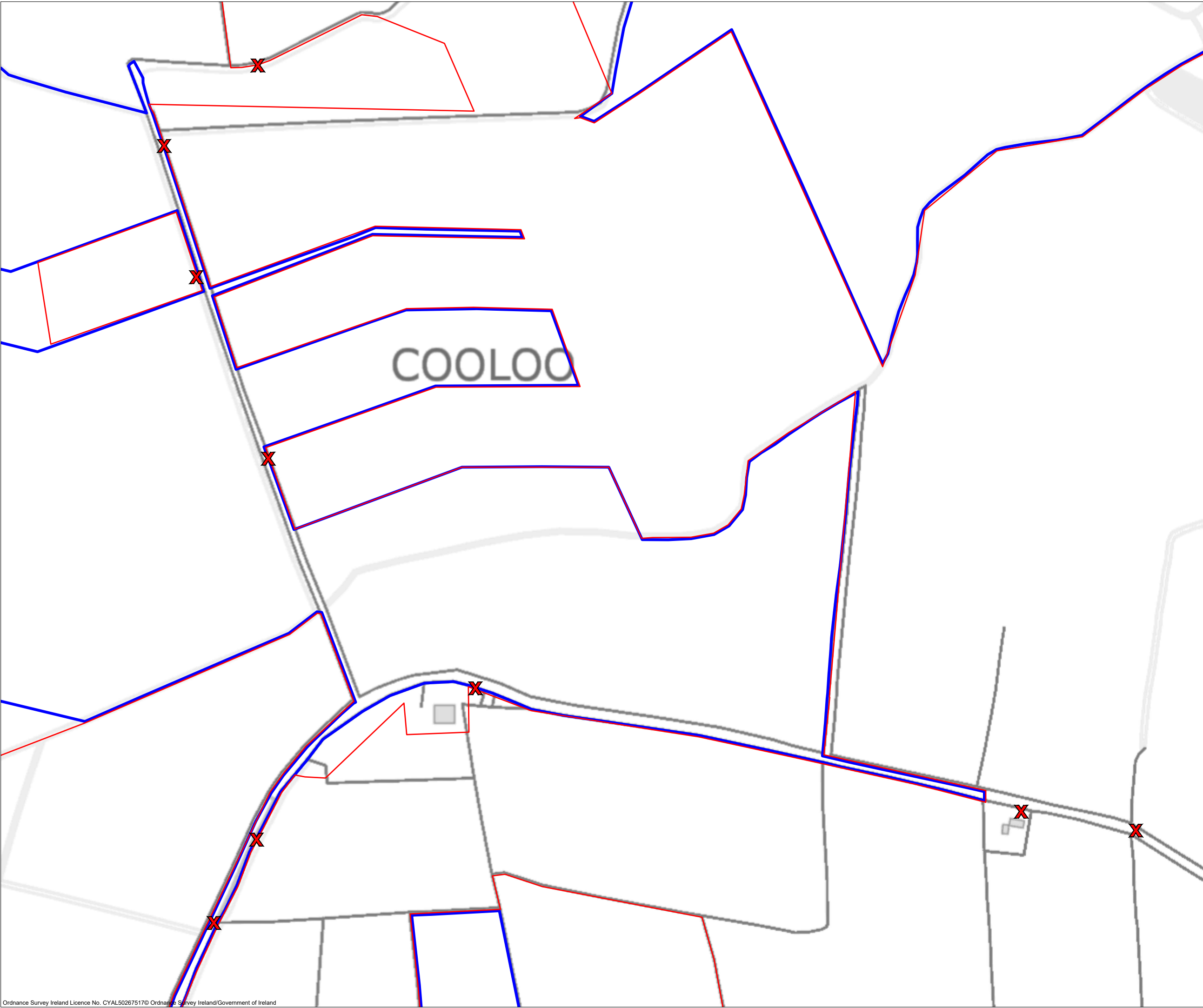
Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- X Site Notice



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Notice Location Map Sheet E			
PROJECT No.: 190723	DRAWING No.: 190723 - 02E	SCALE: 1:2,500 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			





Project Design Drawing Notes

1. Drawings issued are for planning application purposes only.
2. Drawings not to be used for construction/contract conditions.
3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
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 Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

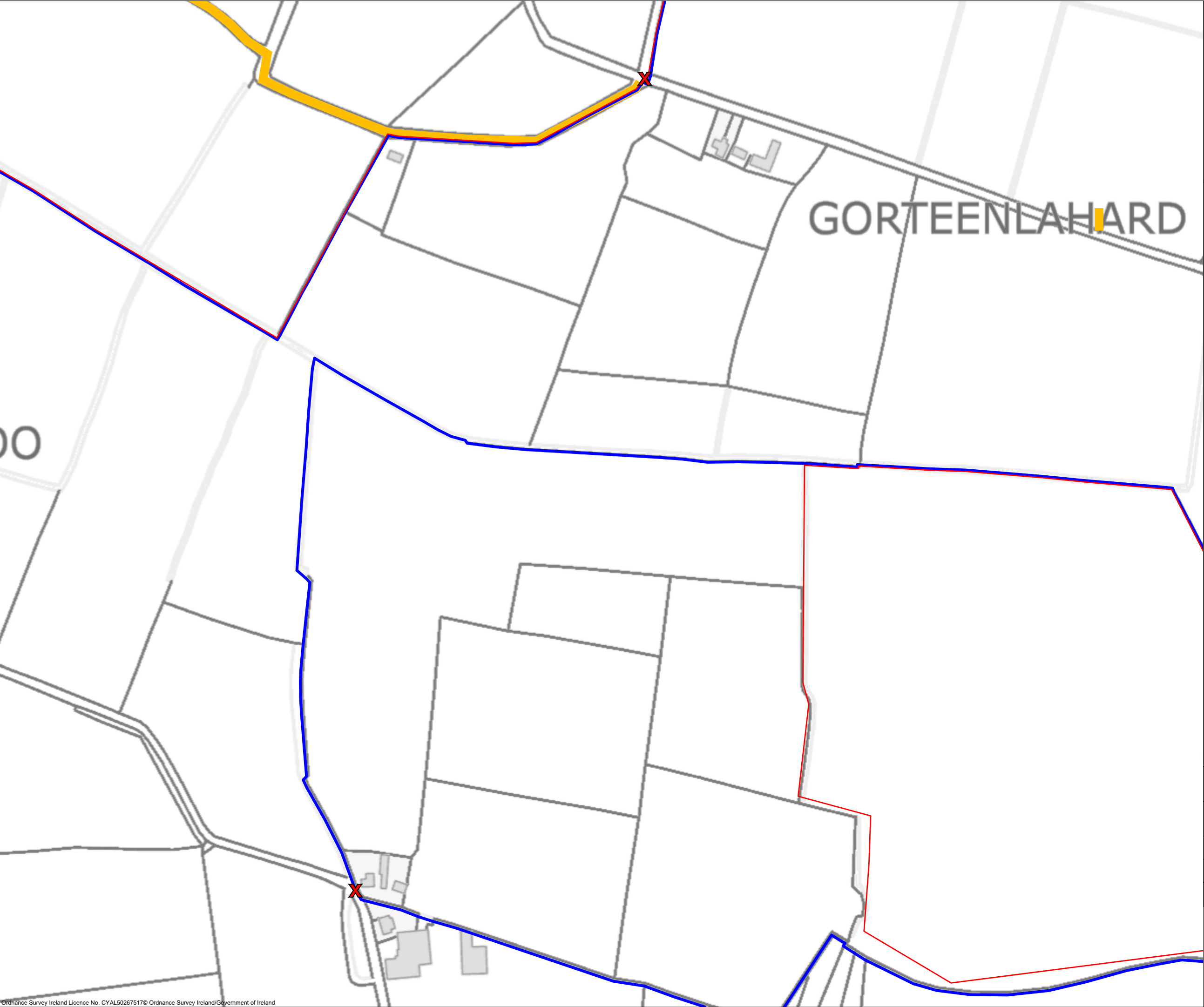
- Planning Application Boundary
- Landowners Boundary
- X Site Notice



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Notice Location Map Sheet F			
PROJECT No.: 190723	DRAWING No.: 190723 - 02F		SCALE: 1:2,500 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



Project Design Drawing Notes

1. Drawings issued are for planning application purposes only.
2. Drawings not to be used for construction/contract conditions.
3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
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 Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

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



PROJECT TITLE: **Cooloo Wind Farm,
Co. Galway**

DRAWING TITLE: **Site Notice Location Map
Sheet G**

PROJECT No.: 190723		DRAWING No.: 190723 - 02G		SCALE: 1:2,500 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01	

OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954





- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

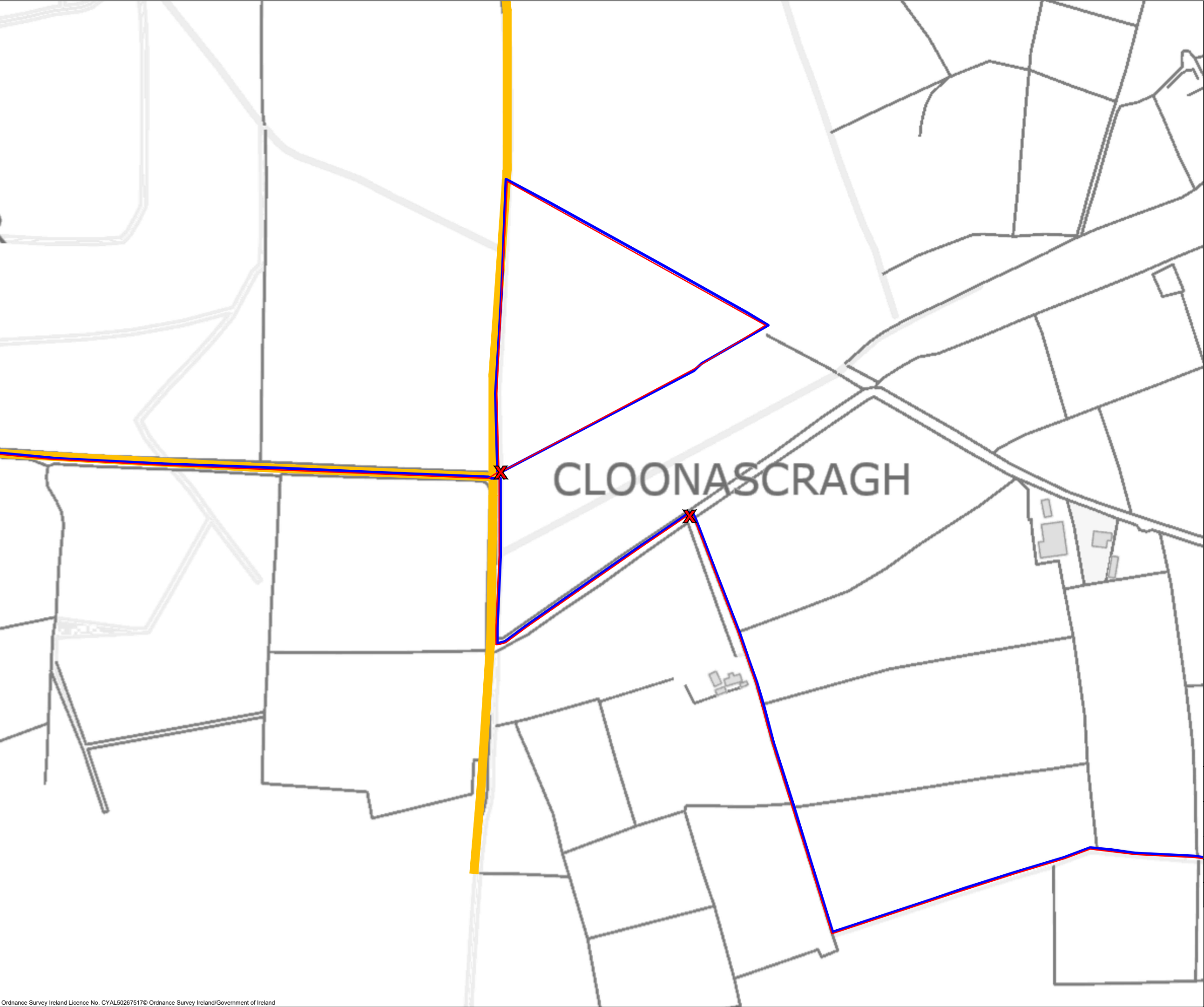
Drawing Legend

-  Site Notice
-  Wayleaves

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Notice Location Map Sheet H			
PROJECT No.: 190723	DRAWING No.: 190723 - 02H	SCALE: 1:2,500 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

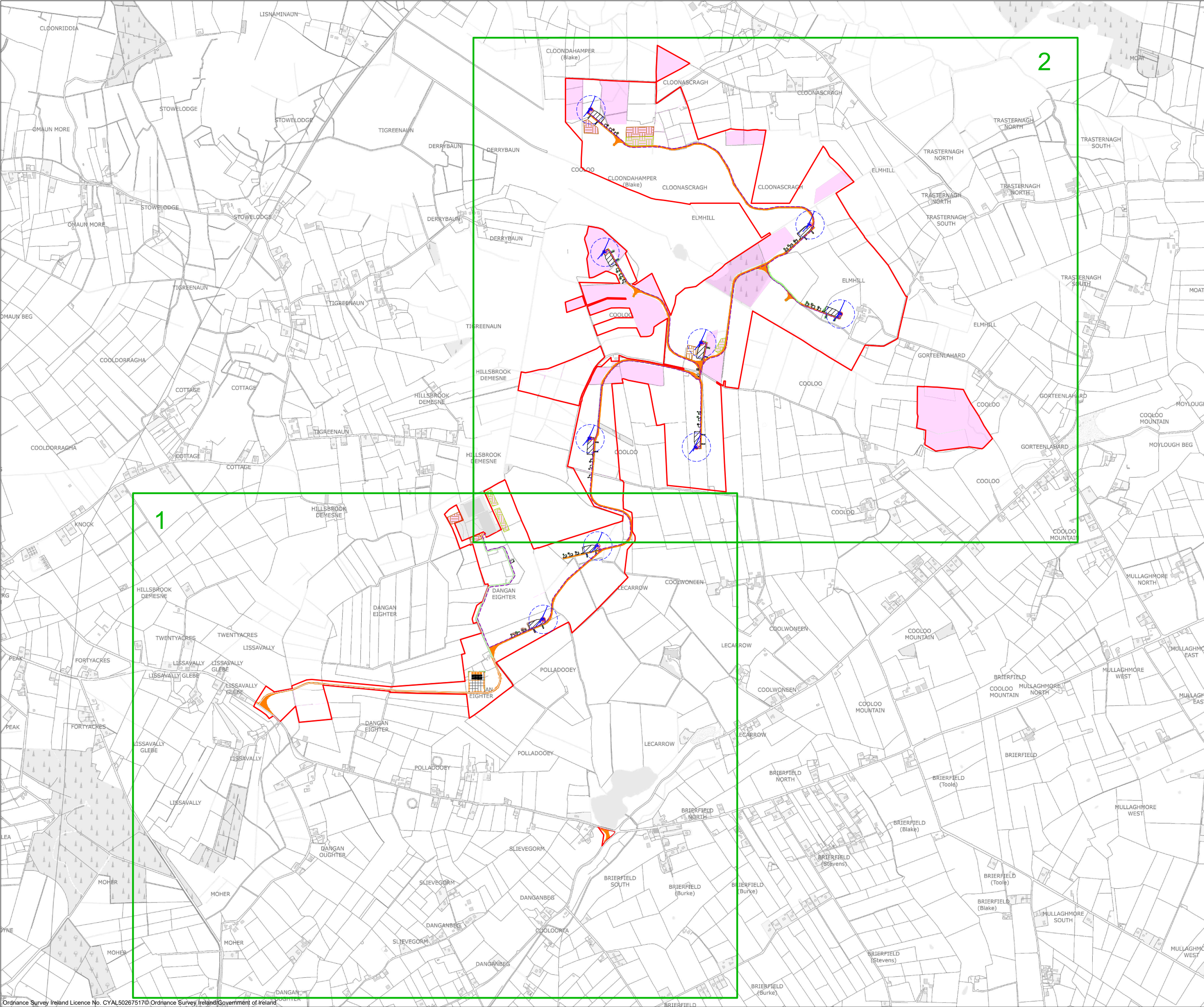
- Planning Application Boundary
- Landowners Boundary
- X Site Notice
- Wayleaves



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Notice Location Map Sheet I			
PROJECT No.: 190723	DRAWING No.: 190723 - 02I	SCALE: 1:2,500 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

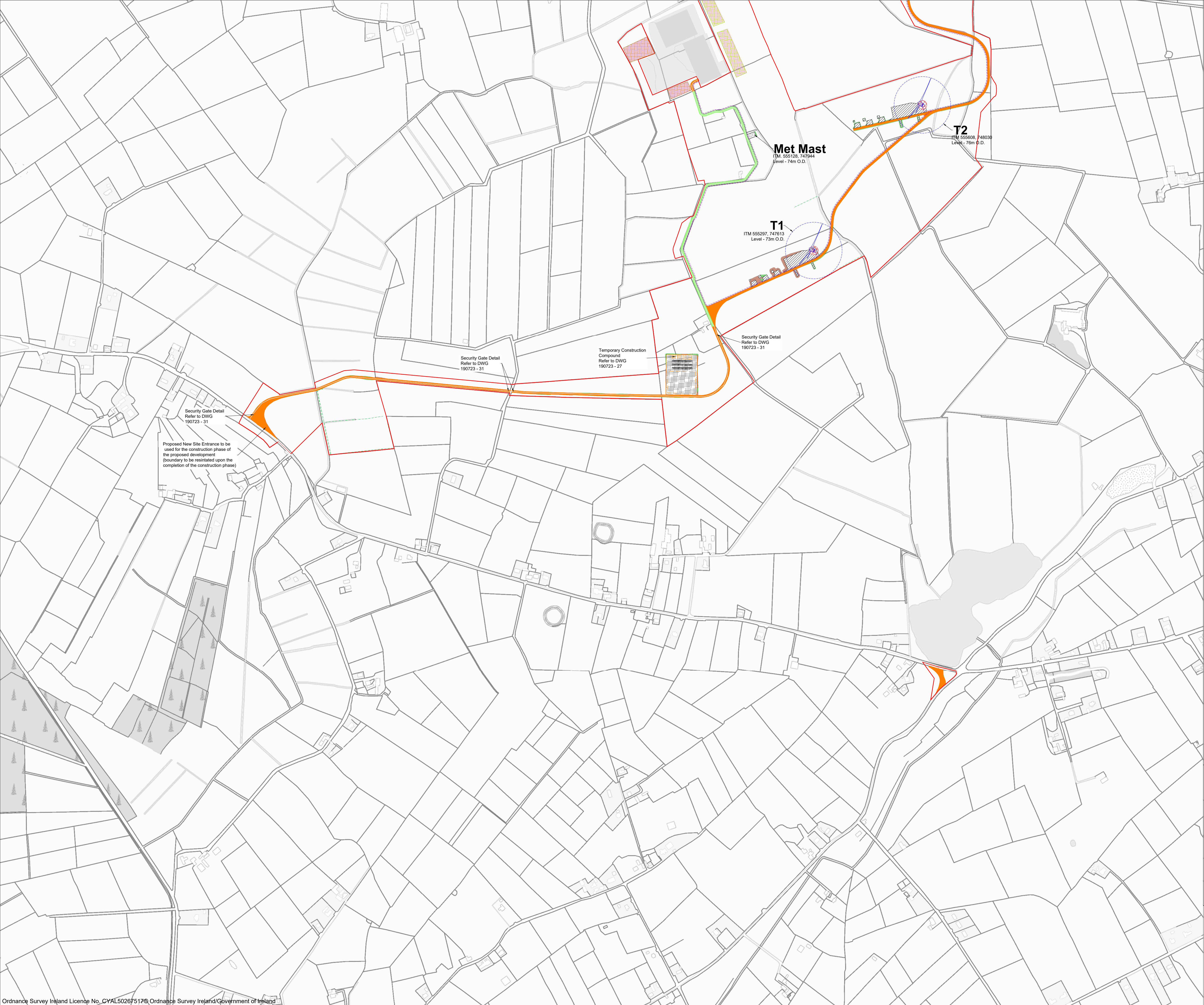
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Substation & Grid Route Subject to Separate Future Application
 - Cut
 - Fill
 - Linear Replanting
 - Biodiversity Enhancement Areas



PROJECT TITLE: Cooloo Wind Farm, Co. Galway		
DRAWING TITLE: Site Layout Key Plan (1:5,000)		
PROJECT No.: 190723	DRAWING No.: 190723 - 03	SCALE: 1:20,000 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025
REVISION.: P01		
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954		

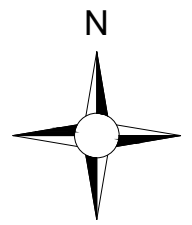


Email: info@www.mkoireland.ie / Website: www.mkoireland.ie



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

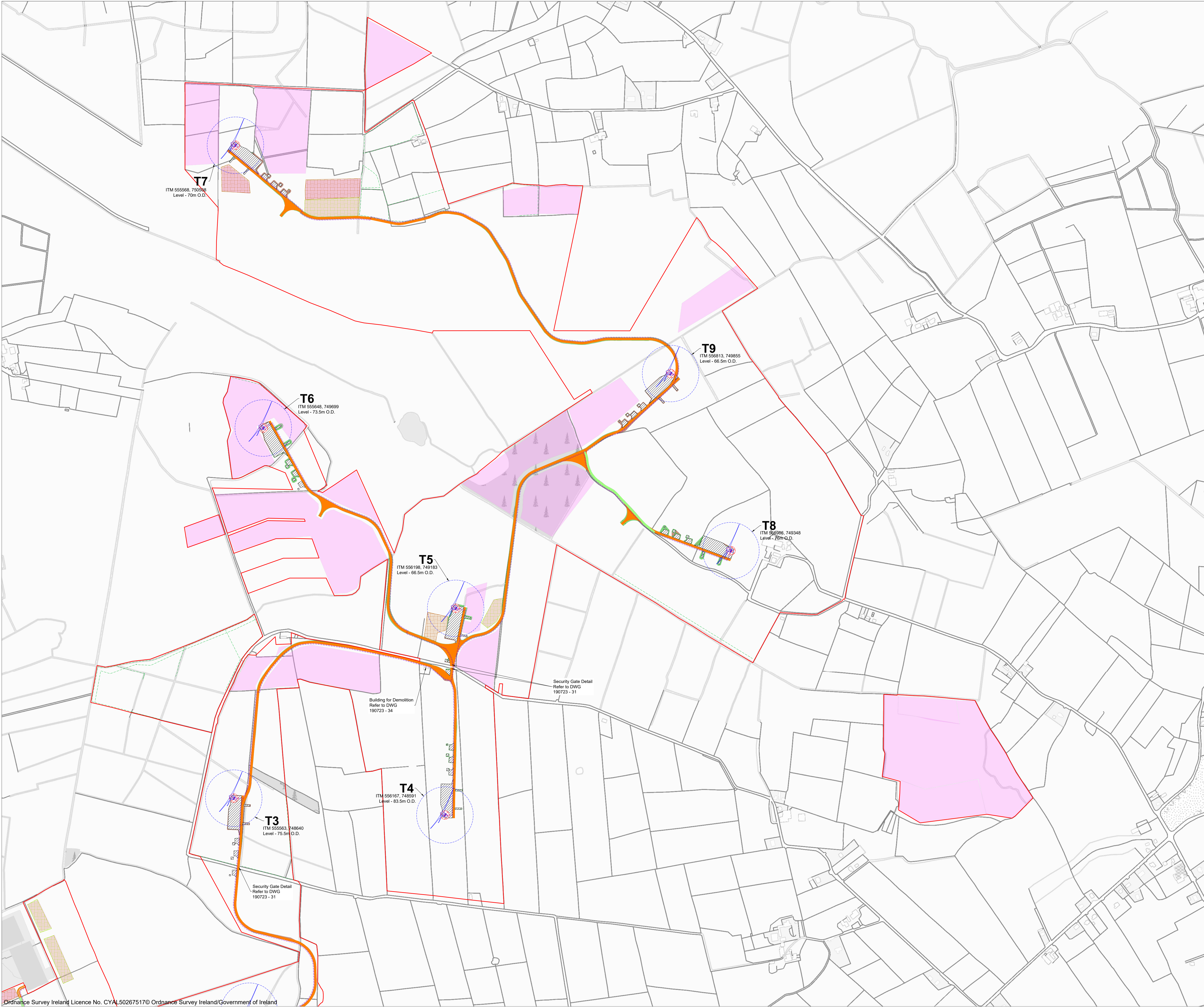
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Substation & Grid Route Subject to Separate Future Application
 - Cut
 - Fill
 - Biodiversity Enhancement Areas
 - Linear Replanting



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 1 of 2			
PROJECT No.: 190723	DRAWING No.: 190723 - 04	SCALE: 1:5,000 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			

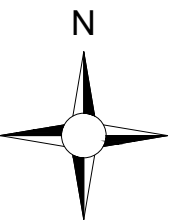


Email: info@www.mkoireland.ie / Website: www.mkoireland.ie



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

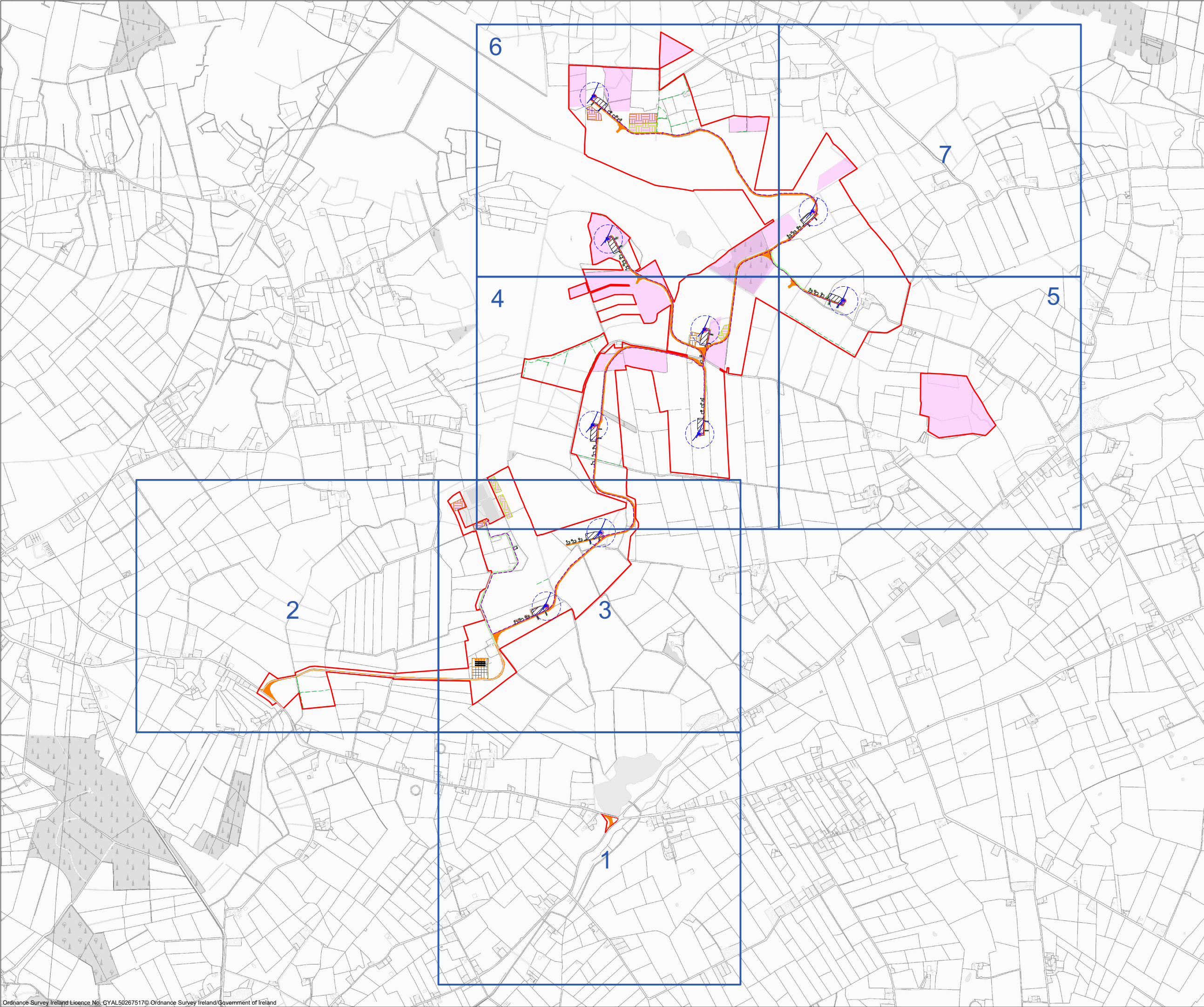
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Substation & Grid Route Subject to Separate Future Application
 - Cut
 - Fill
 - Linear Replanting
 - Biodiversity Enhancement Areas



PROJECT TITLE: Coolloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 2 of 2			
PROJECT No.: 190723	DRAWING No.: 190723 - 05	SCALE: 1:5,000 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

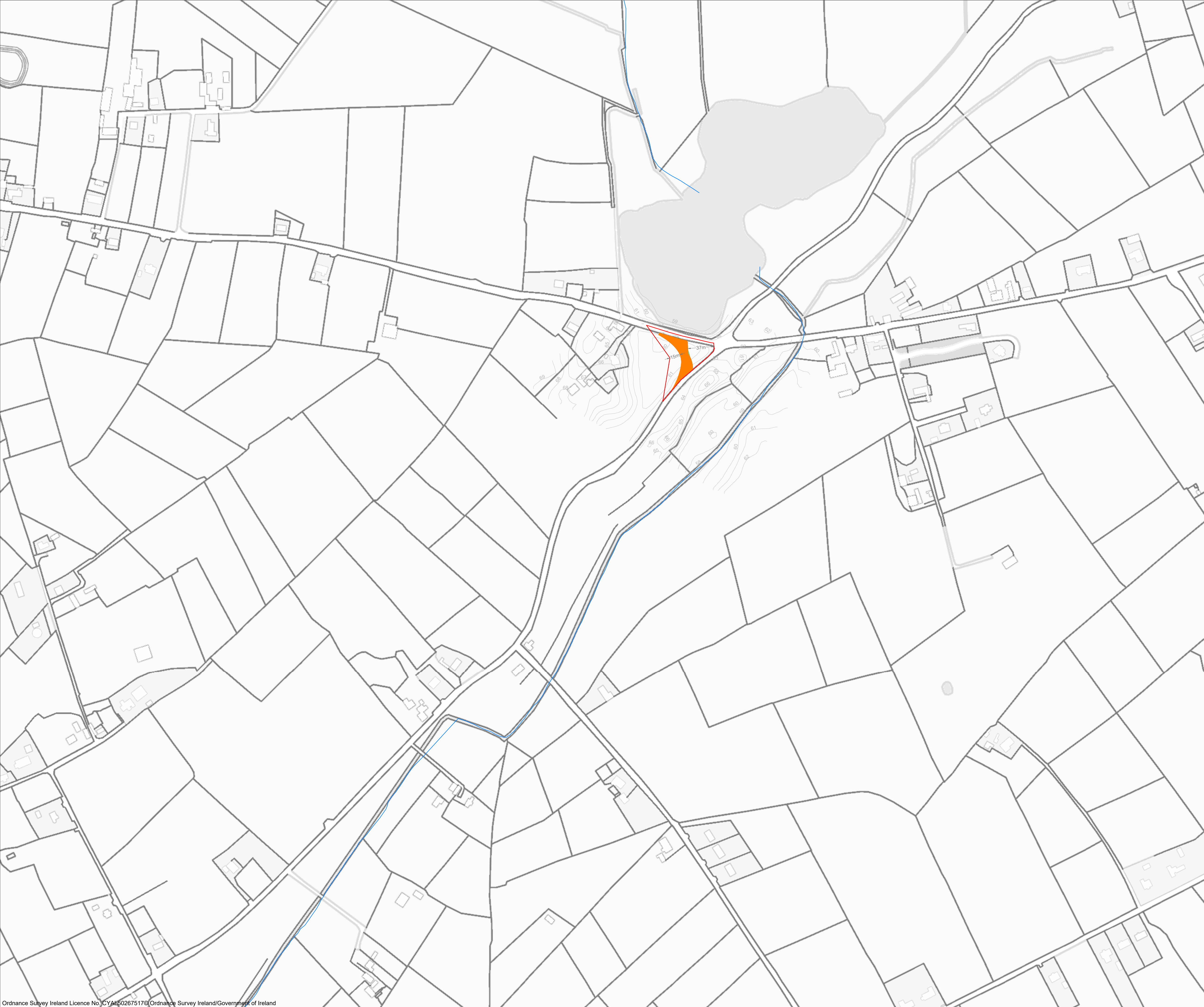
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Substation & Grid Route Subject to Separate Future Application
 - Cut
 - Fill
 - Linear Replanting
 - Biodiversity Enhancement Areas



PROJECT TITLE: Cooloo Wind Farm, Co. Galway		
DRAWING TITLE: Site Layout Key Plan (1:2,500)		
PROJECT No.: 190723	DRAWING No.: 190723 - 06	SCALE: 1:20,000 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025
		REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954		

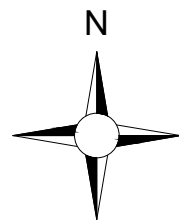


Email: info@www.mkoireland.ie /Website: www.mkoireland.ie



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - Cut
 - Fill
 - Watercourse



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 1 of 7			
PROJECT No.: 190723	DRAWING No.: 190723 - 07	SCALE: 1:2,500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



- ### Drawing Legend

-

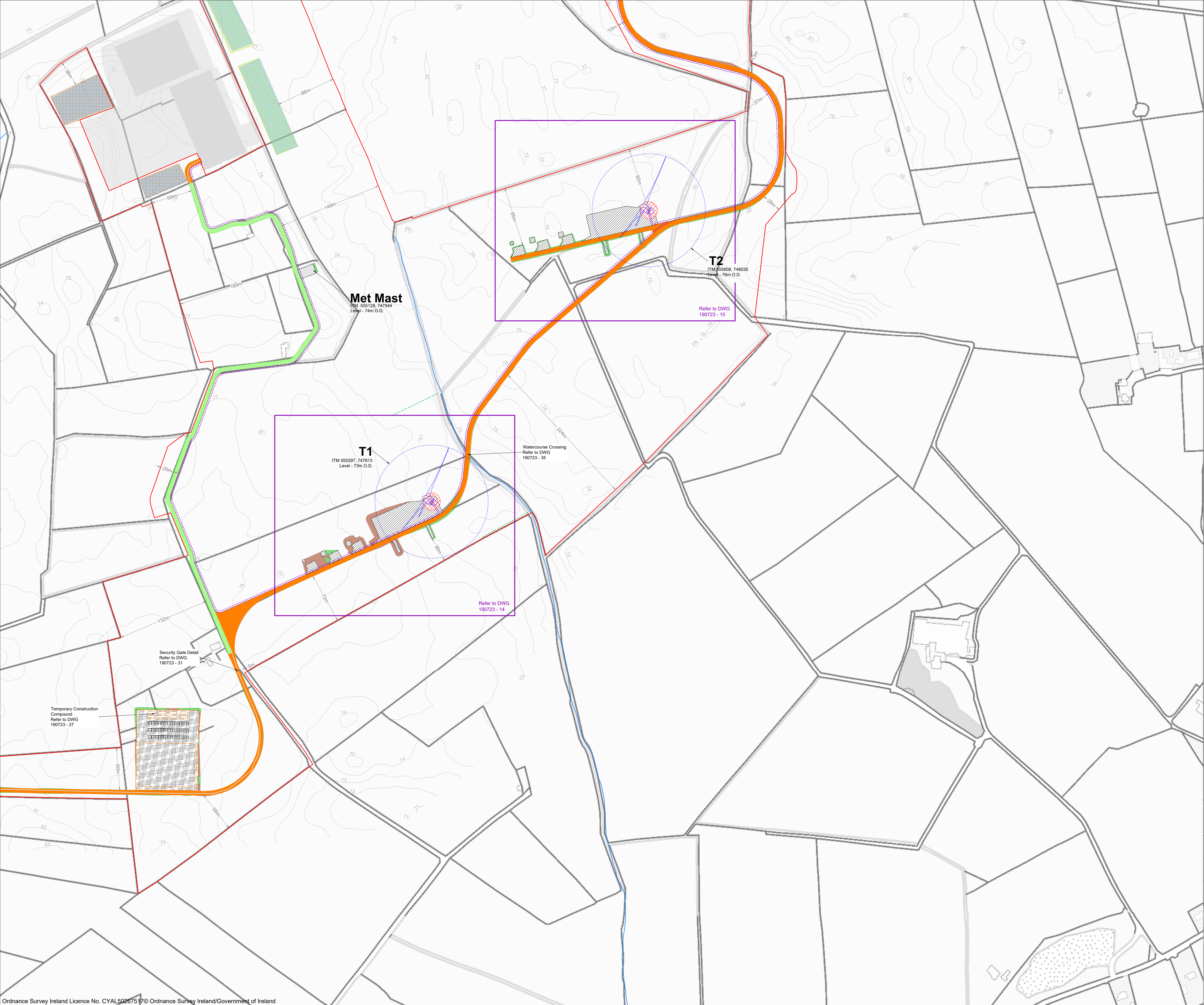
DRAWING TITLE: **Site Layout Plan**
Sheet 2 of 7

DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION P01
-------------------------	--------------------------	----------------------------	------------------------



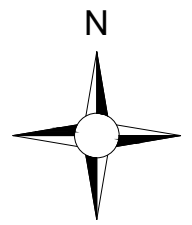
Email: info@www.mkoireland.ie /Website: www.mkoireland.ie

Ordnance Survey Ireland Licence No. CYAL50267517 © Ordnance Survey Ireland/Government of Ireland



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

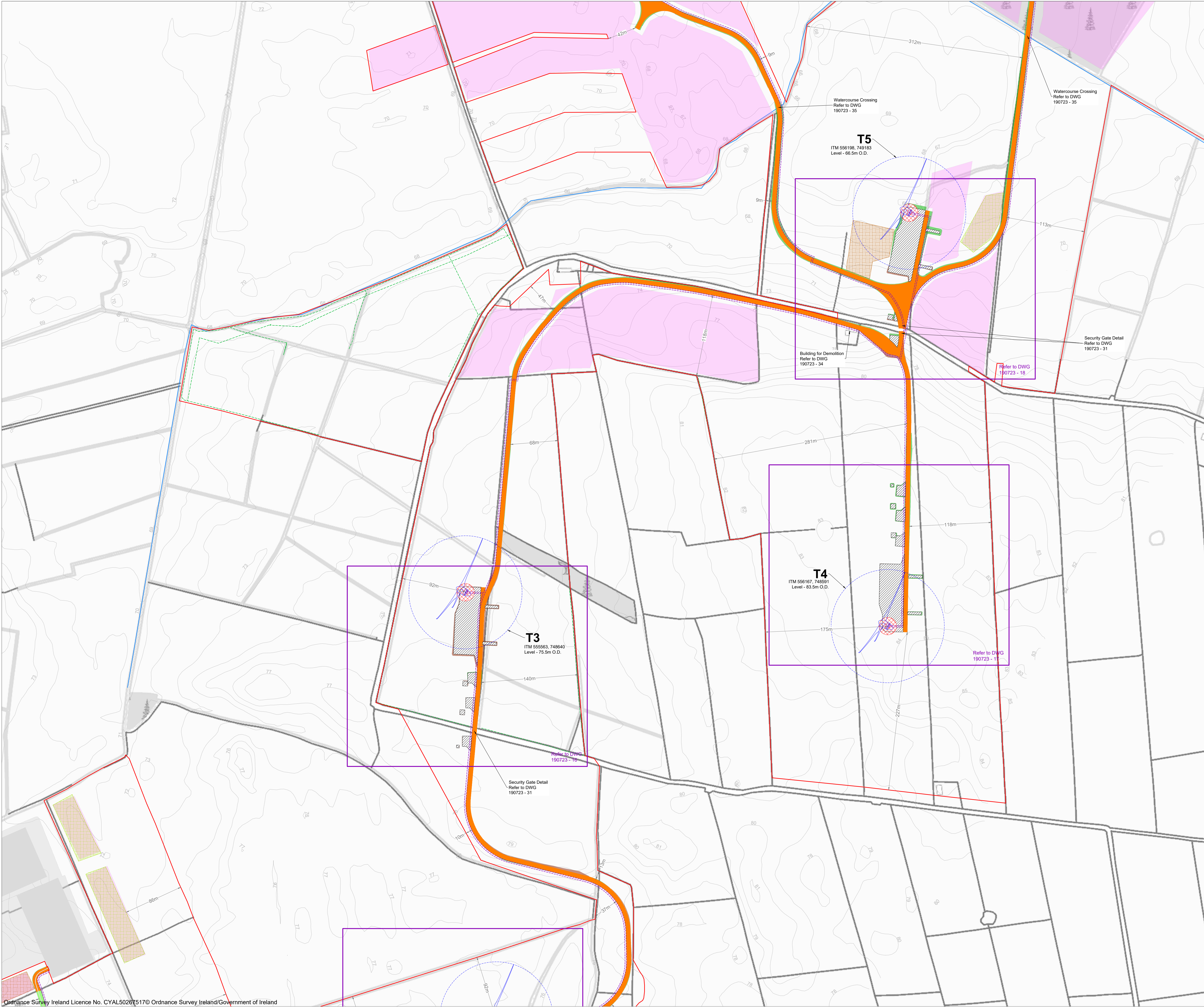
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Substation & Grid Route Subject to Separate Future Application
 - Cut
 - Fill
 - Linear Replanting
 - Biodiversity Enhancement Areas
 - Watercourse



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 3 of 7			
PROJECT No.: 190723	DRAWING No.: 190723 - 09	SCALE: 1:2,500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			

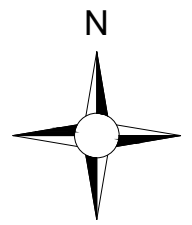


Email: info@www.mkoireland.ie / Website: www.mkoireland.ie



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

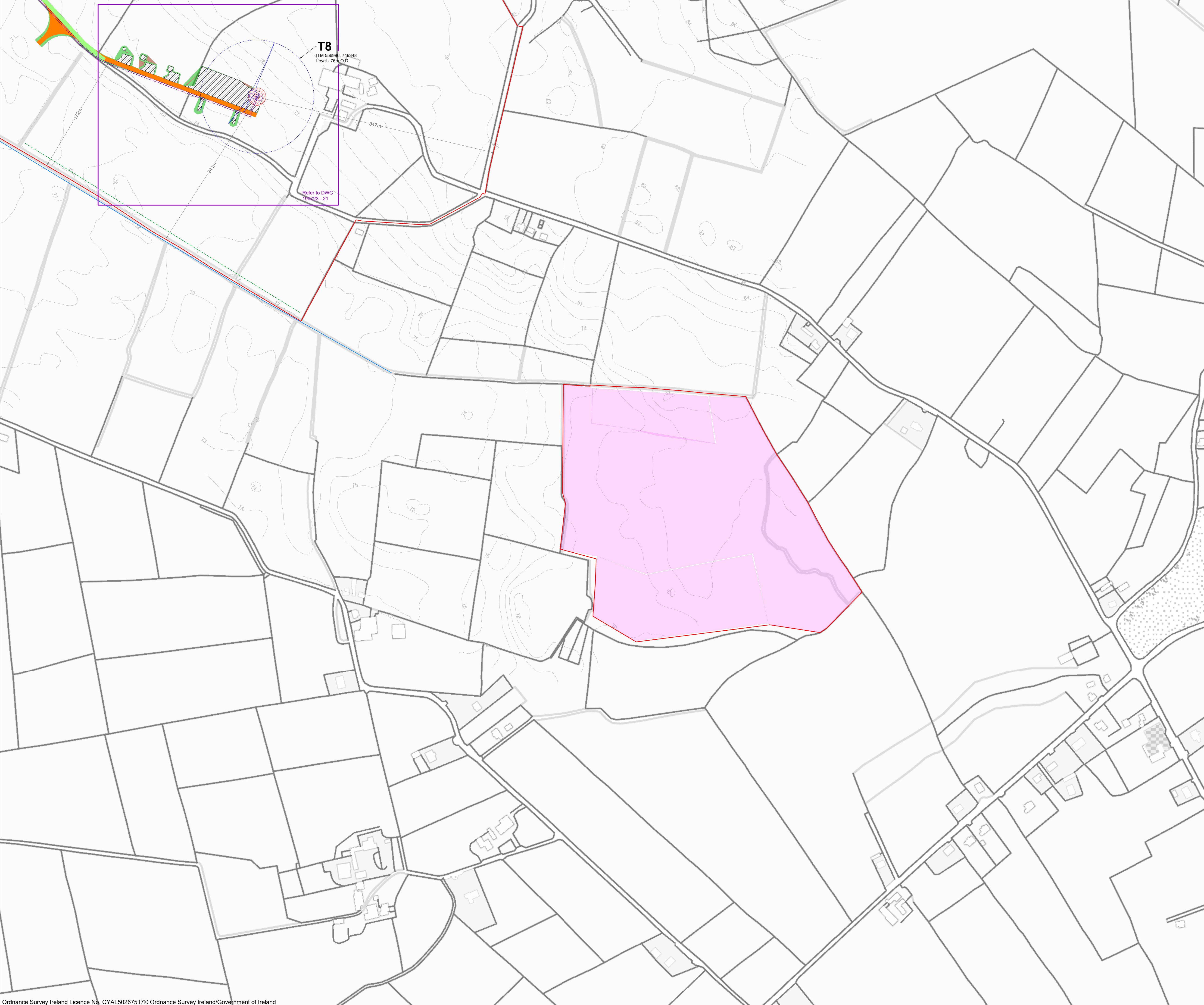
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Substation & Grid Route Subject to Separate Future Application
 - Cut
 - Fill
 - Linear Replanting
 - Biodiversity Enhancement Areas
 - Watercourse



PROJECT TITLE: Coolloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 4 of 7			
PROJECT No.: 190723	DRAWING No.: 190723 - 10	SCALE: 1:2,500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			

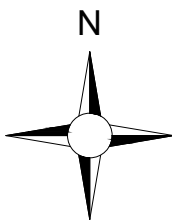


Email: info@www.mkoireland.ie / Website: www.mkoireland.ie



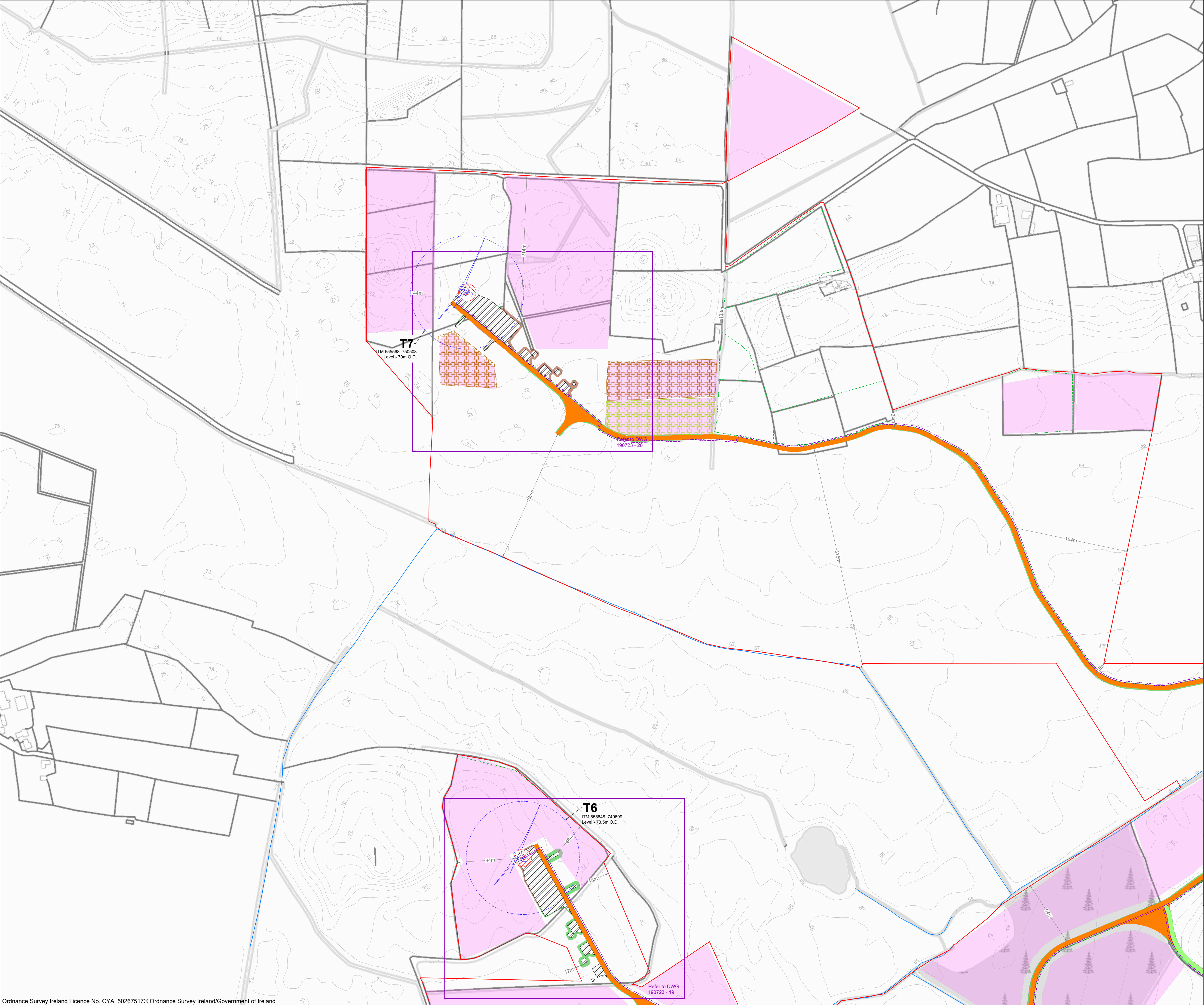
- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Cut
 - Fill
 - Linear Replanting
 - Biodiversity Enhancement Areas
 - Watercourse



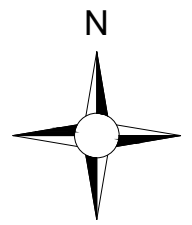
PROJECT TITLE: Coolloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 5 of 7			
PROJECT No.: 190723	DRAWING No.: 190723 - 11	SCALE: 1:2,500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			





- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

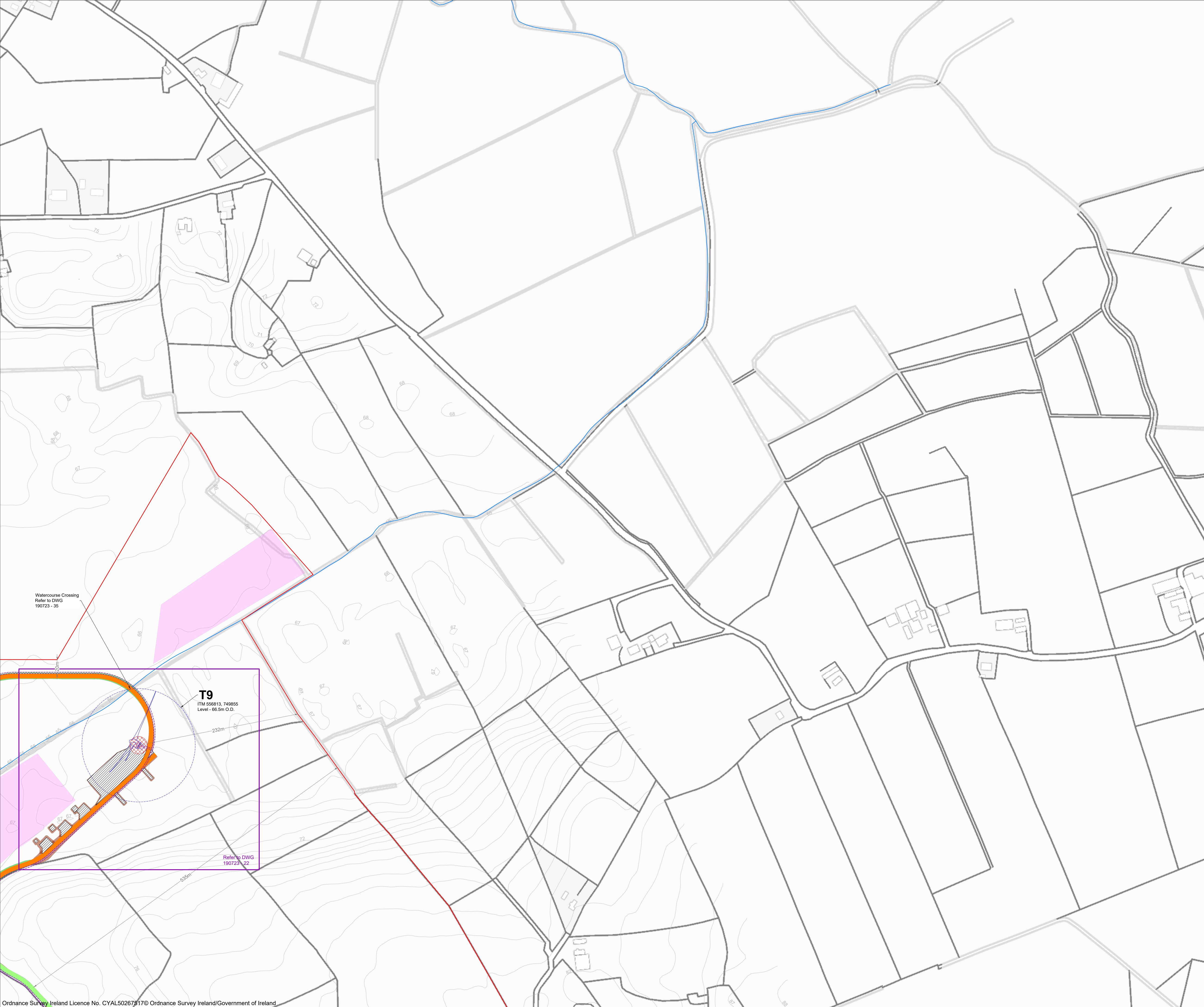
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Cut
 - Fill
 - Linear Replanting
 - Biodiversity Enhancement Areas
 - Watercourse



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 6 of 7			
PROJECT No.: 190723	DRAWING No.: 190723 - 12	SCALE: 1:2,500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			

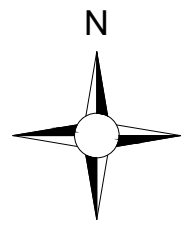


Email: info@www.mkoireland.ie / Website: www.mkoireland.ie



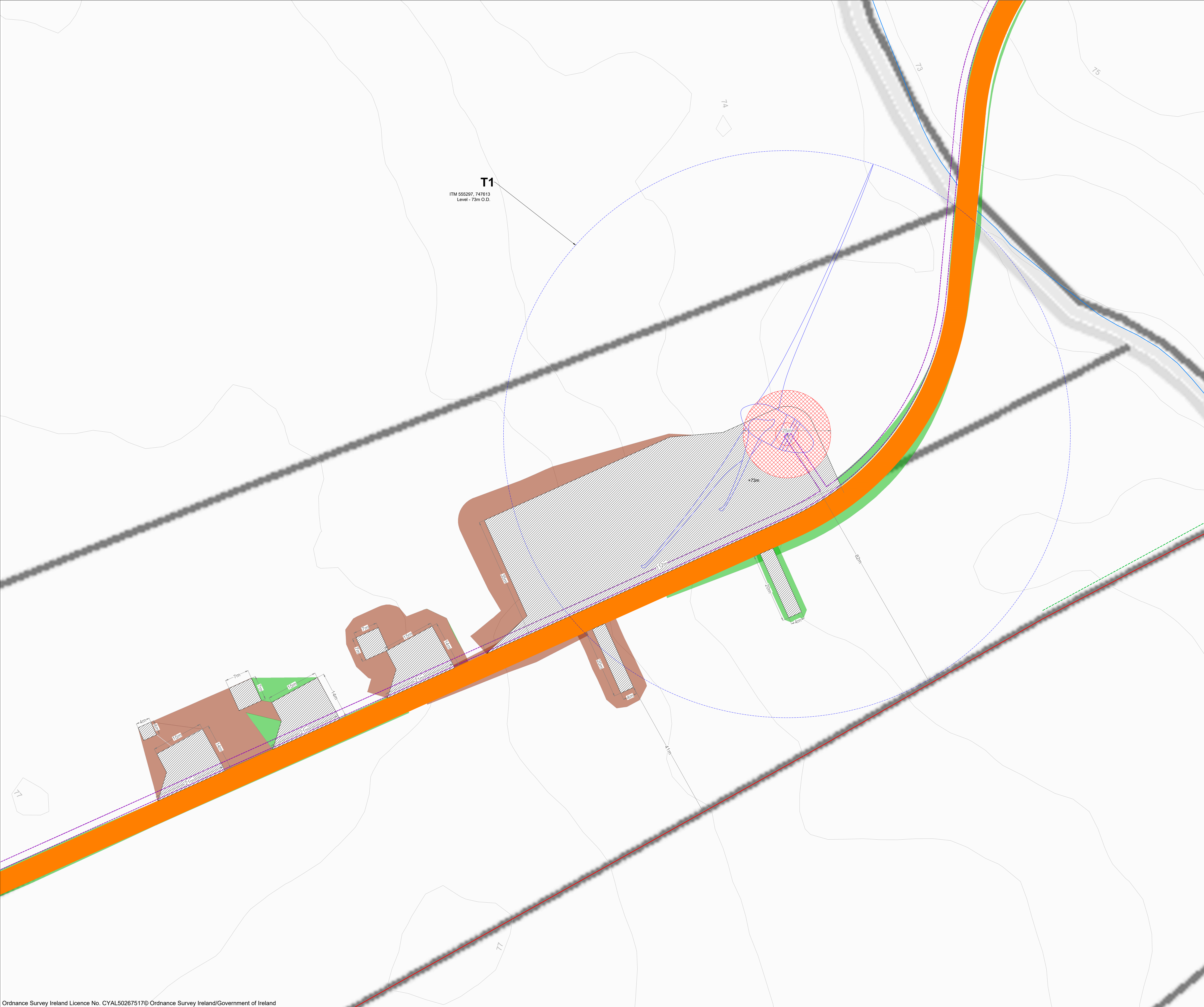
- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Cut
 - Fill
 - Biodiversity Enhancement Areas
 - Watercourse



PROJECT TITLE: Coolloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Layout Plan Sheet 7 of 7			
PROJECT No.: 190723	DRAWING No.: 190723 - 13	SCALE: 1:2,500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			

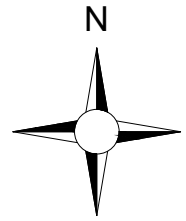




- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

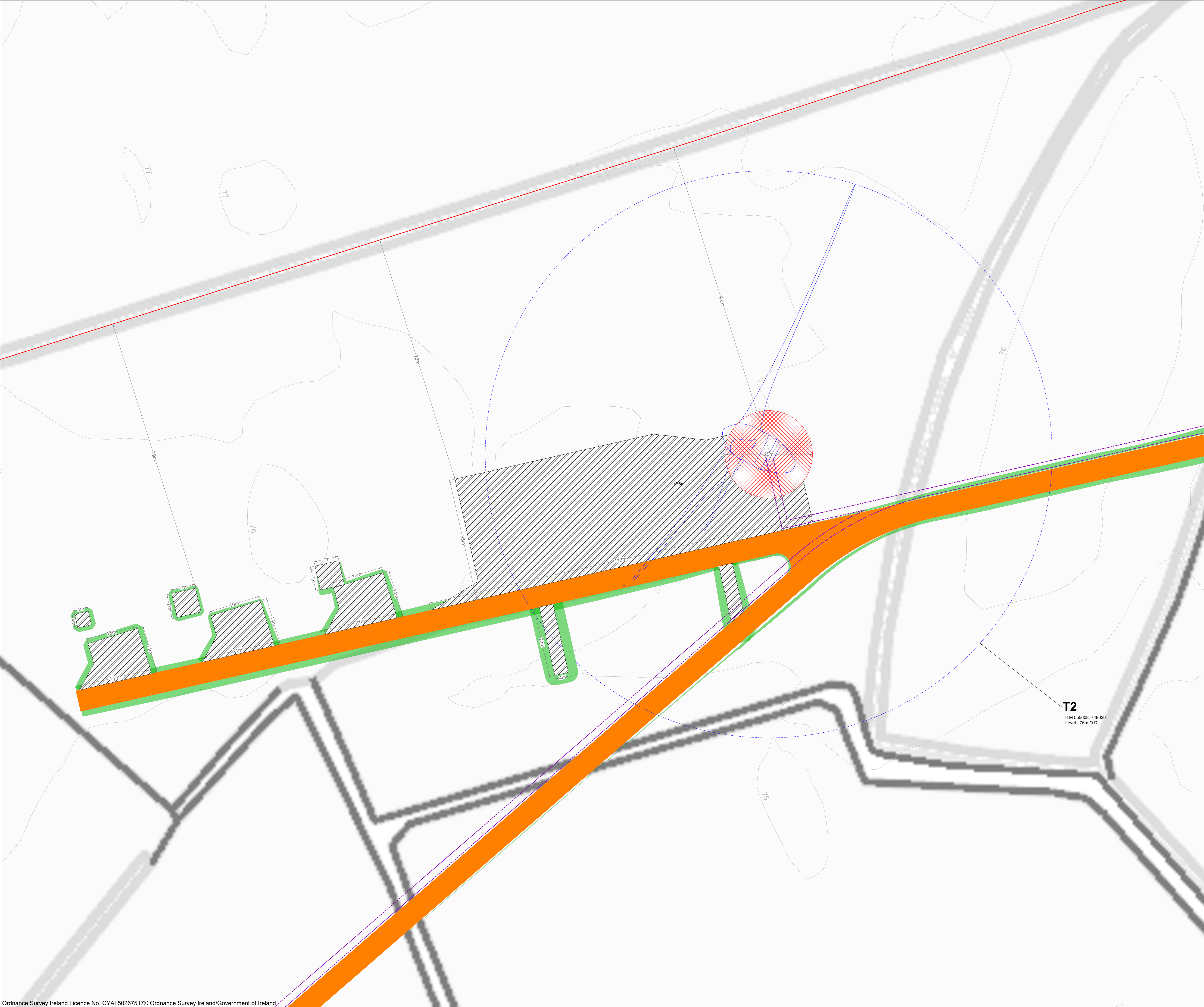
- Planning Application Boundary
- Proposed Road
- Electrical Cable Trench
- Hardstand
- Turbine Foundation
- Turbine Sweep Area
- Cut
- Fill
- Linear Replanting
- Watercourse



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 1 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 14	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

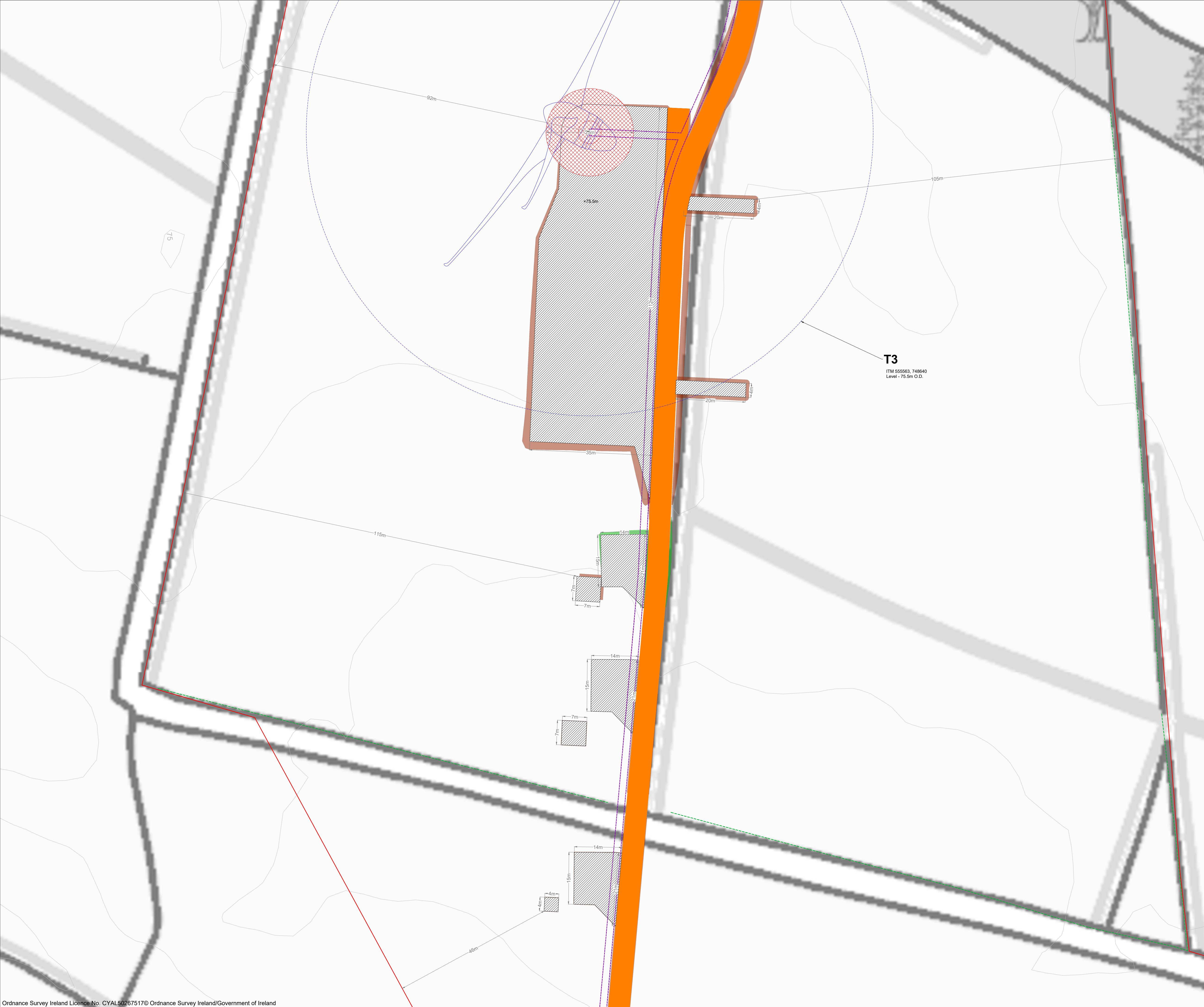
Drawing Legend

- Planning Application Boundary
- Proposed Road
- Electrical Cable Trench
- Hardstand
- Turbine Foundation
- Turbine Sweep Area
- Cut
- Fill

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 2 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 15	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



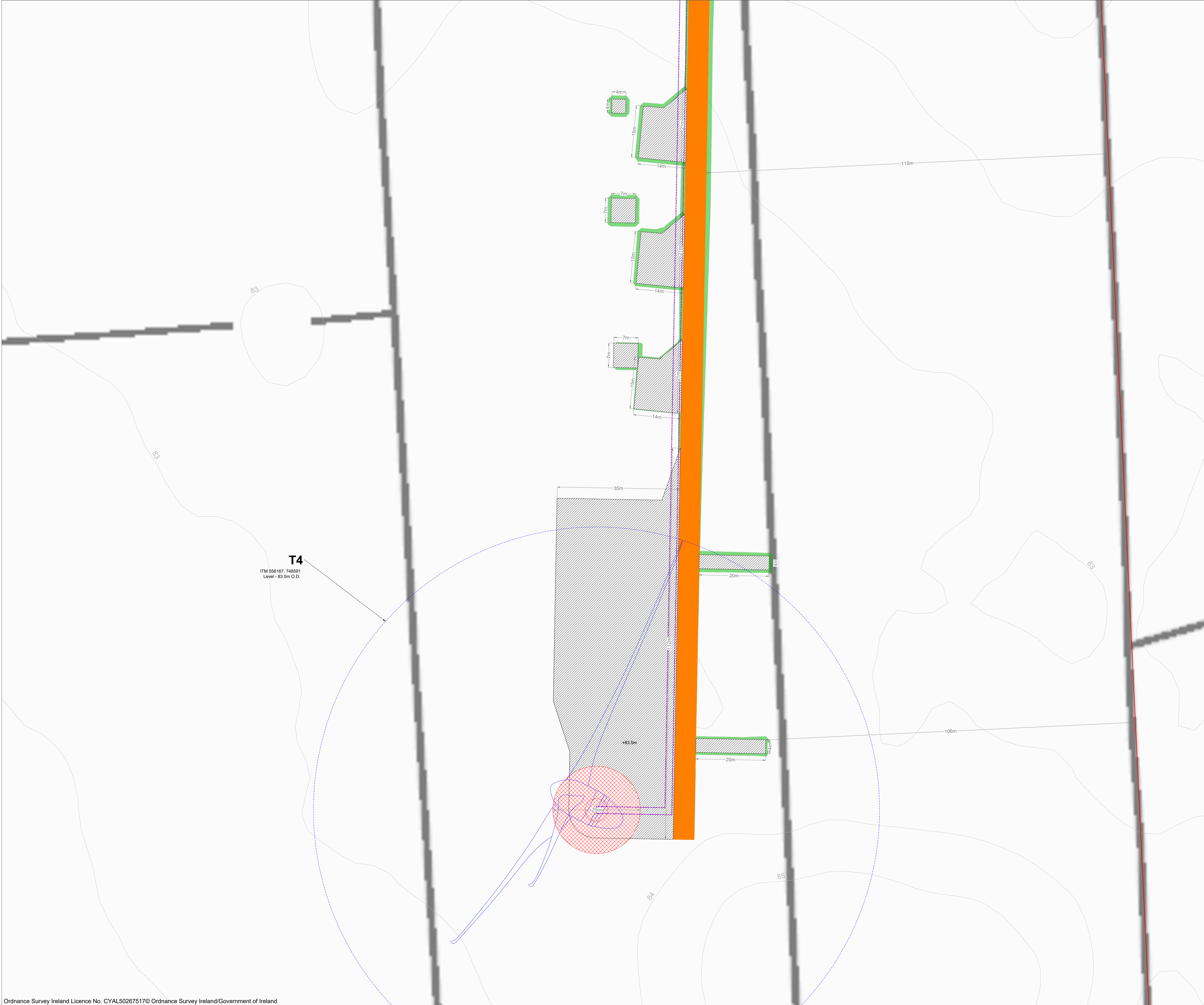
- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Electrical Cable Trench
- Hardstand
- Turbine Foundation
- Turbine Sweep Area
- Cut
- Fill
- Linear Replanting

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 3 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 16	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			





- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

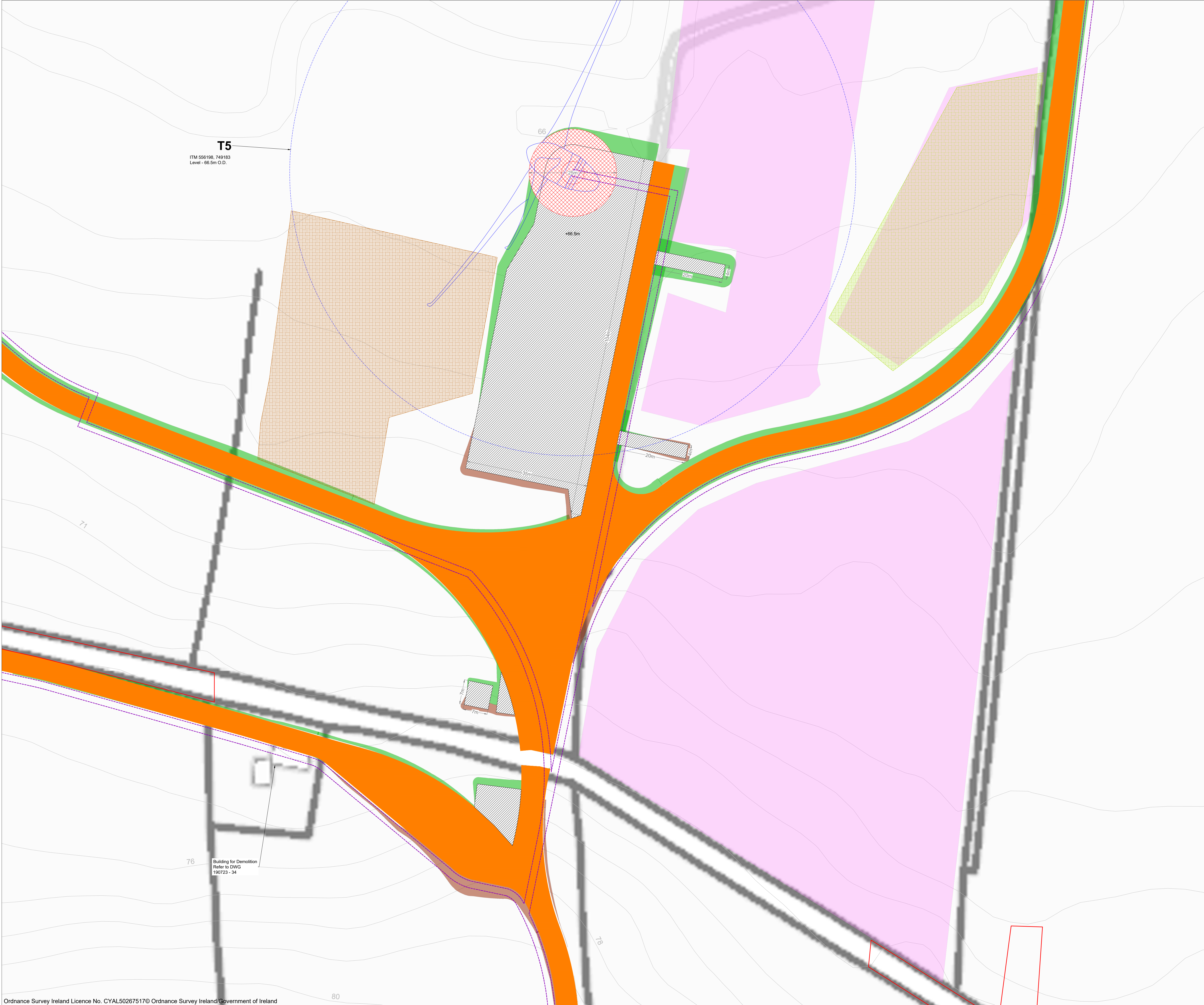
- Planning Application Boundary
- Proposed Road
- Electrical Cable Trench
- Hardstand
- Turbine Foundation
- Turbine Sweep Area
- Cut
- Fill



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 4 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 17	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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

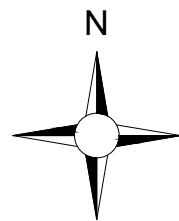


T5
ITM 555190, 749193
Level - 66.5m O.D.

76
Building for Demolition
Refer to DWG
190723 - 34

- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Cut
 - Fill
 - Biodiversity Enhancement Areas



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 5 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 18	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			





T6
ITM 555648, 749699
Level - 73.5m O.D.

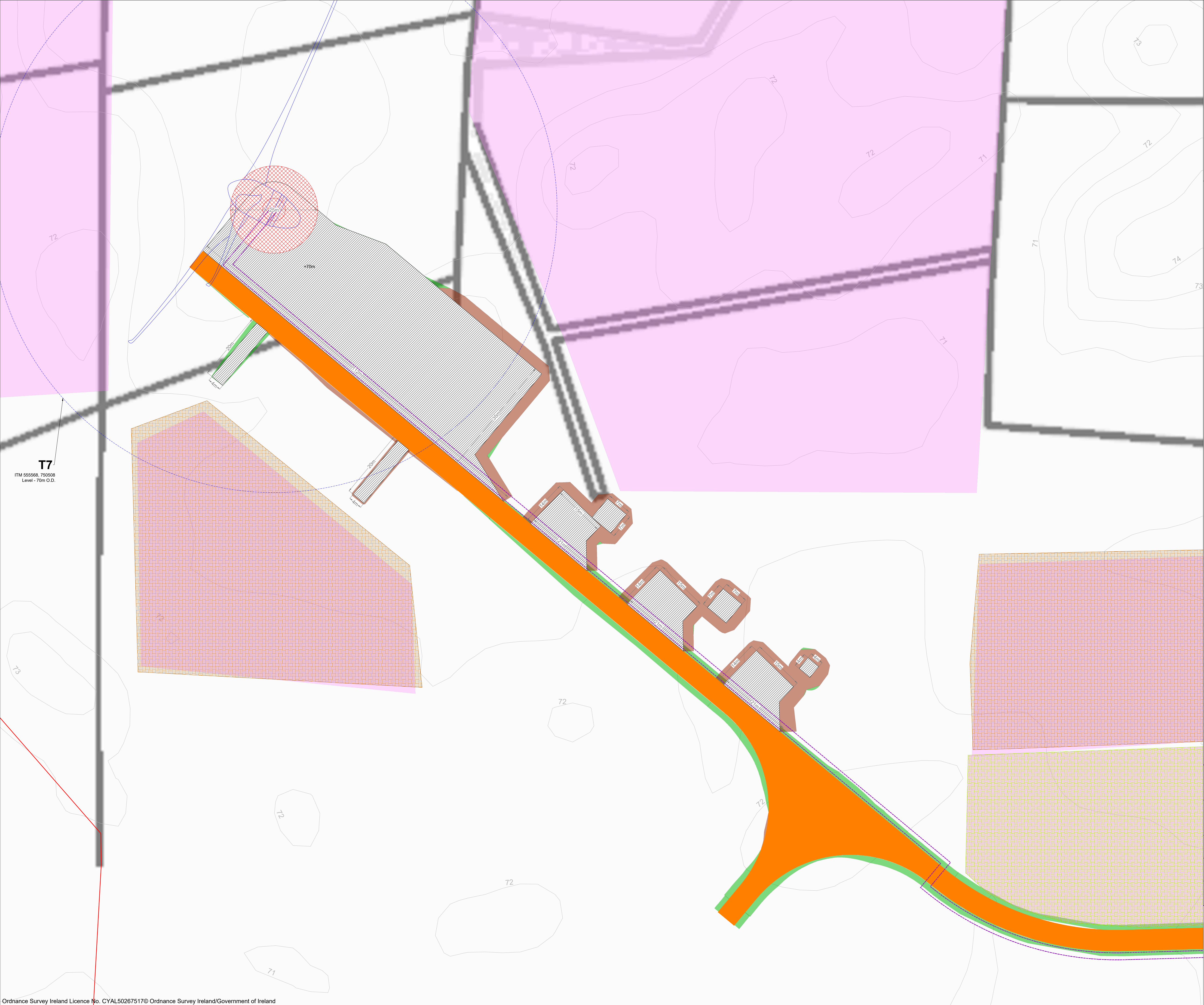
- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Cut
 - Fill
 - Biodiversity Enhancement Areas

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 6 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 19	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



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



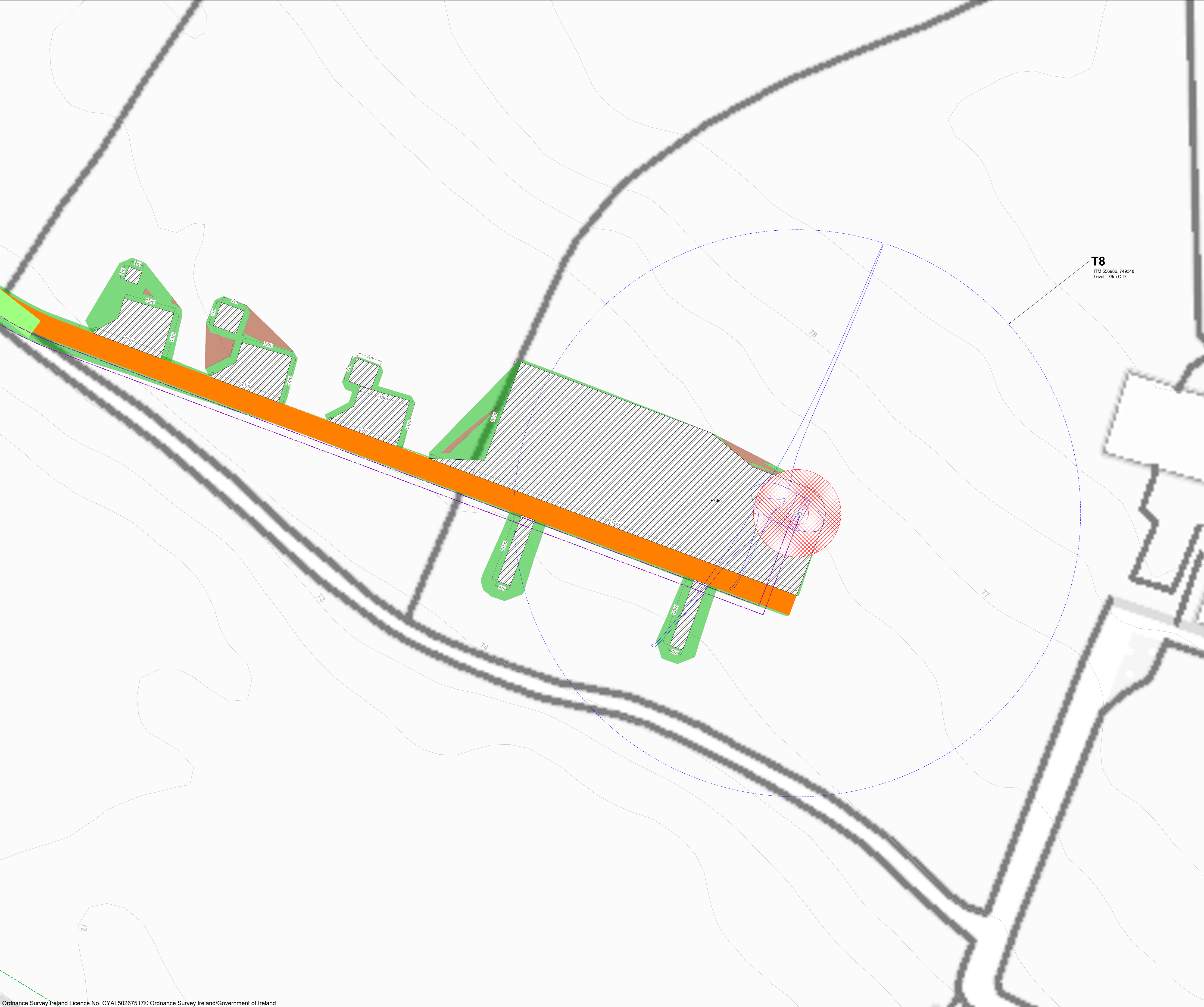
- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Peat Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Spoil Management Area Refer to GDG DWG 22098-GDG-ZZ-XX-DR-C-0101
 - Cut
 - Fill
 - Biodiversity Enhancement Areas

PROJECT TITLE: Coolloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 7 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 20		SCALE: 1:500 @ A1
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			

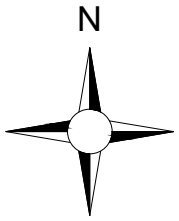


Email: info@www.mkoireland.ie / Website: www.mkoireland.ie



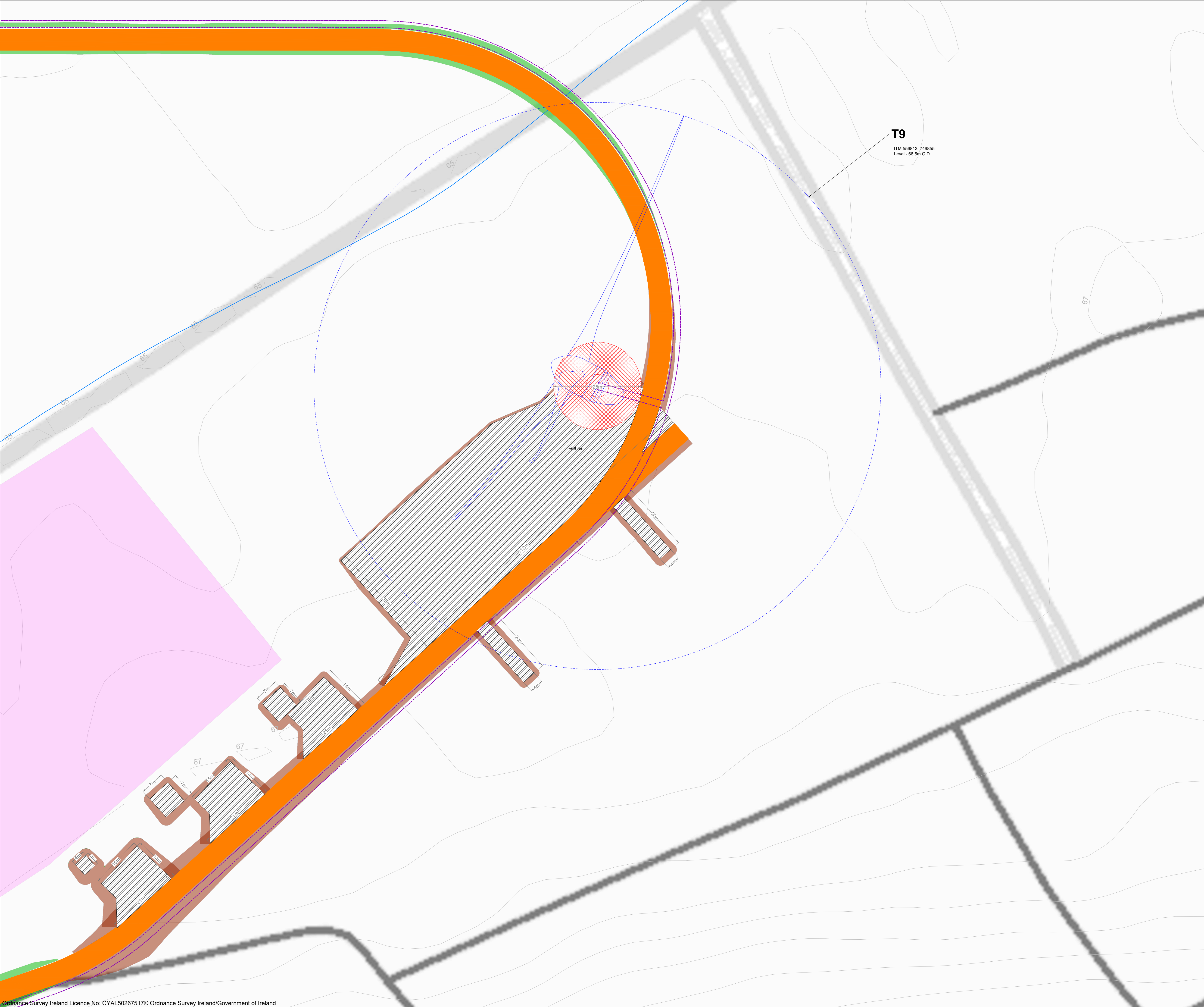
- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Cut
 - Fill



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 8 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 21	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



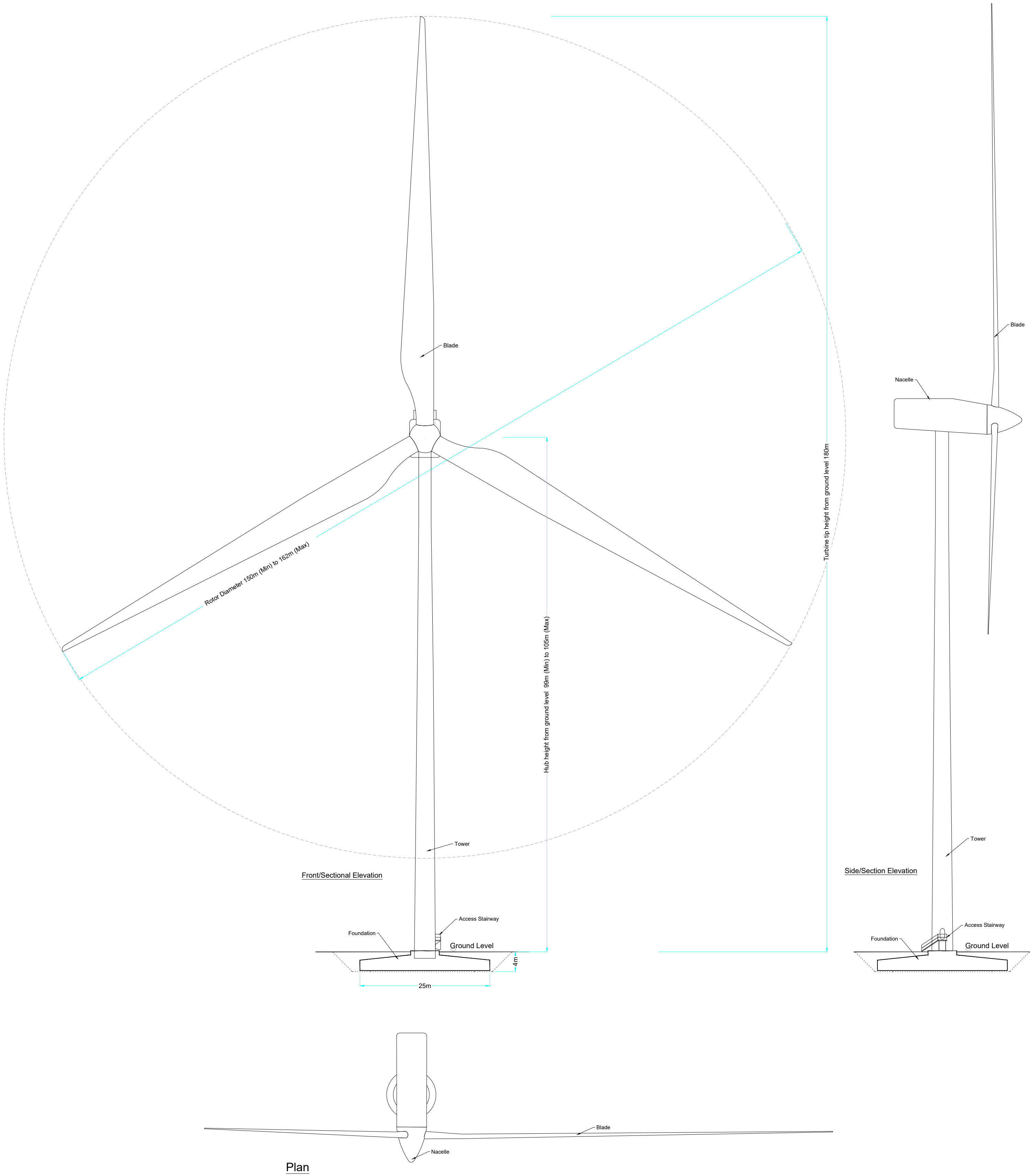


- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Proposed Road
 - Electrical Cable Trench
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Cut
 - Fill
 - Biodiversity Enhancement Areas
 - Watercourse

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Turbine 9 Layout Sheet			
PROJECT No.: 190723	DRAWING No.: 190723 - 22	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			





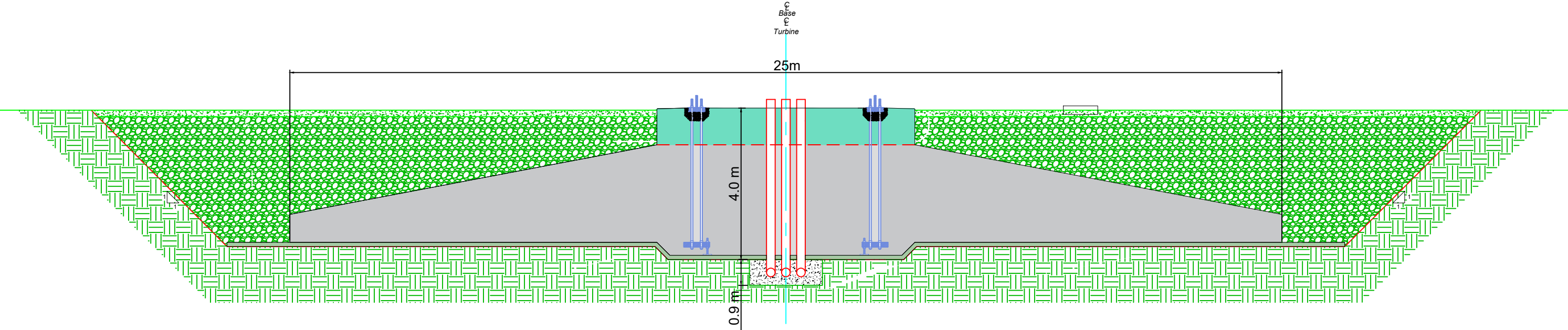
- Drawing Notes**
- Proposed wind turbines to have a maximum ground to blade tip height of 180m, rotor diameter of 150m - 162m and hub height of 99m - 105m
 - Ground level represents the top of turbine foundation.

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Wind Turbine Elevation & Plan			
PROJECT No.: 231103	DRAWING No.: 190723 - 23	SCALE: 1:500 @ A1	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

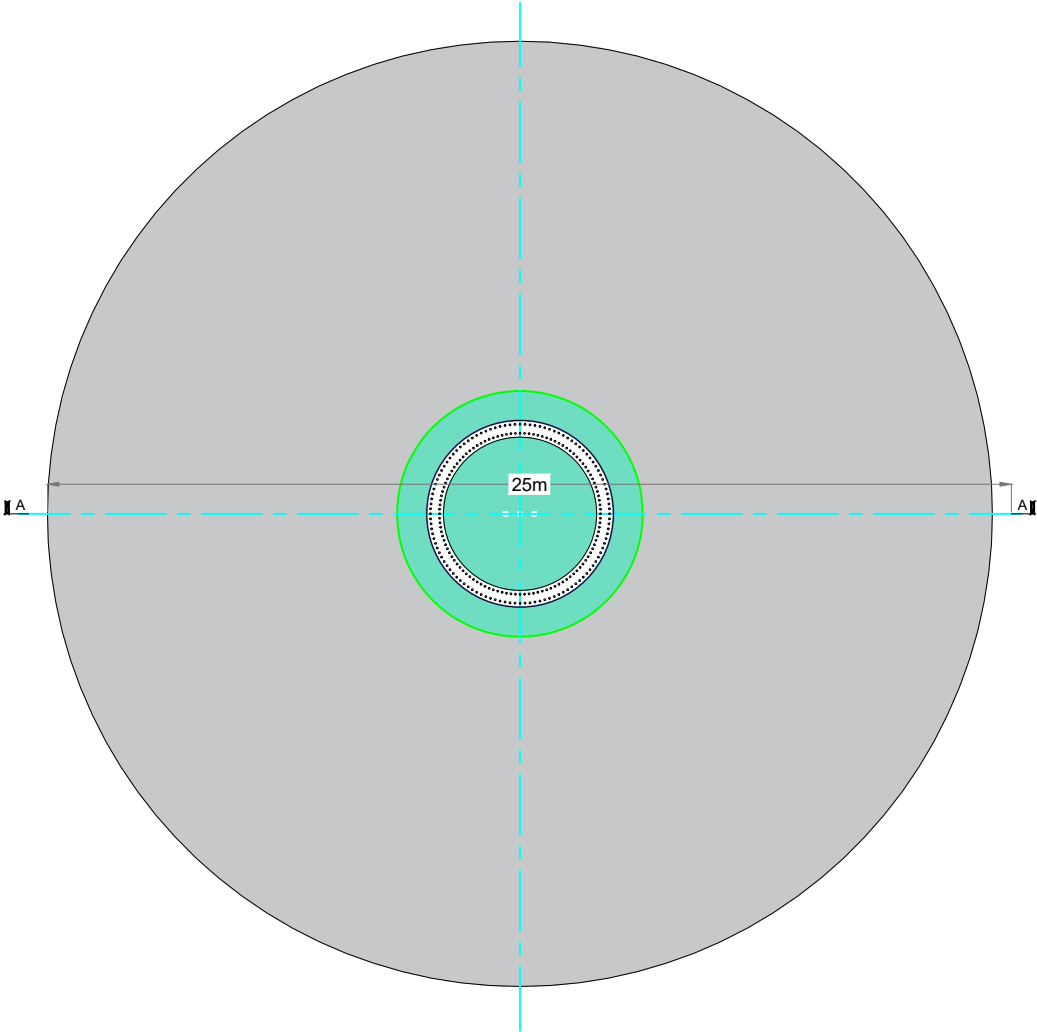


Email: info@www.mkoireland.ie /Website: www.mkoireland.ie

Section A-A
Scale 1:100



Plan
Scale: 1:200

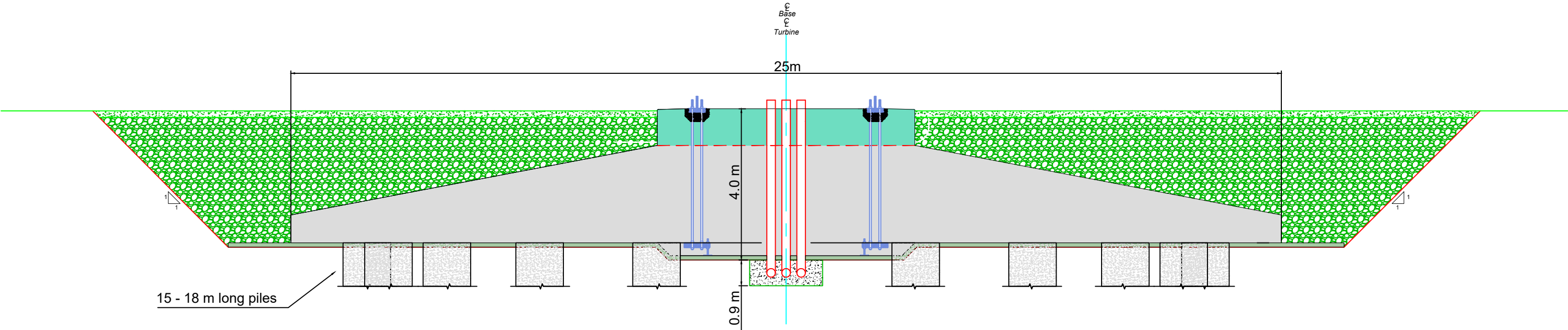


PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Gravity Foundations Details			
PROJECT No.: 231103	DRAWING No.: 190723 - 24	SCALE: As Shown @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

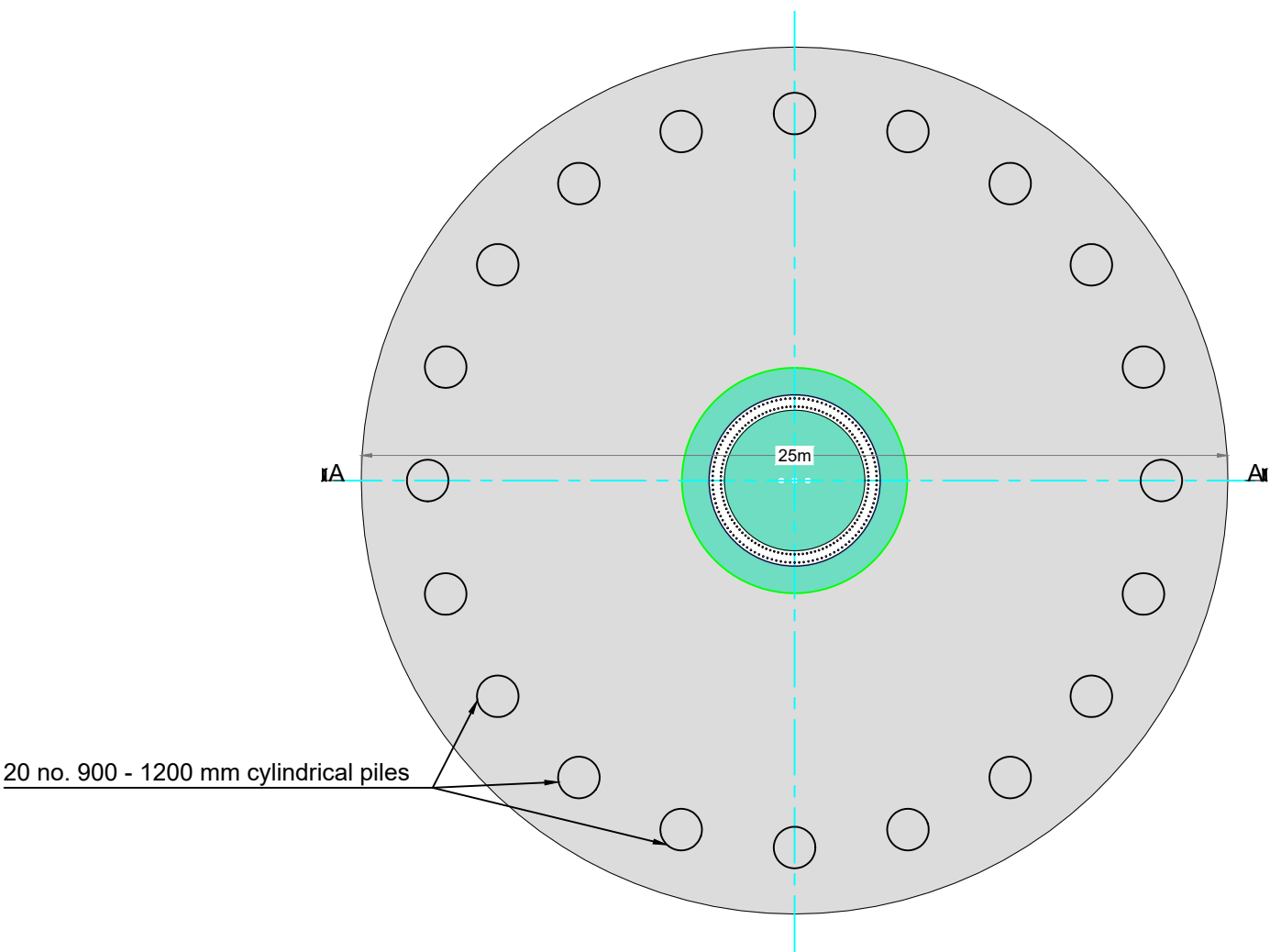


Email: info@www.mkoireland.ie /Website: www.mkoireland.ie

Section A-A
Scale 1:100



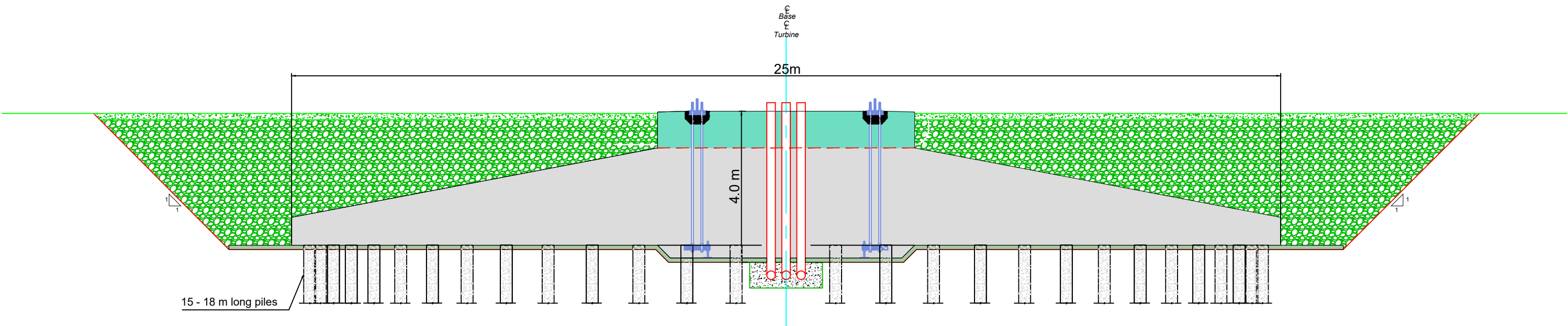
Plan
Scale: 1:200



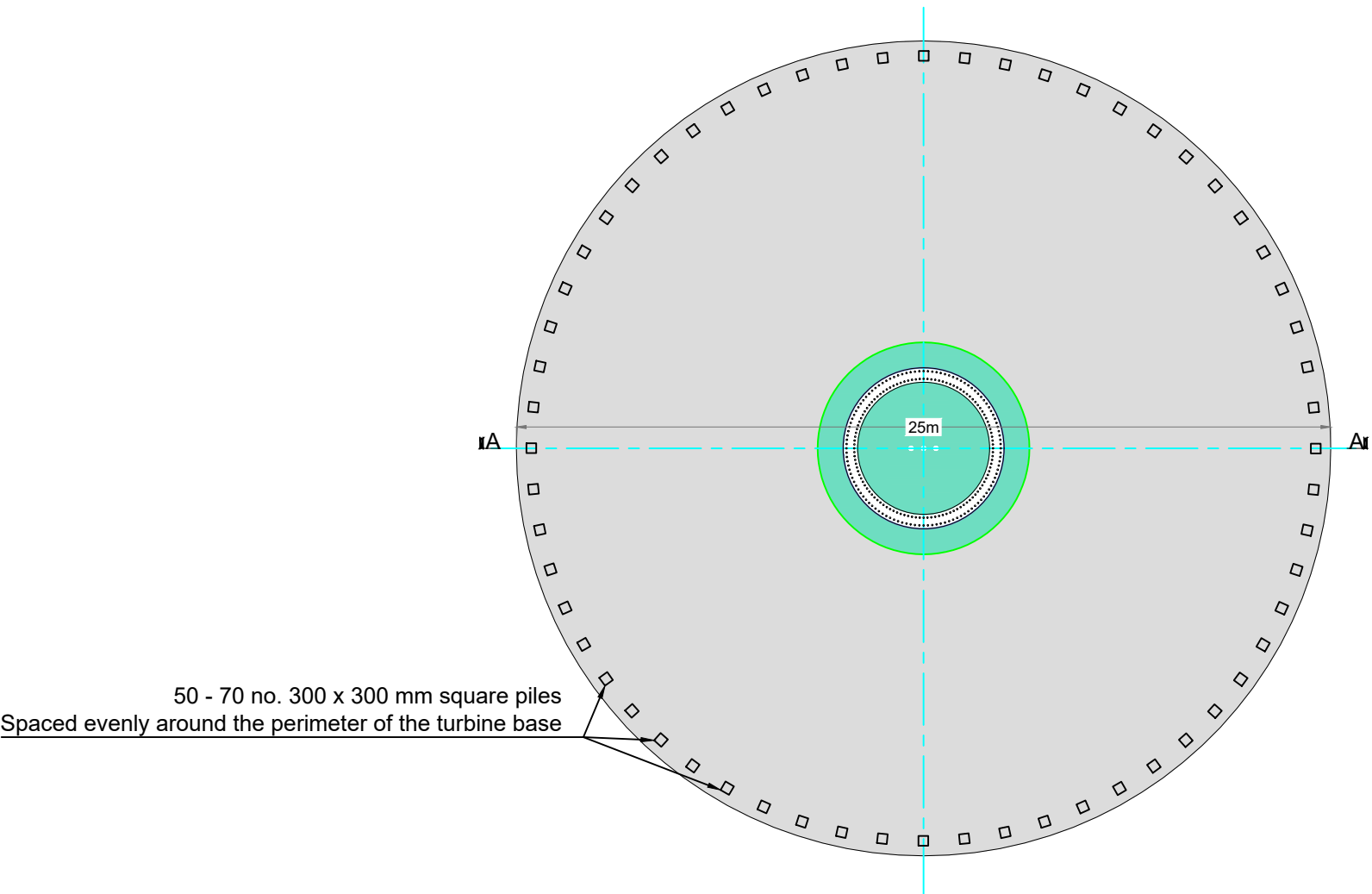
PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Bored Pile Foundations Details			
PROJECT No.: 231103	DRAWING No.: 190723 - 25	SCALE: As Shown @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01



Section A-A
Scale 1:100

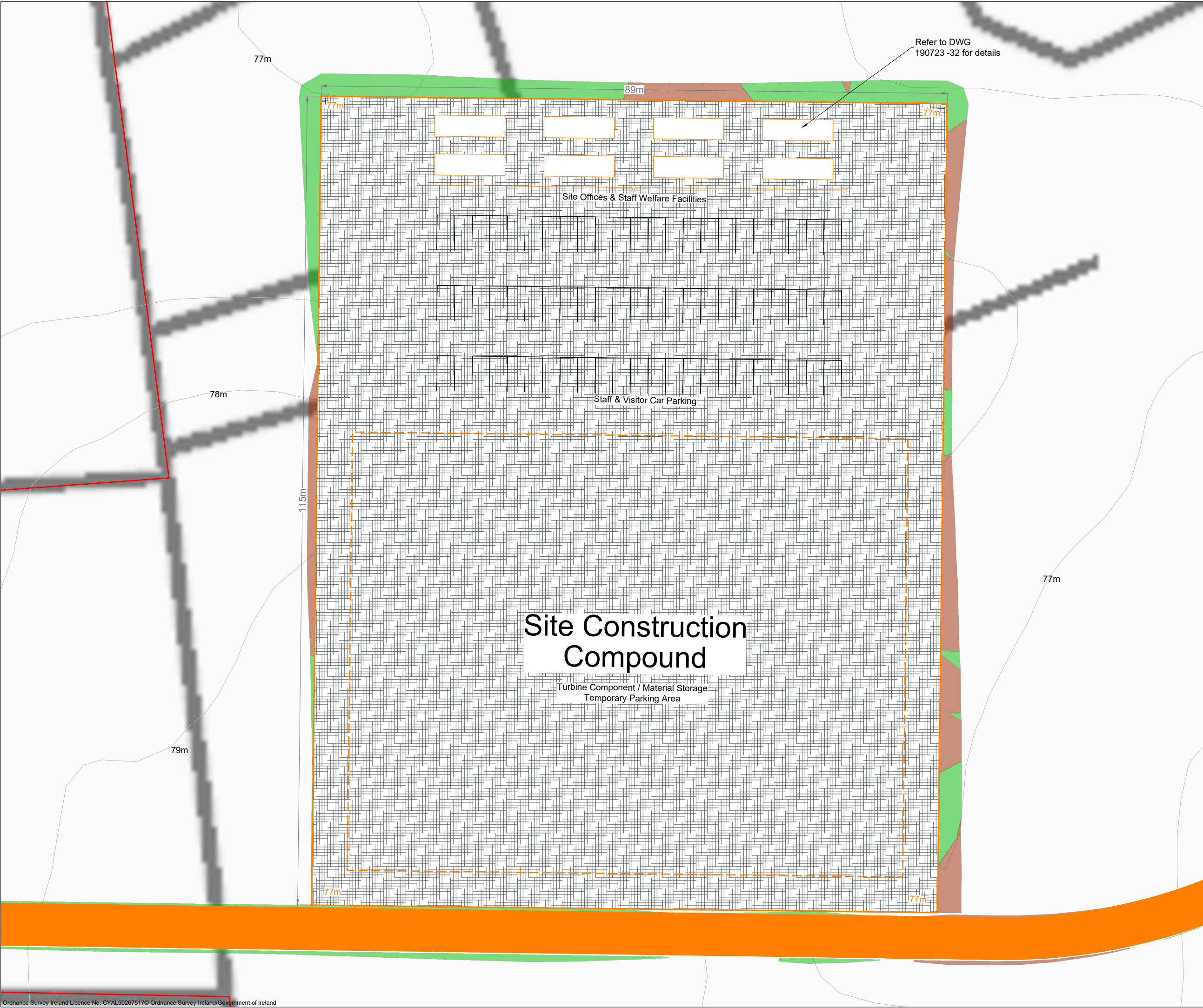


Plan
Scale: 1:200



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Driven Pile Foundations Details			
PROJECT No.: 231103	DRAWING No.: 190723 - 26	SCALE: As Shown @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01





- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

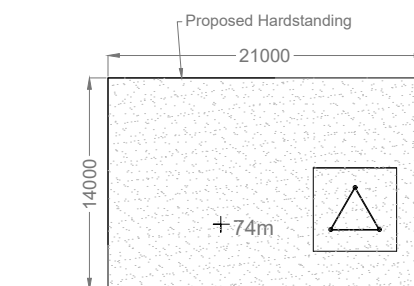
- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - Cut
 - Fill



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Temporary Construction Compound			
PROJECT No.: 190723	DRAWING No.: 190723 - 27	SCALE: 1:500 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954			



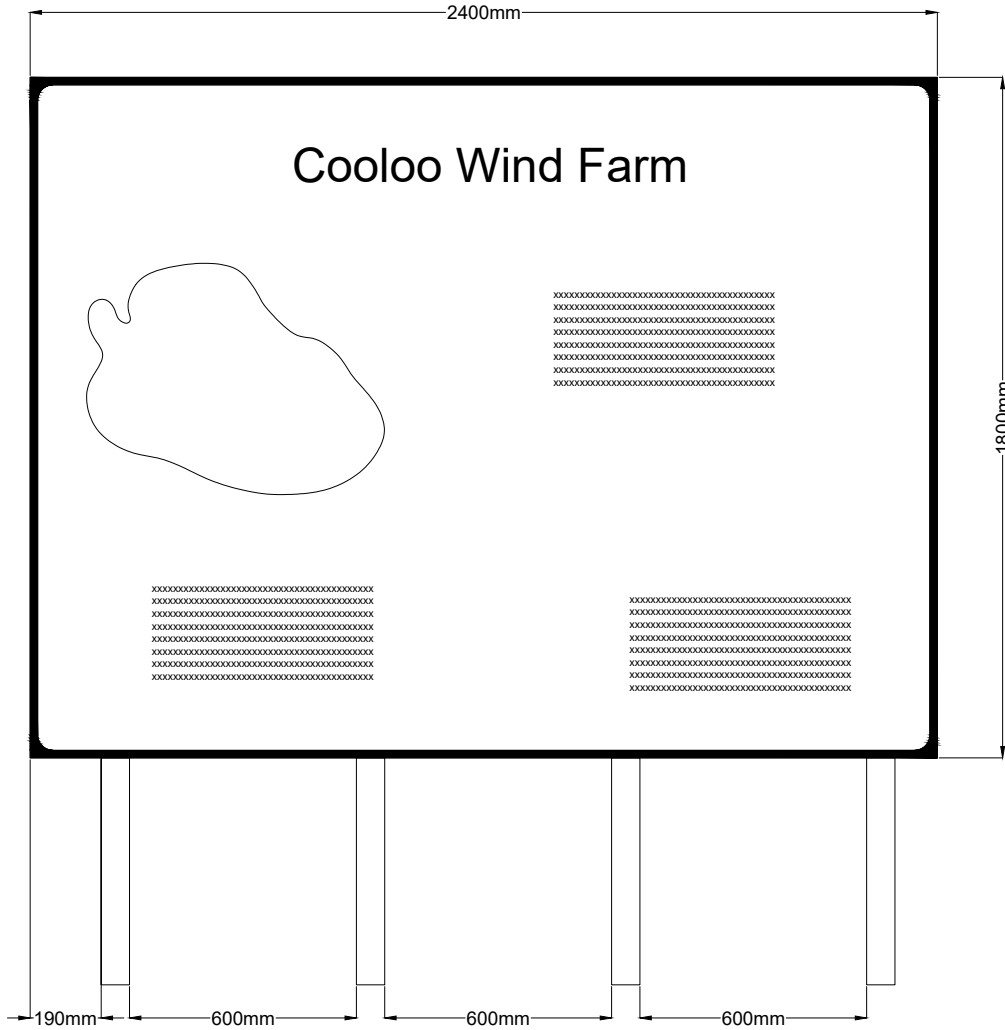
Email: info@www.mkoireland.ie /Website: www.mkoireland.ie



PROJECT TITLE:			
Cooloo Wind Farm, Co. Galway			
DRAWING TITLE:			
Meteorological (Met) Mast			
PROJECT No.:		DRAWING No.:	
190723		190723 - 28	
		SCALE:	
		1:500 @ A3	
DRAWN BY:	CHECKED BY:	DATE:	REVISION:
JOB	RD	24.09.2025	P01



Note
For illustrative purposes only
exact details to be confirmed

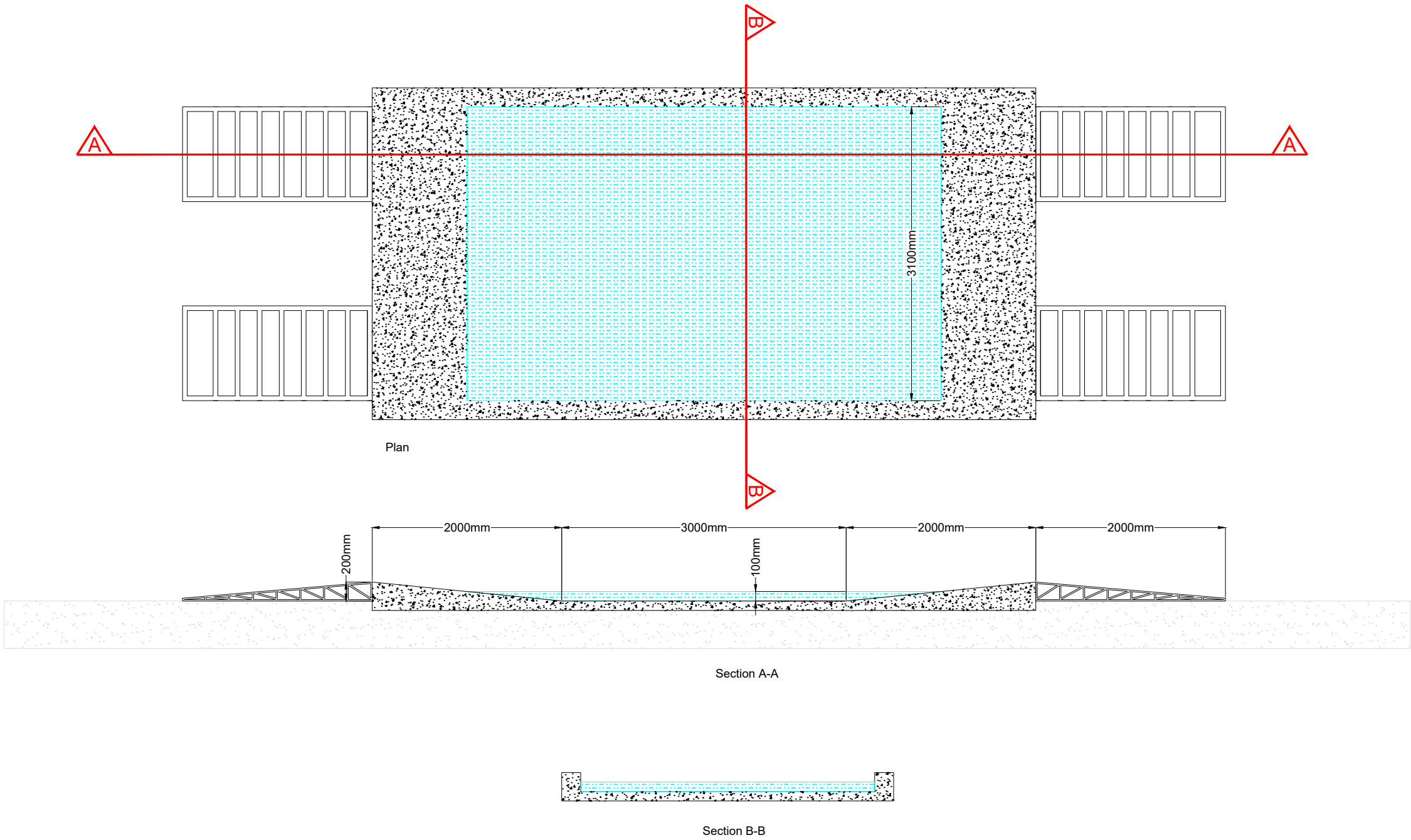


Entry Point Signage Detail

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Operational Stage Signage Detail			
PROJECT No.: 190723	DRAWING No.: 190723 - 29	SCALE: 1 :20 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

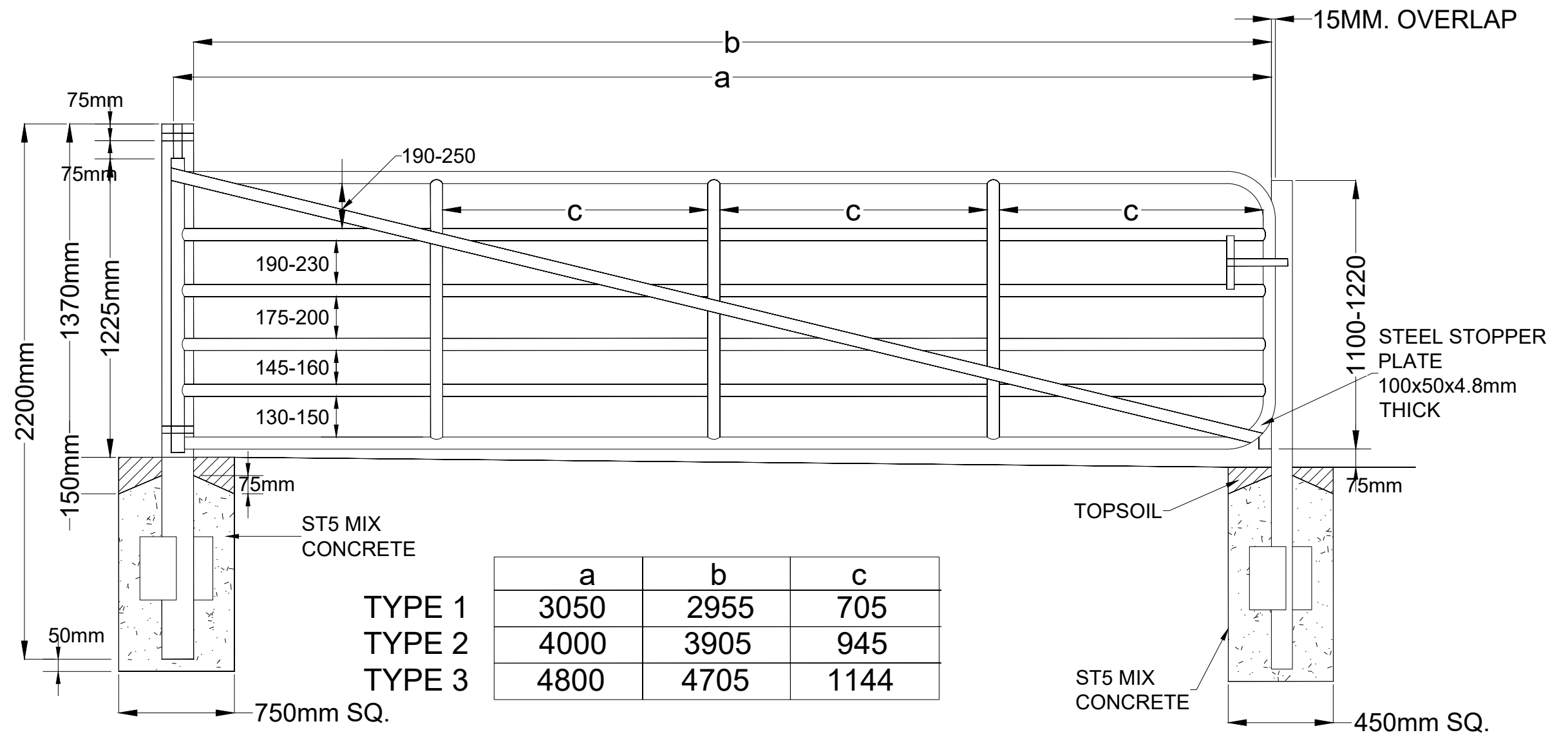


Note
Wheel washes will be appropriately located at all entrances used during construction of the wind farm



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Wheel Wash Detail			
PROJECT No.: 190723	DRAWING No.: 190723 - 30	SCALE: 1:50 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

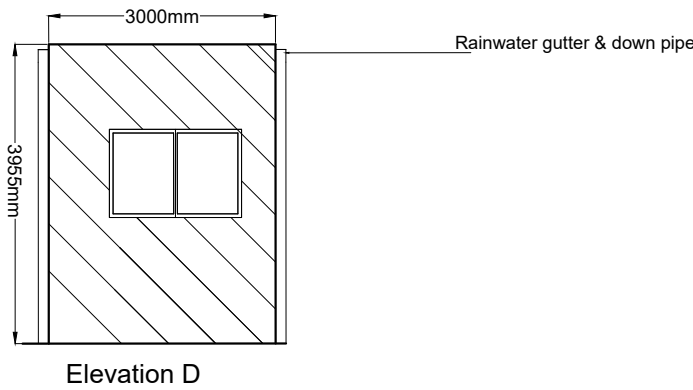
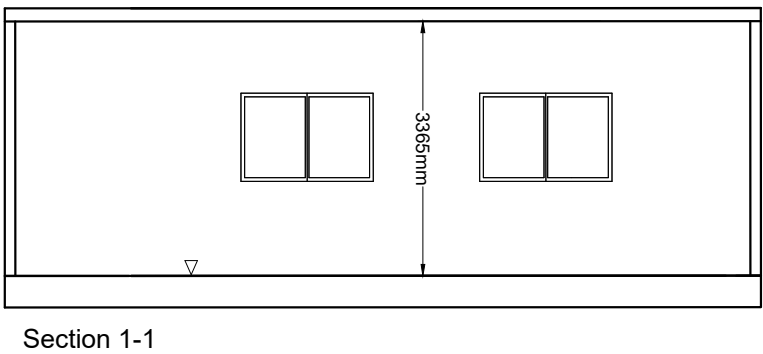
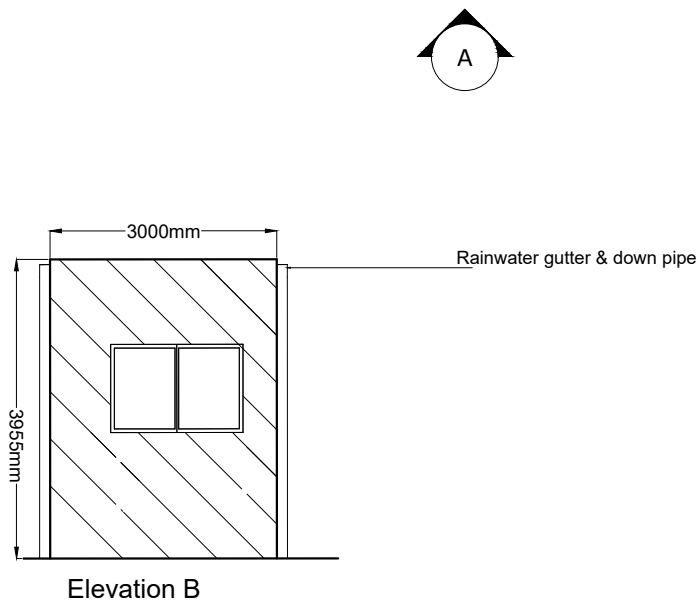
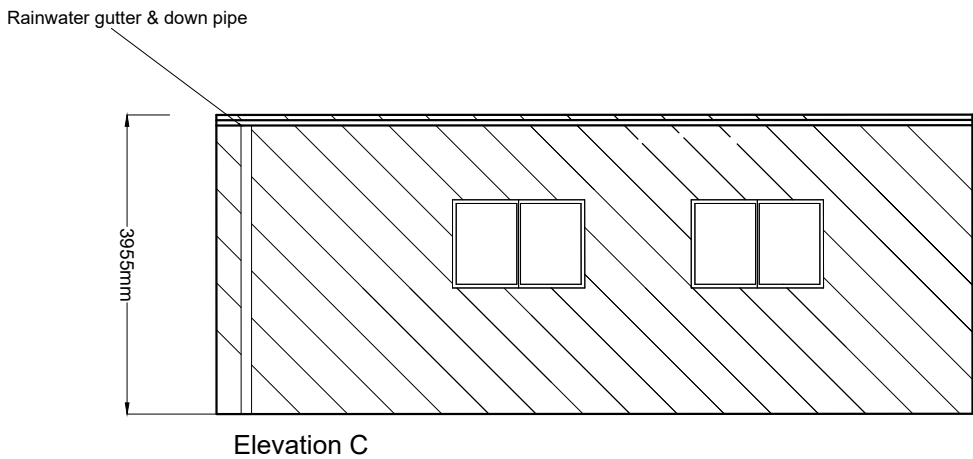
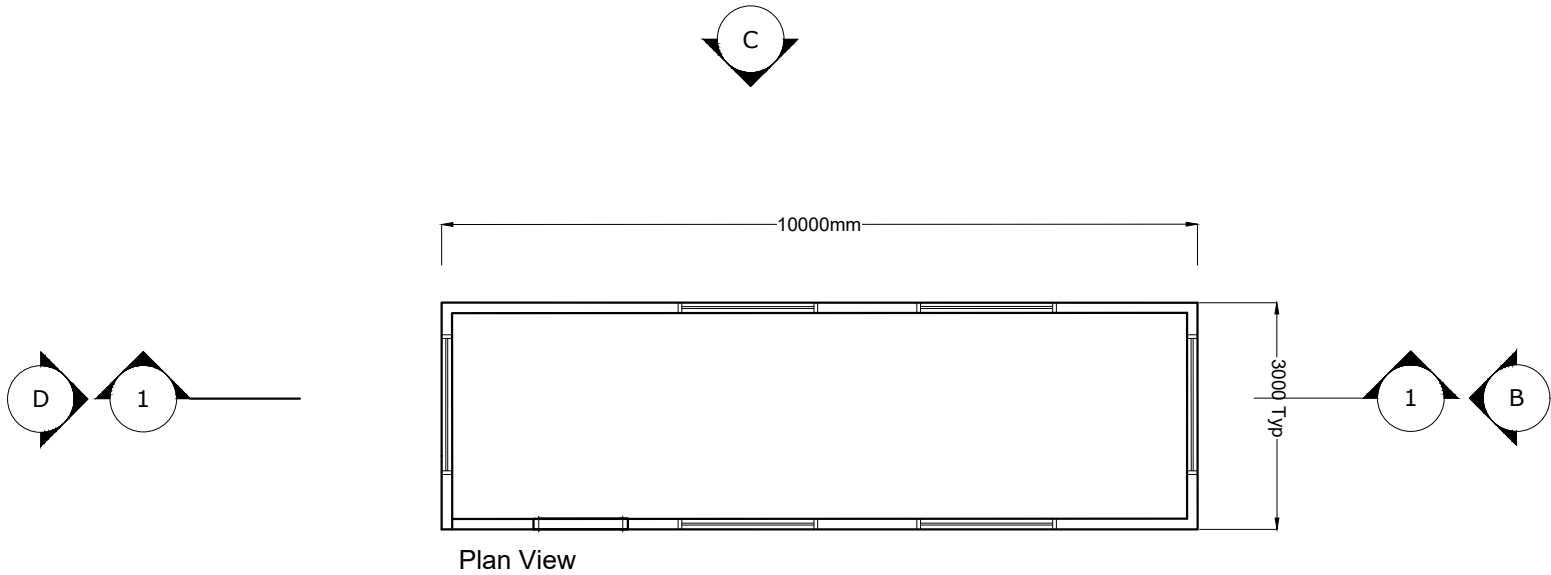
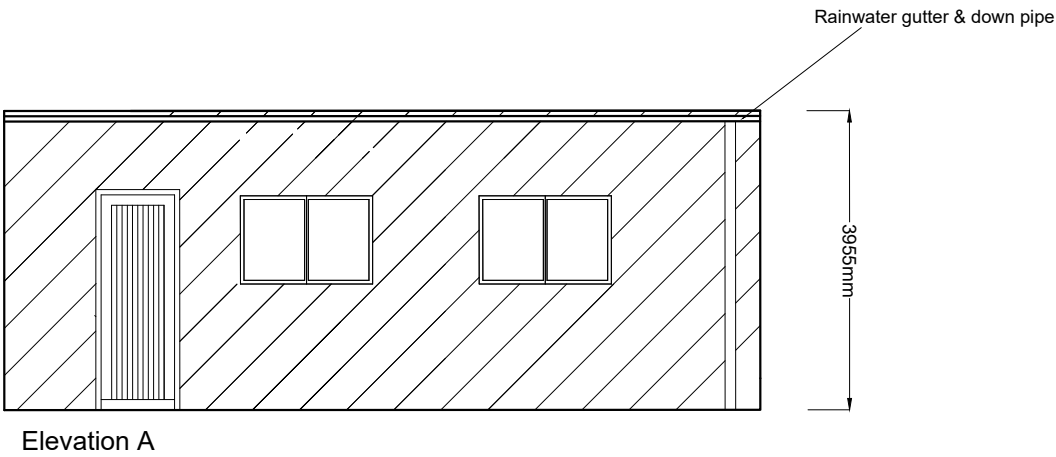




PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Field Gate Detail			
PROJECT No.: 190723	DRAWING No.: 190723 - 31	SCALE: 1: 20 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

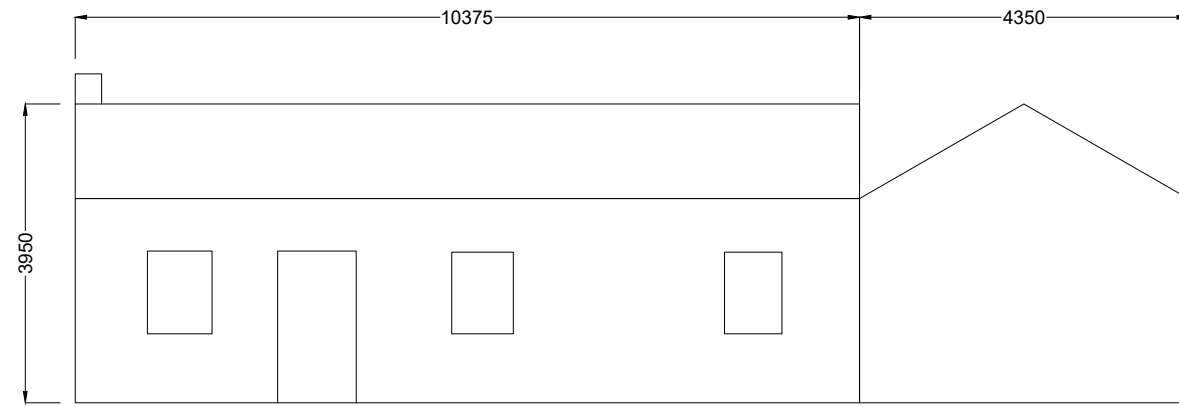


Email: info@www.mkoireland.ie / Website: www.mkoireland.ie

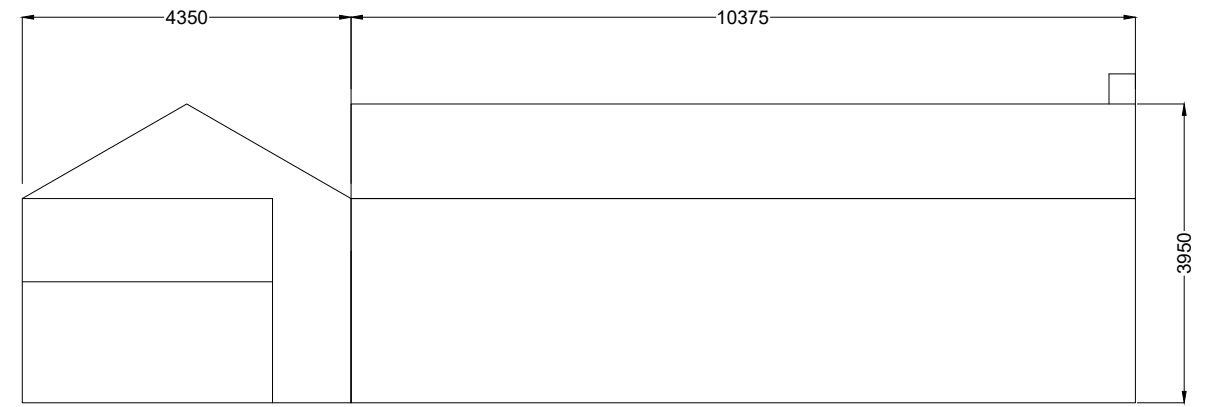


PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Site Office & Staff Facilities Detail			
PROJECT No.: 190723	DRAWING No.: 190723 - 32	SCALE: 1:100 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

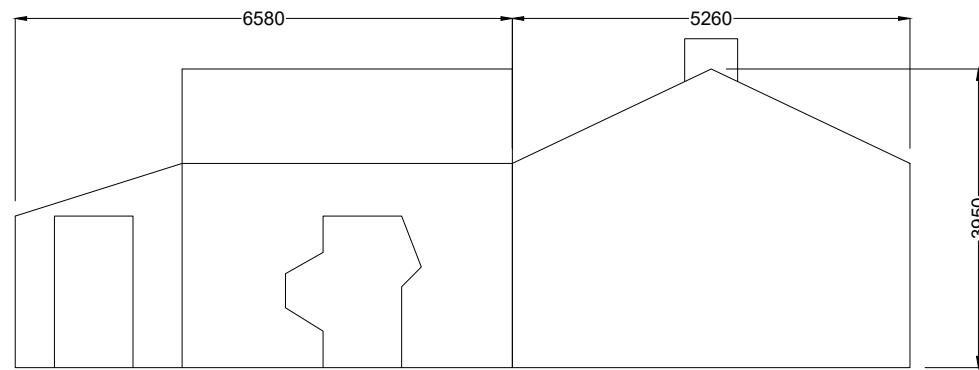




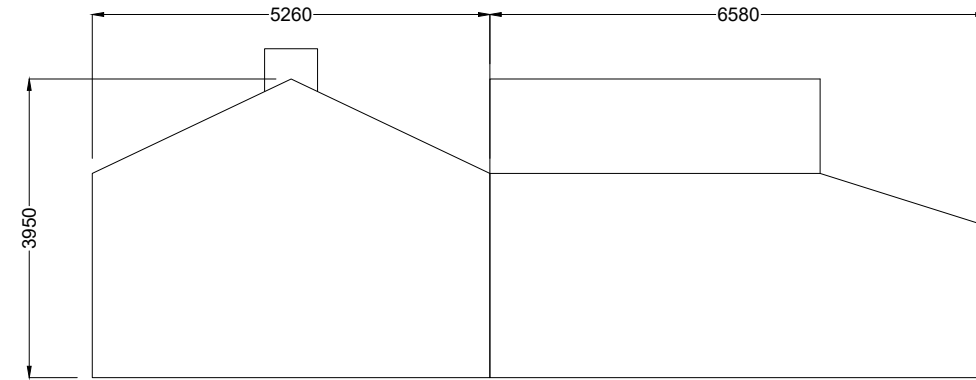
North Elevation



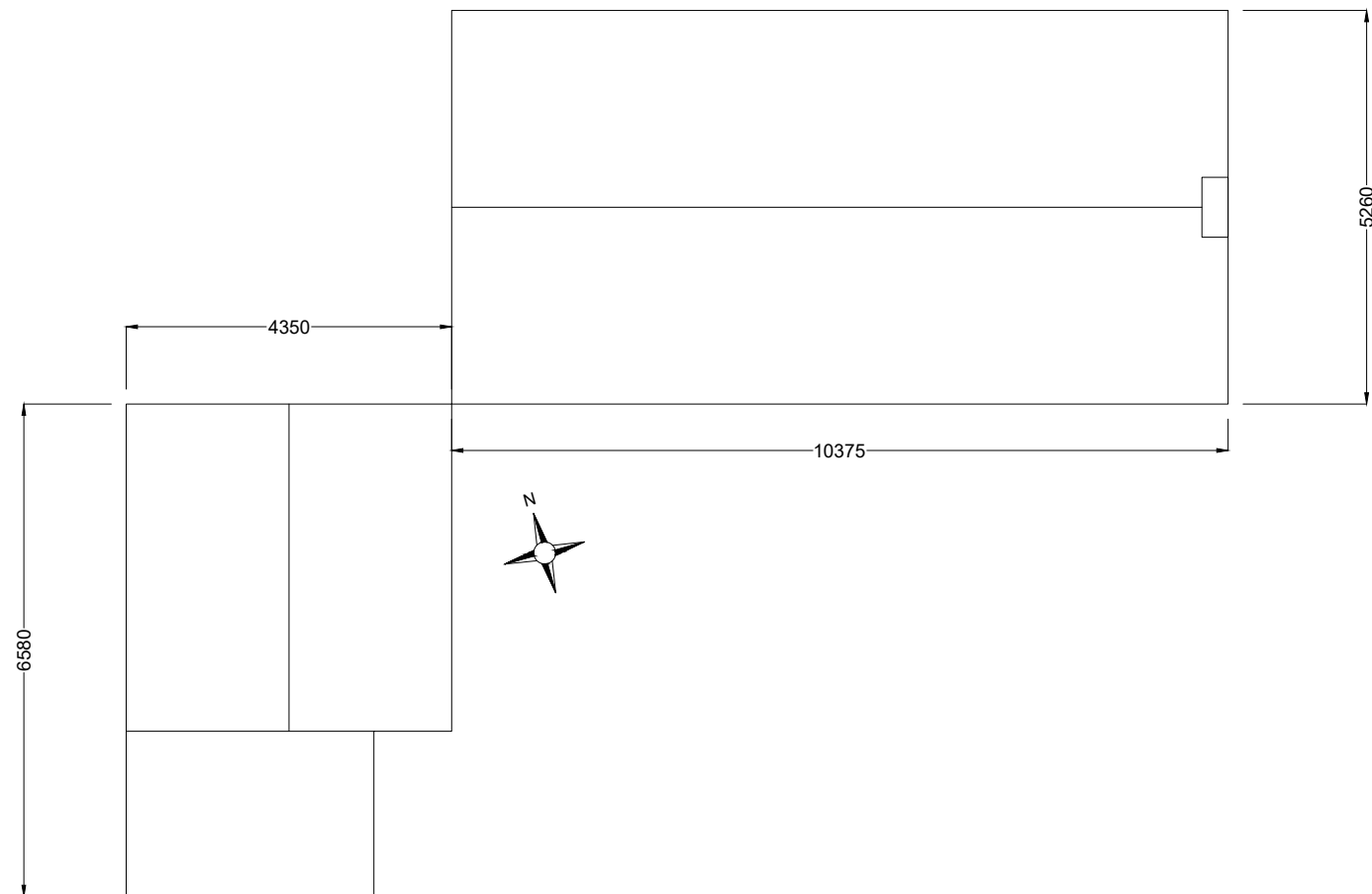
South Elevation



East Elevation



West Elevation



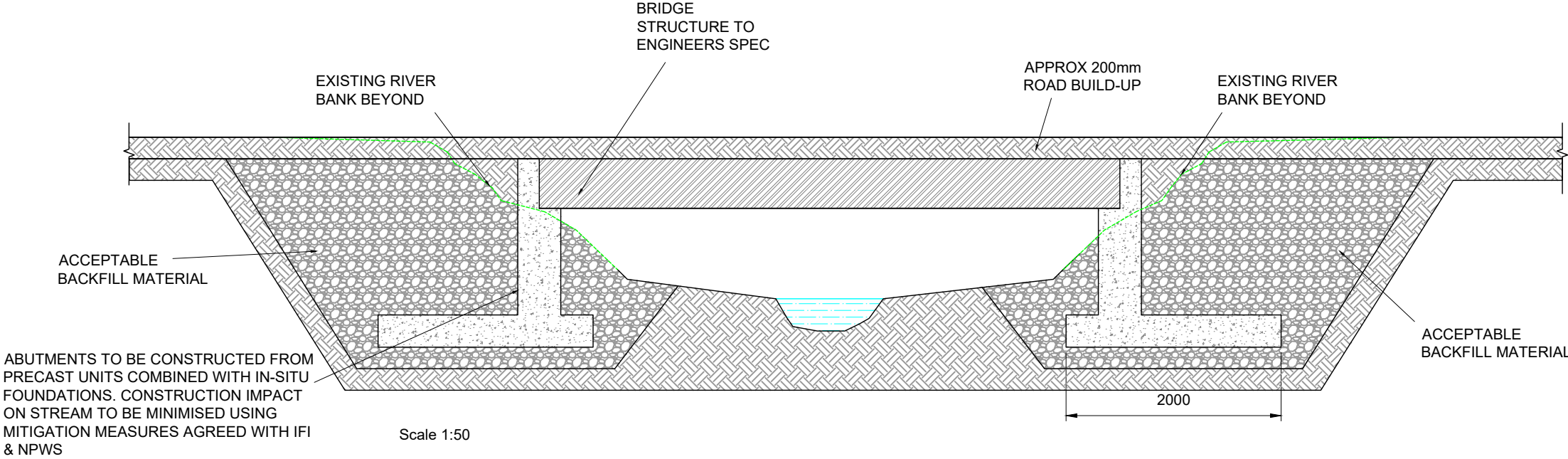
Plan View



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Building for Demolition			
PROJECT No.: 190723	DRAWING No.: 190723 - 34	SCALE: 1:100 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01



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



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Clear Span Watercourse Crossing			
PROJECT No.: 190723	DRAWING No.: 190723 - 35	SCALE: 1:50 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01





- Project Design Drawing Notes**
1. Drawings issued are for planning application purposes only.
 2. Drawings not to be used for construction/contract conditions.
 3. Copyright, all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
 4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
 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 Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Linear Replanting
 - Bog Wood Scrub
 - Broadland Woodland
 - Fen Habitat
 - Grassland Measures
 - Marsh Fritillary Enhancement
 - Peat Repository Enhancement
 - Development Footprint



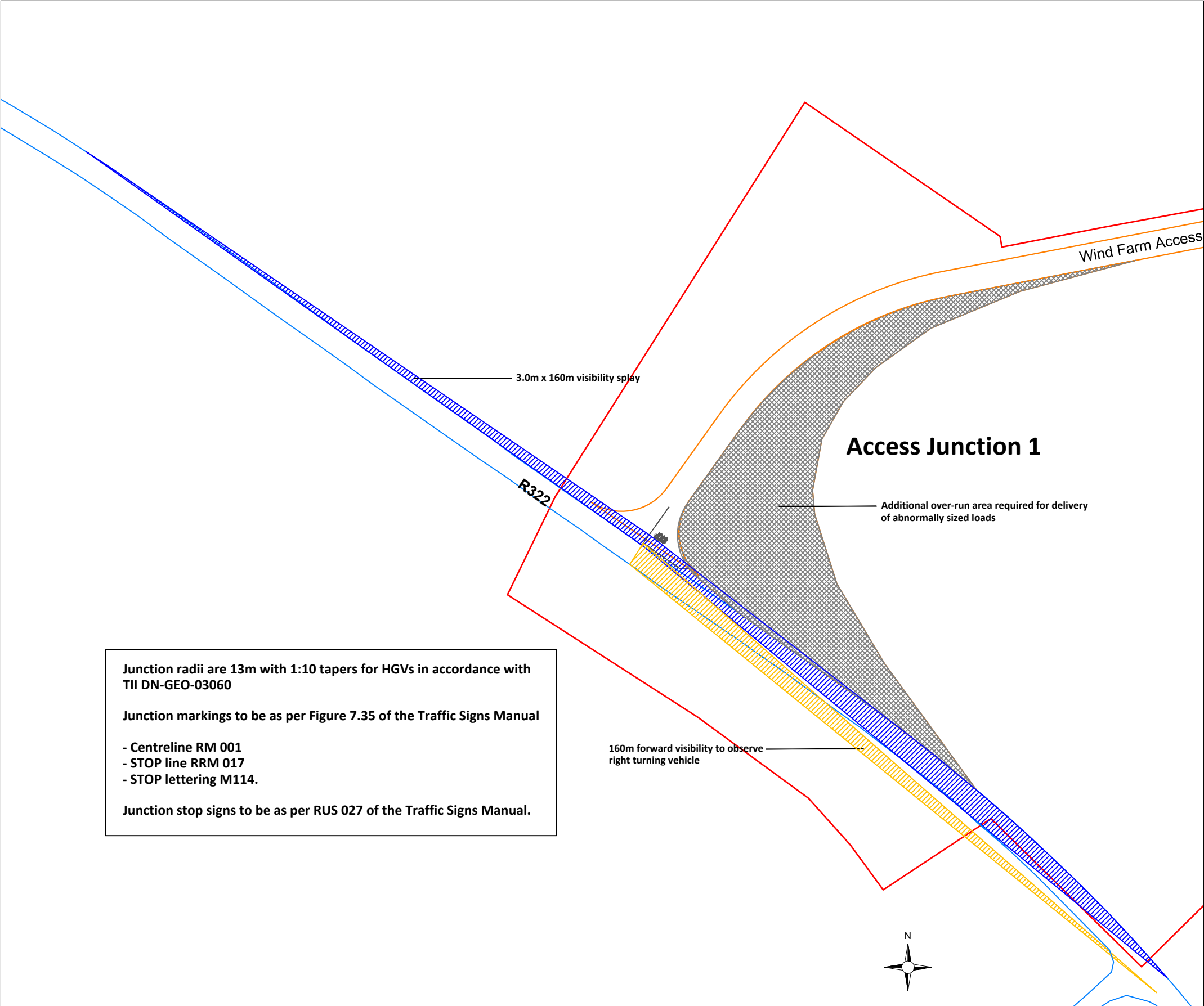
PROJECT TITLE: Cooloo Wind Farm, Co. Galway		
DRAWING TITLE: Biodiversity Enhancement and Management Proposals		
PROJECT No.: 190723	DRAWING No.: 190723 - 36	SCALE: 1:15,000 @ A3
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025
		REVISION.: P01
OS SHEET No.: 2816, 2817, 2884, 2885, 2953, 2954		



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

Drawing Legend

- Existing Road Edge
- Proposed New Road
- Transport Runover Area
- Sight Line 1
- Sight Line 2

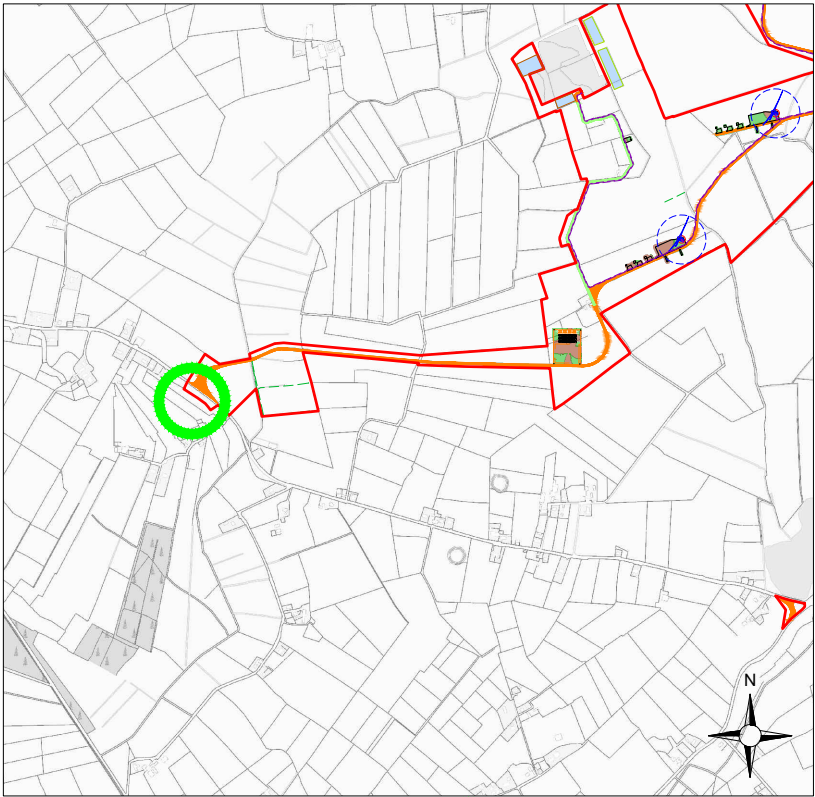


Junction radii are 13m with 1:10 tapers for HGVs in accordance with TII DN-GEO-03060

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.



1:25,000 Location on Context Map

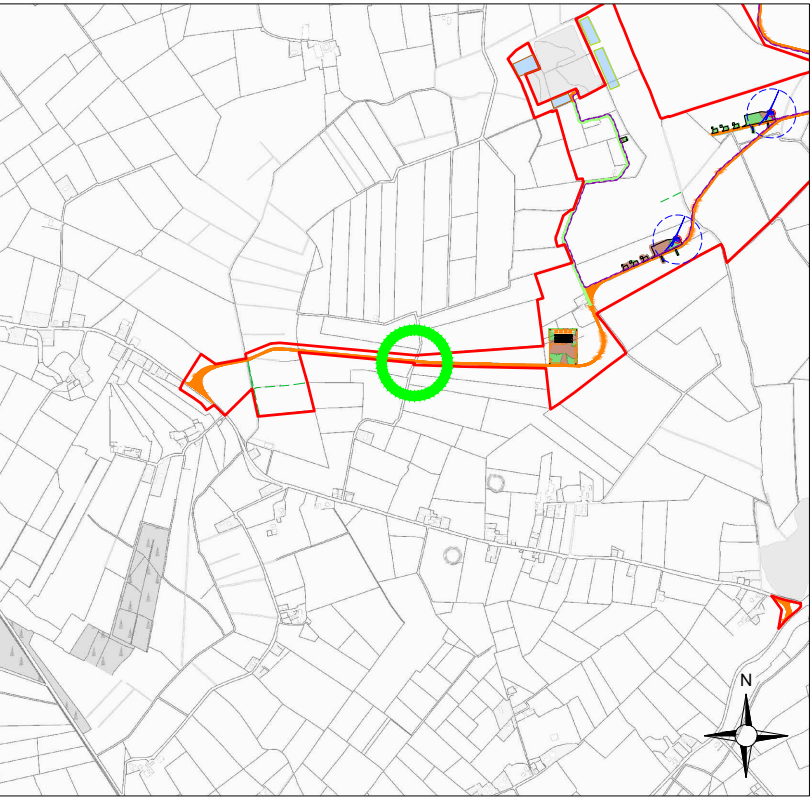
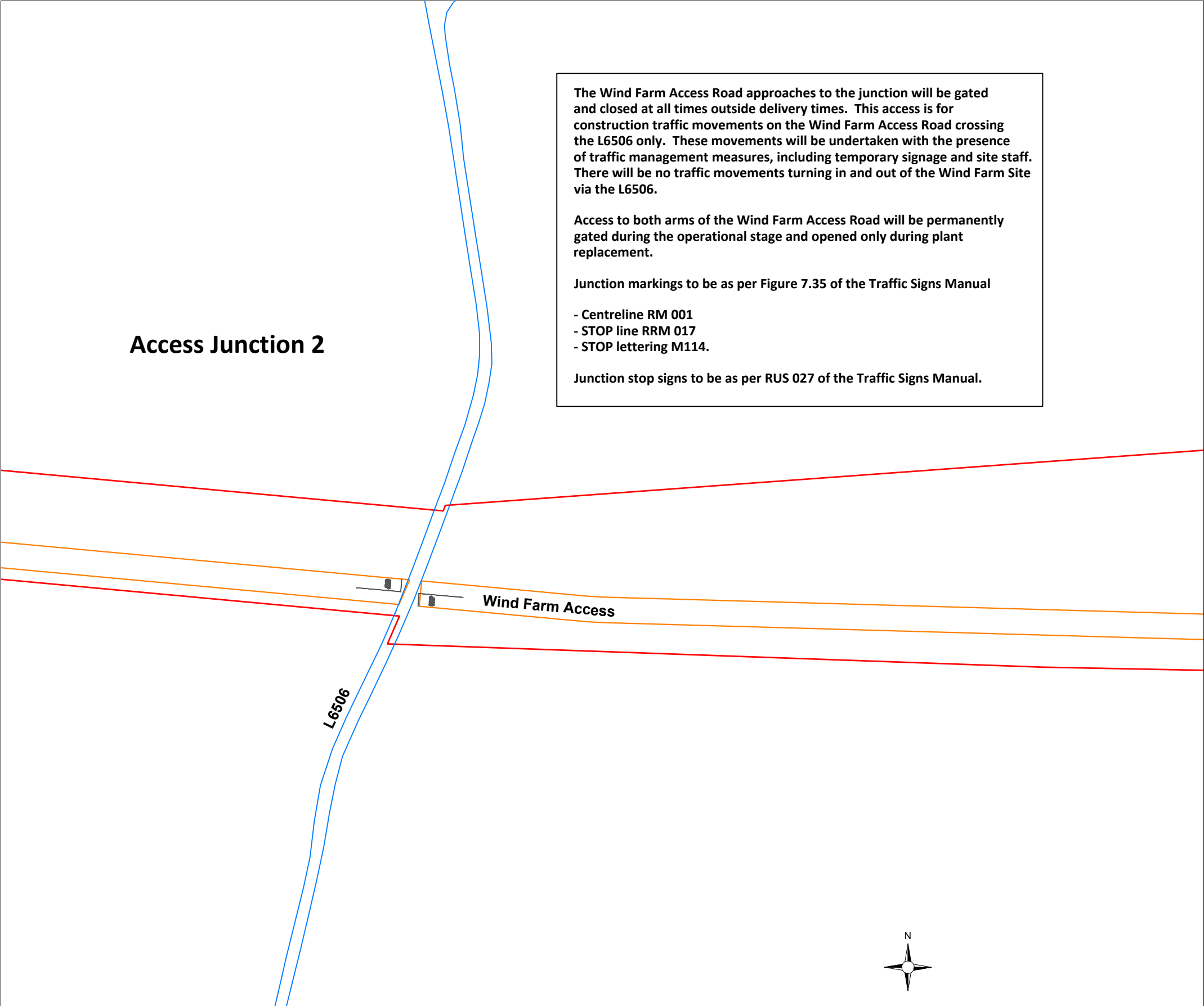
PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Proposed Access Junction 1			
PROJECT No.: 190723	DRAWING No.: 190723 - 37	SCALE: 1:1,000 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01



Drawing Legend

Existing Road Edge

Proposed New Road



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Proposed Access Junction 2			
PROJECT No.: 190723	DRAWING No.: 190723 - 38	SCALE: 1:1,000 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

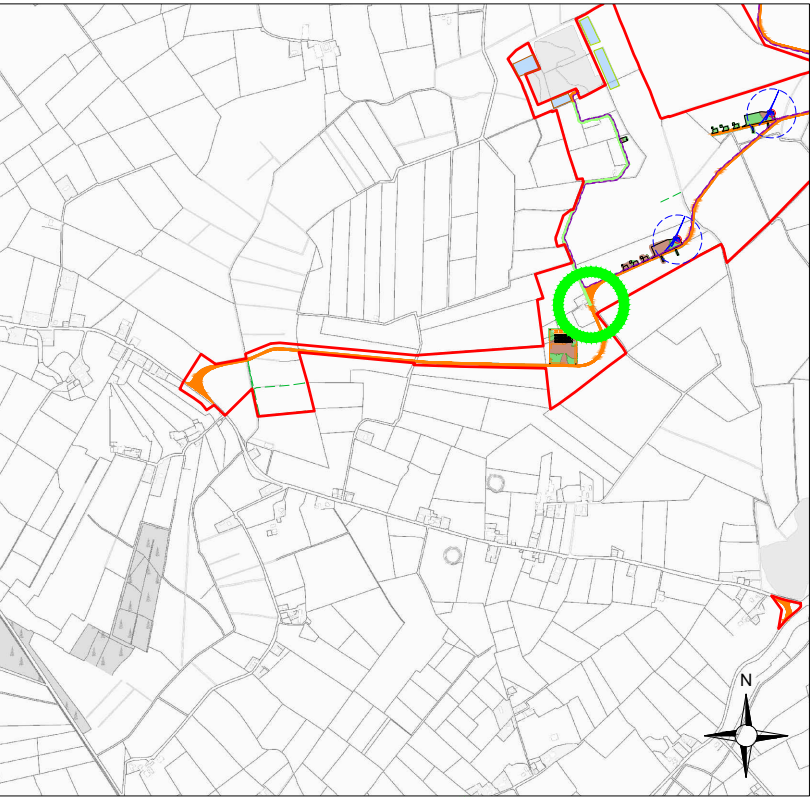
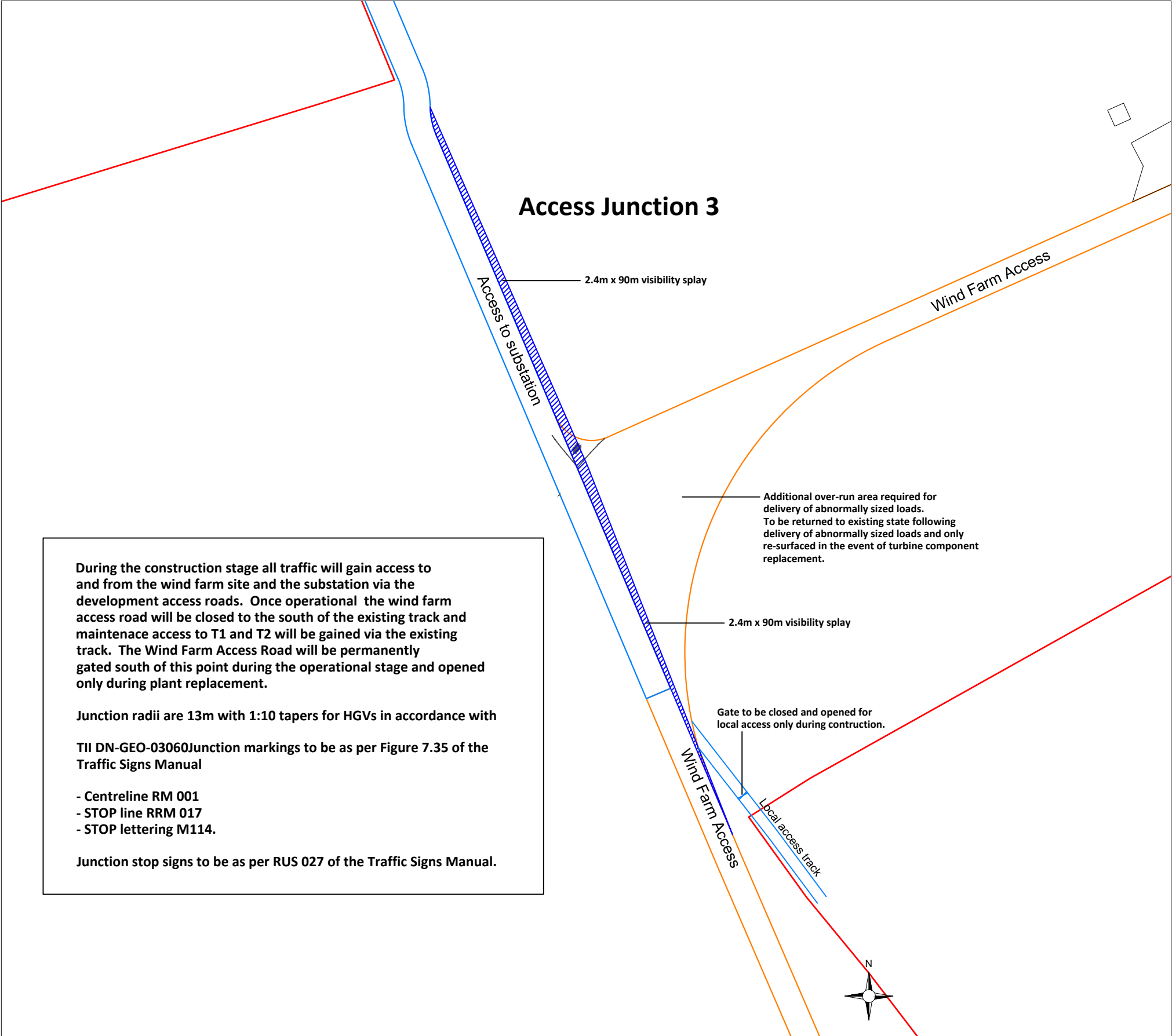


Drawing Legend

Existing Road Edge

Proposed New Road

Sight Line 1



1:25,000 Location on Context Map

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Proposed Access Junction 3			
PROJECT No.: 190723	DRAWING No.: 190723 - 39	SCALE: 1:1,000 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

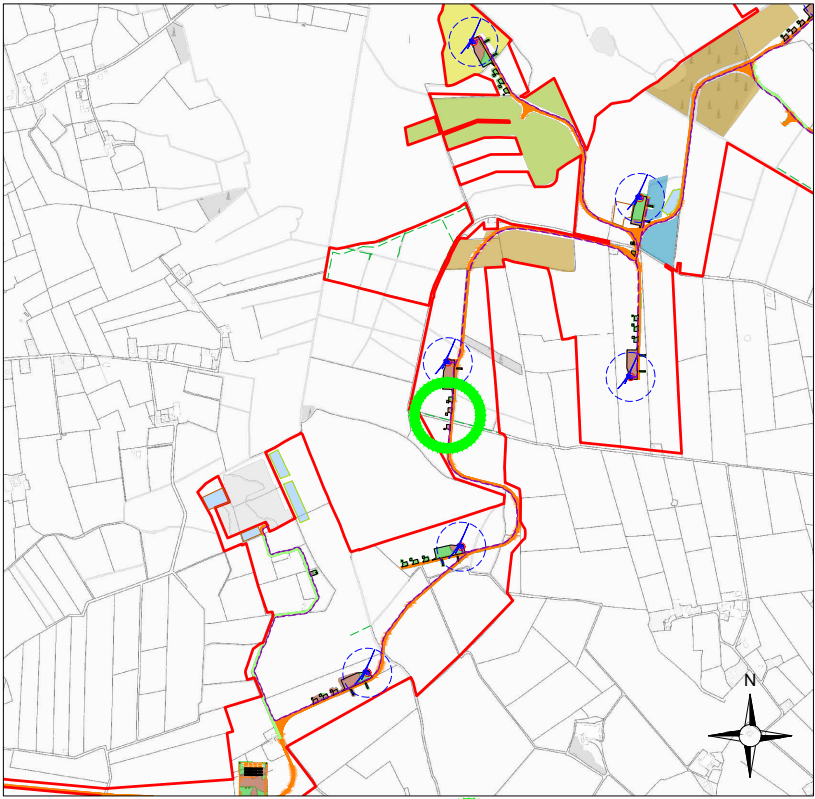
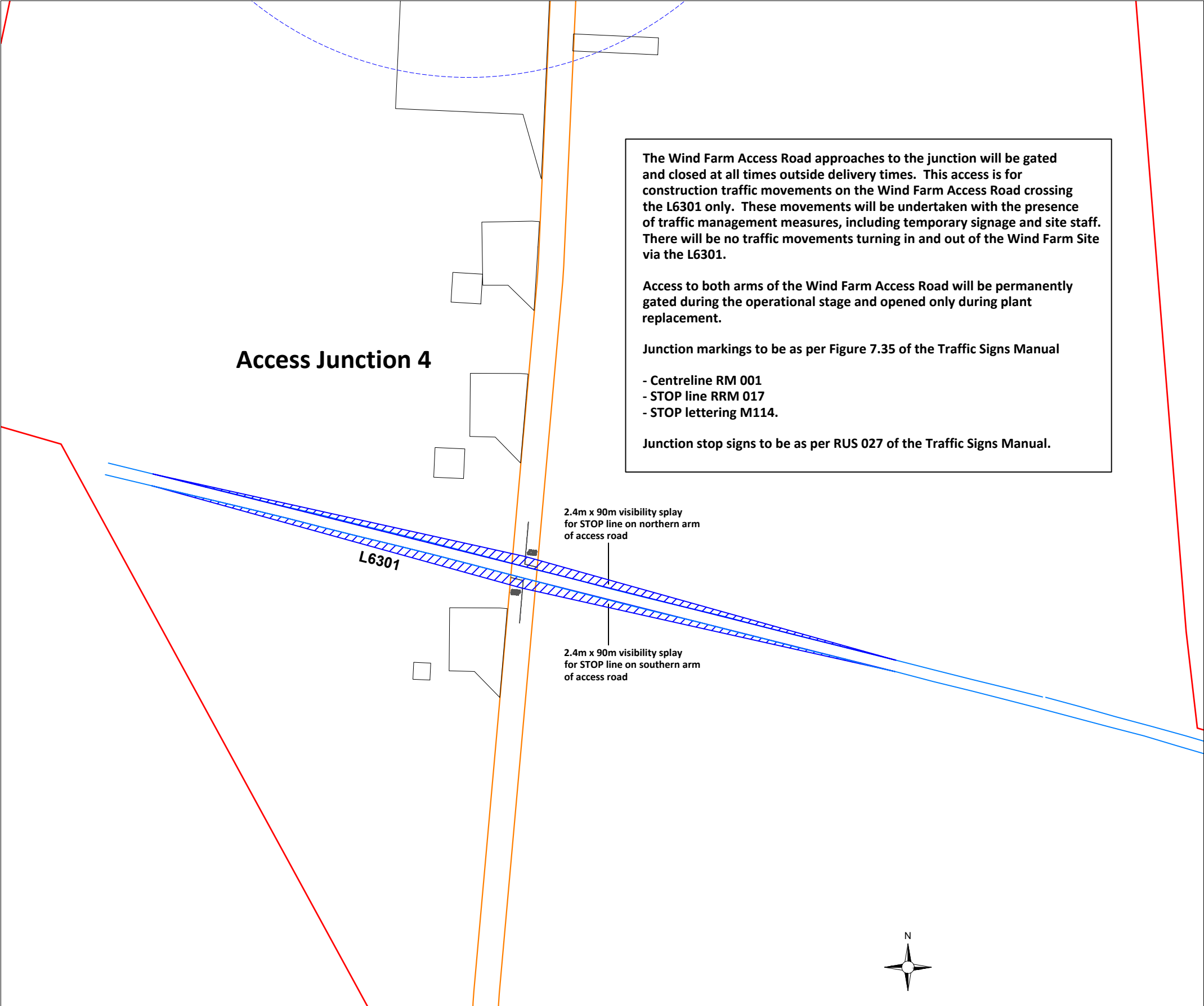
Email: info@www.mkoireland.ie /Website: www.mkoireland.ie

Drawing Legend

Existing Road Edge

Proposed New Road

Sight Line 1



1:25,000 Location on Context Map

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Proposed Access Junction 4			
PROJECT No.: 190723	DRAWING No.: 190723 - 40	SCALE: 1:1,000 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01

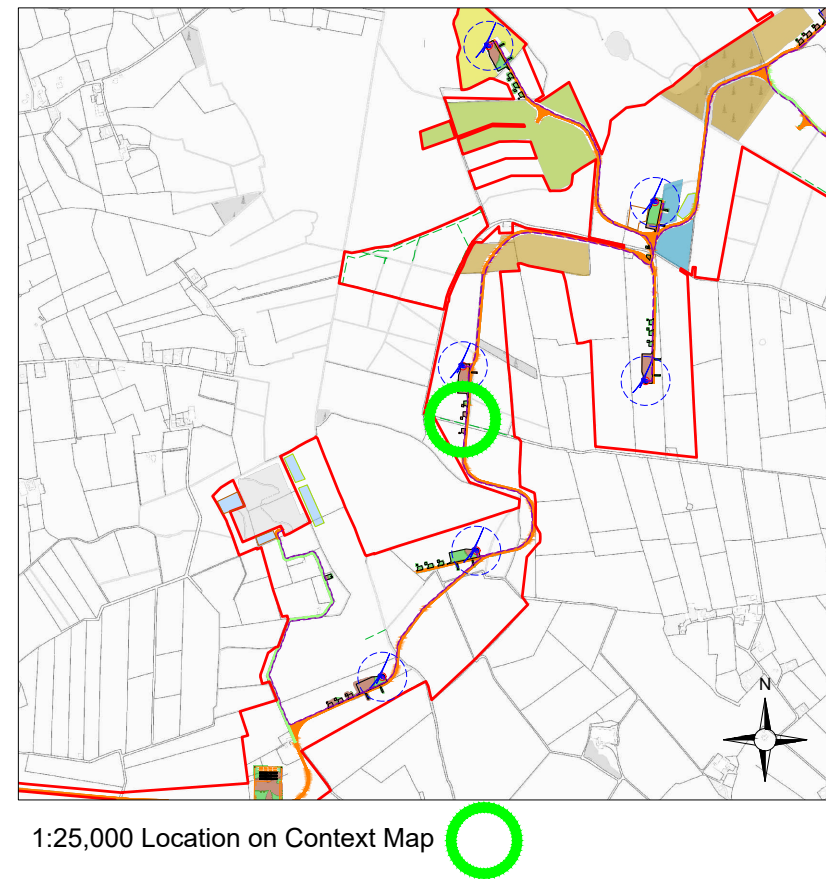
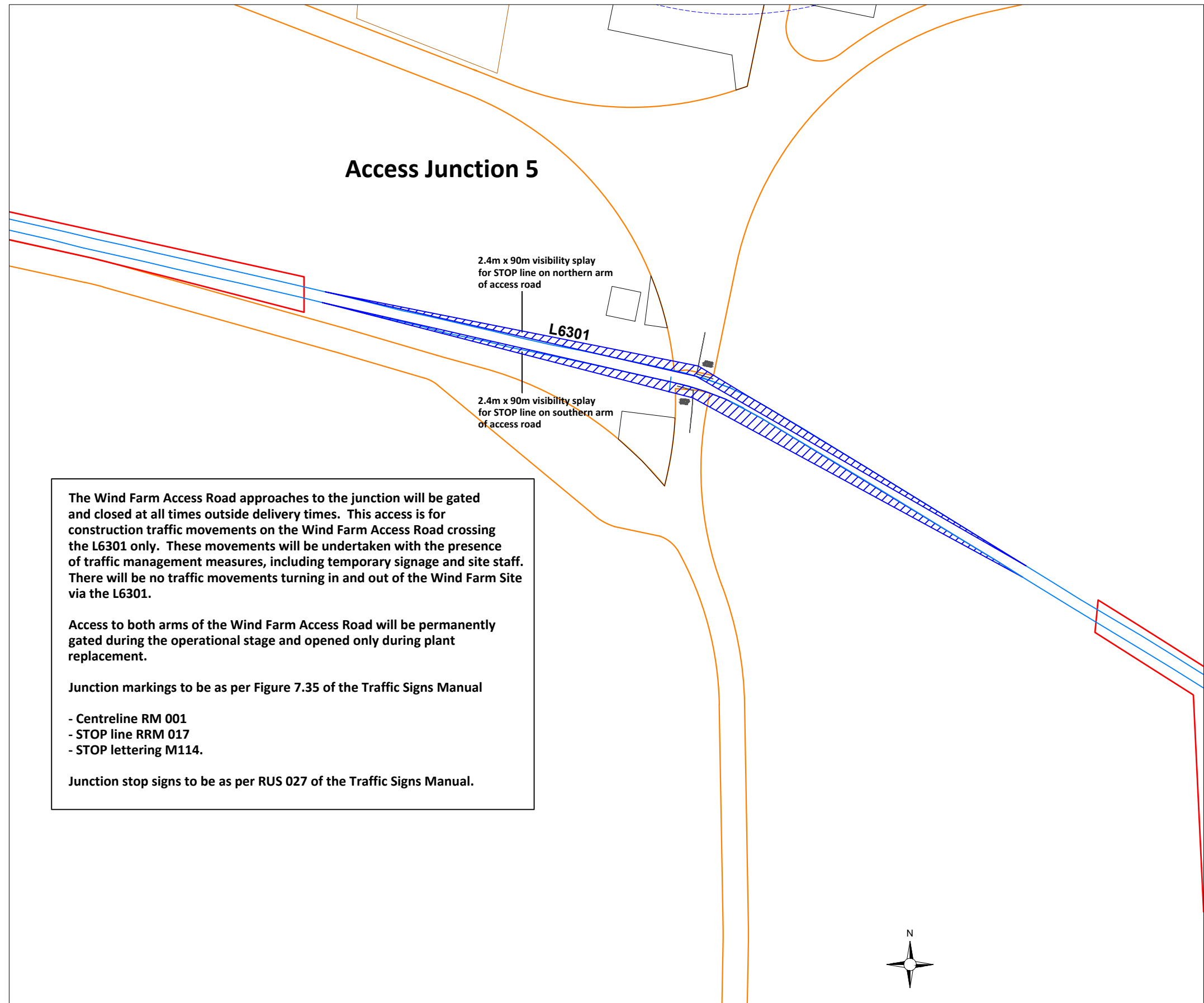


Drawing Legend

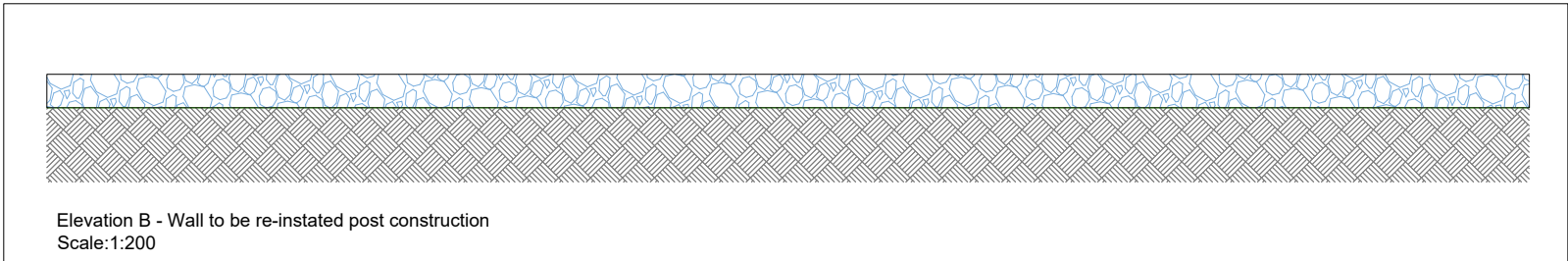
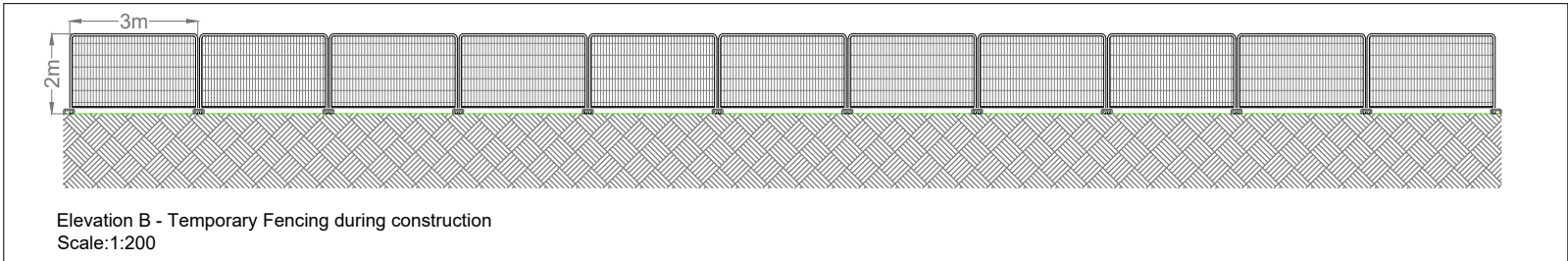
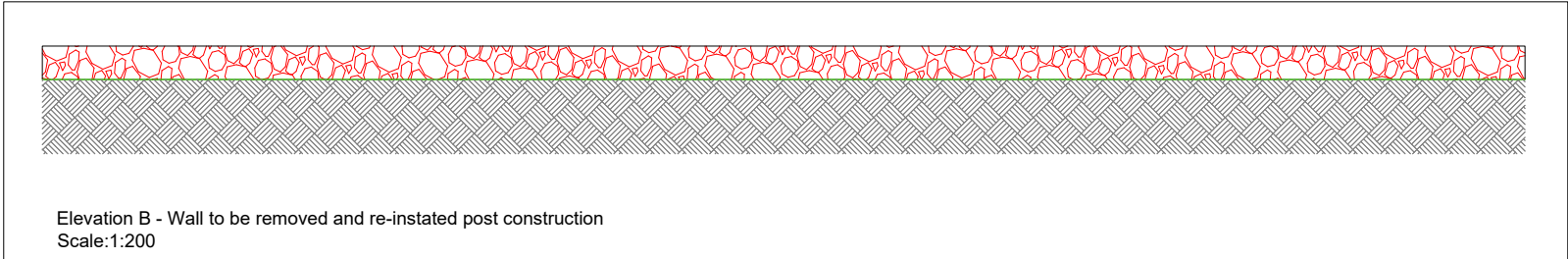
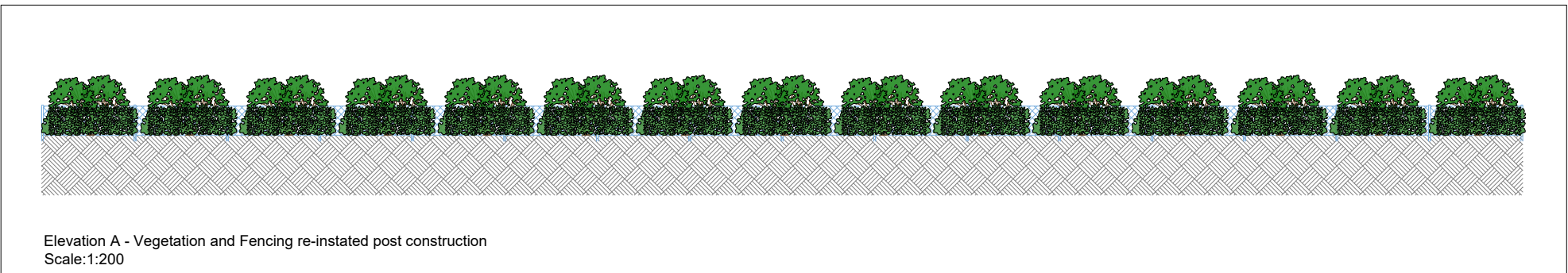
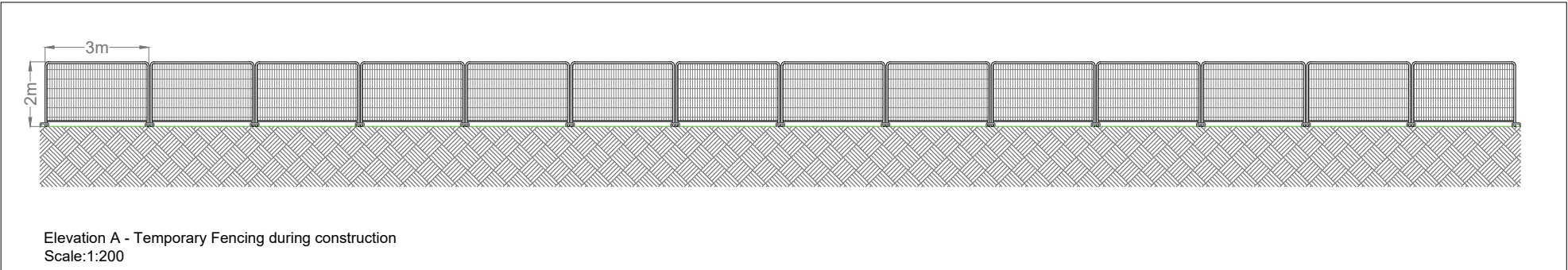
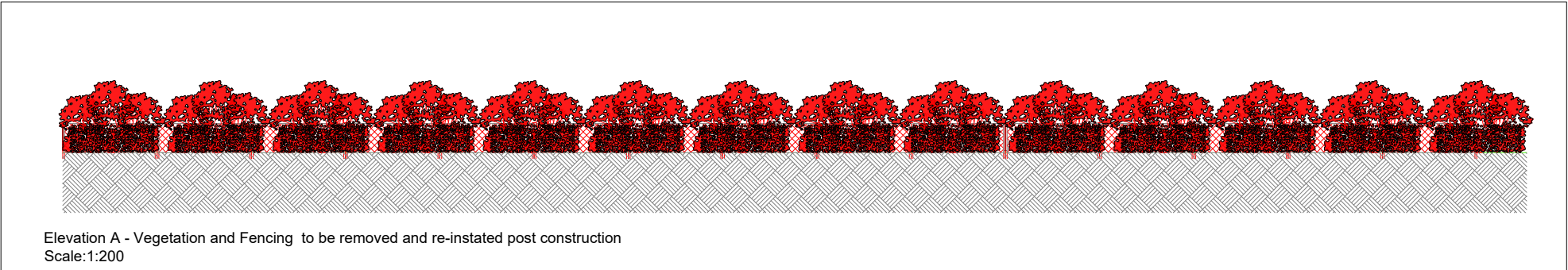
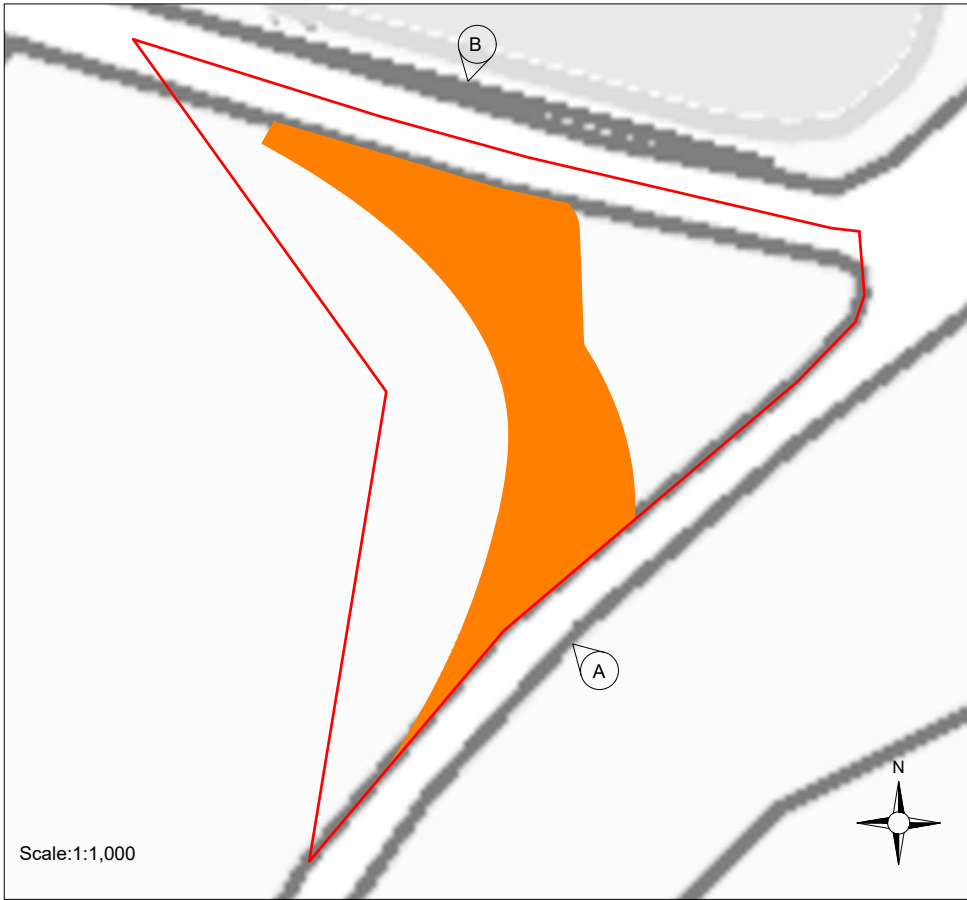
Existing Road Edge

Proposed New Road

Sight Line 1



PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Proposed Access Junction 5			
PROJECT No.: 190723	DRAWING No.: 190723 - 41	SCALE: 1:1,000 @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01



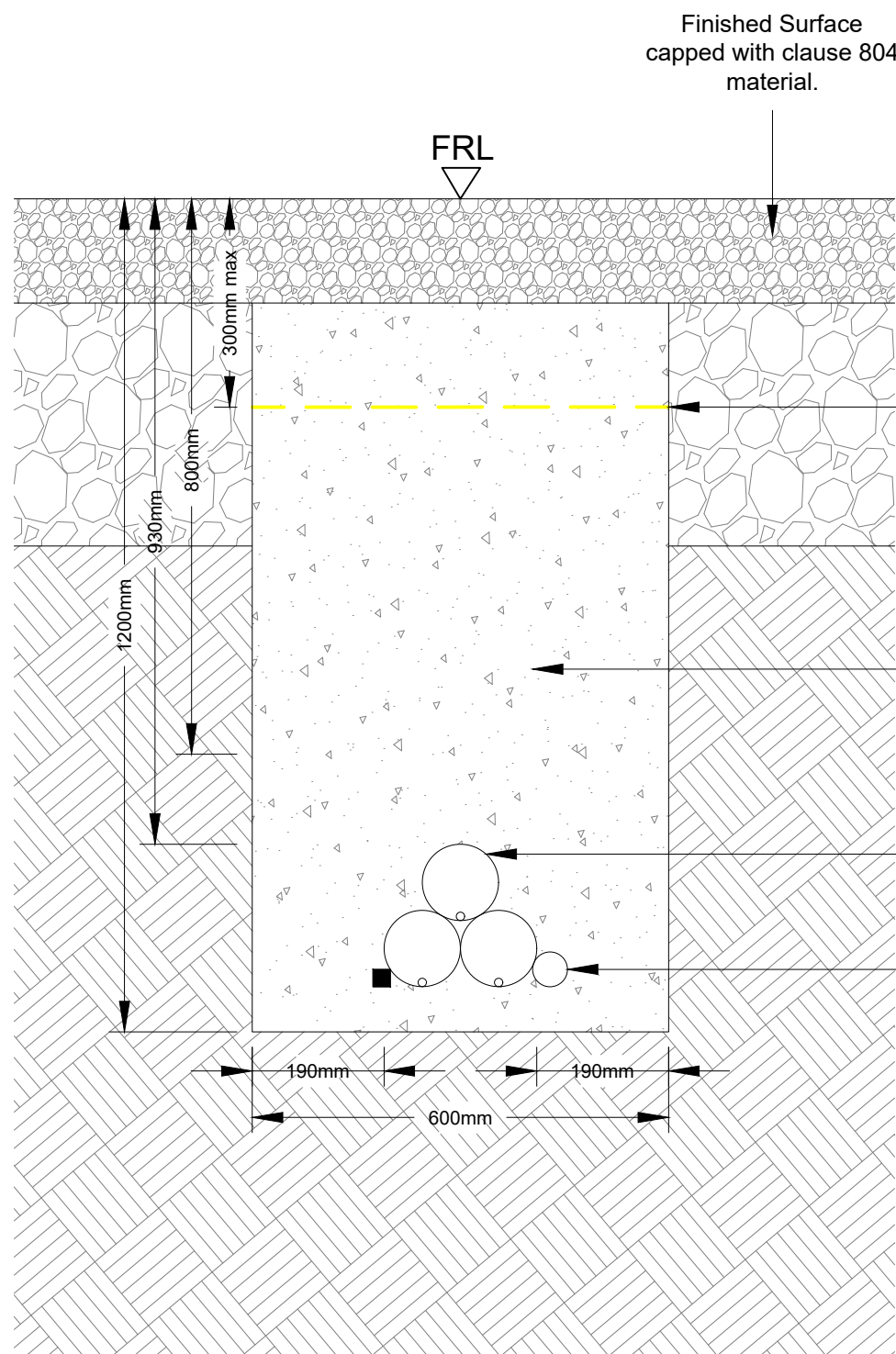
Legend:

- Vegetation to be Removed(Indicative - for Illustration Purposes only)
- Reinstated Vegetation (Indicative - for Illustration Purposes only)
- Fencing to be temporarily removed
- Stone wall to be temporarily removed
- Fencing to be reinstated
- Stone wall to be reinstated
- Temporary Fencing

PROJECT TITLE: Cooloo Wind Farm, Co. Galway			
DRAWING TITLE: Temporary Boundary Treatment Works			
PROJECT No.: 190723	DRAWING No.: 190723 - 42	SCALE: As Shown @ A3	
DRAWN BY: JOB	CHECKED BY: RD	DATE: 24.09.2025	REVISION.: P01



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



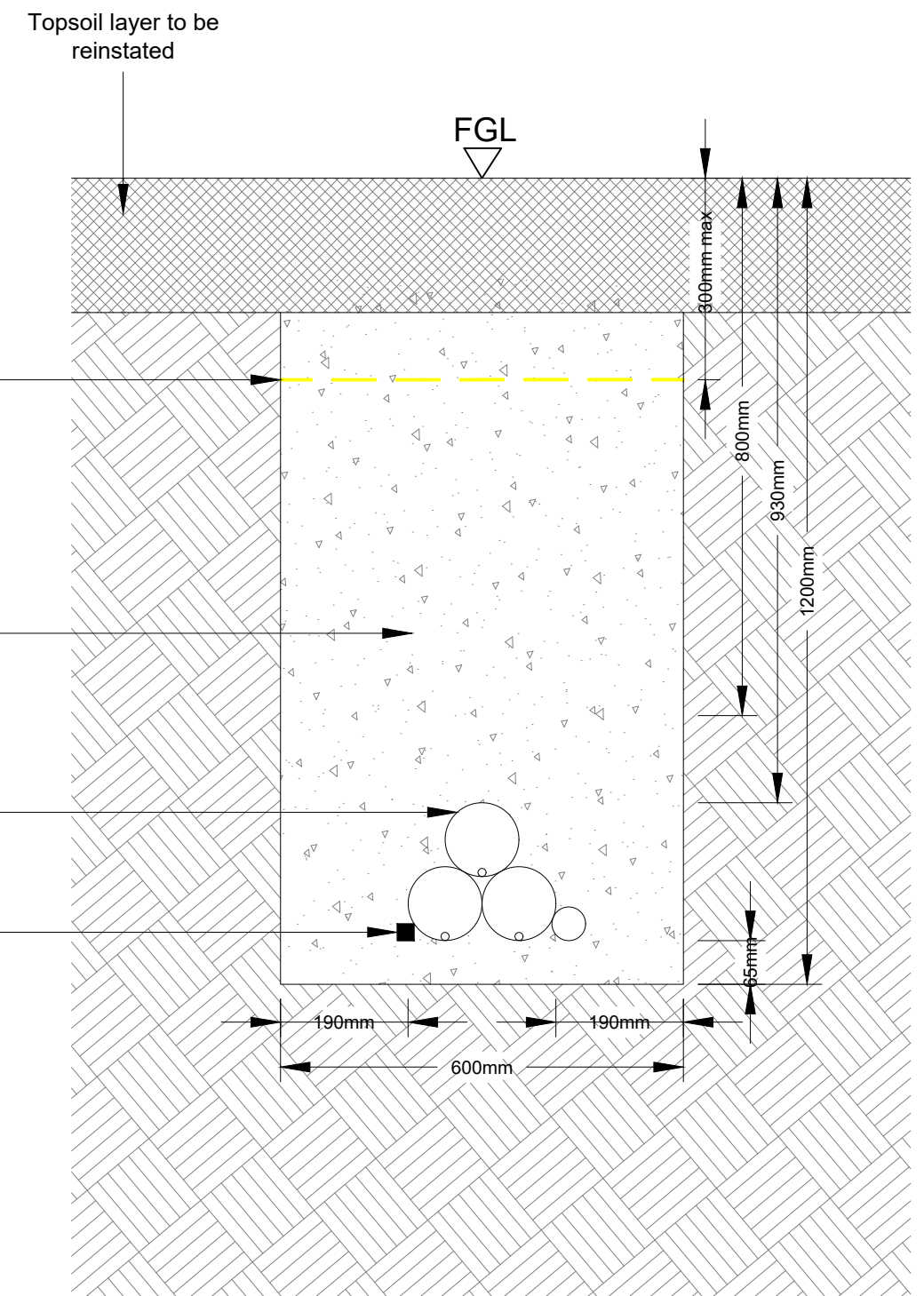
Yellow Marker Warning Tape.
across full width of trench

- Trench backfilled with clause 804 material and compacted in accordance with NRA guidelines.

110mm Diameter Ducts, complete with
12mm Diameter draw ropes.

50mm Diameter solid wall
fibre optic cable ducting.

25mm Square earth
conductor.

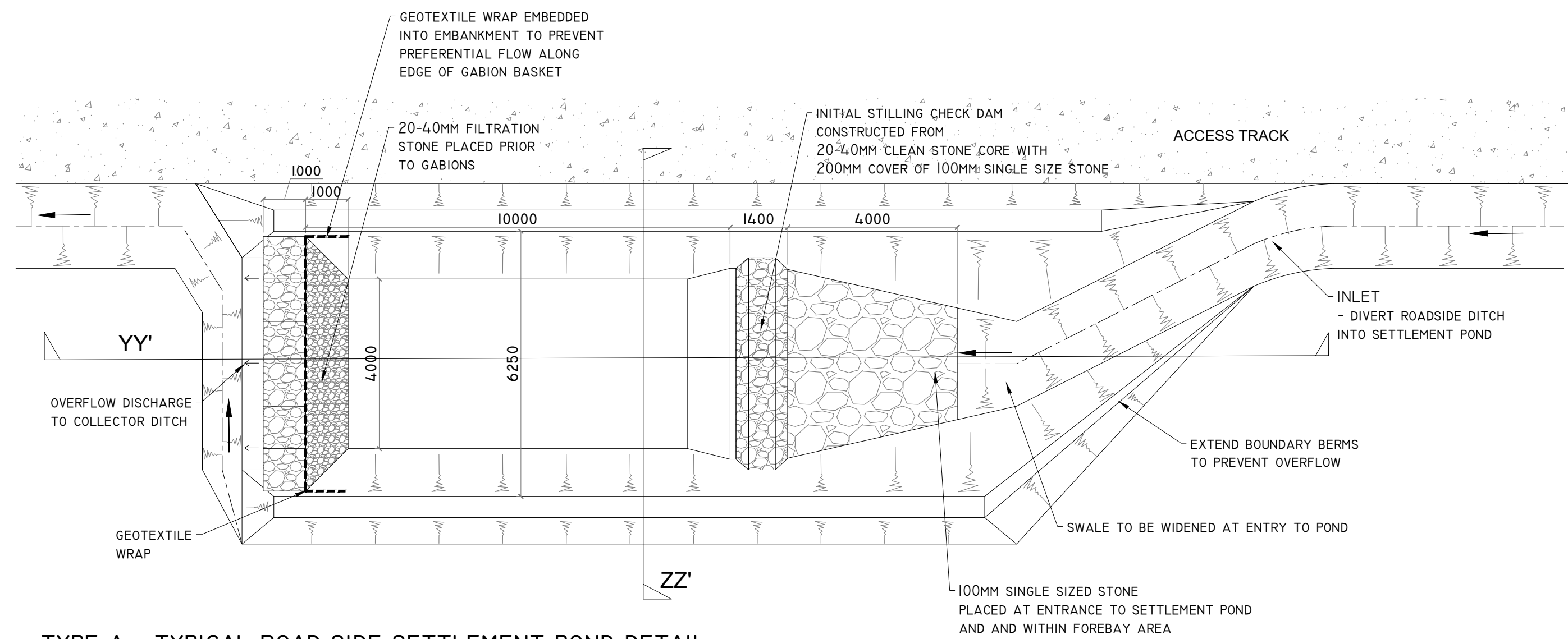


33kV Cable - On Road Trench Detail - Cross Section

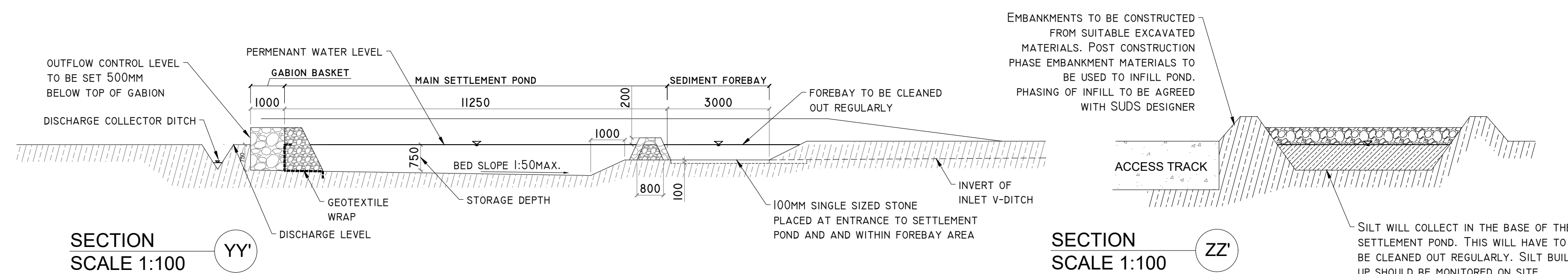
33kV Cable - Off Road Trench Detail - Cross Section

PROJECT TITLE:			Cooloo Wind Farm, Co. Galway		
DRAWING TITLE:					
33kV Cable Trench Sections					
PROJECT No.:		DRAWING No.:		SCALE:	
190723		190723 - 43		1:10 @ A3	
DRAWN BY:	CHECKED BY:	DATE:		REVISION.:	
JOB	RD	24.09.2025		P01	

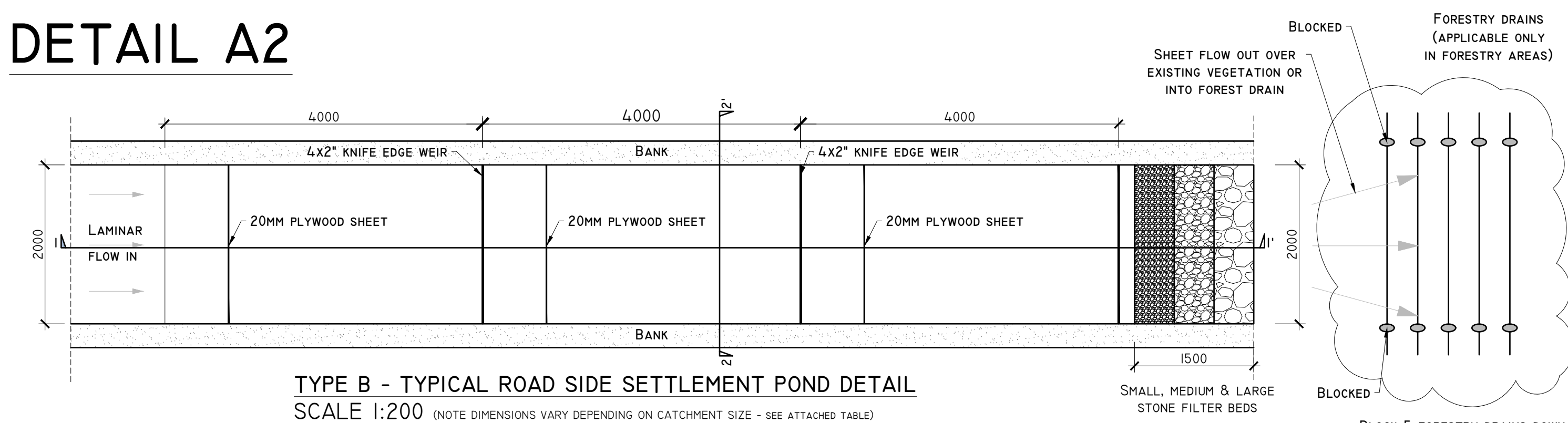
DETAIL AI



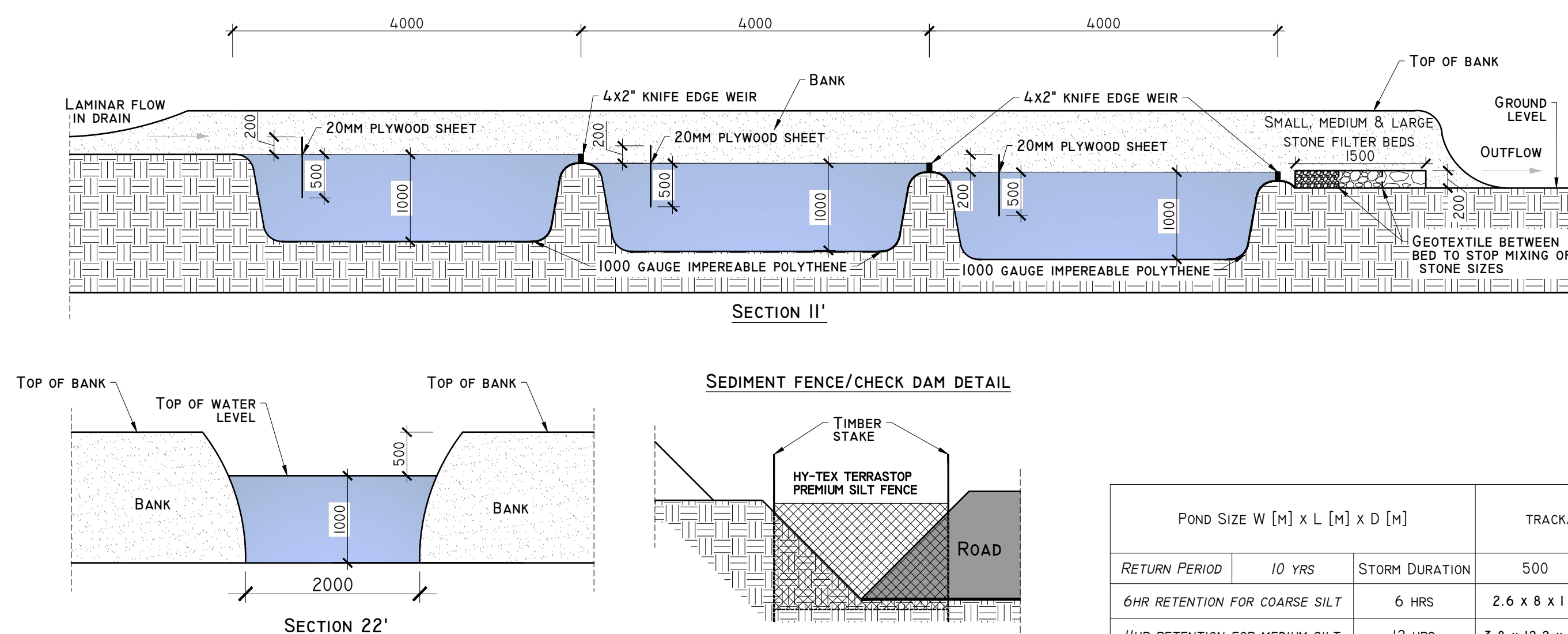
TYPE A - TYPICAL ROAD SIDE SETTLEMENT POND DETAIL
SCALE 1:100 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)



DETAIL A2

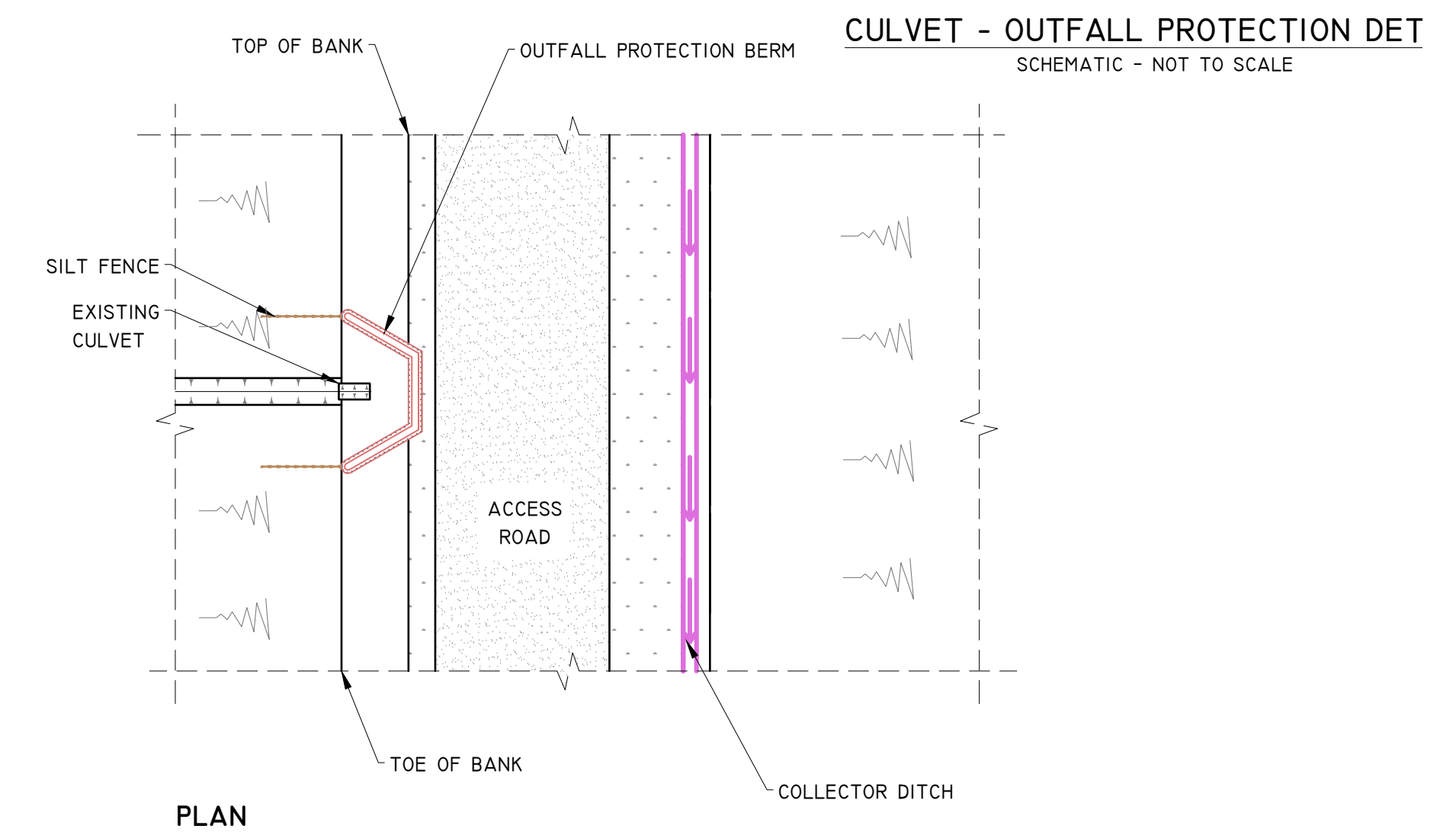


TYPE B - TYPICAL ROAD SIDE SETTLEMENT POND DETAIL
SCALE 1:200 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)



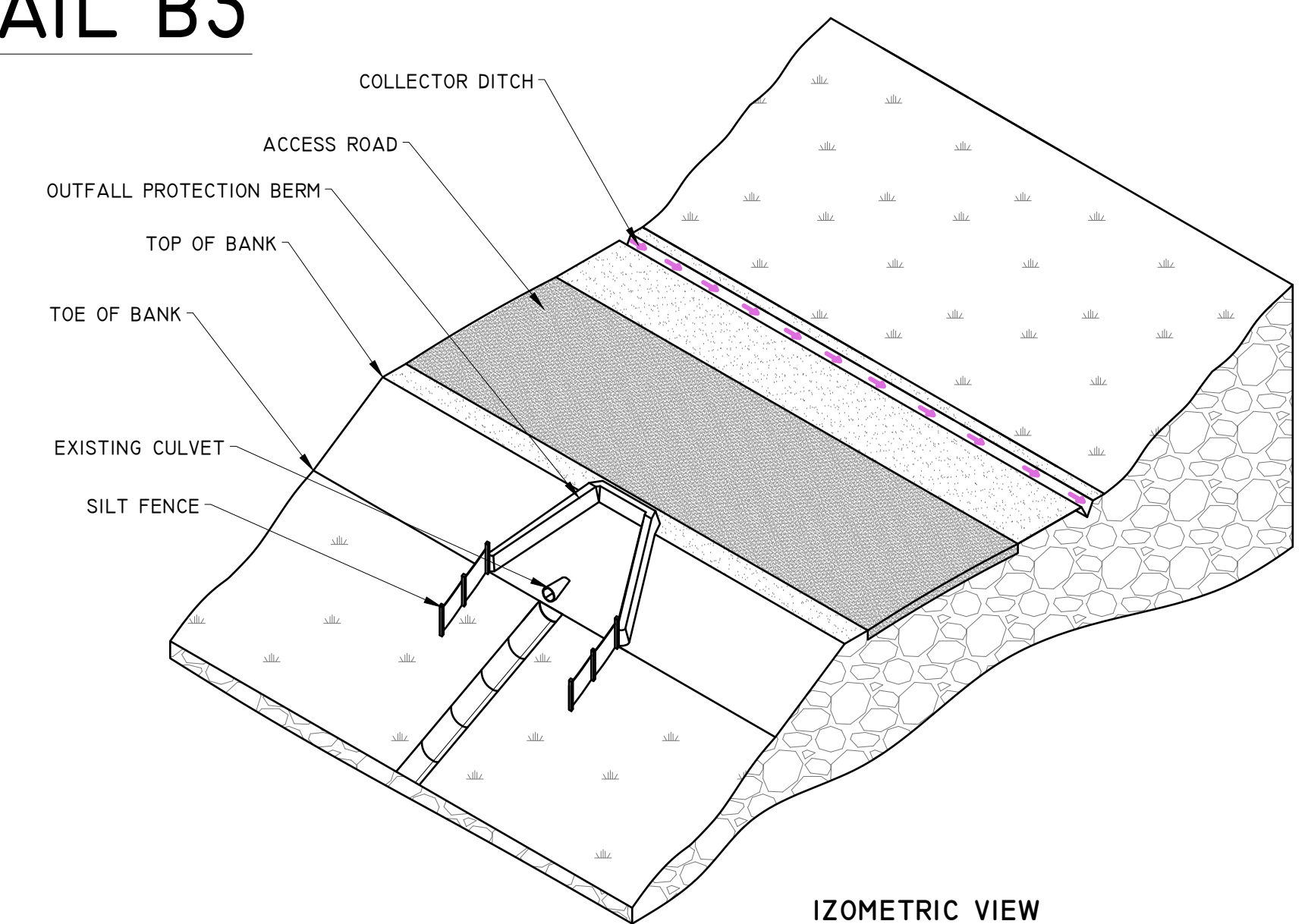
SEDIMENT FENCE/CHECK DAM DETAIL

POND SIZE W [m] x L [m] x D [m]			TRACK/HARDEST CATCHMENT SIZE (M ²)		
RETURN PERIOD	10 YRS	STORM DURATION	500	1000	2000
6HR RETENTION FOR COARSE SILT	6 HRS	2.6 x 8 x 1 m	3.7 x 11.2 x 1 m	5.2 x 15.8 x 1 m	
11HR RETENTION FOR MEDIUM SILT	12 HRS	3.8 x 12.2 x 1 m	5.5 x 16.9 x 1 m	7.8 x 23.8 x 1 m	
24HR RETENTION FOR FINE SILT	24 HRS	6.5 x 20.4 x 1 m	9.2 x 28.8 x 1 m	13.2 x 40.2 x 1 m	



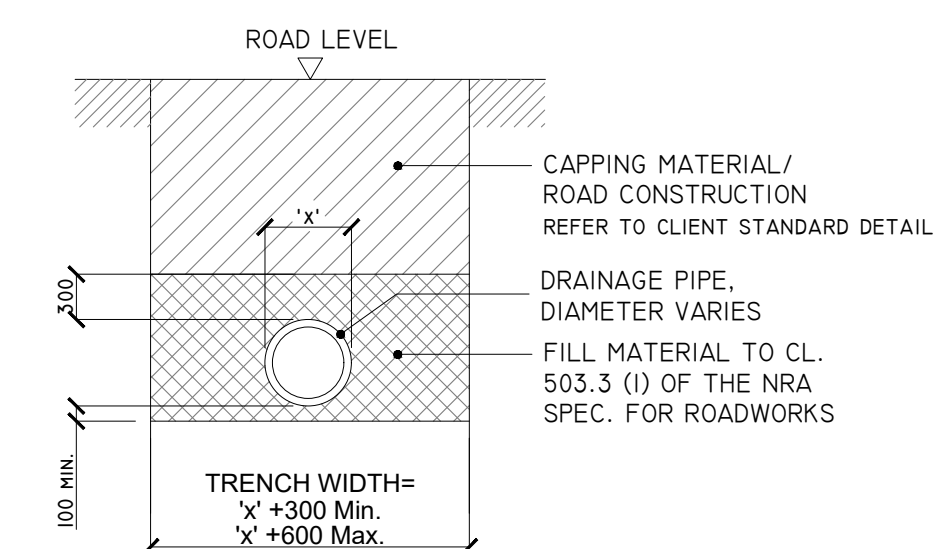
CULVET - OUTFALL PROTECTION DET
SCHEMATIC - NOT TO SCALE

DETAIL B3



IZOMETRIC VIEW

DETAIL B2



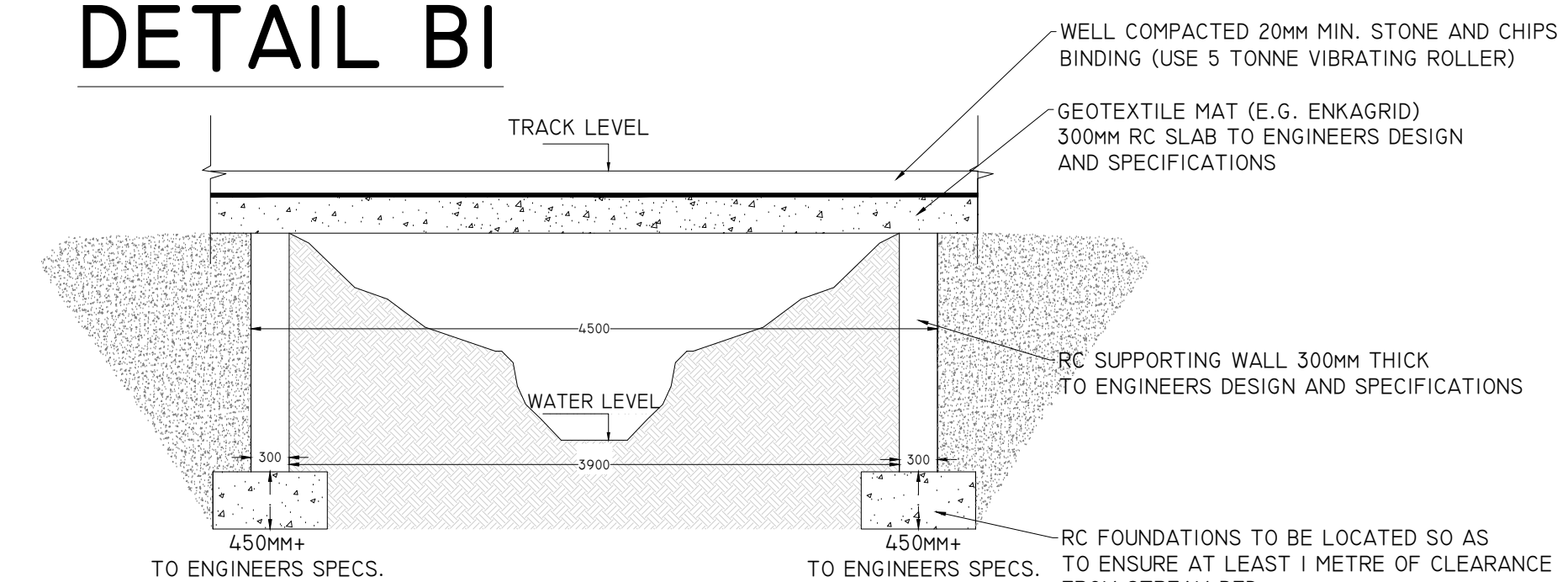
'TYPE B' CULVERT - DRAINAGE CROSSING
BENEATH EXCAVATED ROAD

SCALE 1:50

PROJECT DESIGN DRAWING NOTES

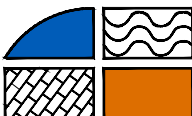
1. DRAWINGS ISSUED ARE FOR PLANNING STATE ONLY.
2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES.
3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING.

DETAIL BI

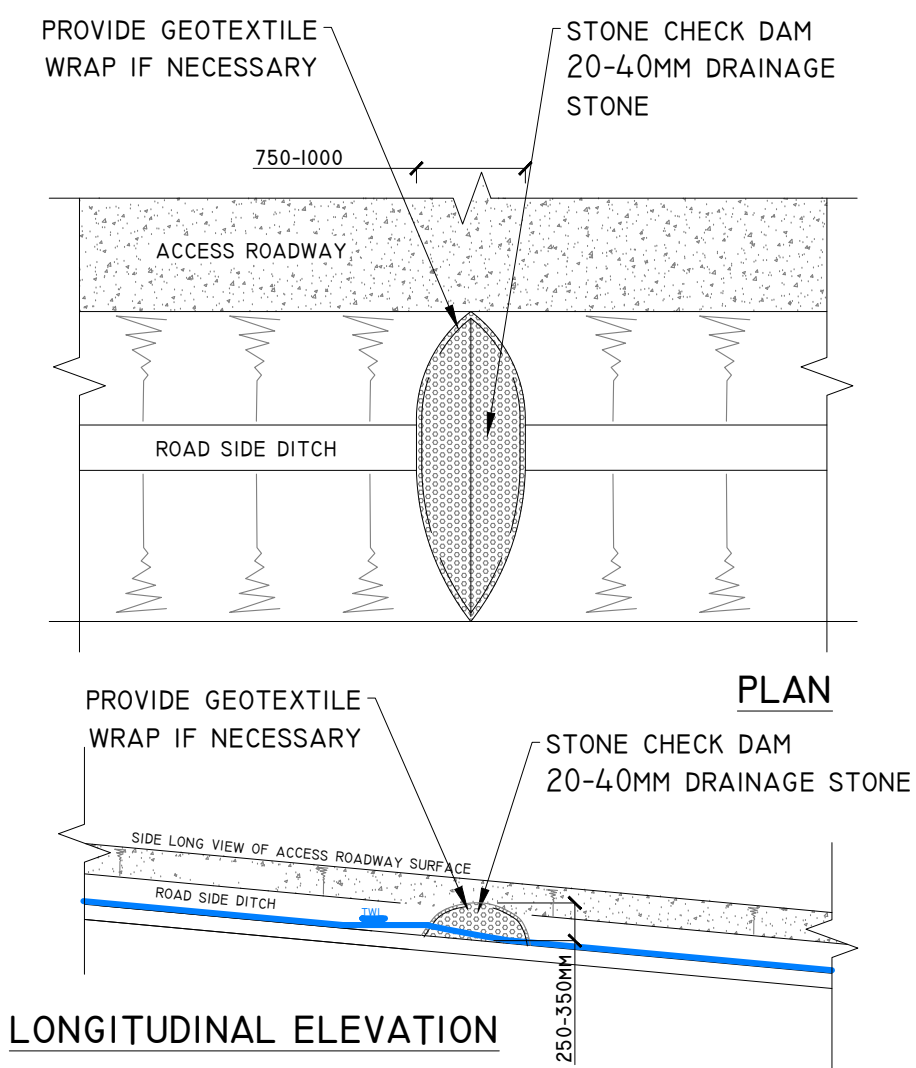


'TYPE A' TYPICAL SECTION OF CLEARSPAN BRIDGE (WHERE APPLICABLE)

SCALE 1:50

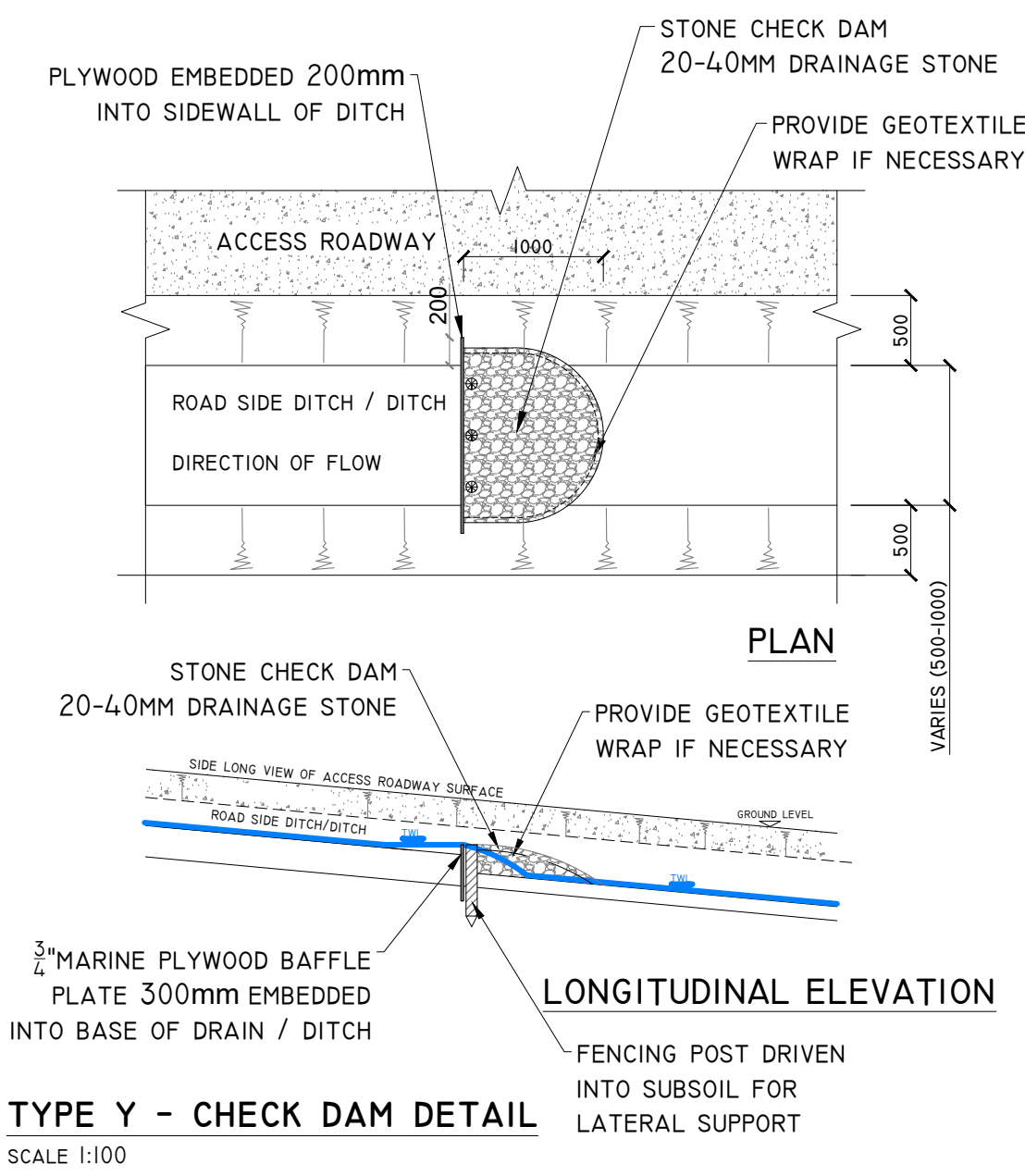
Date	Description		Chkd	Signed
Revisions				
 HYDRO ENVIRONMENTAL SERVICES 22 Lower Main St Dungarvan Co. Waterford Ireland tel: +353 (0) 58-44122 tel: +353 (0) 58-44244 email: info@hydroenvironmental.ie web: www.hydroenvironmental.ie				
Client:				
MKO				
Job:				
COOLOO WIND FARM, CO. GALWAY				
Title:				
DRAINAGE DETAILS I				
Figure No:				
D50I				
Drawing No: P1611-0-0925-A1-D50I-00B				
Sheet Size: A1		Project No.: P1611-0		
Scale: as shown (A1)		Drawn By: GA		
Date: 24/09/2025		Checked By: MG		

DETAIL C

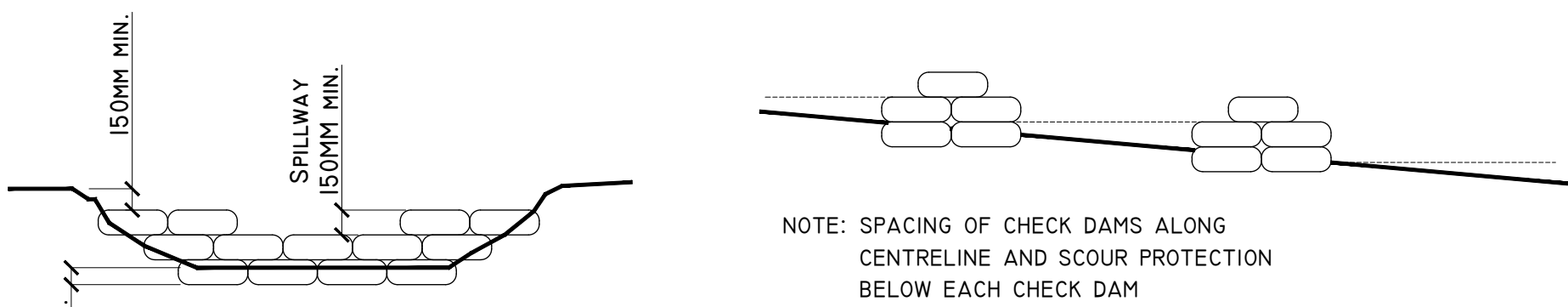


TYPE X - CHECK DAM DETAIL
SCALE 1:50

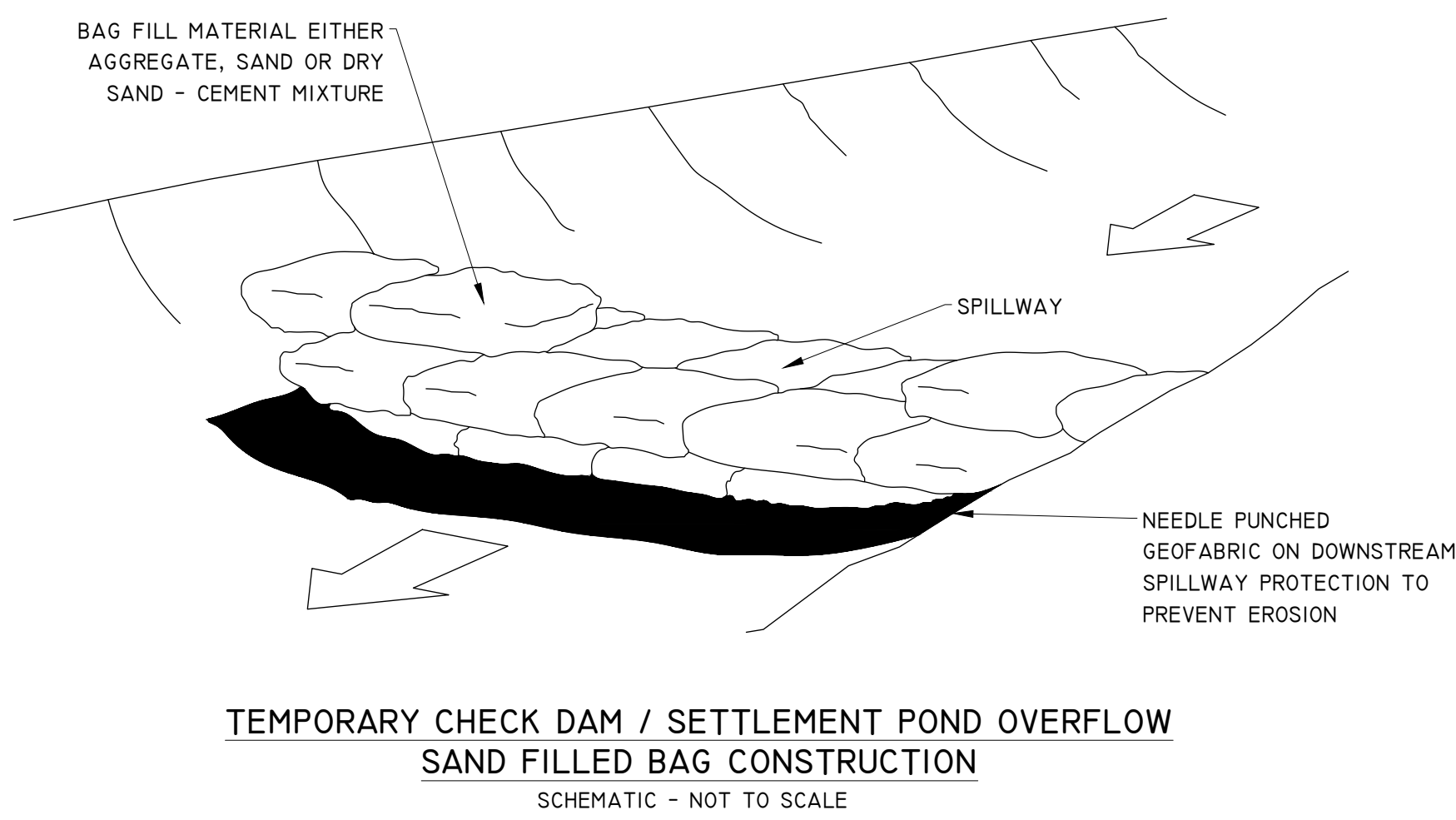
DETAIL D



TYPE Y - CHECK DAM DETAIL
SCALE 1:100

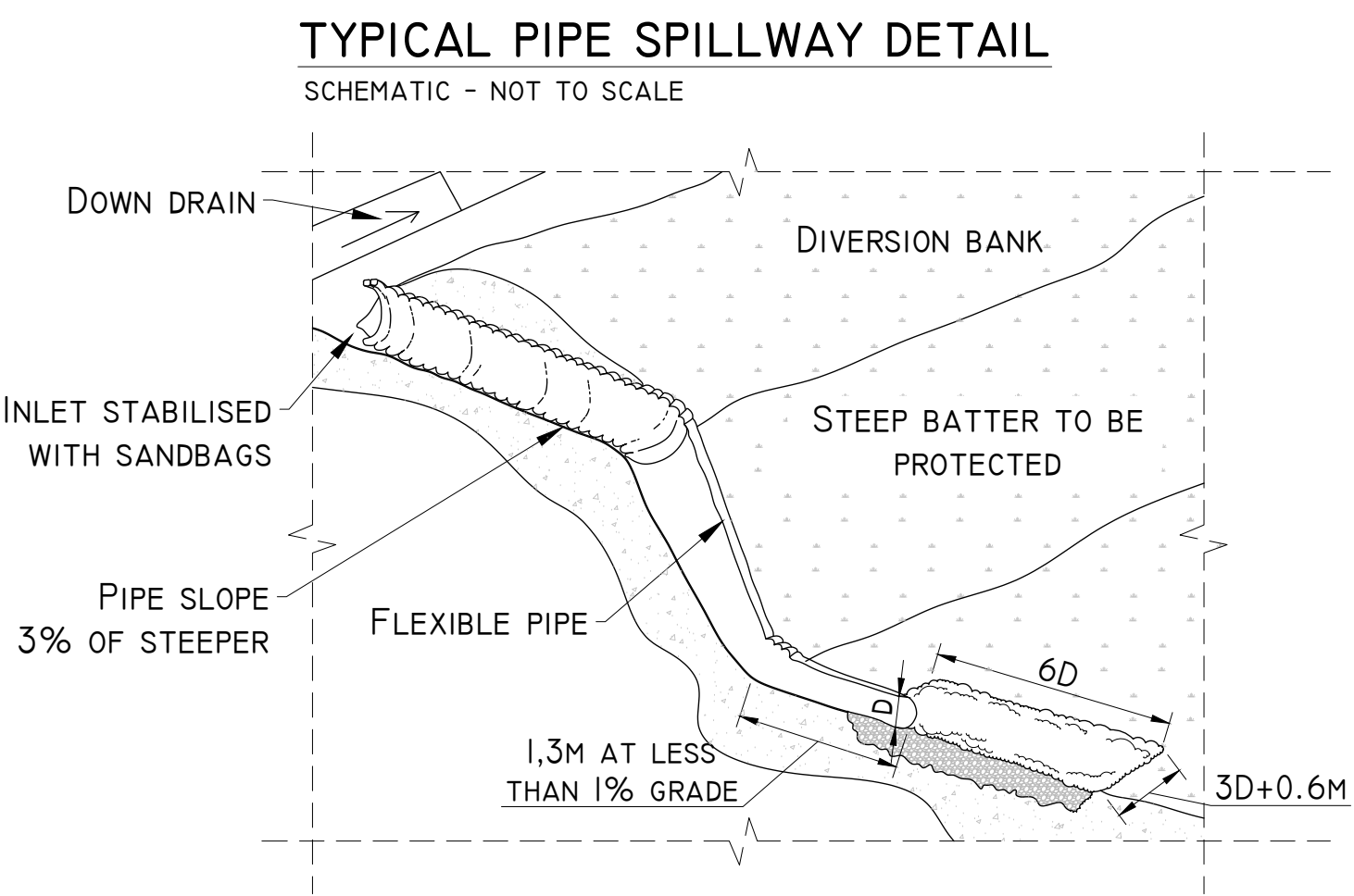


DETAIL CI



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

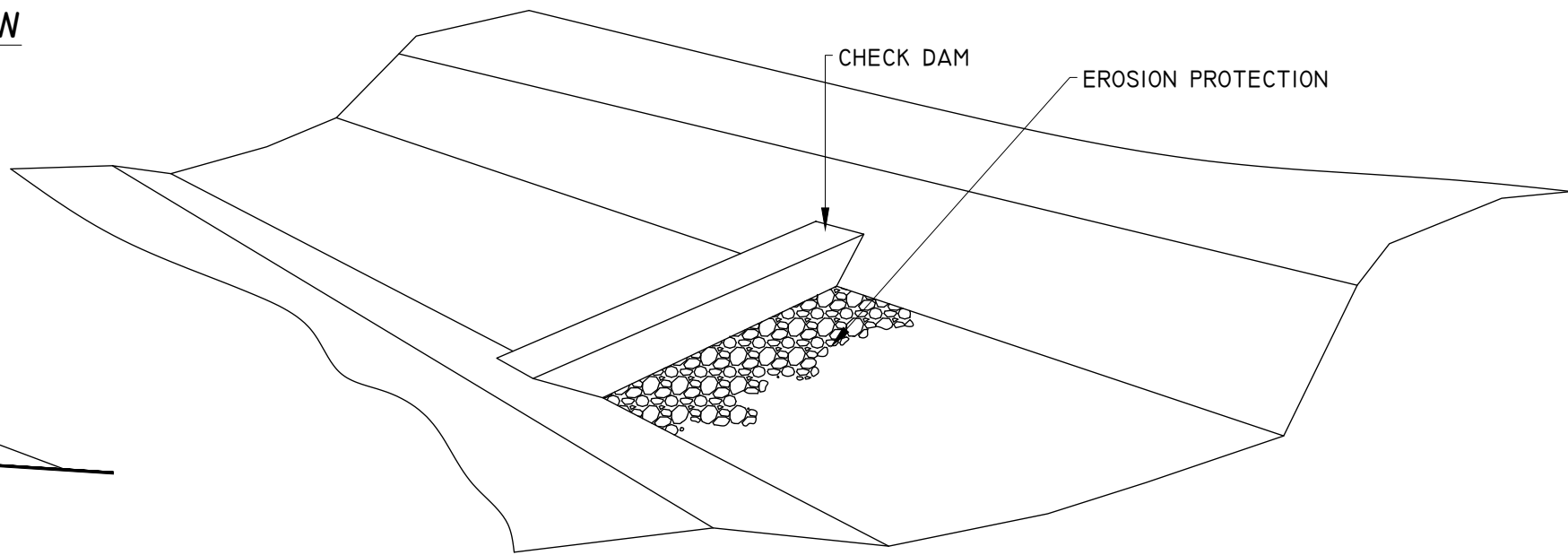
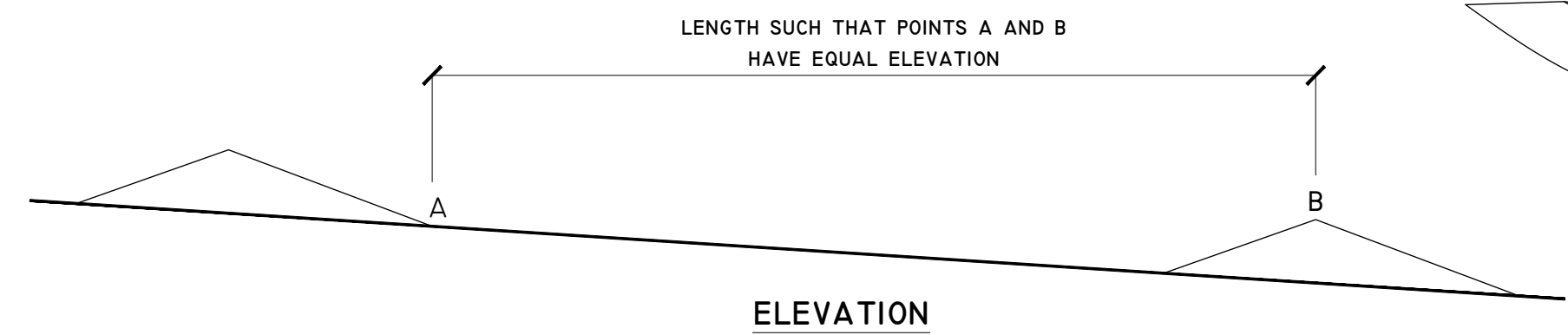
DETAIL E



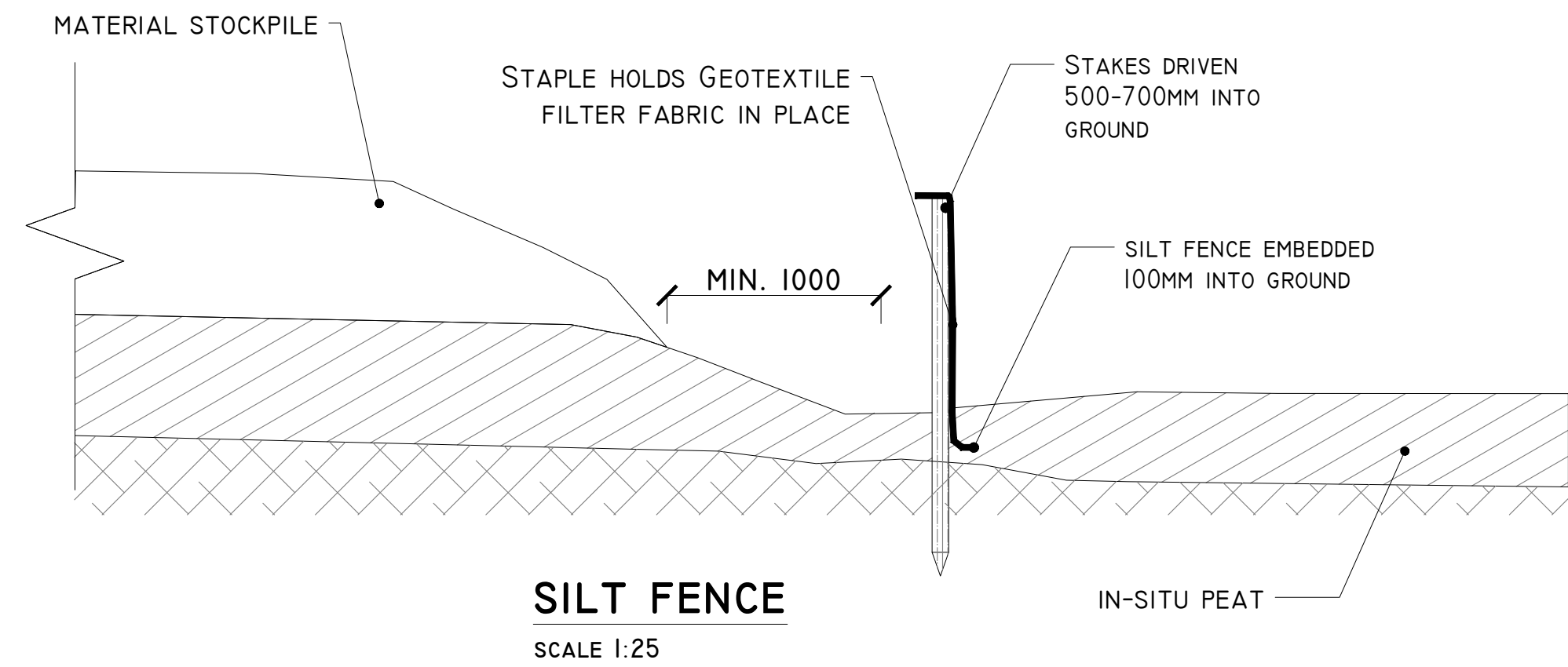
TYPICAL PIPE SPILLWAY DETAIL
SCHEMATIC - NOT TO SCALE

DETAIL C2

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

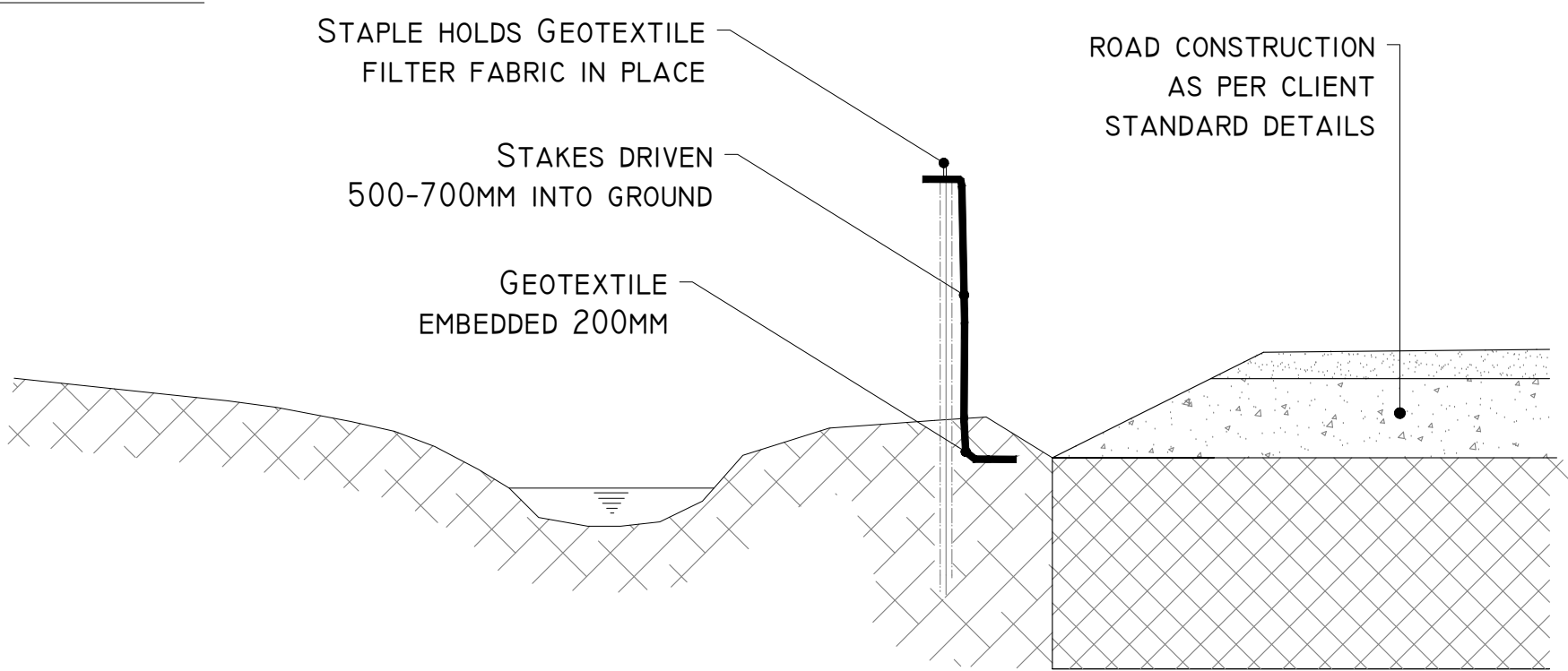


DETAIL F-I



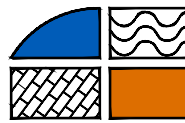
SILT FENCE
SCALE 1:25

DETAIL F-II

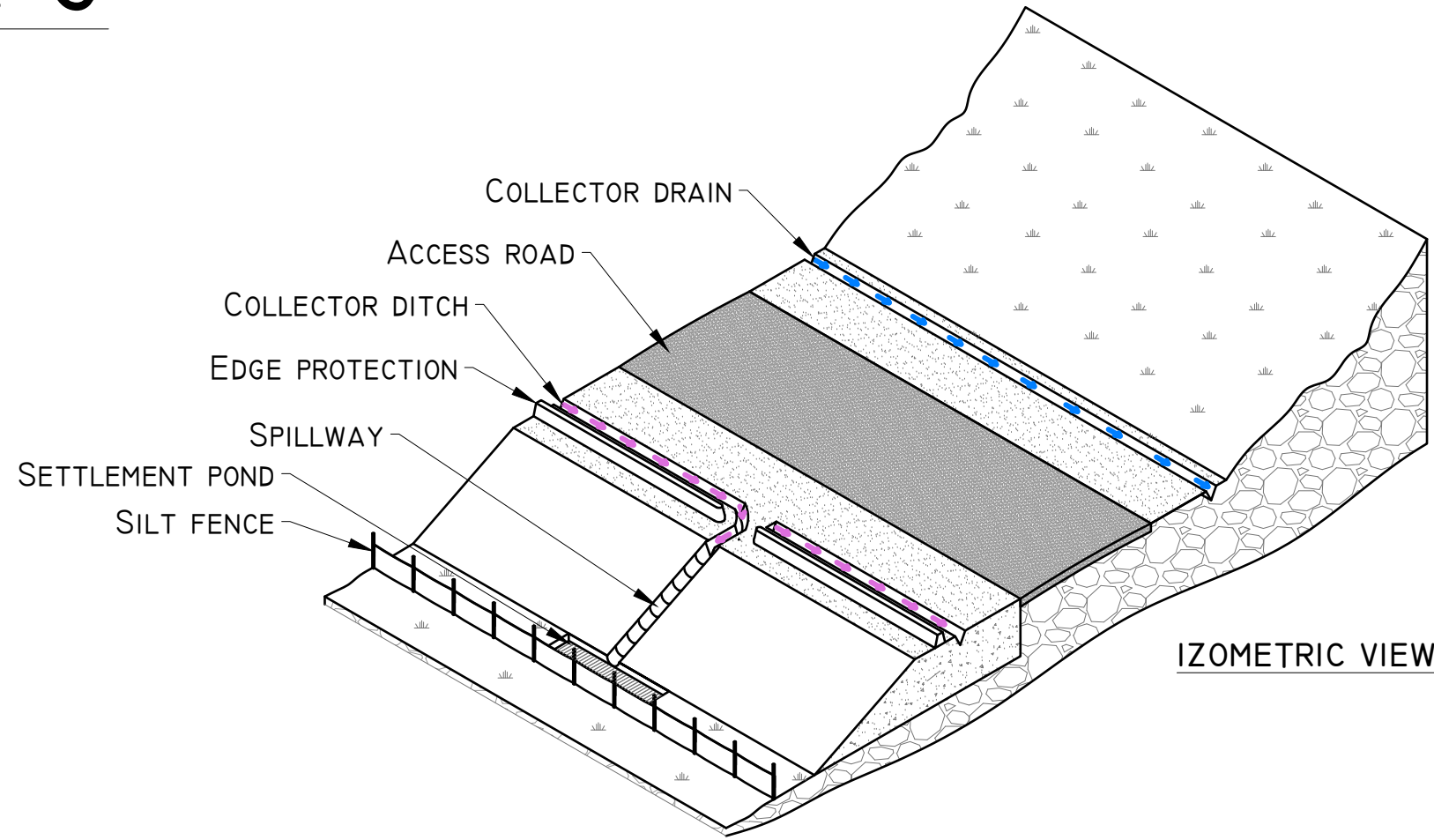
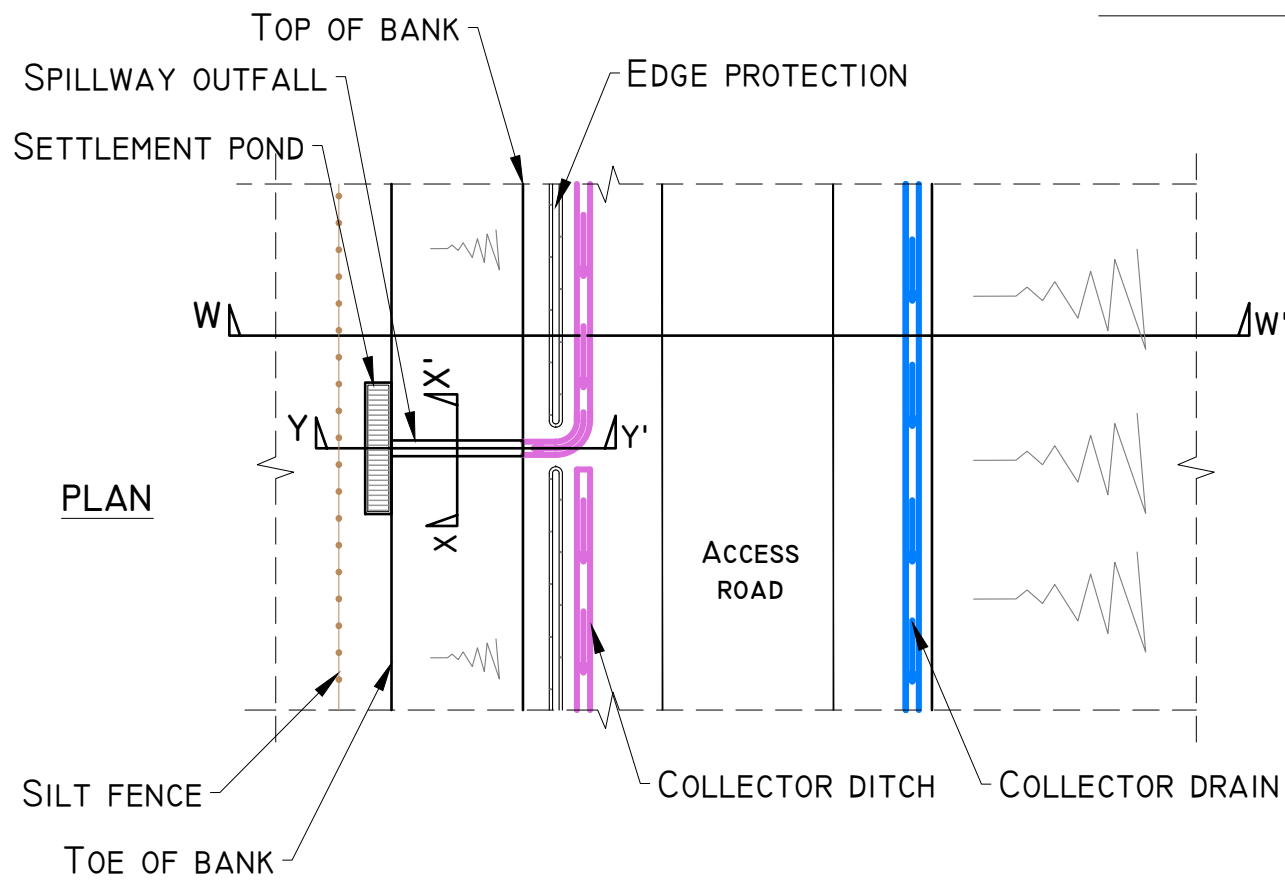


SILT FENCE FOR WATERCOURSE PROTECTION
SCALE 1:25

PROJECT DESIGN DRAWING NOTES
1. DRAWINGS ISSUED ARE FOR PLANNING STAGE ONLY.
2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES.
3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING.

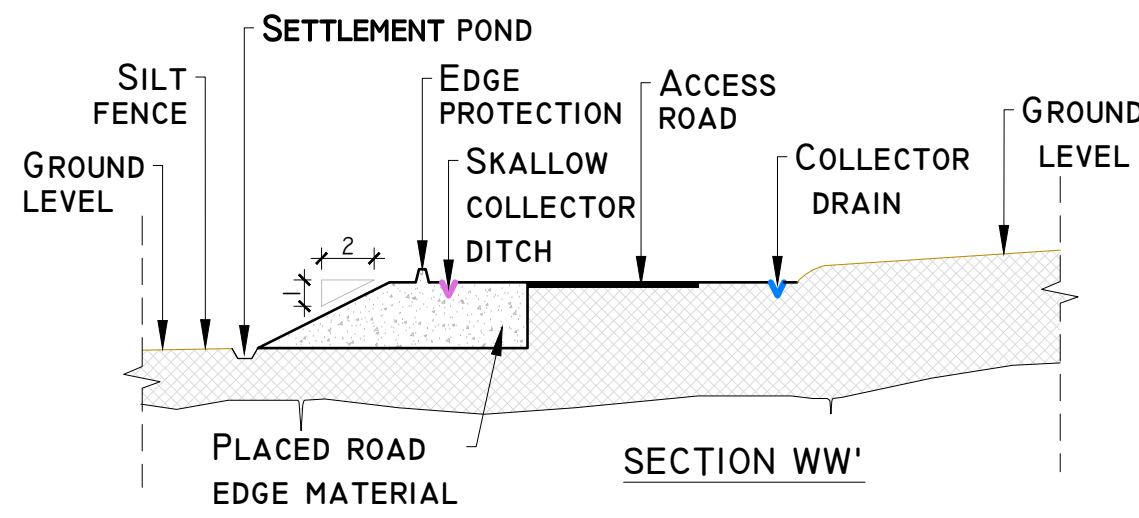
Date	Description	Chkd	Signed
Revisions			
 HYDRO ENVIRONMENTAL SERVICES 22 Lower Main St Dungarvan Co. Waterford Ireland tel: +353 (0) 58-44122 tel: +353 (0) 58-44244 email: info@hydroenvironmental.ie web: www.hydroenvironmental.ie			
Client:		MKO	
Job:		COOLLOO WIND FARM, Co. GALWAY	
Title:		DRAINAGE DETAILS 2	
Figure No:		D502	
Drawing No: P1611-0-0925-A1-D502-00B			
Sheet Size: A1		Project No.: P1611-0	
Scale: as shown (A1)		Drawn By: GA	
Date: 24/09/2025		Checked By: MG	

DETAIL G



SPILLWAY OUTFALL PLAN

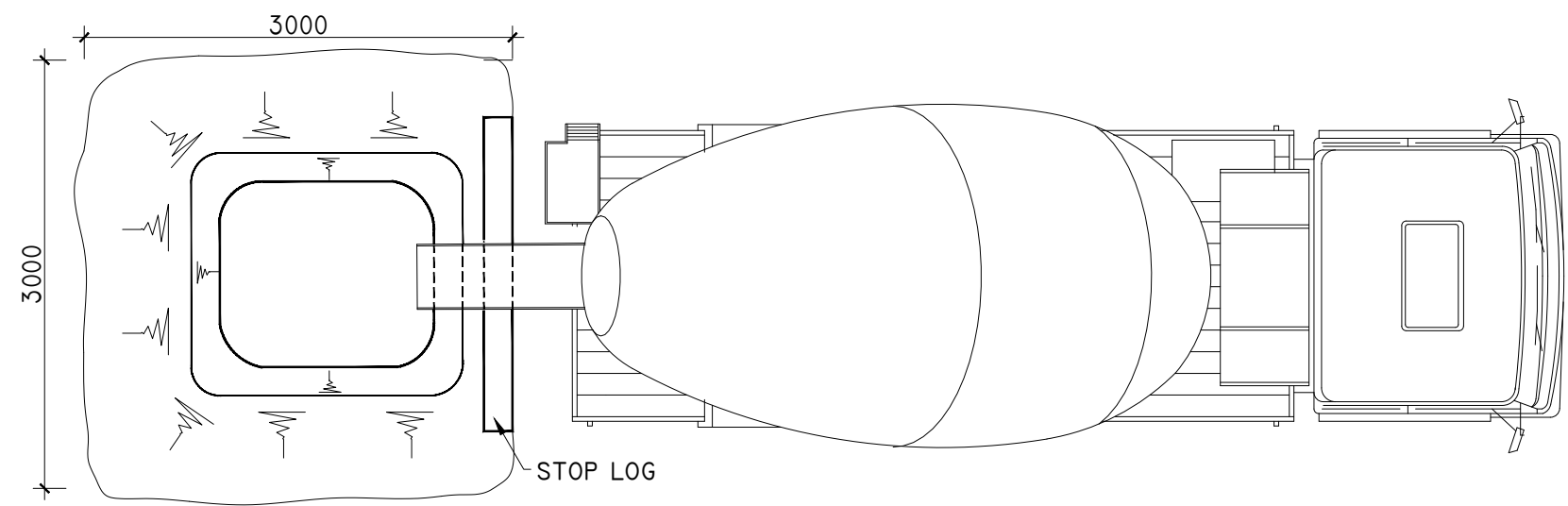
SCHEMATIC - NOT TO SCALE



TEMPORARY CONCRETE WASH OUT PIT

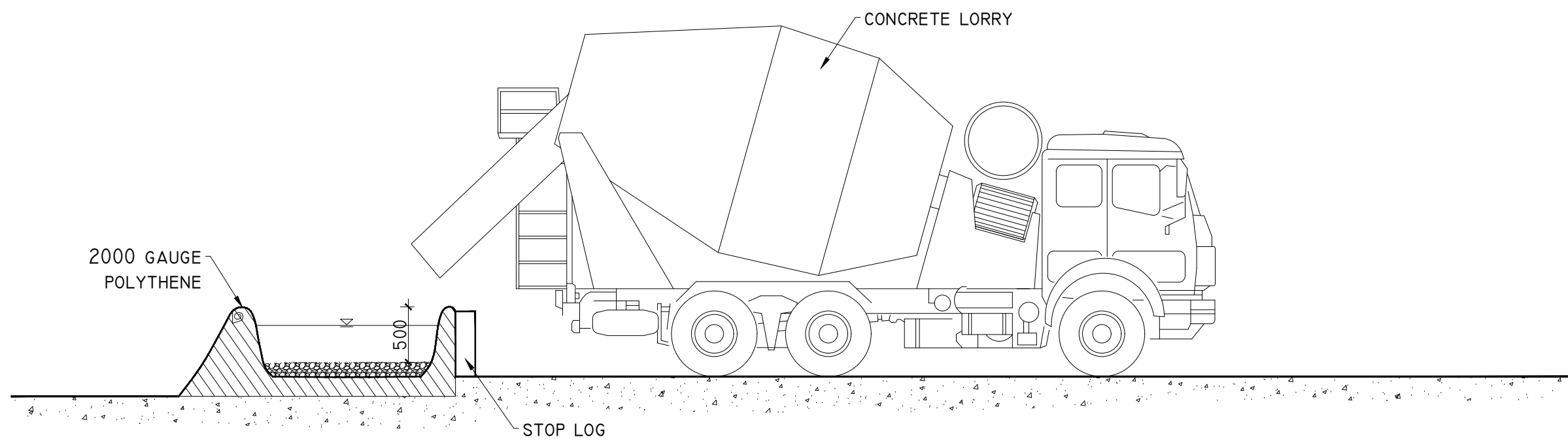
SCALE 1:50

PLAN



ELEVATION

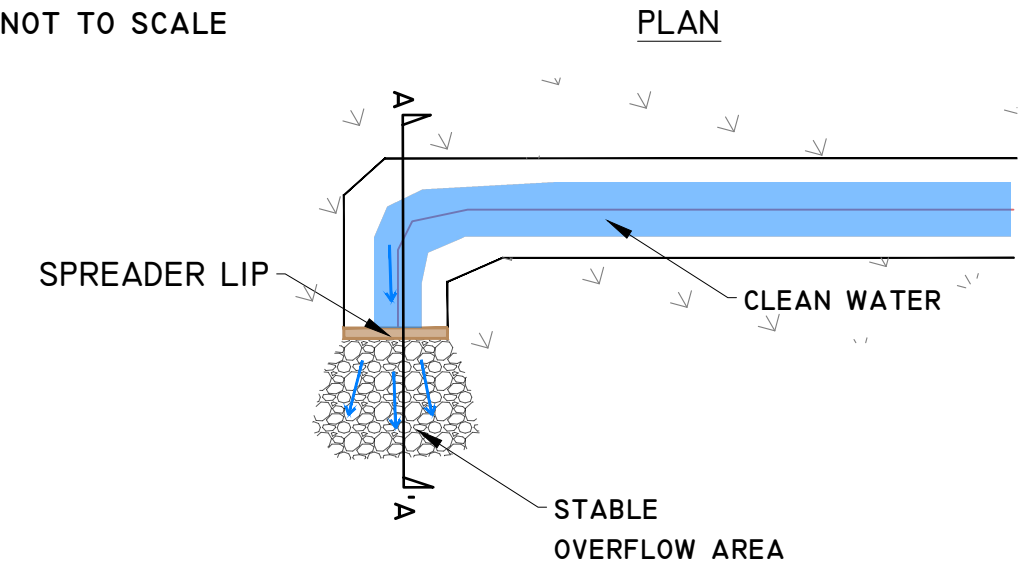
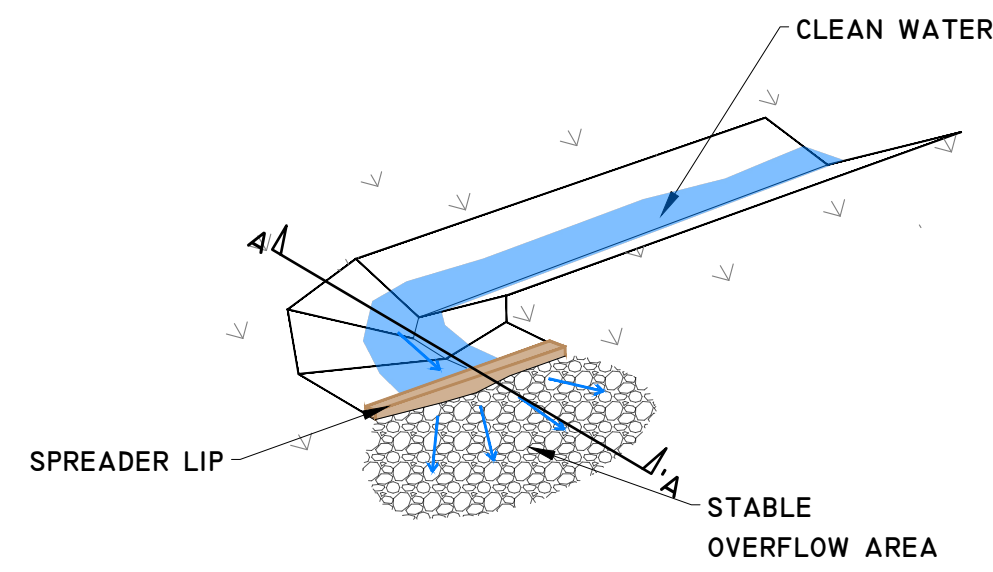
DETAIL H



DETAIL J-1

LEVEL SPREADER DETAIL

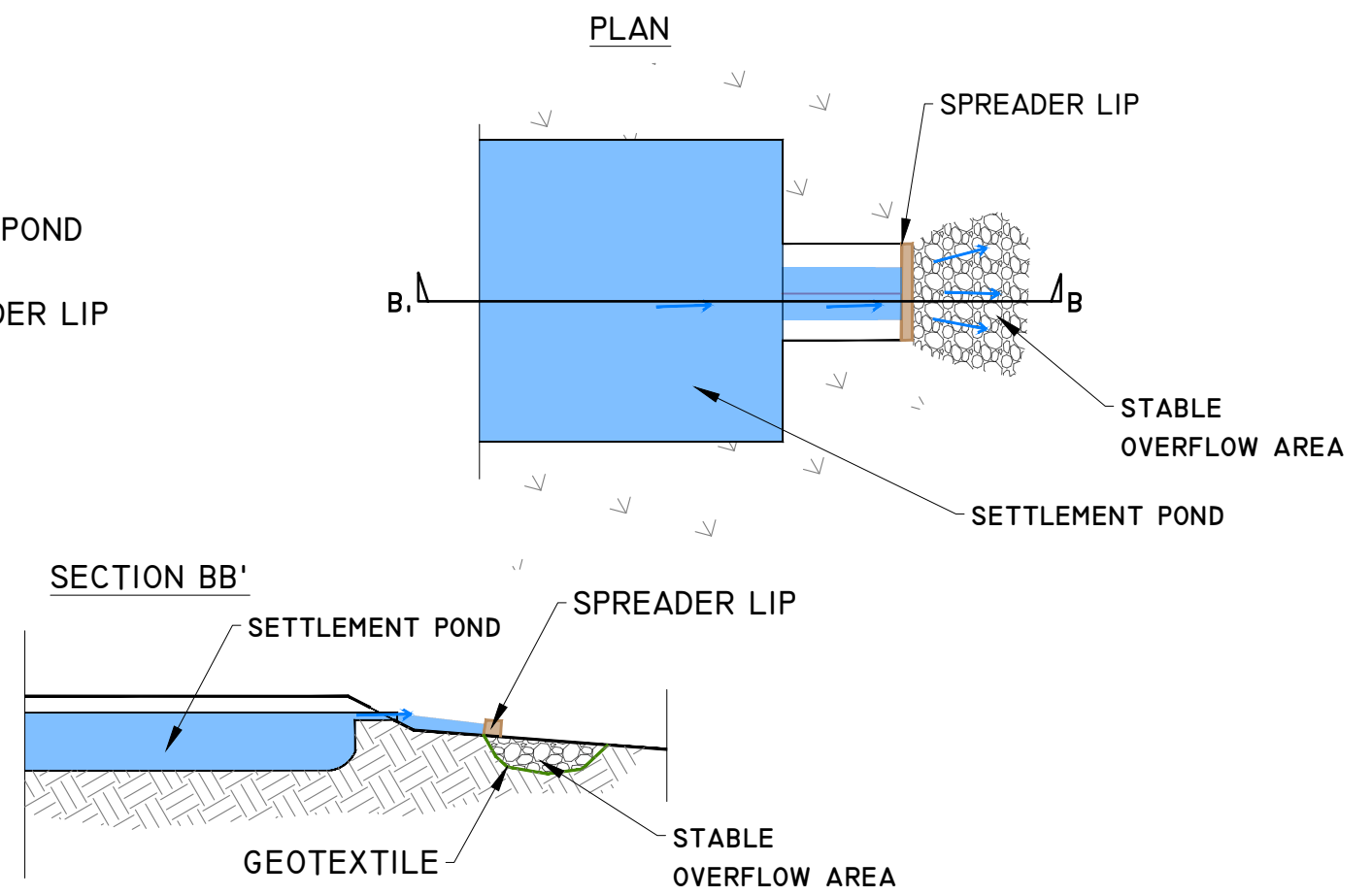
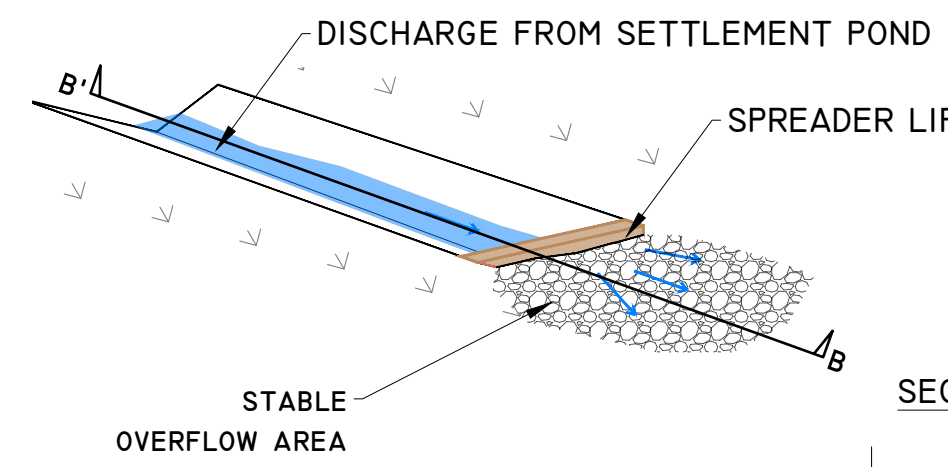
SCHEMATIC - NOT TO SCALE



DETAIL J-2

LEVEL SPREADER DETAIL

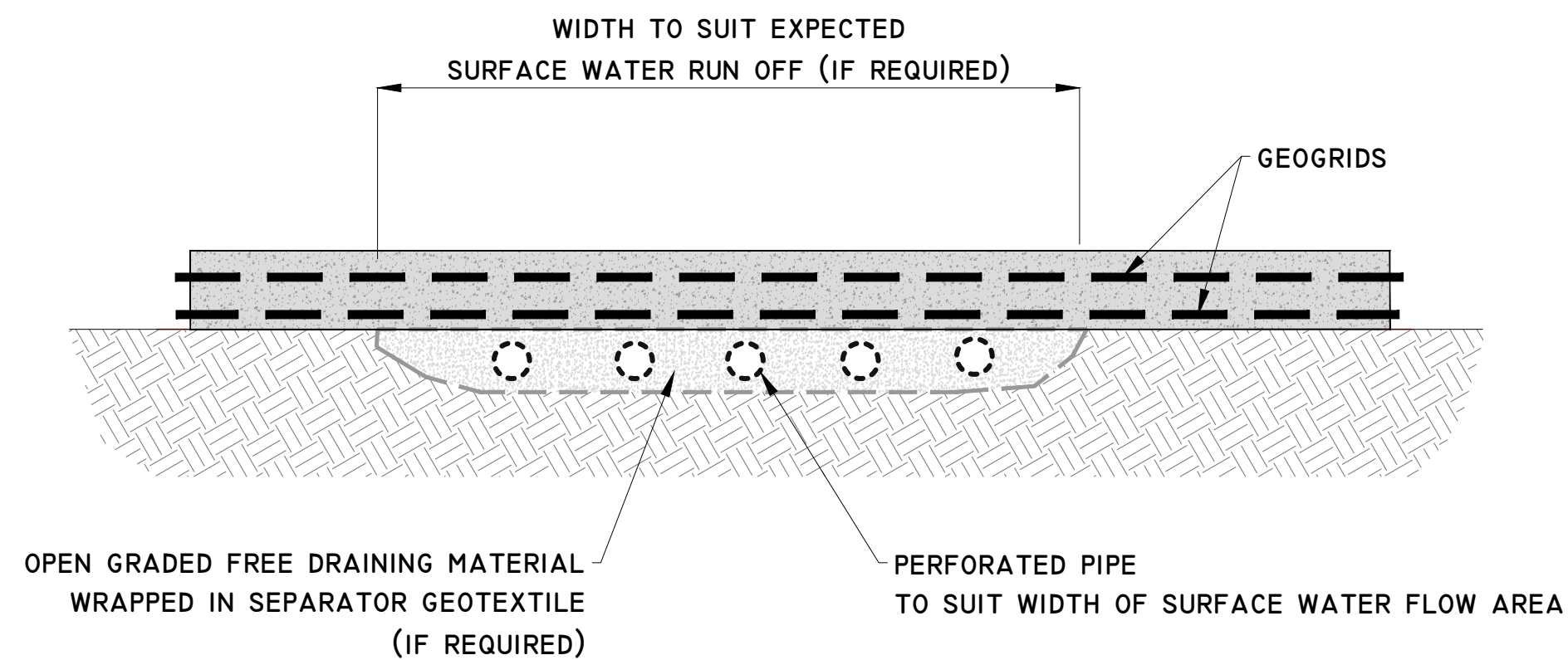
SCHEMATIC - NOT TO SCALE



DETAIL K

UNDER FLOATING ROAD DRAINAGE DETAIL

SCHEMATIC - NOT TO SCALE



PROJECT DESIGN DRAWING NOTES
1. DRAWINGS ISSUED ARE FOR PLANNING STAGE ONLY.
2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES.
3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING.

Date	Description	Chkd	Signed
Revisions			



Client:	MKO
---------	-----

Job:	COOLLOO WIND FARM, Co. GALWAY
------	-------------------------------

Title:	DRAINAGE DETAILS 3
--------	--------------------

Figure No:	D503
------------	------

Drawing No: P1611-0-0925-A1-D503-00B	
Sheet Size: A1	Project No.: P1611-0
Scale: as shown (A1)	Drawn By: GA
Date: 24/09/2025	Checked By: MG

POLLUTION PREVENTION NOTES:

1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
2. SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

DISCHARGES

4. WATER CONTAINING SILT WILL NOT BE DISCHARGED OR PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES WILL BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
5. NO EXCAVATED MATERIAL WILL BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT WILL NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS.
8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.
9. ALL WIND FARM DRAINAGE OUTFALLS TO BE LOCATED OUTSIDE OF 30M POTENTIAL ENCLOSED DEPRESSION BUFFER

EXCAVATIONS

10. WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

EXPOSED GROUND & STOCKPILES

11. THE AMOUNT OF TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.

SITE TRACKS

12. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
13. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

REFUELLING

14. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELLING AREAS ONLY, ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES/WATERBODIES.
15. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

CONCRETE

16. CONCRETE POURS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
17. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT PIT.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

STOP – WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

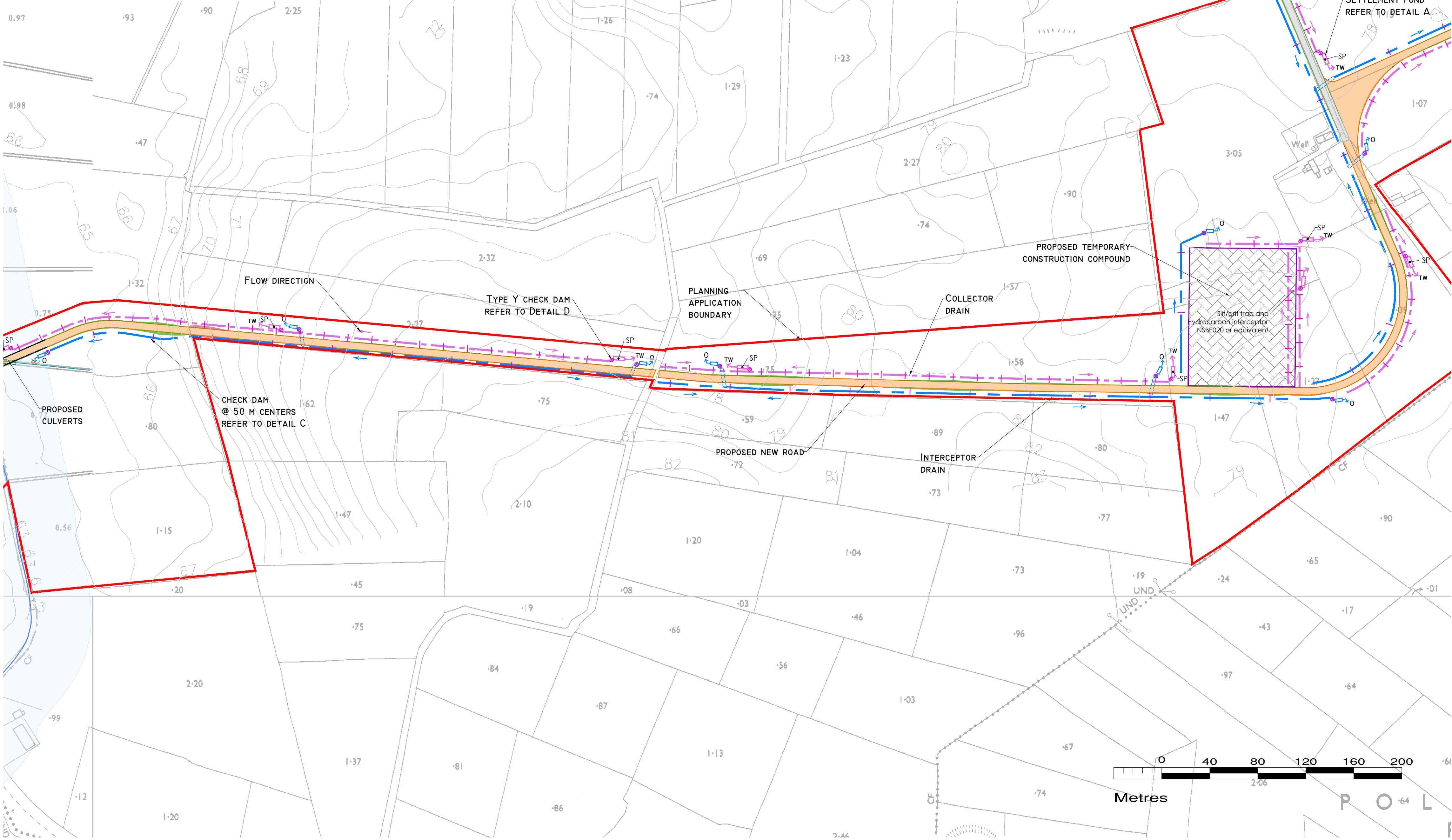
CONTAIN – THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND ANY SOURCE OF POLLUTION.

NOTIFY – THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE RECEPTORS.

DRAINAGE NOTES:

1. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, WILL BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.
3. SUDS DRAINAGE SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
4. SUITABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.
5. INTERCEPTOR SWALES / DITCHES WILL BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE INSTALLED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. OPTIMUM LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO ANY EXISTING WATERCOURSES.
7. A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES. THIS BUFFER WILL NOT BE POSSIBLE AT RIVER/STREAM CROSSINGS, BUT OTHER SUITABLE CONTROLS ARE PROPOSED IN THOSE AREAS (I.E. ADDITIONAL SILT FENCING).
8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1 : 1.5 TO 1 : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.
10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPEND ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.
11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
12. SILT FENCES TO BE PROVIDED ALONG THE EDGE OF EXISTING WATERCOURSES WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN / EPHEMERAL CHANNEL.
13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.
14. AREAS STRIPPED OF VEGETATION WILL BE KEPT TO A MINIMUM.
15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20-40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.
17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.
18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL WILL ONLY BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.
20. TEMPORARY USE OF SILT BAGS WILL BE USED ON SITE WHERE PUMPING FROM EXCAVATIONS IS REQUIRED.

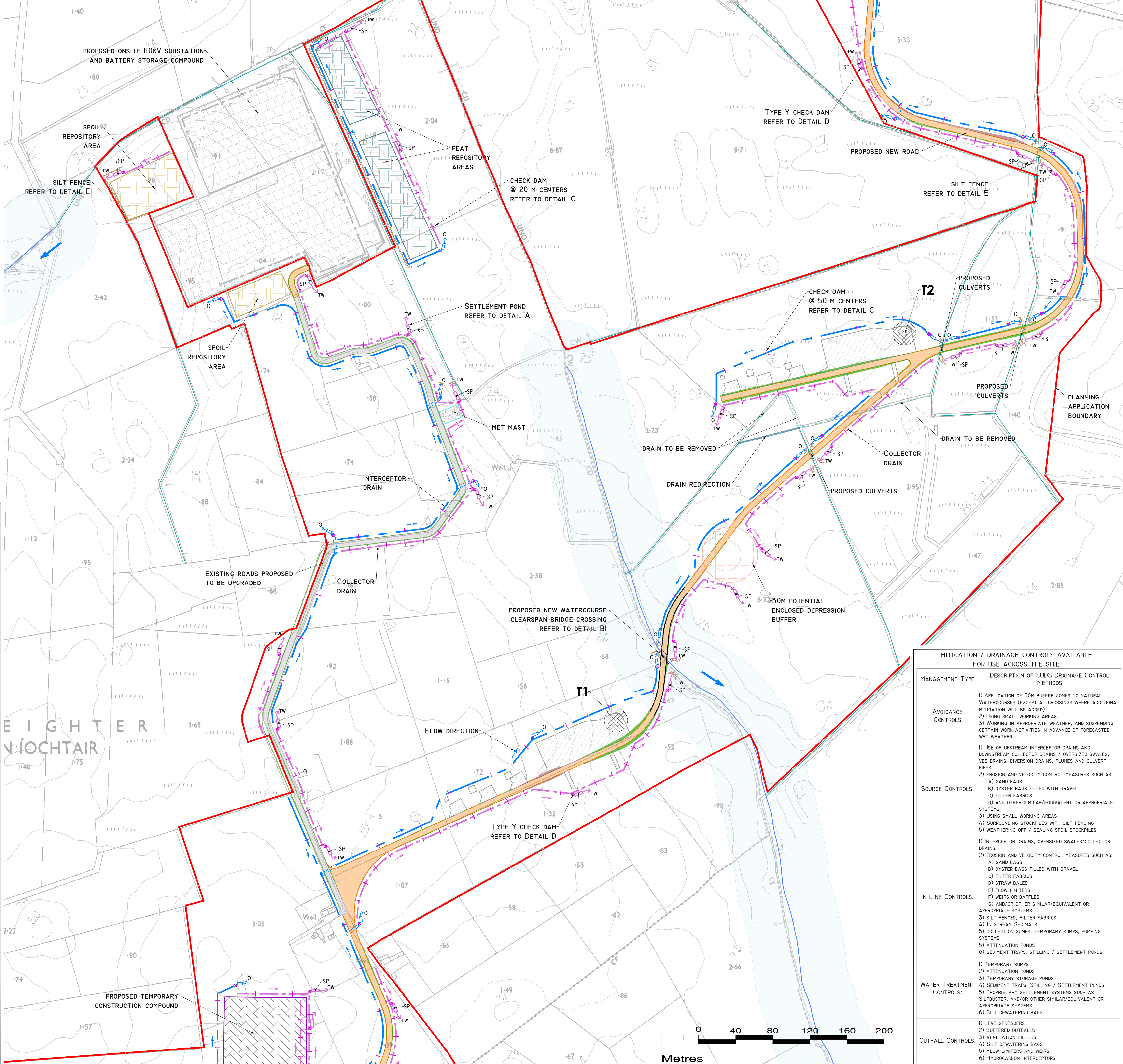
MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE	
MANAGEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
AVOIDANCE CONTROLS	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES (EXCEPT AT CROSSINGS WHERE ADDITIONAL MITIGATION WILL BE ADDED) 2) USING SMALL WORKING AREAS 3) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER
	2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS
SOURCE CONTROLS:	1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING SPOIL, STOCKPILES
	1) INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMENTS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 6) ATTENUATION PONDS 7) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS
IN-LINE CONTROLS:	1) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS
	1) LEVELSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
WATER TREATMENT CONTROLS:	1) LEVELSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
	1) LEVELSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
OUTFALL CONTROLS:	1) LEVELSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
	1) LEVELSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS



POLLUTION PREVENTION NOTES:

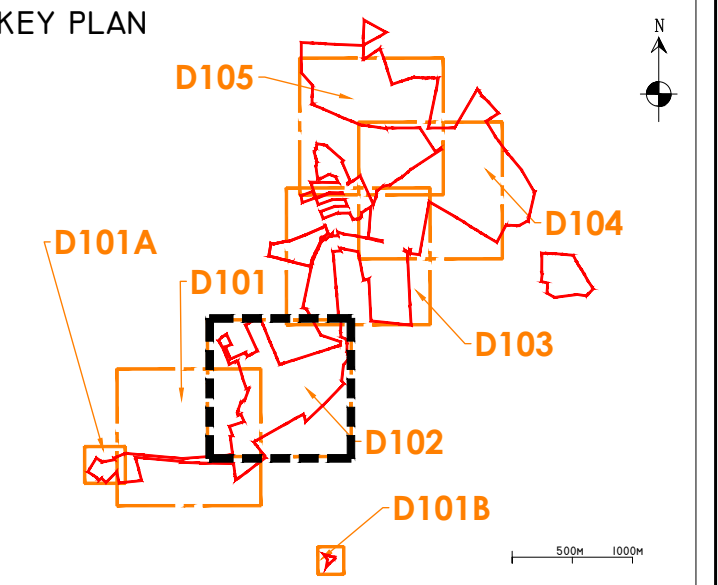
1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
2. SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.
- DISCHARGES
4. WATER CONTAINING SILT WILL NOT BE DISCHARGED OR PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES WILL BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
5. NO EXCAVATED MATERIAL WILL BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT WILL NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS.
8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.
9. ALL WIND FARM DRAINAGE OUTFALLS TO BE LOCATED OUTSIDE OF 30M POTENTIAL ENCLOSED DEPRESSION BUFFER
- EXCAVATIONS
10. WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.
- EXPOSED GROUND & STOCKPILES
11. THE AMOUNT OF TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.
- SITE TRACKS
12. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
13. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.
- REFUELLING
14. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELLING AREAS ONLY, ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES/WATERBODIES.
15. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.
- CONCRETE
16. CONCRETE POURS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
17. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT PIT.
- IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:
- STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.
- CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND ANY SOURCE OF POLLUTION.
- NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE RECEPTORS.

- DRAINAGE NOTES:
1. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, WILL BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.
3. SUDS DRAINAGE SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
4. SUITABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.
5. INTERCEPTOR SWALES / DITCHES WILL BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE INSTALLED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. OPTIMUM LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO ANY EXISTING WATERCOURSES.
7. A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES. THIS BUFFER WILL NOT BE POSSIBLE AT RIVER/STREAM CROSSINGS, BUT OTHER SUITABLE CONTROLS ARE PROPOSED IN THOSE AREAS (I.E. ADDITIONAL SILT FENCING).
8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1 : 1.5 TO 1 : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.
10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPEND ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.
11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
12. SILT FENCES TO BE PROVIDED ALONG THE EDGE OF EXISTING WATERCOURSES WHERE WORKS COMES WITHIN 15M OF EDGE OF ANY DITCH / DRAIN / EPHEMERAL CHANNEL.
13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.
14. AREAS STRIPPED OF VEGETATION WILL BE KEPT TO A MINIMUM.
15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20-40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.
17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.
18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL WILL ONLY BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.
20. TEMPORARY USE OF SILT BAGS WILL BE USED ON SITE WHERE PUMPING FROM EXCAVATIONS IS REQUIRED.



- DRAWING LEGEND :
- WATERCOURSES
 - WATERCOURSE 50M BUFFER
 - DRAINS
 - DRAINS TO BE REMOVED/BLOCKED
 - DRAIN REDIRECTION
 - STREAM FLOW DIRECTION
 - UPSTREAM INTERCEPTOR DRAIN
 - SWALES/DOWNSTREAM COLLECTOR DRAIN
 - DIRECTION OF FLOW
 - SETTLEMENT POND - LEVEL SPREADER
 - UNDER ROAD DRAINAGE (FLOATING ROAD)
 - SILT FENCES
 - DOUBLE/TRIPLE SILT FENCES
 - CHECK DAM 'TYPE A'
 - CHECK DAM 'TYPE B'
 - PROPOSED CULVERT CROSSING
 - PROPOSED WC CROSSING
 - INTERCEPTOR DITCH CULVERT
 - COLLECTOR DITCH CULVERT
 - OVERLAND FLOW DISCHARGE
 - TREATED WATER DISCHARGE
 - SETTLEMENT POND
 - SEMI-NATURAL VEGETATION SWALE / FILTER BED / SECONDARY SP
 - PUMPING SUMP

- PLANNING APPLICATION BOUNDARY
- EXISTING GROUND SURFACE MINOR CONTOUR (1M INTERVAL)
- TURBINE AND TURBINE FOUNDATION
- HARDSTAND
- PROPOSED NEW ROADS
- PROPOSED FLOATING ROADS
- EXISTING ROADS PROPOSED TO BE UPGRADED
- PROPOSED 110KV ONSITE SUBSTATION AND BATTERY STORAGE COMPOUND
- TEMPORARY CONSTRUCTION COMPOUND
- SPOIL REPOSITORY AREAS
- PEAT REPOSITORY AREAS
- MET MAST
- CUT AREA
- FILL AREA
- 30M POTENTIAL ENCLOSED DEPRESSION BUFFER



- DRAWING NOTES
1. DRAWINGS ISSUED ARE FOR PLANNING APPLICATION PURPOSES ONLY.
2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES.
3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING.
4. ALL DIMENSIONS ARE IN METRES.

MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE	
MANAGEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
AVOIDANCE CONTROLS	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES (EXCEPT AT CROSSINGS WHERE ADDITIONAL MITIGATION WILL BE ADDED)
	2) USING SMALL WORKING AREAS
SOURCE CONTROLS:	1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES
	2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS
IN-LINE CONTROLS:	1) INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS
	2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.
WATER TREATMENT CONTROLS:	3) SILT FENCES, FILTER FABRICS
	4) IN-STREAM SEDIMENTS
OUTFALL CONTROLS:	5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS
	6) ATTENUATION PONDS
	7) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS
	8) TEMPORARY SUMPS
	9) ATTENUATION PONDS
	10) TEMPORARY STORAGE PONDS
	11) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS
	12) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.
	13) SILT DEWATERING BAGS
	14) LEVELSPREADERS
	15) BUFFERED OUTFALLS
	16) VEGETATION FILTERS
	17) SILT DEWATERING BAGS
	18) FLOW LIMITERS AND WEIRS
	19) HYDROCARBON INTERCEPTORS
	20) HYDROCARBON INTERCEPTORS

Ordnance Survey Ireland Licence No. EN 0044725 © Ordnance Survey Ireland/Government of Ireland	
Date	Description
Revisions	Chkd Signed
 22 Lower Main St Dungarvan Co. Waterford Ireland tel: +353 (0) 58-44122 tel: +353 (0) 58-44244 email: info@hydroenvironmental.ie web: www.hydroenvironmental.ie	
Client:	MKO
Job:	COOLSOO WIND FARM, CO. GALWAY
Title:	PROPOSED DRAINAGE LAYOUT
Figure No:	D102
Drawing No:	P1611-0-0925-A1-D102-00B
Sheet Size: A1	Project No.: P1611-0
Scale: 1:2,000 (A1)	Drawn By: GA
Date: 24/09/2025	Checked By: MG

1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
2. SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

4. WATER CATCHMENT SILL WILL NOT BE DISCHARGED OR PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES WILL BE MADE OVER OPEN GRADES OR EXISTING DRAINAGE STRUCTURES WITH A MINIMUM OF 20' FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
5. NO EXCAVATED MATERIAL WILL BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT WILL NOT CAUSE EROSION OR EXPOSED SOILS TO BE SUBJECT TO EROSION. THIS INCLUDES BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS.
8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.
9. ALL FARM ROADWAY OUTFALLS WILL BE LOCATED OUTSIDE OF 30' POTENTIAL ENCLOSED DEPRESSION BUFFER.

10. WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

II. THE AMOUNT OF TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.

12. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
13. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

14. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES/WATERBODIES.
15. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

16. CONCRETE POURS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
17. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT PIT.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND ANY SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE RECEPTORS.

1. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (IE, BY OTHERS).

2. SILT FENCES, STRAW BALES OR SIMILAR, WILL BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILT TRUSTER MAY BE USED TO REMOVE EXCESSIVE SILT FROM RUNOFF AREAS.

3. SLODS DRAINAGE SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES / SILT FENCING/ OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS TO BE USED TO PREVENT EXCESSIVE SILT IN INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE AVOIDABLE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE RELEASE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

5. INTERCEPTOR SWALES / DITCHES WILL BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DRAINS TO BE PROVIDED AT REGULAR INTERVALS. ALL EXCESS SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.

6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. OPTIMUM DRAINAGE SIZES TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO ANY EXISTING WATERCOURSES.

7. A BUFFER ZONE OF $\geq 20M$ TO ANY EXISTING WATERCOURSE WILL BE MAINTAINED. THE BUFFER ZONE WILL BE BOUND BY STRAW BALES / SILT FENCES / DITCHES. THIS BUFFER WILL NOT BE POSSIBLE AT RIVER/STREAM CROSSINGS, BUT OTHER SUITABLE CONTROLS ARE PROPOSED IN THESE AREAS (IE. ADDITIONAL SILT FENCING).

8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1:1 TO 2:1 DEPENDING UPON DEPTH. SWALE/DITCH AND BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE PROVIDED TO PREVENT SCOURING. THE PROPOSED SLOPE CONTROL SYSTEMS, SILT CONTAINMENT, THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.

10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASINS AND HARD STAND AREAS. POND SIZES DEPEND ON THE CATCHMENT AREA, FLOW RATES, AND POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.

11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SLOP / HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED ONCE THE SLOP / HEAPS ARE ESTABLISHED.

12. SILT FENCES TO BE PROVIDED ALONG THE EDGE OF EXISTING WATERCOURSES WHERE WORKS COME WITHIN $\leq 50M$ OF EDGE OF ANY DITCH / DRAIN / EPHEMERAL CHANNEL.

13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED WITH EROSION CONTROL MATS. VEGETATION IS ESTABLISHED.

14. PROPOSED VEGETATION LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.

15. AREAS STRIPPED OF VEGETATION WILL BE KEPT TO A MINIMUM.

16. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY SPORED / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20-40MM CLEAN STONE. ON SLOPING AREAS, CHECK DAMS TO BE 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNWILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

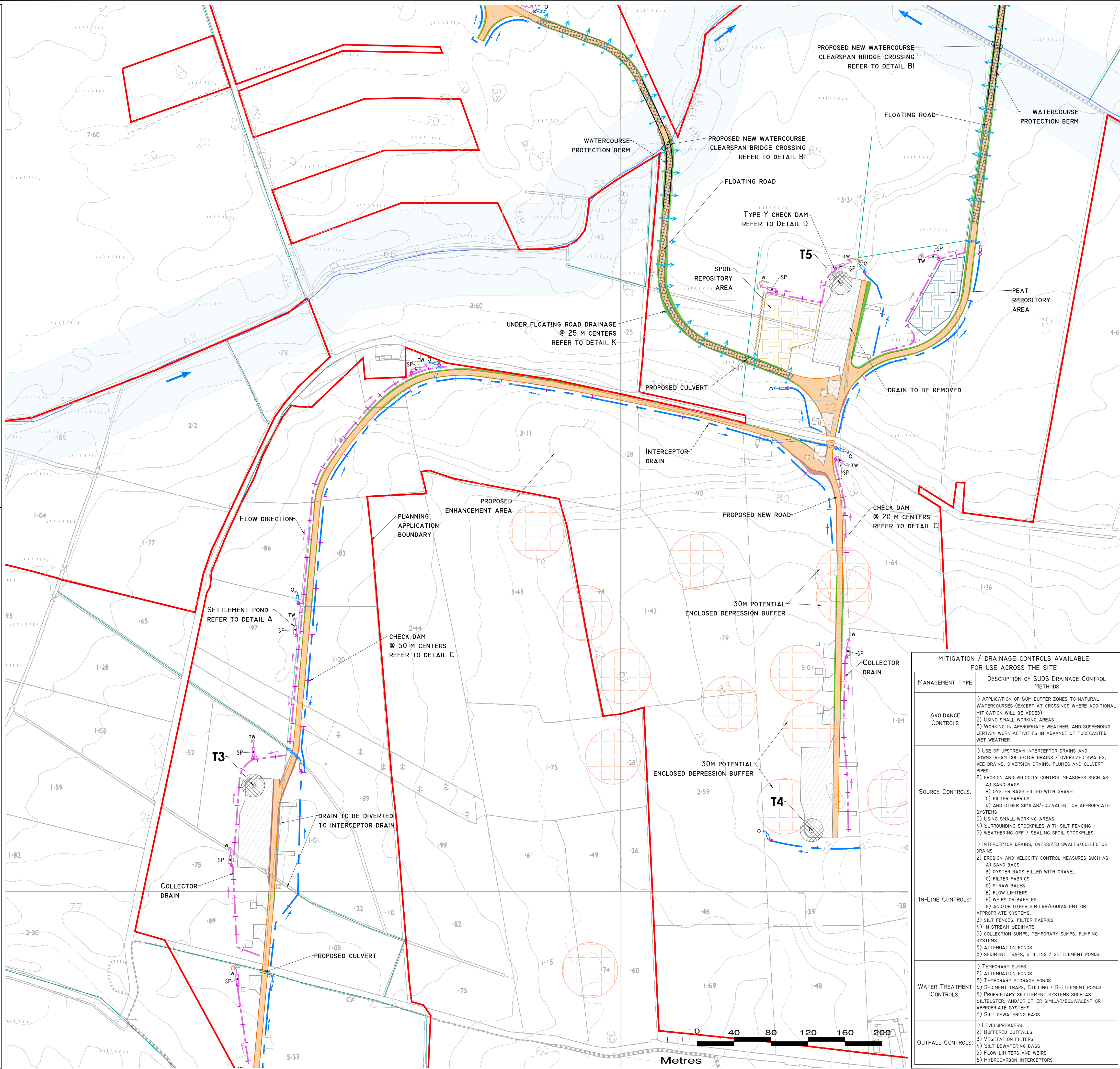
17. BUILD UP SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPERSED TO PREVENT OVERFLOW. CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

18. SILT TRAPS TO BE PROVIDED AT ALL CHECK DAMS TO BE DEPEND UPON LONGITUDINAL GRADIENT OF SWALE.

19. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EXCAVATED AT A LATER DATE WITHOUT DISTURBING THE STONE CHECK DAMS AND HARD STANDS. ONLY EXCESS MATERIALS EXCAVATED FROM THE POND TO BE USED FOR PART OF THE EMBANKMENT AROUND THE POND.

20. OIL FUEL WILL ONLY BE STORED WITHIN BUNDED CONTAINMENT STRUCTURE.

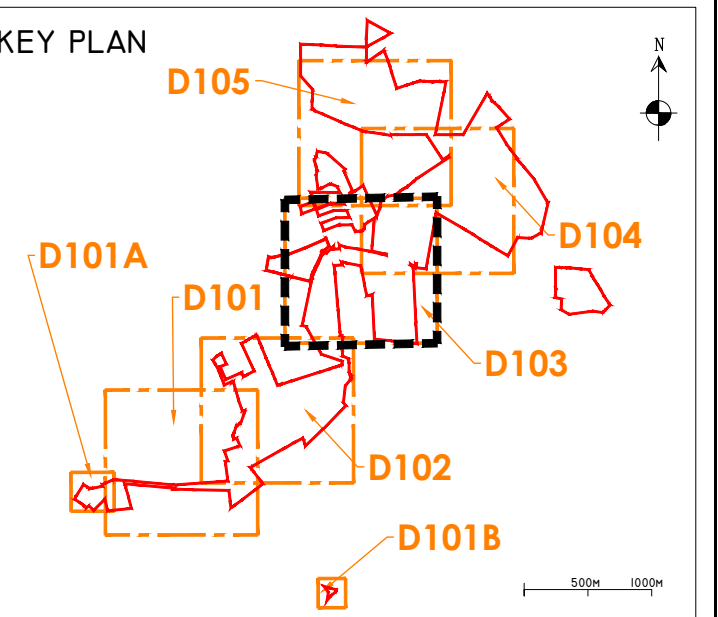
21. TEMPORARY USE OF SILT BAGS WILL BE USED ON SITE WHERE PUMPING FROM EXCAVATIONS IS REQUIRED.



MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE	
MANAGEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
AVOIDANCE CONTROLS	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES (EXCEPT AT CROSSINGS WHERE ADDITIONAL MITIGATION WILL BE ADDED) 2) USING SMALL WORKING AREAS 3) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER
SOURCE CONTROLS:	1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING SPOIL STOCKPILES
IN-LINE CONTROLS:	1) INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMENTS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 6) ATTENUATION PONDS 7) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS
WATER TREATMENT CONTROLS:	1) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS
OUTFALL CONTROLS:	1) LEVELSPREADERS 2) VEGETATED FLOWERS 3) BUFFERED OUTFALLS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS

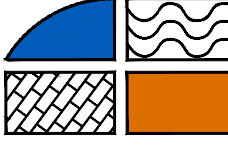
- | DRAWING LEGEND : | | EXISTING DRAINAGE | PROPOSED DRAINAGE |
|---|-------------------------------------|-------------------|-------------------|
| | WATERCOURSES | | |
|  | WATERCOURSE 50M BUFFER | | |
| | DRAINS | | |
|  | DRAINS TO BE REMOVED/BLOCKED | | |
|  | DRAIN REDIRECTION | | |
|  | STREAM FLOW DIRECTION | | |
|  | UPSTREAM INTERCEPTOR | | |
|  | SWALES/DOWNSTREAM COLLECTOR DRAIN | | |
|  | DIRECTION OF FLOW | | |
|  | SETTLEMENT FOND + LEVEL SPREADER | | |
|  | UNDER ROAD DRAINAGE (FLOATING ROAD) | | |
|  | SILT FENCES | | |
|  | DOUBLE/TRIPLE SILT FENCES | | |
|  | CHECK DAM 'TYPE A' | | |
|  | CHECK DAM 'TYPE B' | | |
|  | PROPOSED CULVERT CROSSING | | |
|  | PROPOSED WC CROSSING | | |
|  | INTERCEPTOR DITCH CULVERT | | |
|  | COLLECTOR DITCH CULVERT | | |
| O | OVERLAND FLOW DISCHARGE | | |
| TW | TREATED WATER DISCHARGE | | |
| SP | SETTLEMENT FOND | | |
| VS | SEMI-NATURAL VEGETATION | | |
| | SWALE / FILTER BED / SECONDARY SP | | |
| | PUMPING SUMP | | |

- | | |
|---|--|
|  | PLANNING APPLICATION BOUNDARY |
|  | EXISTING GROUND SURFACE
MINOR CONTOUR (1M INTERVAL) |
|  | TURBINE AND TURBINE FOUNDATION |
|  | HARDSTAND |
|  | PROPOSED NEW ROADS |
|  | PROPOSED FLOATING RAOPS |
|  | EXISTING ROADS PROPOSED TO
BE UPGRADED |
|  | PROPOSED 110KV ONSITE SUBSTATION
AND BATTERY STORAGE COMPOUND |
|  | TEMPORARY CONSTRUCTION
COMPOUND |
|  | SPOIL REPOSITORY AREAS |
|  | PEAT REPOSITORY AREAS |
|  | MET MAST |
|  | CUT AREA |
|  | FILL AREA |
|  | 30m POTENTIAL
ENCLOSED DEPRESSION BUFFER |



DRAWING NOTES

1. DRAWINGS ISSUED ARE FOR PLANNING APPLICATION PURPOSES ONLY.
2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES.
3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING.
4. ALL DIMENSIONS ARE IN METRES.

Ordinance Survey Ireland Licence No. EN 0044725 © Ordnance Survey Ireland/Government of Ireland			
Date	Description	Chkd	Signed
Revisions			
 HYDRO ENVIRONMENTAL SERVICES 22 Lower Main St Dungavan Co. Waterford Ireland tel: +353 (0) 58-44122 tel: +353 (0) 58-44244 email: info@hydroenvironmental.ie web: www.hydroenvironmental.ie			
Client:			
MKO			
Job:			
COOLLOO WIND FARM, Co. GALWAY			
Title:			
PROPOSED DRAINAGE LAYOUT			
Figure No:			
D103			
Drawing No: P1611-0-0925-A1-D103-008			
Sheet Size: A1		Project No.: P1611-0	
Scale: 1:2,000 (A1)		Drawn By: GA	
Date: 24/09/2025		Checked By: MG	

POLLUTION PREVENTION NOTES:

1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
2. SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

DISCHARGES

4. WATER CONTAINING SILT WILL NOT BE DISCHARGED OR PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES WILL BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
5. NO EXCAVATED MATERIAL WILL BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT WILL NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS.
8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.
9. ALL WIND FARM DRAINAGE OUTFALLS TO BE LOCATED OUTSIDE OF 30M POTENTIAL ENCLOSED DEPRESSION BUFFER

EXCAVATIONS

10. WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

EXPOSED GROUND & STOCKPILES

11. THE AMOUNT OF TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.

SITE TRACKS

12. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED ALSO.
13. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

REFUELLING

14. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELLING AREAS ONLY, ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES/WATERBODIES.
15. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

CONCRETE

16. CONCRETE POURS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
17. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT PIT.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

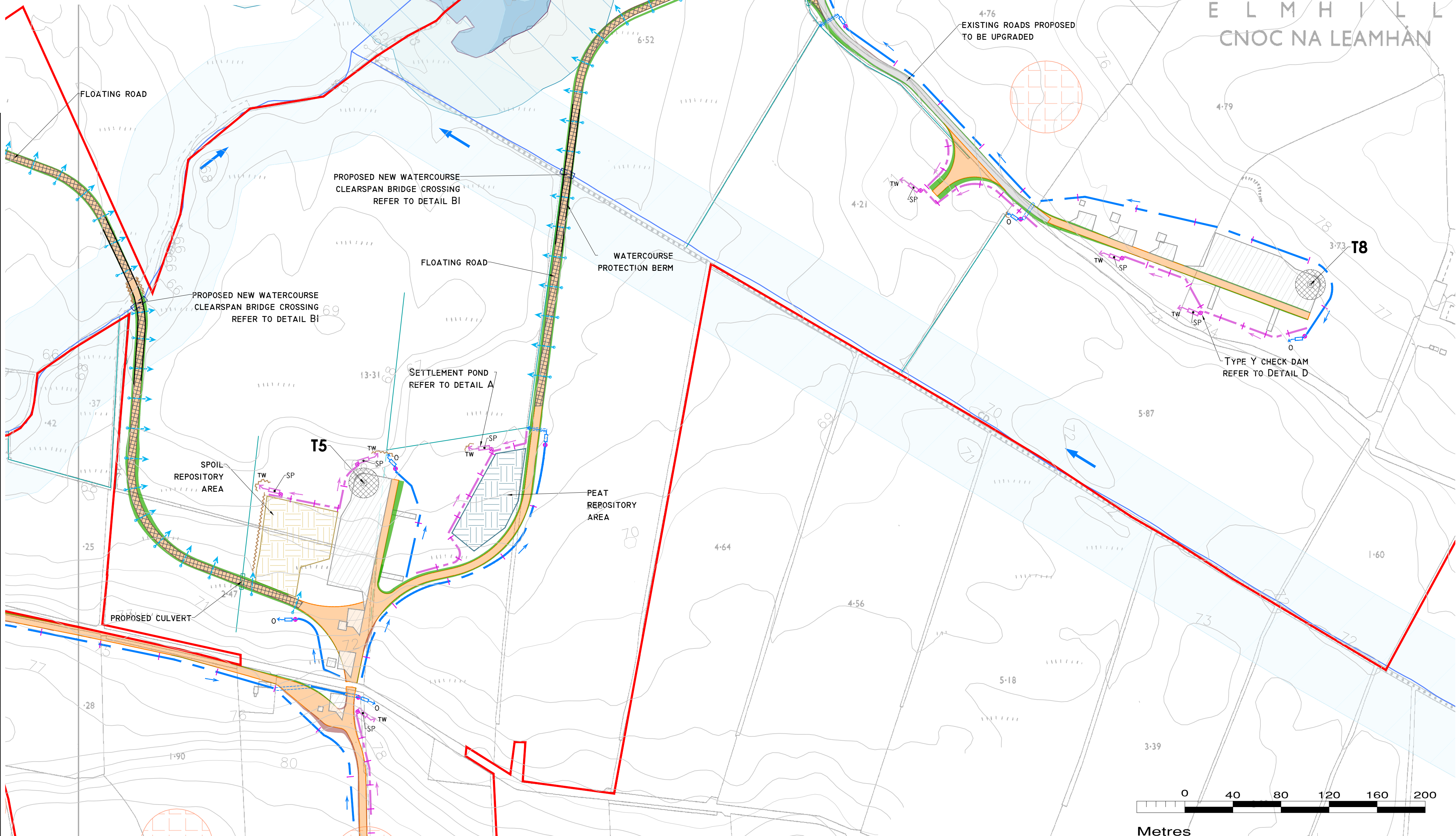
CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND ANY SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE RECEPTORS.

DRAINAGE NOTES:

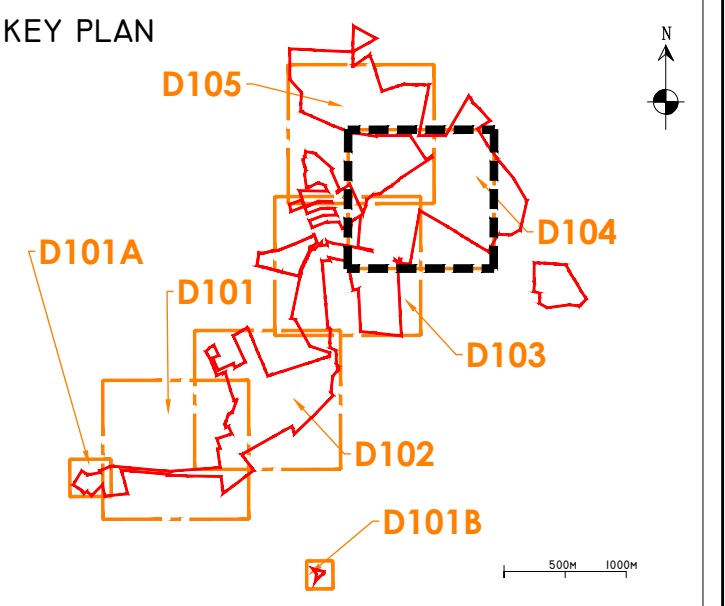
1. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, WILL BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.
3. SUDS DRAINAGE SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
4. SUITABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.
5. INTERCEPTOR SWALES / DITCHES WILL BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE INSTALLED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. OPTIMUM LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO ANY EXISTING WATERCOURSES.
7. A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES. THIS BUFFER WILL NOT BE POSSIBLE AT RIVER/STREAM CROSSINGS, BUT OTHER SUITABLE CONTROLS ARE PROPOSED IN THOSE AREAS (I.E. ADDITIONAL SILT FENCING).
8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1 : 1.5 TO 1 : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.
10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPEND ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.
11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
12. SILT FENCES TO BE PROVIDED ALONG THE EDGE OF EXISTING WATERCOURSES WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN / EPHEMERAL CHANNEL.
13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.
14. AREAS STRIPPED OF VEGETATION WILL BE KEPT TO A MINIMUM.
15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20-40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.
17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.
18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL WILL ONLY BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.
20. TEMPORARY USE OF SILT BAGS WILL BE USED ON SITE WHERE PUMPING FROM EXCAVATIONS IS REQUIRED.

MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE	
MANAGEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
AVOIDANCE CONTROLS	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES (EXCEPT AT CROSSINGS WHERE ADDITIONAL MITIGATION WILL BE ADDED) 2) USING SMALL WORKING AREAS 3) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER
	1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS
SOURCE CONTROLS:	1) INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) IN STREAM SEDIMENTS E) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS F) ATTENUATION PONDS G) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS
	1) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS
IN-LINE CONTROLS:	1) BUFFERSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
	1) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS
WATER TREATMENT CONTROLS:	1) BUFFERSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
	1) BUFFERSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
OUTFALL CONTROLS:	1) BUFFERSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS
	1) BUFFERSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS



- DRAWING LEGEND :
- WATERCOURSES
 - WATERCOURSE 50M BUFFER
 - DRAINS
 - DRAINS TO BE REMOVED/BLOCKED
 - DRAIN REDIRECTION
 - STREAM FLOW DIRECTION
 - UPSTREAM INTERCEPTOR DRAIN
 - SWALES/DOWNSTREAM COLLECTOR DRAIN
 - DIRECTION OF FLOW
 - SETTLEMENT POND - LEVEL SPREADER
 - UNDER ROAD DRAINAGE (FLOATING ROAD)
 - SILT FENCES
 - DOUBLE/TWISLE SILT FENCES
 - CHECK DAM 'TYPE A'
 - CHECK DAM 'TYPE B'
 - PROPOSED CULVERT CROSSING
 - PROPOSED WC CROSSING
 - INTERCEPTOR DITCH CULVERT
 - COLLECTOR DITCH CULVERT
 - OVERLAND FLOW DISCHARGE
 - TREATED WATER DISCHARGE
 - SETTLEMENT POND
 - SEMI-NATURAL VEGETATION
 - SWALE / FILTER BED / SECONDARY SP
 - PUMPING SUMP

- PLANNING APPLICATION BOUNDARY
- EXISTING GROUND SURFACE
- MINOR CONTOUR (1M INTERVAL)
- TURBINE AND TURBINE FOUNDATION
- HARDSTAND
- PROPOSED NEW ROADS
- PROPOSED FLOATING ROADS
- EXISTING ROADS PROPOSED TO BE UPGRADED
- PROPOSED 110KV ONSITE SUBSTATION AND BATTERY STORAGE COMPOUND
- TEMPORARY CONSTRUCTION COMPOUND
- SPOIL REPOSITORY AREAS
- PEAT REPOSITORY AREAS
- MET MAST
- CUT AREA
- FILL AREA
- 30M POTENTIAL ENCLOSED DEPRESSION BUFFER



- DRAWING NOTES
1. DRAWINGS ISSUED ARE FOR PLANNING APPLICATION PURPOSES ONLY.
 2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES.
 3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING.
 4. ALL DIMENSIONS ARE IN METRES.

Ordnance Survey Ireland Licence No. EN 0044725
© Ordnance Survey Ireland/Government of Ireland

Date	Description	Chkd	Signed
Revisions			

HYDRO ENVIRONMENTAL SERVICES

22 Lower Main St
Dungarvan
Co. Waterford
Ireland

tel: +353 (0) 58-44122
tel: +353 (0) 58-44244
email: info@hydroenvironmental.ie
web: www.hydroenvironmental.ie

Client: MKO

Job: COOLLOO WIND FARM, CO. GALWAY

Title: PROPOSED DRAINAGE LAYOUT

Figure No: D104

Drawing No: P1611-0-0925-A1-D104-00B

Sheet Size: A1 Project No.: P1611-0

Scale: 1:2,000 (A1) Drawn By: GA

Date: 24/09/2025 Checked By: MG

POLLUTION PREVENTION NOTES:

1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
2. SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

DISCHARGES

4. WATER CONTAINING SILT WILL NOT BE DISCHARGED OR PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES WILL BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
5. NO EXCAVATED MATERIAL WILL BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT WILL NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS.
8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.
9. ALL WIND FARM DRAINAGE OUTFALLS TO BE LOCATED OUTSIDE OF 30M POTENTIAL ENCLOSED DEPRESSION BUFFER

EXCAVATIONS

10. WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

EXPOSED GROUND & STOCKPILES

11. THE AMOUNT OF TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.

SITE TRACKS

12. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
13. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

REFUELLING

14. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELLING AREAS ONLY, ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES/WATERBODIES.
15. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

CONCRETE

16. CONCRETE POURS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
17. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT PIT.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

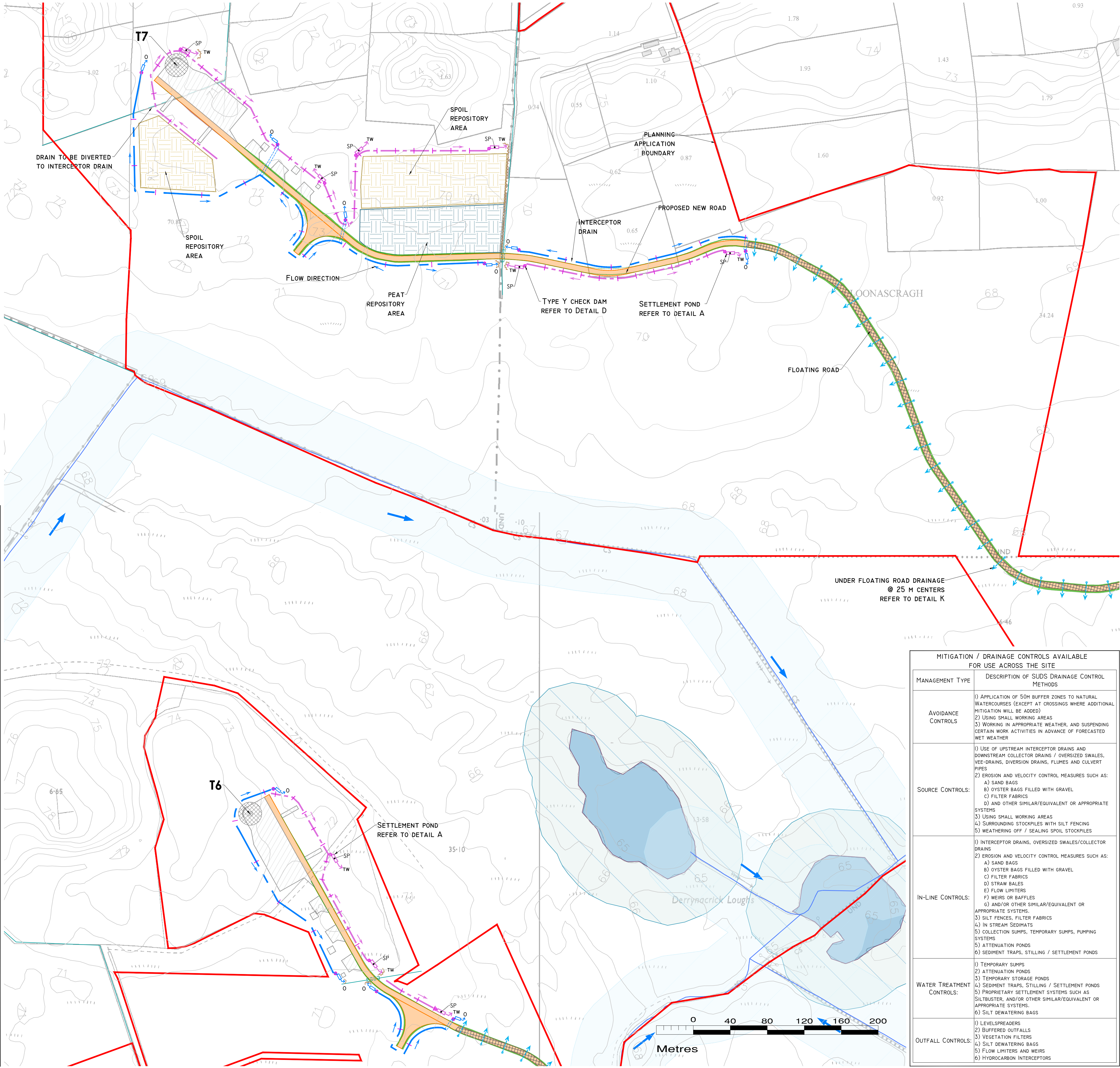
STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND ANY SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE RECEPTORS.

DRAINAGE NOTES:

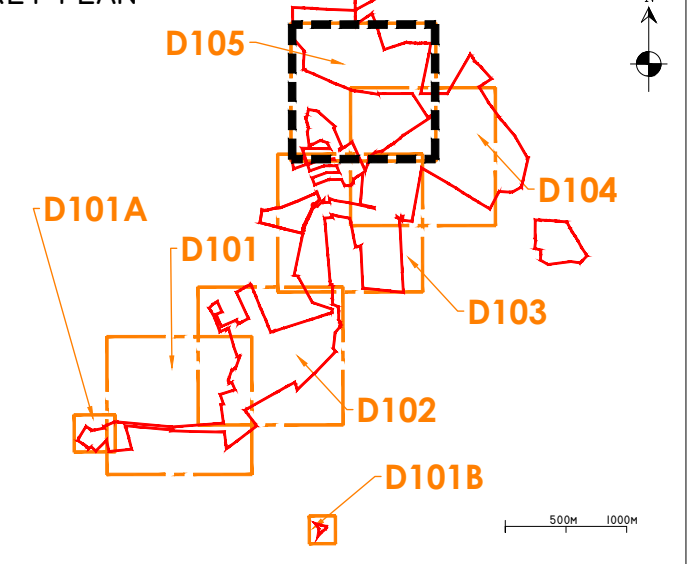
1. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, WILL BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.
3. SUDS DRAINAGE SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
4. SUITABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.
5. INTERCEPTOR SWALES / DITCHES WILL BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE INSTALLED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. OPTIMUM LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO ANY EXISTING WATERCOURSES.
7. A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES. THIS BUFFER WILL NOT BE POSSIBLE AT RIVER/STREAM CROSSINGS, BUT OTHER SUITABLE CONTROLS ARE PROPOSED IN THOSE AREAS (I.E. ADDITIONAL SILT FENCING).
8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1 : 1.5 TO 1 : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.
10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPEND ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.
11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
12. SILT FENCES TO BE PROVIDED ALONG THE EDGE OF EXISTING WATERCOURSES WHERE WORKS COMES WITHIN 15M OF EDGE OF ANY DITCH / DRAIN / EPHEMERAL CHANNEL.
13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.
14. AREAS STRIPPED OF VEGETATION WILL BE KEPT TO A MINIMUM.
15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.
17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.
18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL WILL ONLY BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.
20. TEMPORARY USE OF SILT BAGS WILL BE USED ON SITE WHERE PUMPING FROM EXCAVATIONS IS REQUIRED.



- DRAWING LEGEND :**
- WATERCOURSES
 - WATERCOURSE 50M BUFFER
 - DRAINS
 - DRAINS TO BE REMOVED/BLOCKED
 - DRAIN REDIRECTION
 - STREAM FLOW DIRECTION
 - UPSTREAM INTERCEPTOR DRAIN
 - SWALES/DOWNSTREAM COLLECTOR DRAIN
 - DIRECTION OF FLOW
 - SETTLEMENT POND - LEVEL SPREADER
 - UNDER ROAD DRAINAGE (FLOATING ROAD)
 - SILT FENCES
 - DOUBLE/TRIPLE SILT FENCES
 - CHECK DAM 'TYPE A'
 - CHECK DAM 'TYPE B'
 - PROPOSED CULVERT CROSSING
 - PROPOSED WC CROSSING
 - INTERCEPTOR DITCH CULVERT
 - COLLECTOR DITCH CULVERT
 - OVERLAND FLOW DISCHARGE
 - TREATED WATER DISCHARGE
 - TW
 - SP
 - VS
 - SEMI-NATURAL VEGETATION SWALE / FILTER BED / SECONDARY SP
 - PUMPING SUMP

- PLANNING APPLICATION BOUNDARY
- EXISTING GROUND SURFACE MINOR CONTOUR (1M INTERVAL)
- TURBINE AND TURBINE FOUNDATION
- HARDSTAND
- PROPOSED NEW ROADS
- PROPOSED FLOATING ROADS
- EXISTING ROADS PROPOSED TO BE UPGRADED
- PROPOSED 110KV ONSITE SUBSTATION AND BATTERY STORAGE COMPOUND
- TEMPORARY CONSTRUCTION COMPOUND
- SPOIL REPOSITORY AREAS
- PEAT REPOSITORY AREAS
- MET MAST
- CUT AREA
- FILL AREA
- 30M POTENTIAL ENCLOSED DEPRESSION BUFFER

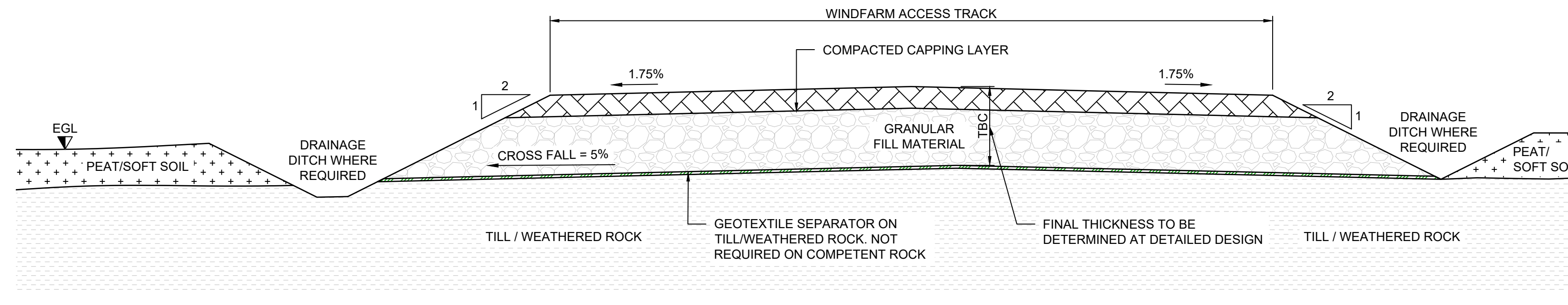
KEY PLAN



- DRAWING NOTES**
1. DRAWINGS ISSUED ARE FOR PLANNING APPLICATION PURPOSES ONLY.
 2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES.
 3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING.
 4. ALL DIMENSIONS ARE IN METRES.

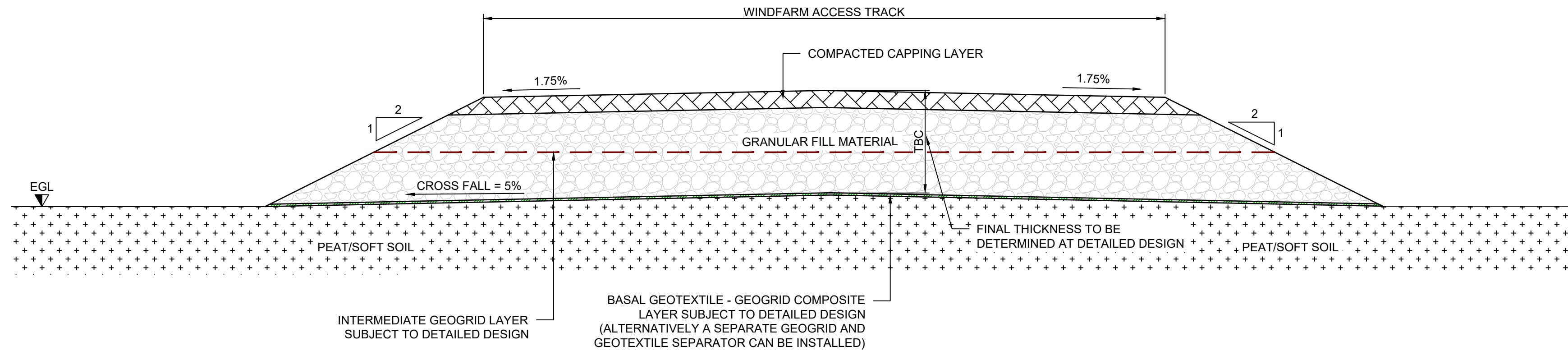
MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE	
MANAGEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
AVOIDANCE CONTROLS	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES (EXCEPT AT CROSSINGS WHERE ADDITIONAL MITIGATION WILL BE ADDED) 2) USING SMALL WORKING AREAS 3) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER
SOURCE CONTROLS:	1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING SPOIL STOCKPILES
IN-LINE CONTROLS:	1) INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.
WATER TREATMENT CONTROLS:	3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMENTS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 7) ATTENUATION PONDS 8) TEMPORARY STORAGE PONDS 9) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 10) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 11) SILT DEWATERING BAGS
OUTFALL CONTROLS:	1) LEVELSPREADERS 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS 6) HYDROCARBON INTERCEPTORS

Ordnance Survey Ireland Licence No. EN 0044725 © Ordnance Survey Ireland/Government of Ireland			
Date	Description	Chkd	Signed
Revisions			
 HYDRO ENVIRONMENTAL SERVICES			
22 Lower Main St Dungarvan Co. Waterford Ireland		tel: +353 (0) 58-44122 tel: +353 (0) 58-44244 email: info@hydroenvironmental.ie web: www.hydroenvironmental.ie	
Client:		MKO	
Job:		COOLLOO WIND FARM, Co. GALWAY	
Title:		PROPOSED DRAINAGE LAYOUT	
Figure No:		D105	
Drawing No: P1611-0-0925-A1-D105-00B			
Sheet Size: A1		Project No.: P1611-0	
Scale: 1:2,000 (A1)		Drawn By: GA	
Date: 24/09/2025		Checked By: MG	



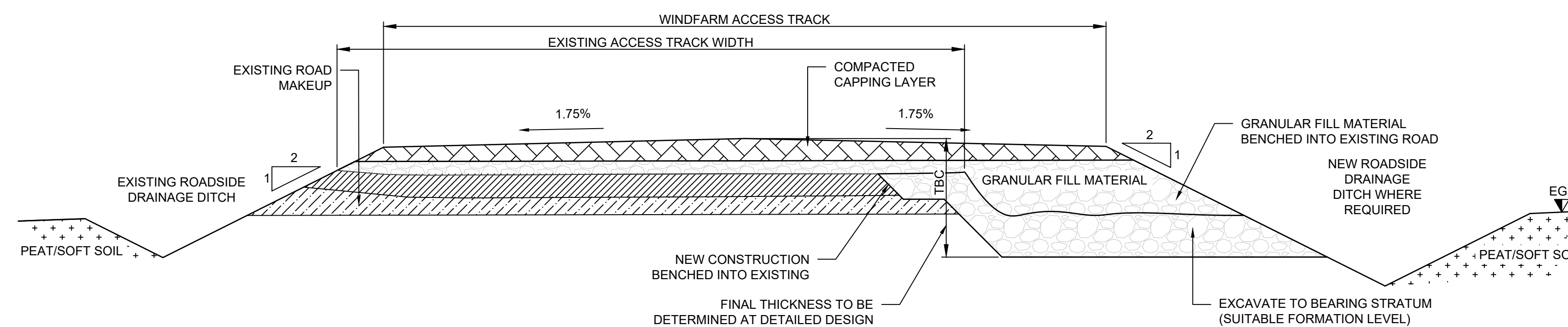
SECTION THROUGH ACCESS TRACK NEW
CONSTRUCTION: FOUNDED - DETAIL 01

SCALE: 1:25



SECTION THROUGH ACCESS TRACK
NEW CONSTRUCTION: FLOATED - DETAIL 02

SCALE: 1:25



SECTION THROUGH WIDENING OF EXISTING ACCESS TRACK: FOUNDED - DETAIL 03

SCALE: 1:25

NOTES:

1. THIS DRAWING IS FOR PLANNING AND ENVIRONMENTAL IMPACT ASSESSMENT PURPOSES AND SHOULD NOT BE USED AS DETAILED DESIGN OR FOR CONSTRUCTION.
2. DO NOT SCALE FROM DRAWINGS.
3. THE STRENGTH OF THE SUBFORMATION SOILS TO BE ASSESSED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION / PLACEMENT OF FILL.
4. DRAINAGE TO BE PROVIDED TO PREVENT WATER DEGRADATION OF THE SUBFORMATION SOILS IN-LINE WITH DRAINAGE STRATEGY.

HEALTH & SAFETY:

1. NO OPERATIVES TO ACCESS ANY UNSUPPORTED TRENCHES. TRENCHES TO BE ADEQUATELY BATTERED BACK OR SUPPORTED WHERE NECESSARY. SAFE TEMPORARY BATTER ANGLES TO BE ASSESSED IN ACCORDANCE WITH CIRIA REPORT 97 "TRENCHING PRACTICE".

REV:	S2-P01	DATE:	29/08/25	DRAWN BY:	PF	CHECKED BY:	DM
DESCRIPTION:	ISSUED FOR INFORMATION						

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Unit A2,
Nutgrove Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS:	FOR INFORMATION
CLIENT:	



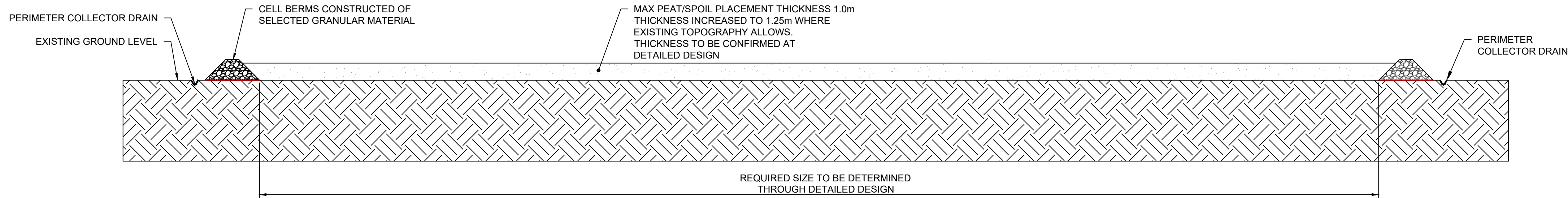
PROJECT TITLE: COOLOO
WIND FARM

DRAWING No: 22098-GDG-ZZ-XX-DR-C-0100

Revision: -S2-P01

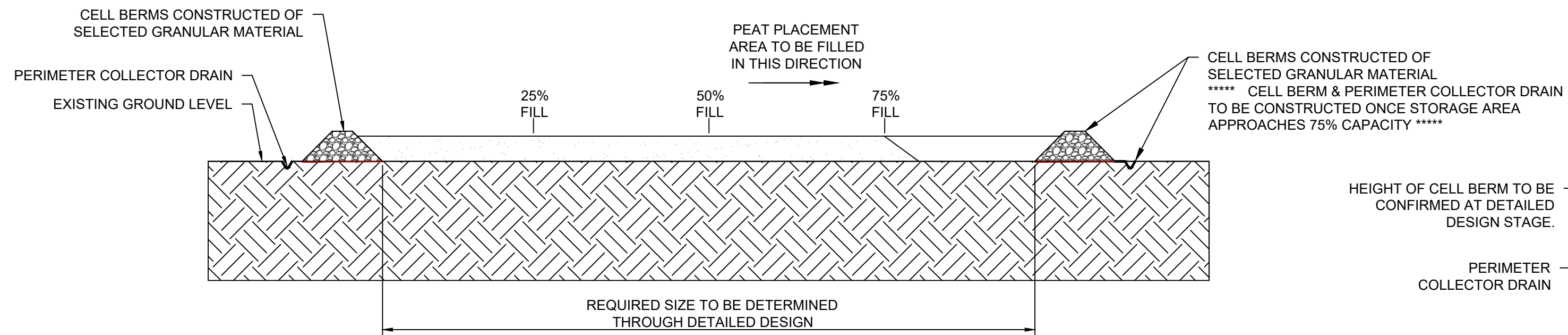
DRAWING TITLE:
ACCESS ROAD
STANDARD DETAILS

SCALE:	1:25	SHEET SIZE:	A1	DATE:	29/08/2025
DRAWN BY:	PF	CHECKED BY:	DM	APPROVED BY:	TO'S



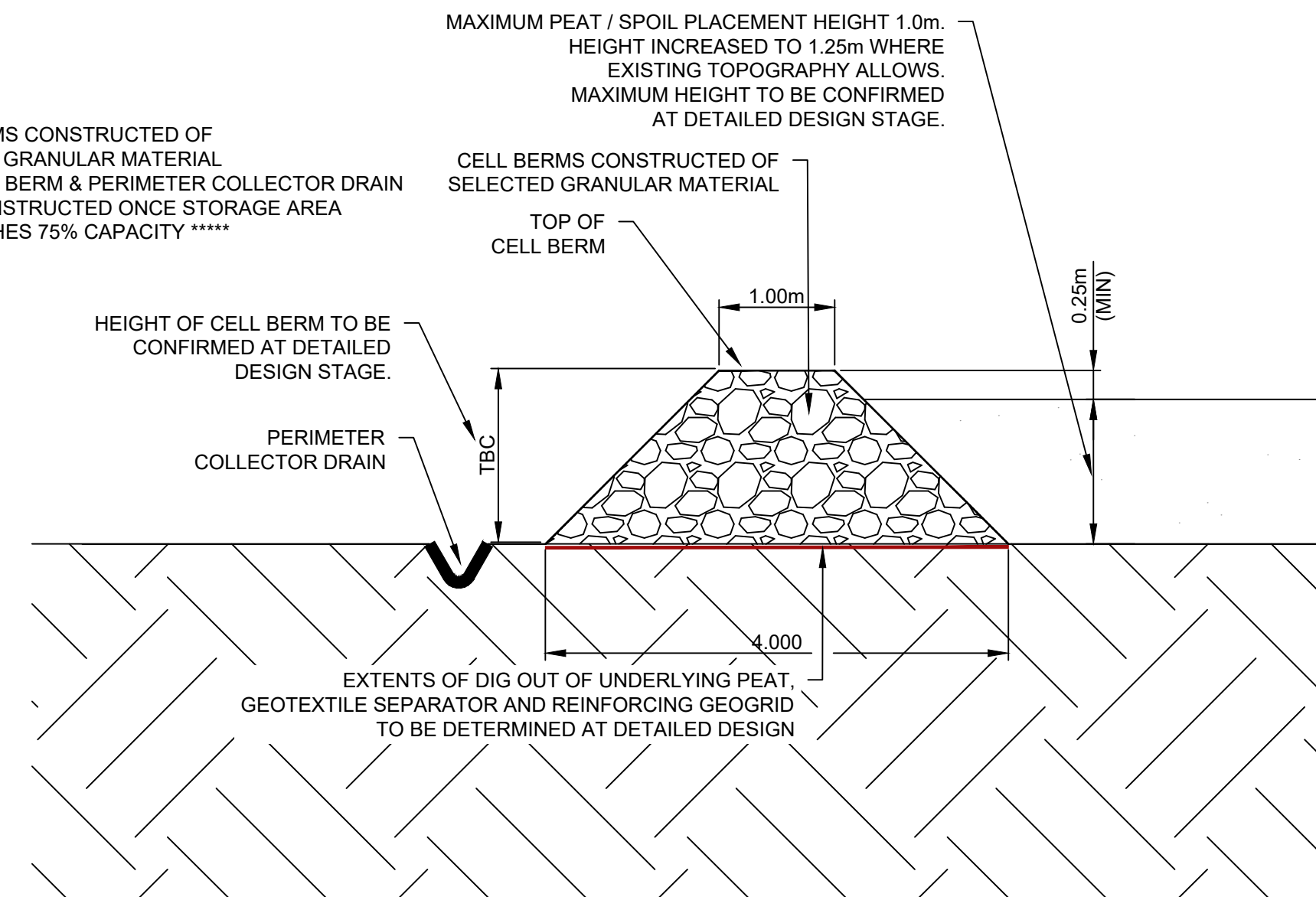
PEAT/SPOIL REPOSITORY AREA - TYPICAL SECTION A-A

SCALE 1:200



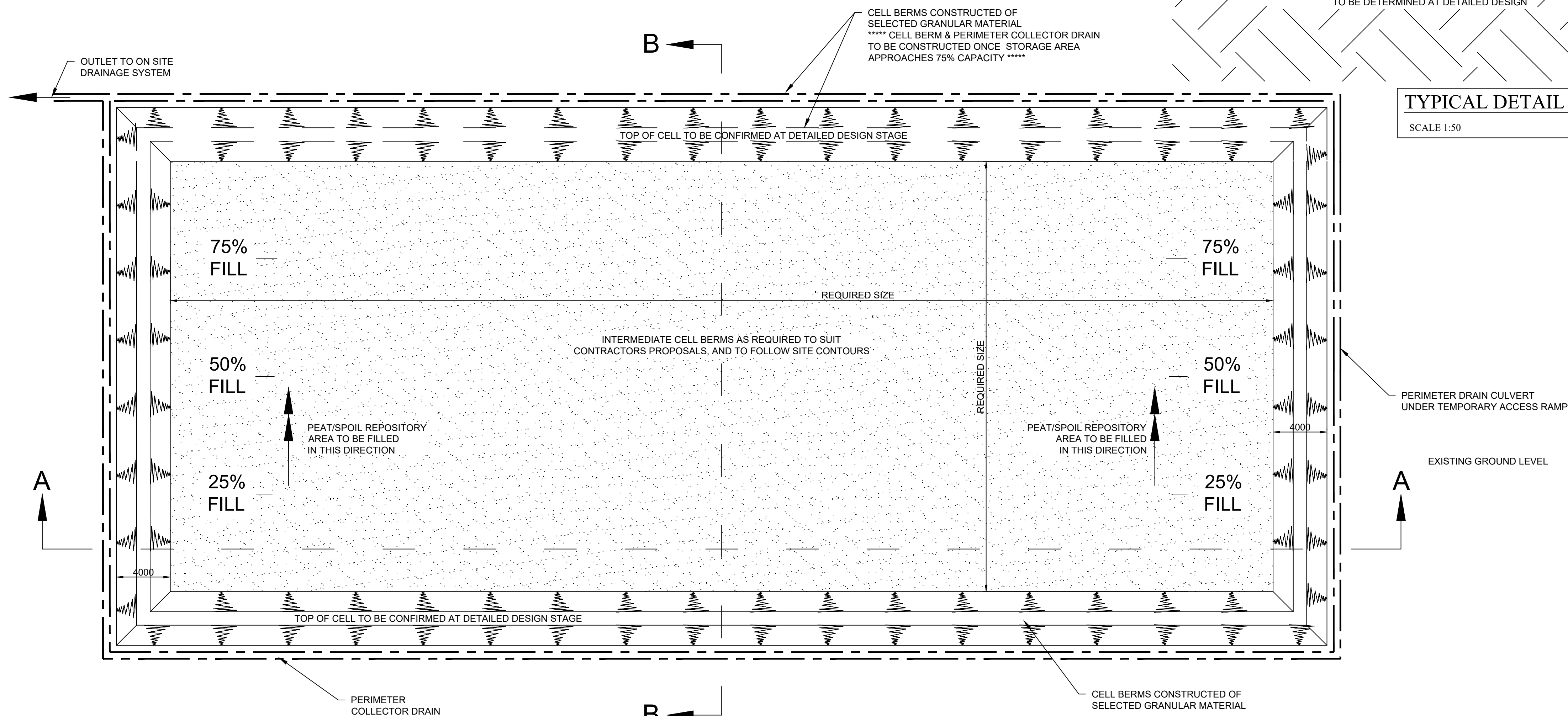
PEAT/SPOIL REPOSITORY AREA - TYPICAL SECTION B-B

SCALE 1:200



TYPICAL DETAIL - CELL BERM

SCALE 1:50



PEAT/ SPOIL REPOSITORY AREA

SCALE 1:200

NOTES:

1. THIS DRAWING IS FOR PLANNING AND ENVIRONMENTAL IMPACT ASSESSMENT PURPOSES AND SHOULD NOT BE USED AS DETAILED DESIGN OR FOR CONSTRUCTION.
2. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
3. DO NOT SCALE FROM THIS DRAWING.
4. ALL PLACED MATERIAL WILL BE ALLOWED TO REVEGETATE NATURALLY FROM THE EXTENSIVE SEED SOURCE OF THE PLANTS THAT HAVE ALREADY COLONISED IN THE AREA. ALTERNATIVELY AND POSSIBLY IN ADDITION, SEEDING OF THE PLACED SPOIL COULD BE CARRIED OUT WHICH WOULD AID IN STABILISING THE PLACED SPOIL IN THE LONG TERM.
5. WHERE POSSIBLE, THE AGROTELM SHALL BE STORED WITH THE VEGETATED PART OF THE SOD FACING THE RIGHT WAY UP TO ENCOURAGE GROWTH OF PLANTS AND VEGETATION AT THE SURFACE OF THE STORED PEAT WITHIN THE PEAT STORAGE AREAS.
6. BOG MATS TO BE PLACED PEAT WHERE NECESSARY TO FACILITATE PLANT & MACHINERY ACCESS OVER SOFT GROUND.

REV: S2-P01 DATE: 24/06/25 DRAWN BY: RR CHECKED BY: CE

DESCRIPTION: ISSUED FOR INFORMATION

GDG
GAVIN & DOHERTY
GEOSOLUTIONS
Unit A2,
Nutgrove Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS: FOR INFORMATION

CLIENT:
MKO

PROJECT TITLE:
COOLOO
WIND FARM

DRAWING No: 22098-GDG-ZZ-XX-DR-C-0101

Revision: -S2-P01

DRAWING TITLE:
PEAT AND SPOIL
REPOSITORY AREA
TYPICAL DETAILS

SCALE: N.T.S. SHEET SIZE: A1 DATE: 24/06/2025
DRAWN BY: RR CHECKED BY: CE APPROVED BY: AL