Proposed Wind Farm Development
Seven Hills Wind Farm, Co. Roscommon
Planning Permission Application Drawings

Schedule of Drawings

Drawing No.	Drawing Title	Scale
190907 – 01	Location Context Map	1: 50,000 @A3
190907 – 02	Site Location Map	1: 50,000 @A3
190907 – 02a	Site Notice Location Map A	1:5,000 @A3
190907 – 02b	Site Notice Location Map B	1:5,000 @A3
190907 – 02c	Site Notice Location Map C	1:5,000 @A3
190907 – 02d	Site Notice Location Map D	1:5,000 @A3
190907 – 02e	Site Notice Location Map E	1:5,000 @A3
190907 – 02f	Site Notice Location Map F	1:5,000 @A3
190907 – 02g	Site Notice Location Map G	1:5,000 @A3
190907 – 02h	Site Notice Location Map H	1:5,000 @A3
190907 – 02i	Site Notice Location Map I	1:5,000 @A3
190907 – 02j	Site Notice Location Map J	1:5,000 @A3
190907 – 02k	Site Notice Location Map K	1:5,000 @A3
190907 – 03	Site Layout Key Plan (1:5,000)	1: 25,000 @A1
190907 – 04	Site Layout Sheet 1 of 6	1: 5,000 @A1
190907 – 05	Site Layout Sheet 2 of 6	1: 5,000 @A1
190907 – 06	Site Layout Sheet 3 of 6	1: 5,000@A1
190907 – 07	Site Layout Sheet 4 of 6	1: 5,000@A1
190907 – 08	Site Layout Sheet 5 of 6	1: 5,000@A1
190907 – 09	Site Layout Sheet 6 of 6	1: 5,000@A1
190907 – 10	Site Layout Key Plan (1:2,500)	1: 25,000@A1
190907 – 11	Site Layout Sheet 1 of 18	1: 2,500@A1
190907 – 12	Site Layout Sheet 2 of 18	1: 2,500@A1
190907 – 13	Site Layout Sheet 3 of 18	1: 2,500@A1
190907 – 14	Site Layout Sheet 4 of 18	1: 2,500@A1
190907 – 15	Site Layout Sheet 5 of 18	1: 2,500@A1
190907 – 16	Site Layout Sheet 6 of 18	1: 2,500@A1
190907 – 17	Site Layout Sheet 7 of 18	1: 2,500@A1
190907 – 18	Site Layout Sheet 8 of 18	1: 2,500@A1
190907 – 19	Site Layout Sheet 9 of 18	1: 2,500@A1
190907 – 20	Site Layout Sheet 10 of 18	1: 2,500@A1
190907 – 21	Site Layout Sheet 11 of 18	1: 2,500@A1
190907 – 22	Site Layout Sheet 12 of 18	1: 2,500@A1
190907 – 23	Site Layout Sheet 13 of 18	1: 2,500@A1
190907 – 24	Site Layout Sheet 14 of 18	1: 2,500@A1
190907 – 25	Site Layout Sheet 15 of 18	1: 2,500@A1
190907 – 26	Site Layout Sheet 16 of 18	1: 2,500@A1
190907 – 27	Site Layout Sheet 17 of 18	1: 2,500@A1
190907 – 28	Site Layout Sheet 18 of 18	1: 2,500@A1
190907 – 29	Turbine 1 Layout	1: 500 @A3
190907 – 30	Turbine 2 Layout	1: 500@A3
190907 – 31	Turbine 3 Layout	1: 500@A3
190907 – 32	Turbine 4 Layout	1: 500@A3
190907 – 33	Turbine 5 Layout	1: 500@A3
190907 – 34	Turbine 6 Layout	1: 500@A3
190907 – 35	Turbine 7 Layout	1: 500@A3
190907 – 36	Turbine 8 Layout	1: 500@A3
190907 – 37	Turbine 9 Layout	1: 500@A3
190907 - 38	Turbine 10 Layout	1: 500@A3
190907 – 39	Turbine 11 Layout	1: 500@A3
190907 – 40	Turbine 12 Layout	1: 500@A3
190907 – 41	Turbine 13 Layout	1: 500@A3
190907 – 42	Turbine 14 Layout	1: 500@A3
190907 – 43	Turbine 15 Layout	1: 500@A3
190907 – 44	Turbine 16 Layout	1: 500@A3
190907 – 45	Turbine 17 Layout	1: 500@A3
190907 – 46	Turbine 18 Layout	1: 500@A3
190907 – 47	Turbine 19 Layout	1: 500@A3
190907 – 48	Turbine 20 Layout	1: 500@A3
190907 – 49	Turbine 1, 2 & 3 Spoil Storage Sections	1: 200@A3
190907 – 50	Turbine 4, 5, & 6 Spoil Storage Sections	1: 200@A3
190907 – 51	Turbine 7, 8, & 10 Spoil Storage Sections	1: 200@A3
190907 – 52	Turbine 11, 13, & 14 Spoil Storage Sections	1: 200@A3
190907 – 53	Turbine 17, 19, & 20 Spoil Storage Sections	1: 200@A3
190907 – 54	Wind Turbine Elevations and Plan	1:500 @ A1
21337-MWP-ZZ-00-DR-C-0104	Ground Bearing Foundation Design	1:10, 1:25, 1:100 @A1
SVH_PAS_ECS_001	Anemometer Mast Elevations	1:200, 1:100, 1:50 @A1
21337-MWP-ZZ-00-DR-C-1400	Spoil Storage Sections - North	As Shown @A1
21337-MWP-ZZ-00-DR-C-1401	Spoil Storage Sections - South – Sheet 1	As Shown @A1
21337-MWP-ZZ-00-DR-C-1402	Spoil Storage Sections - South – Sheet 2	As Shown @A1

Continued →

21337-MWP-ZZ-00-DR-C-5001	Site Internal Ducting - Cable trench and Crossing details	1:10 @A1
60634578-ACM-DR-CE-001	110kV Substation Proposed Layout	NTS @A1
60634578-ACM-DR-CE-002	110kV Substation Site Elevations	NTS @A1
60634578-ACM-DR-CE-005	Indicative Drainage Layout	NTS @A1
21337-MWP-ZZ-00-DR-C-0103	Temporary Construction Compound 1 &2	NTS @A1
60634578-ACM-DR-CE-006	110kV Typical Connection Bay	1:100 @ A1
60634578-ACM-DR-CE-036	110kV Typical Standard Trench Detail	NTS @ A1
60634578-ACM-DR-CE-037	110kV Typical Joint Box Detail	NTS @A1
60634578-ACM-DR-CE-041	WC1 - Ballyglass River/Culvert Crossing	As shown @A0
60634578-ACM-DR-CE-042	WC2 – HDD of Cross River	As shown @A0
60634578-ACM-DR-CE-043	WC3 – Culvert Crossing	As shown @A0
60634578-ACM-DR-CE-044	WC5 – HDD Cross River	As shown @A0
60634578-ACM-DR-CE-045	N6 HDD	As shown @A0
21337-MWP-00-00-DR-C-2125	Drainage & Cable Route Layout - North Drawing Location Plan	1:5000 @A1
21337-MWP-00-00-DR-C-2126	Drainage & Cable Route Layout - South Drawing Location Plan	1:1000 @A1
21337-MWP-WF-00-DR-C-2101	Proposed Drainage Layout Sheet 01	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2102	Proposed Drainage Layout Sheet 02	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2103	Proposed Drainage Layout Sheet 03	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2104	Proposed Drainage Layout Sheet 04	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2105	Proposed Drainage Layout Sheet 05	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2106	Proposed Drainage Layout Sheet 06	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2107	Proposed Drainage Layout Sheet 07	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2108	Proposed Drainage Layout Sheet 08	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2109	Proposed Drainage Layout Sheet 09	1:1000 @A1
21337-MWP-ZZ-00-DR-C-2110	Proposed Drainage Layout Sheet 10	1:1000 @A1
21337-MWP-00-00-DR-C-2111	Proposed Drainage Layout Sheet 11	1:1000 @A1
21337-MWP-00-00-DR-C-2112	Proposed Drainage Layout Sheet 12	1:1000 @A1
21337-MWP-00-00-DR-C-2113	Proposed Drainage Layout Sheet 13	1:1000 @A1
21337-MWP-00-00-DR-C-2114	Proposed Drainage Layout Sheet 14	1:1000 @A1
21337-MWP-00-00-DR-C-2115	Proposed Drainage Layout Sheet 15	1:1000 @A1
21337-MWP-00-00-DR-C-2116	Proposed Drainage Layout Sheet 16	1:1000 @A1
21337-MWP-00-00-DR-C-2117	Proposed Drainage Layout Sheet 17	1:1000 @A1
21337-MWP-00-00-DR-C-2118	Proposed Drainage Layout Sheet 18	1:1000 @A1
21337-MWP-00-00-DR-C-2119	Proposed Drainage Layout Sheet 19	1:1000 @A1
21337-MWP-00-00-DR-C-2120	Proposed Drainage Layout Sheet 20	1:1000 @A1
21337-MWP-00-00-DR-C-2121	Proposed Drainage Layout Sheet 21	1:1000 @A1
21337-MWP-00-00-DR-C-2122	Proposed Drainage Layout Sheet 22	1:1000 @A1
21337-MWP-00-00-DR-C-2123	Proposed Drainage Layout Sheet 23	1:1000 @A1
21337-MWP-00-00-DR-C-2124	Proposed Drainage Layout Sheet 24	1:1000 @A1
21337-MWP-00-00-DR-C-2127	Fencing, Road and Drainage Details	1:50 @A1
21337-MWP-00-00-DR-C-2128	Grass Lined Linear Swale	1:50 @A1
21337-MWP-WF-00-DR-C-3000	Wind Farm Entrance Sightlines - Sheet 1	1:1000 @A1
21337-MWP-WF-00-DR-C-3001	Wind Farm Entrance Sightlines - Sheet 2	1:1000 @A1
21337-MWP-WF-00-DR-C-3002	Wind Farm Entrance Sightlines - Sheet 3	1:1000 @A1

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Area not Forming Part of Application

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N

DRAWING TITLE:

Location Context Map

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 01
SCALE: 1:50,000 @ A3	DATE: 03.06.2022
OS SHEET No.: OS1822, OS1824, OS2022, OS2024	

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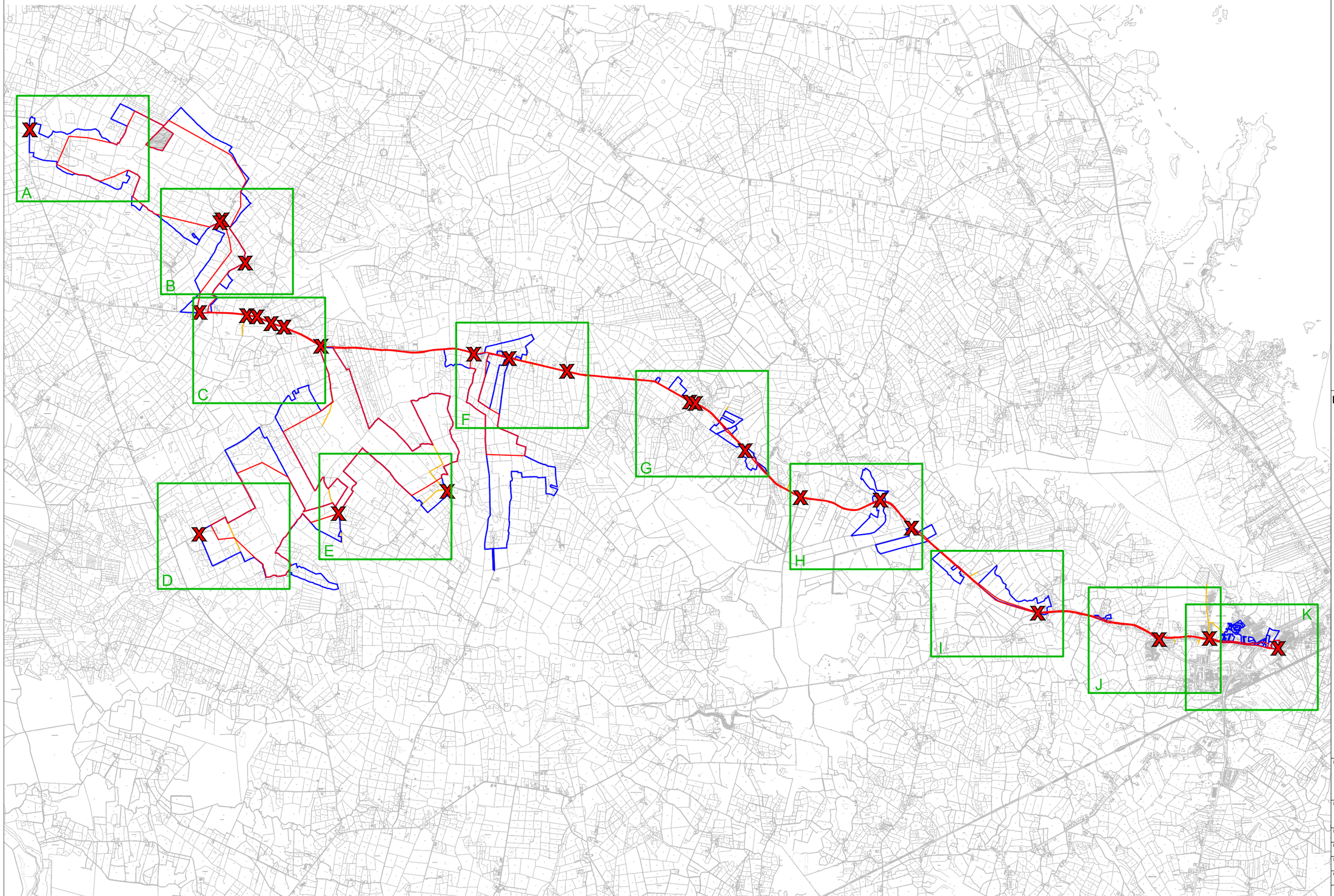

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- Site Notice
- Wayleave
- Area not Forming Part of Application

N

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DRAWING TITLE:

Site Location Map

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02
SCALE: 1:50,000 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- Site Notice
- Area not Forming Part of Application

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N

DRAWING TITLE:

Site Location Map Sheet A

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02A
SCALE: 1:5,000 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- X Site Notice

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DRAWING TITLE:
Site Location Map Sheet B

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02B
SCALE: 1:5,000 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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8. Final levels may vary depending on local ground conditions.

Drawing Legend

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

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DRAWING TITLE:

Site Location Map Sheet C

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02C
SCALE: 1:5,000 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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Drawing Legend

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

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DRAWING TITLE:

Site Location Map Sheet D

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02D
SCALE: 1:5,000 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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Drawing Legend

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

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DRAWING TITLE:

Site Location Map Sheet E

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02E
SCALE: 1:5,000 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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Drawing Legend

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

N

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DRAWING TITLE:
Site Location Map Sheet F

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02F
SCALE: 1:5,000 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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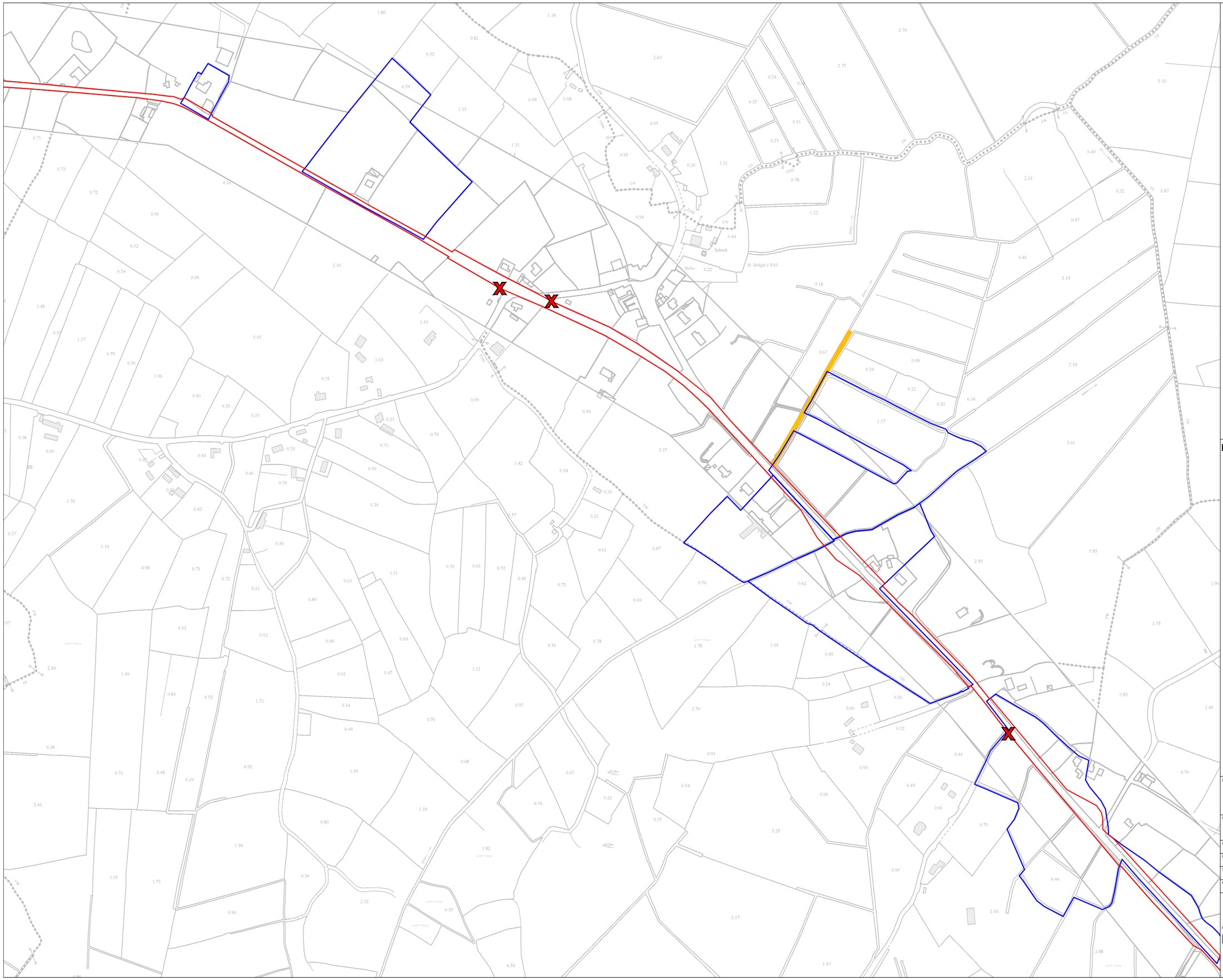

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Drawing Legend

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

N

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DRAWING TITLE:

Site Location Map Sheet G

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.:	DRAWING No.:
190907	190907 - 02G
SCALE:	DATE:
1:5,000 @ A3	03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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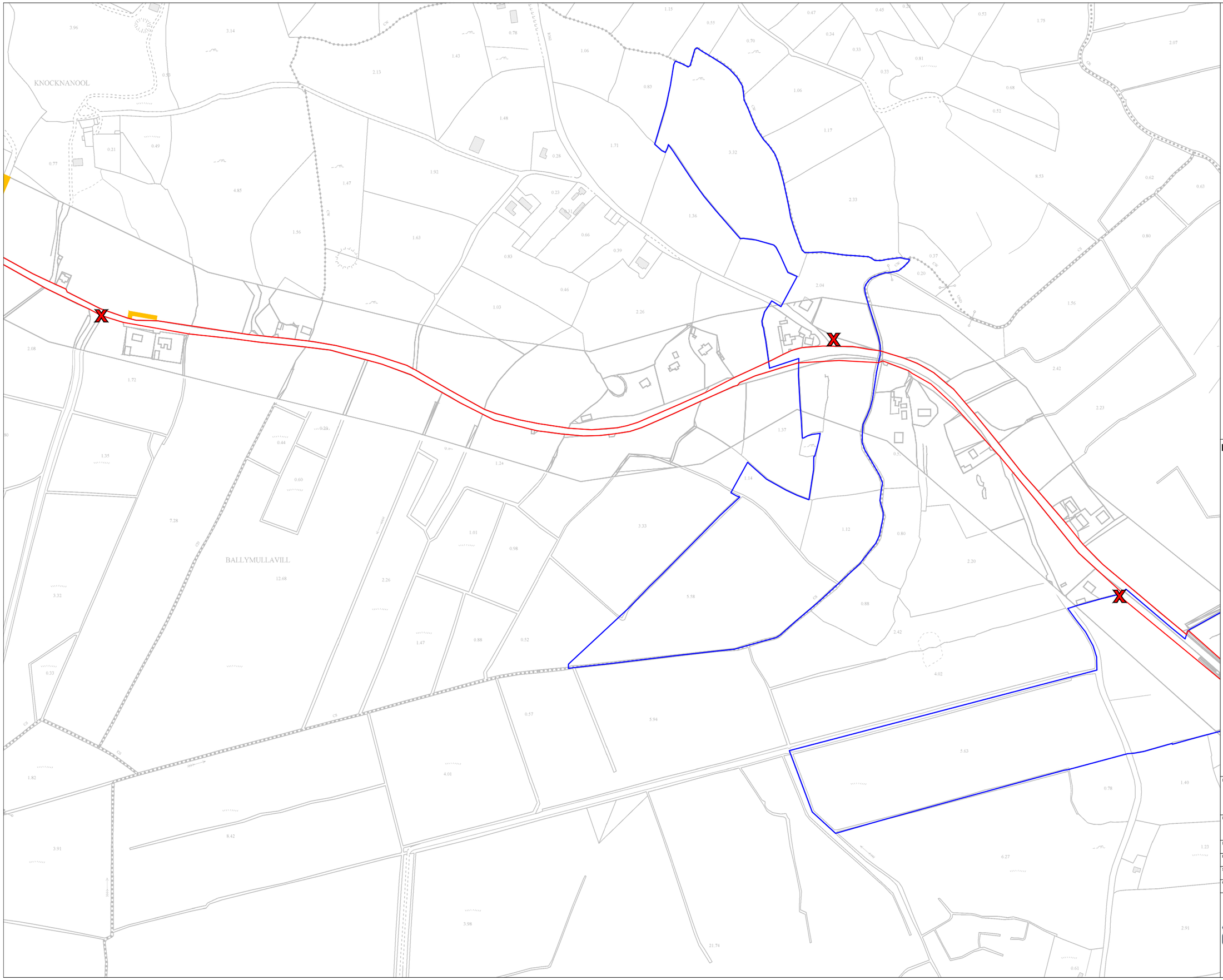

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

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

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N

DRAWING TITLE:

Site Location Map Sheet H

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02H
SCALE: 1:5,000 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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Website: www.mkoireland.ie

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8. Final levels may vary depending on local ground conditions.

Drawing Legend

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

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DRAWING TITLE:

Site Location Map Sheet I

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02I
SCALE: 1:5,000 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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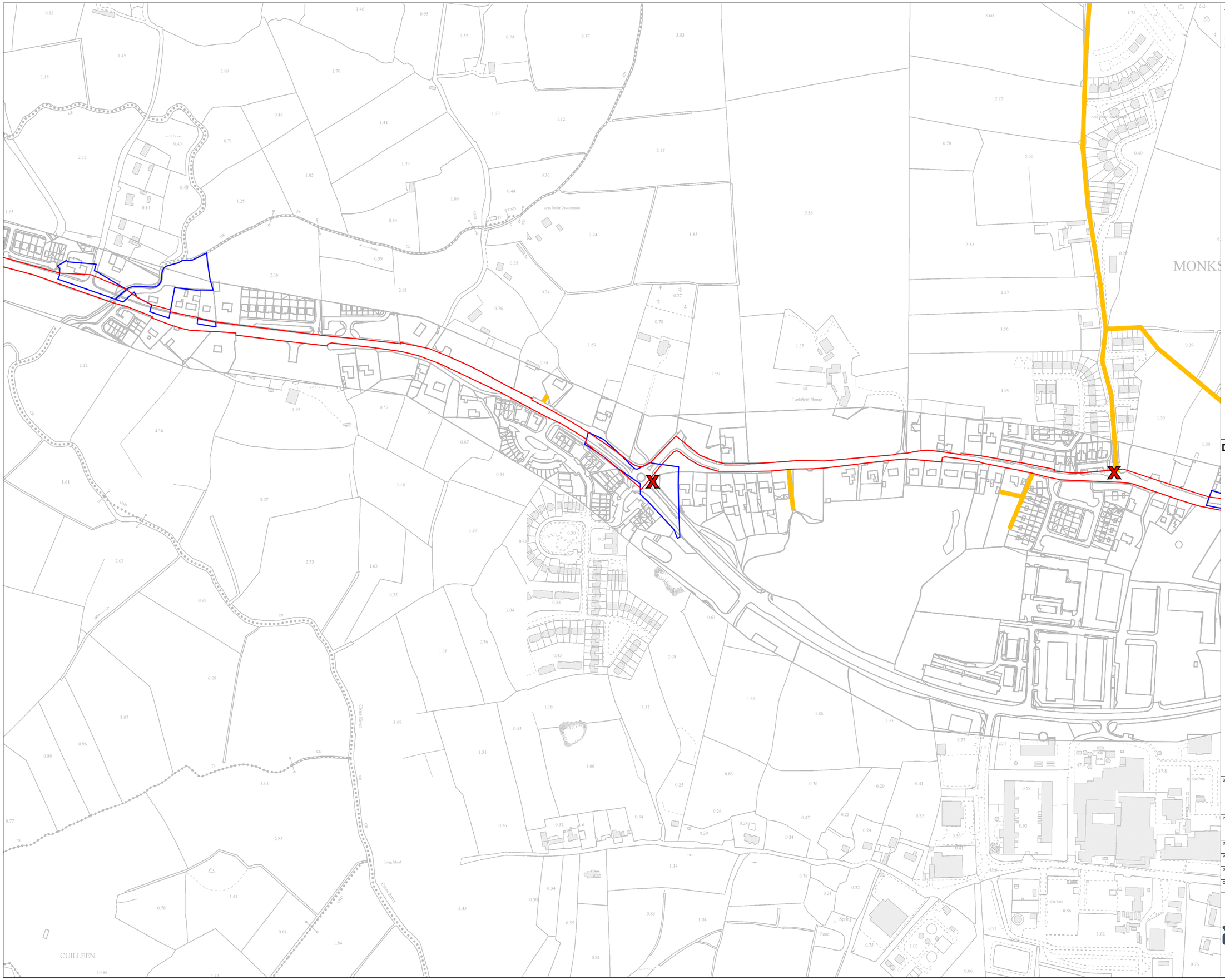

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

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

N

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DRAWING TITLE:

Site Location Map Sheet J

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02J
SCALE: 1:5,000 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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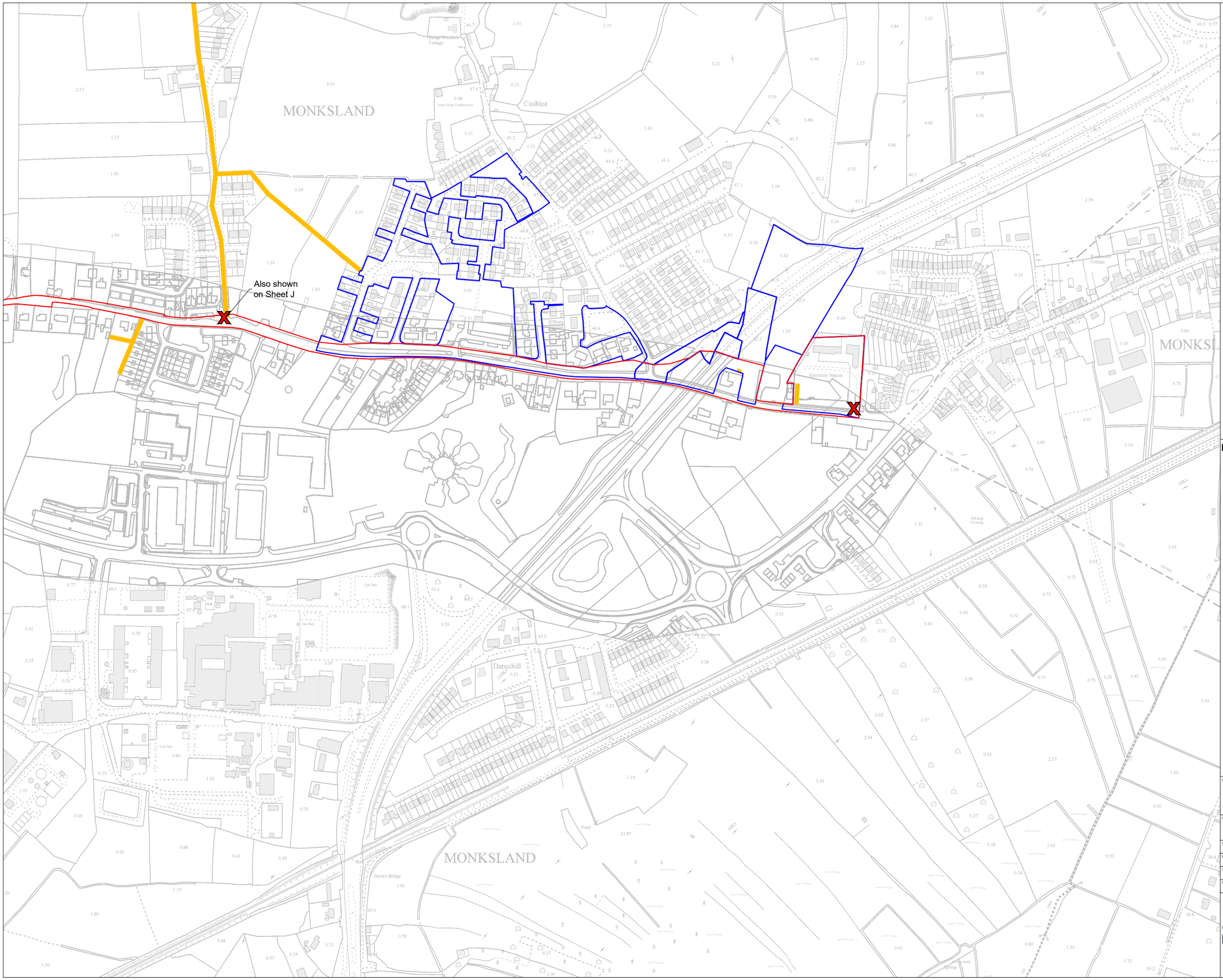

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8. Final levels may vary depending on local ground conditions.

Drawing Legend

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

N

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DRAWING TITLE:
Site Location Map Sheet K

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 02K
SCALE: 1:5,000 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Internal Electrical Cabling Trench
- 110kV Cable Route
- IPP Cabling
- N6 HDD
- Joint Bay - 110kV
- Joint Bay Array North
- Joint Bay Array South
- Potential HDD
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Area not Forming Part of Application
- Spoil Storage
- Cut
- Fill

N

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

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 03
SCALE: 1:25,000 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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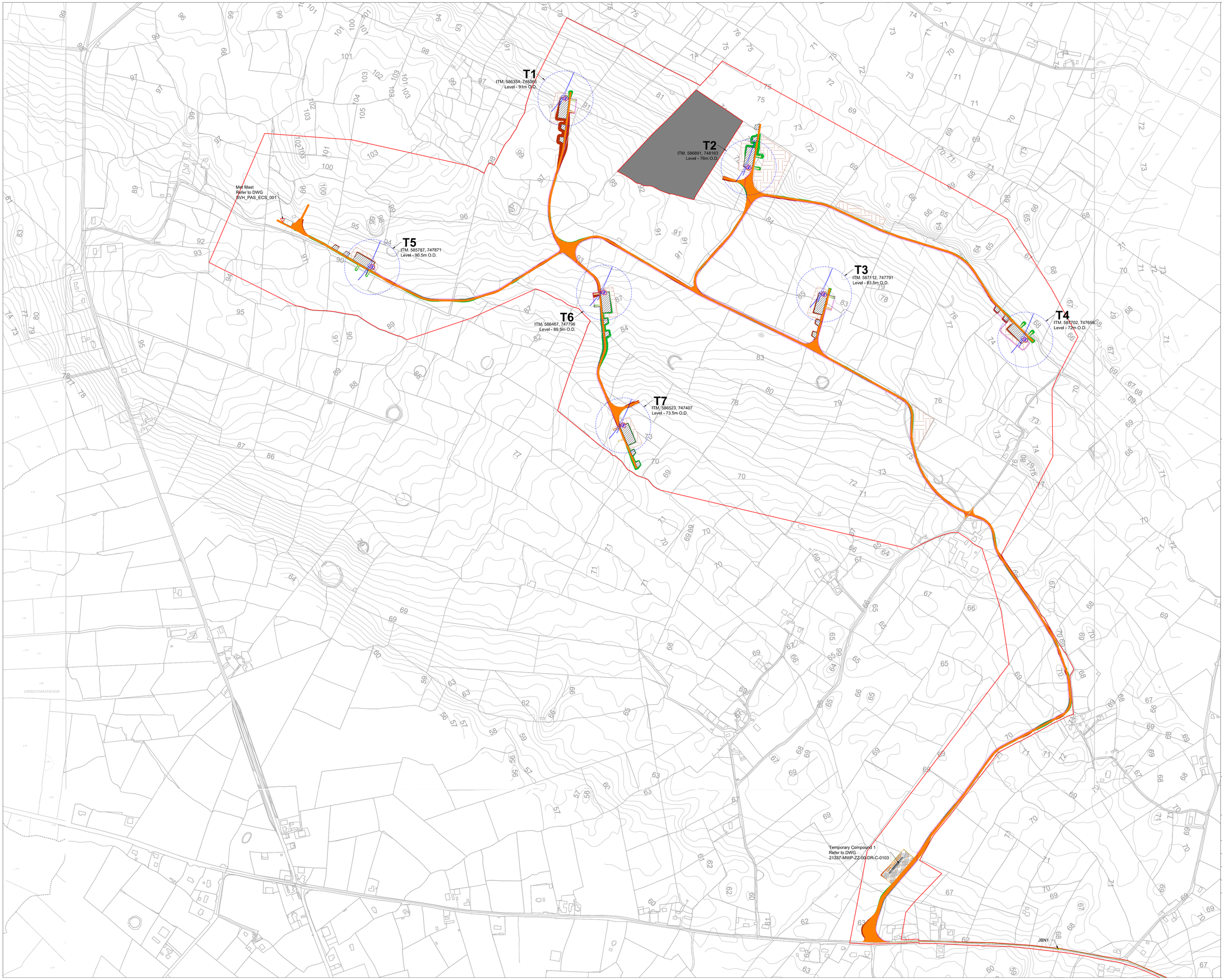

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- IPP Cabling
- Joint Bay Array North
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill
- Area not Forming Part of Application

N

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DRAWING TITLE:

Site Layout Sheet 1 of 6

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 04
SCALE: 1:5,000 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

JBN1

JBN2
WC 1 - BALLYGLASS RIVER
Refer to DWG -
60634578-ACM-DR-CE-041

JBN3

JBS1

JBS2

JBN4

T15
ITM. 589367, 744490
Level - 78.5m O.D.

Temporary Compound 2
Refer to DWG
21337-MWP-ZZ-00-DR-C-0103

T14
ITM. 588861, 744153
Level - 73m O.D.

T13
ITM. 588836, 743739
Level - 87.5m O.D.

T10
ITM. 587896, 743644
Level - 71.5m O.D.

T11
ITM. 588338, 743476
Level - 87.5m O.D.

T8
ITM. 587538, 743028
Level - 71.5m O.D.

T12
ITM. 588175, 742949
Level - 81.5m O.D.

T9
ITM. 588273, 742498
Level - 98.5m O.D.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Internal Electrical Cabling Trench
- IPP Cabling
- Joint Bay Array North
- Joint Bay Array South
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

N

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DRAWING TITLE:
Site Layout Sheet 2 of 6

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 05
SCALE: 1:5,000 @ A1	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Internal Electrical Cabling Trench
- 110kV Cable Route
- IPP Cabling
- Joint Bay - 110kV
- Joint Bay Array North
- Joint Bay Array South
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

N

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JB 02 IN ROAD OPTION
JB 02 IN ROAD
JB 02 OFF ROAD
JB 02 OFF ROAD OPTION
JB 03 IN ROAD
JB 04 IN ROAD
JBS3
JBN5
JBS4
JBN6
JBS5
JBN7

Substation
Refer to DWG
60634578-ACM-DR-CE-001

T16
ITM. 589690, 744119
Level - 88.5m O.D.

T17
ITM. 590521, 744202
Level - 91.5m O.D.

T18
ITM. 590475, 744603
Level - 109.5m O.D.

T19
ITM. 591150, 744389
Level - 96m O.D.

T20
ITM. 591432, 744076
Level - 90.5m O.D.

DRAWING TITLE:
Site Layout Sheet 3 of 6

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 06
SCALE: 1:5,000 @ A1	DATE: 03.06.2022

OS SHEET No. 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV
- Potential HDD

N

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DRAWING TITLE:

Site Layout Sheet 4 of 6

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.:	DRAWING No.:
190907	190907 - 07
SCALE:	DATE:
1:5,000 @ A1	03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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JB 12
OFF ROAD OPTION

JB 12
IN ROAD OPTION

JB 13
IN ROAD OPTION

JB 13
OFF ROAD OPTION

JB 14
OFF ROAD OPTION

JB 14
IN ROAD OPTION

WC 4 - CULVERT

JB 15
OFF ROAD OPTION

JB 15
IN ROAD OPTION

JB 16 IN ROAD

WC 5 - CROSS RIVER
Refer to DWG
60634578-ACM-DR-CE-044

JB 17 IN ROAD

DERRYNASEE

CARTRON
(ED Athlone West Rural)

CLOONAKILLE

CLOONGOWNA

BELLANAMULLIA

CUILGLASS

CULLEEN

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8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV
- Potential HDD

N

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DRAWING TITLE:
Site Layout Sheet 5 of 6

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 08
SCALE: 1:5,000 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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8. Final levels may vary depending on local ground conditions.

JB 15
OFF ROAD OPTION

JB 15
IN ROAD OPTION

JB 16 IN ROAD

WC 5 - CROSS RIVER
Refer to DWG
60634578-ACM-DR-CE-044

JB 17 IN ROAD

JB 18 IN ROAD

JB 19 IN ROAD

N6 HDD Refer to DWG
60634578-ACM-DR-CE-045

110kV Substation Bay
Refer to DWG
60634578-ACM-DR-CE-006

JB 20 OFF ROAD

CARTRON
(ED Athlone West Rural)

BELLANAMULLIA

CUILGLASS

CUILEEN

ARDAGAWNA

CRANNAGH BEG

MONKSLAND

Larkfield Bog

Cushlea Bog

Cushlea

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV
- N6 HDD

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N

DRAWING TITLE:
Site Layout Sheet 6 of 6

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 09
SCALE: 1:5,000 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Internal Electrical Cabling Trench
- 110kV Cable Route
- IPP Cabling
- N6 HDD
- Joint Bay - 110kV
- Joint Bay Array North
- Joint Bay Array South
- Potential HDD
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Area not Forming Part of Application
- Spoil Storage
- Cut
- Fill

N

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DRAWING TITLE:
Site Layout Key Plan (1:2,500)

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 10
SCALE: 1:25,000 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

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N

DRAWING TITLE:
Site Layout Plan Sheet 1 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 11
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill
- Area not Forming Part of Application

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N

T2
ITM. 586891, 748163
Level - 76m O.D.

T3
ITM. 587112, 747791
Level - 83.5m O.D.

T4
ITM. 587702, 747658
Level - 72m O.D.

T7
ITM. 586523, 747407
Level - 73.5m O.D.

Refer to DWG 190907 - 31

Refer to DWG 190907 - 32

Refer to DWG 190907 - 35

Refer to DWG 21337-MWP-ZZ-00-DR-C-1400

DRAWING TITLE:
Site Layout Plan Sheet 2 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 12
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- IPP Cabling
- Joint Bay Array North
- Cut
- Fill

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N

Temporary Compound 1
Refer to DWG
21337-MWP-ZZ-00-DR-C-0103

82350
54100
77150
80350
71600
37900
118500
6250
1900
JBN1

DRAWING TITLE:
Site Layout Plan Sheet 3 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 13
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- IPP Cabling
- Joint Bay Array North
- Cut
- Fill

N

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DRAWING TITLE:

Site Layout Sheet 4 of 18

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.:	DRAWING No.:
190907	190907 - 14
SCALE:	DATE:
1:2,500 @ A1	03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

WC 1 - BALLYGLASS RIVER
Refer to DWG
60634578-ACM-DR-CE-041

JBN3
JBS1
JBS2
JBN4

T15
ITM. 589367, 744490
Level= 78.5m O.D.
Refer to DWG
190907 - 43

T14
ITM. 588861, 744153
Level = 73m O.D.
Refer to DWG
190907 - 42

Temporary Compound 2
Refer to DWG
21337-MWP-ZZ-00-DR-C-0103

Refer to DWG
21337-MWP-ZZ-00-DR-C-1401

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Internal Electrical Cabling Trench
- IPP Cabling
- Joint Bay Array North
- Joint Bay Array South
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

N

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DRAWING TITLE:
Site Layout Sheet 5 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 15
SCALE: 1:2,500 @ A1	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

T10
ITM. 587895, 743644
Level - 71.5m O.D.

Refer to DWG 190907 - 38

T11
ITM. 588338, 743478
Level - 87.5m O.D.

Refer to DWG 190907 - 39

T8
ITM. 587538, 743028
Level - 71.5m O.D.

Refer to DWG 190907 - 36

T12
ITM. 588175, 742949
Level - 81.5m O.D.

Refer to DWG 190907 - 40

T9
ITM. 588273, 742496
Level - 98.5m O.D.

Refer to DWG 190907 - 37

Milltown

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

N

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DRAWING TITLE:
Site Layout Sheet 6 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 16
SCALE: 1:2,500 @ A1	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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Refer to DWG
190907 - 41

T13
ITM: 588836, 743739
Level - 87.5m O.D.

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

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DRAWING TITLE:
Site Layout Sheet 7 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 17
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- 110kV Cable Route
- IPP Cabling
- Joint Bay - 110kV
- Joint Bay Array North
- Joint Bay Array South
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

N

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DRAWING TITLE:

Site Layout Plan Sheet 8 of 18

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 18
SCALE: 1:2,500 @ A1	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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JBS3
JBN5
JBS4
JBN6
JBS5
JBN7
JB 02 IN ROAD OPTION
JB 02 IN ROAD
JB 02 OFF ROAD
JB 02 OFF ROAD OPTION
41100
122750
125900
112450
139450
92900
Substation Refer to DWG 60634578-ACM-DR-CE-001
Refer to DWG 21337-MWP-ZZ-00-DR-C-1402
118850
T18
ITM. 590475, 744603
Level - 109.5m O.D.
90900
Refer to DWG 190907 - 46
297250
225600
195800
112850
T19
ITM. 591150, 744389
Level - 96m O.D.
Refer to DWG 190907 - 47
Refer to DWG 21337-MWP-ZZ-00-DR-C-1401
152350

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV

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DRAWING TITLE:

Site Layout Plan Sheet 9 of 18

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 19
SCALE: 1:2,500 @ A1	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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Refer to DWG
21337-MWP-ZZ-00-DR-C-1401

Refer to DWG
190907 - 44

T16
ITM. 589690, 744119
Level - 88.5m O.D.

T17
ITM. 590821, 744202
Level - 91.5m O.D.

Refer to DWG
190907 - 45

CLOONACALTRY

SKEAVALLY

FEACLE

Feacle Lough

Skeavally Houses
(in Ruins)

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Internal Electrical Cabling Trench
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

N

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DRAWING TITLE:
Site Layout Plan Sheet 10 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 20
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Internal Electrical Cabling Trench
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Spoil Storage
- Cut
- Fill

N

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DRAWING TITLE:

Site Layout Plan Sheet 11 of 18

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 21
SCALE: 1:2,500 @ A1	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV
- Potential HDD

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N

JB 05 IN ROAD

JB 06 IN ROAD

JB 07 IN ROAD

WC 2 - CROSS RIVER
Refer to DWG
60634578-ACM-DR-CE-042

JB 08
OFF ROAD OPTION

JB 08
IN ROAD OPTION

School

Baths

St. Bridget's Well

POLLALAHER

DRAWING TITLE:

Site Layout Plan Sheet 12 of 18

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 22
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route

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DRAWING TITLE:
Site Layout Plan Sheet 13 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 23
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV

N

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DRAWING TITLE:

Site Layout Plan Sheet 14 of 18

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 24
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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

DERRYNASEE
CLOONAKILLE
JB 12
OFF ROAD OPTION
JB 12
IN ROAD OPTION
JB 13
IN ROAD OPTION
JB 13
OFF ROAD OPTION
JB 14
OFF ROAD OPTION
JB 14
IN ROAD OPTION
2050
2100
11250
7400
5850
9150
5350
11250
1.18
0.61
0.32
0.64
0.97
2.01
1.91
2.31
1.14
0.65
0.73
2.36
0.27
0.60
0.49
1.03
0.62
0.50
0.36
3.67
2.34
2.21
2.19
1.18
0.27
1.78
0.70
4.91
1.08
0.68
1.50
4.12
2.77
2.14
1.63
0.83
0.53
0.98
2.53
1.43
0.44
1.42
4.63
2.33
1.65
1.05
0.33
1.71
0.22
0.84
2.53
4.21
9.84
10.49
3.36
10.96
0.50
1.44
6.39
0.95
3.05
0.61
2.91
6.27
1.23
0.78
1.40
5.63
4.02
2.20
2.23
2.42
1.56
19.46
1.28
1.18
0.61
0.40
2.90
1.05
0.97
0.28
0.30
0.40
0.75
0.22
1.61
0.24
1.28
0.66
0.85
0.33
0.21
0.44
1.64
0.25
0.21
1.62
0.38
0.28
1.01
0.40
0.97
1.01
0.34
1.06
0.49
1.19
0.24
1.20
4.15
2.22
2.19
2.59
0.44
0.62
0.36
0.84
0.28
0.40
0.30
0.22
0.24
0.22
0.40
0.27
0.24
0.22
0.24
0.22
0.24
0.22

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route

N

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DRAWING TITLE:

Site Layout Plan Sheet 16 of 18

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 26
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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JB 15
OFF ROAD OPTION

JB 15
IN ROAD OPTION

JB 16 IN ROAD

WC 5 - CROSS RIVER
Refer to DWG
60634578-ACM-DR-CE-044

JB 17 IN ROAD

9200

11150

7550

12560

6200

8400

1550

BELLANAMULLIA

CUILGLASS

CUILLEEN

Cross River

Long Inland

Area Under Development

School

Burnbrook

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV
- Potential HDD

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N

DRAWING TITLE:
Site Layout Plan Sheet 17 of 18

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 27
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- 110kV Cable Route
- Joint Bay - 110kV
- Potential HDD

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N

DRAWING TITLE:

Site Layout Plan Sheet 18 of 18

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 28
SCALE: 1:2,500 @ A1	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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Website: www.mkoireland.ie

Refer to DWG 190907 - 49
for Section Detail

T1

T1

15000

Level 91m +

58800

25000

16000

3000

12000

12050

17000

12000

12050

17000

97

97

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 1 Layout

PROJECT TITLE:

**Seven Hills Wind Farm,
Co. Roscommon**

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 29
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill
- Area not Forming Part of Application

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N

12050
17000
12000
74
12050
17000
12000
25000
16000
3000
58800
78
T2
T2
Refer to DWG 190907 - 49
for Section Detail
Level 76m
15000

DRAWING TITLE:

Turbine 2 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 30
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

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DRAWING TITLE:

Turbine 3 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.:	DRAWING No.:
190907	190907 - 31
SCALE:	DATE:
1:500 @ A3	03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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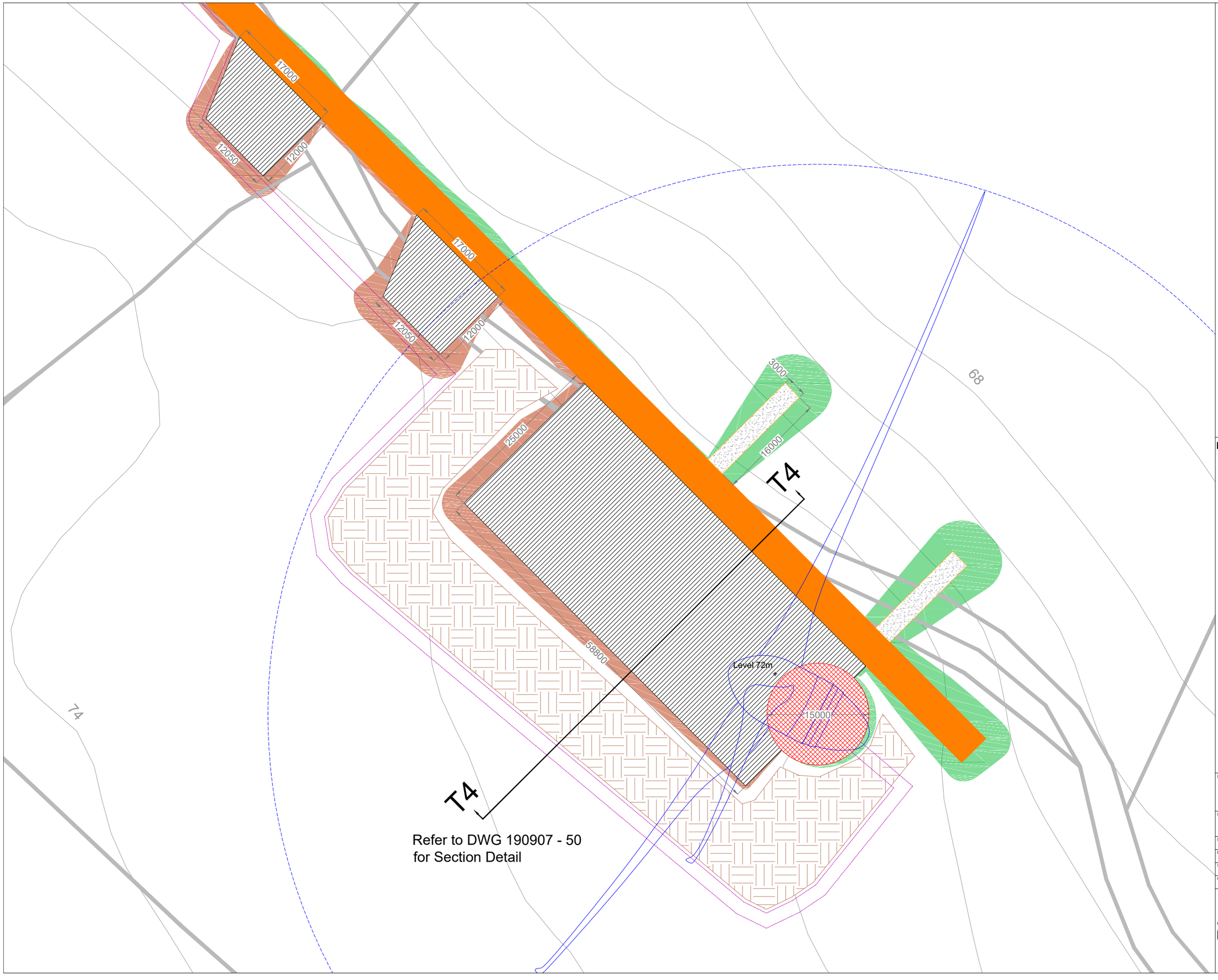

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 4 Layout

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 32
SCALE: 1:500 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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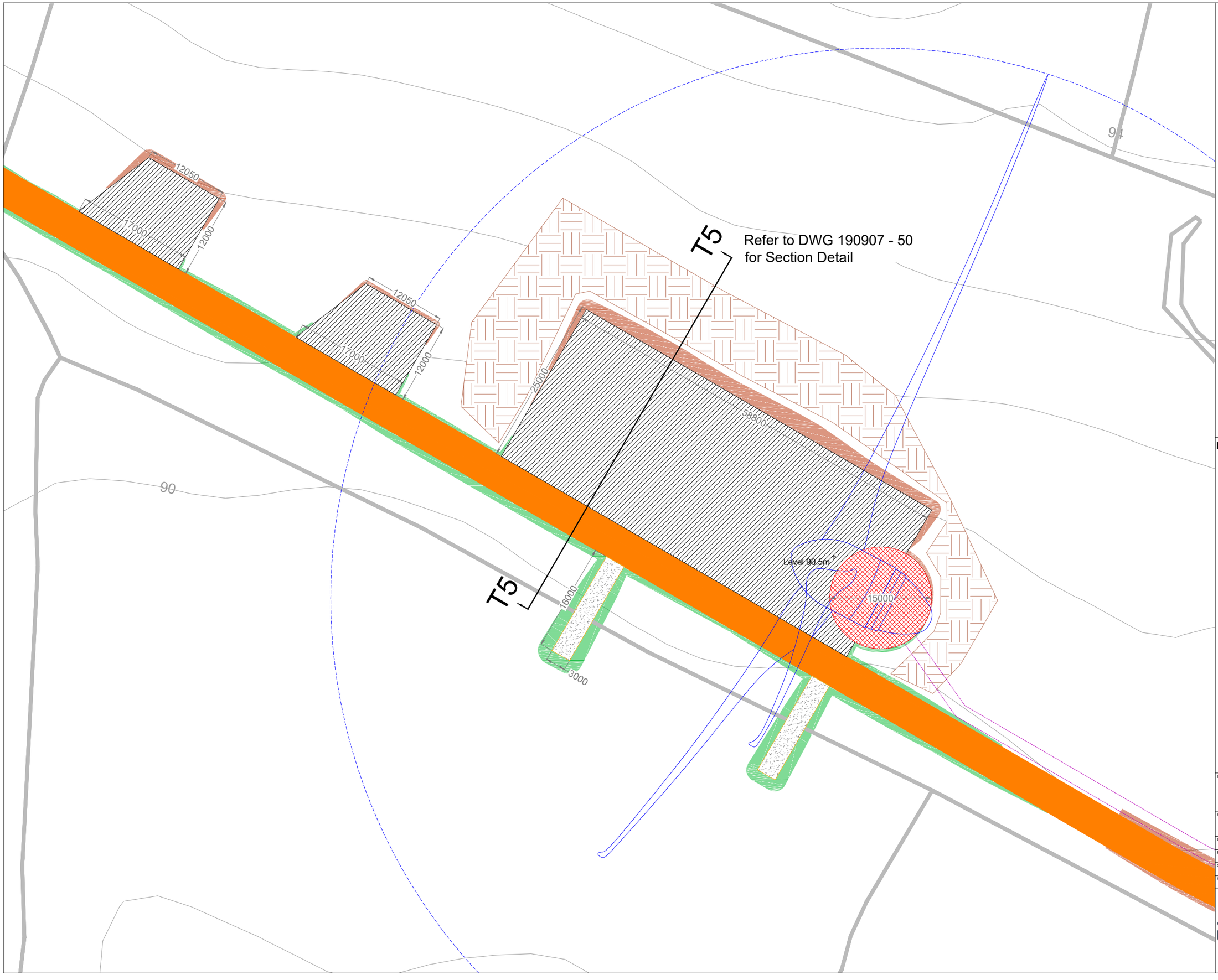

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

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N

DRAWING TITLE:

Turbine 5 Layout

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 33
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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Website: www.mkoireland.ie

T6

Refer to DWG 190907 - 50
for Section Detail

T6

Level 89.5m

15000

3000

16000

58800

25000

12000

12050

17000

12000

12050

17000

39050

33750

87

84

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

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N

DRAWING TITLE:

Turbine 6 Layout

PROJECT TITLE:

**Seven Hills Wind Farm,
Co. Roscommon**

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 34
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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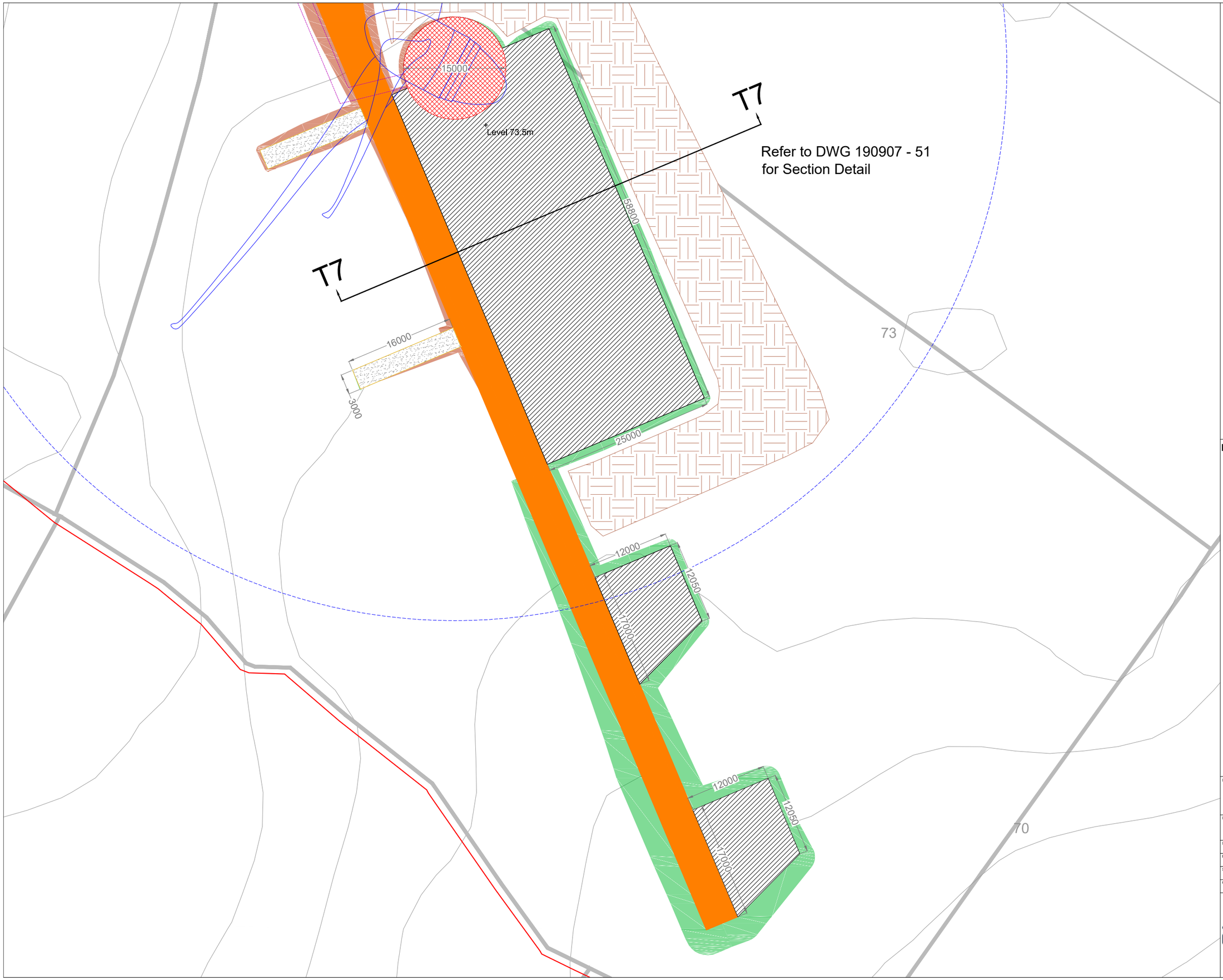

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 7 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 35
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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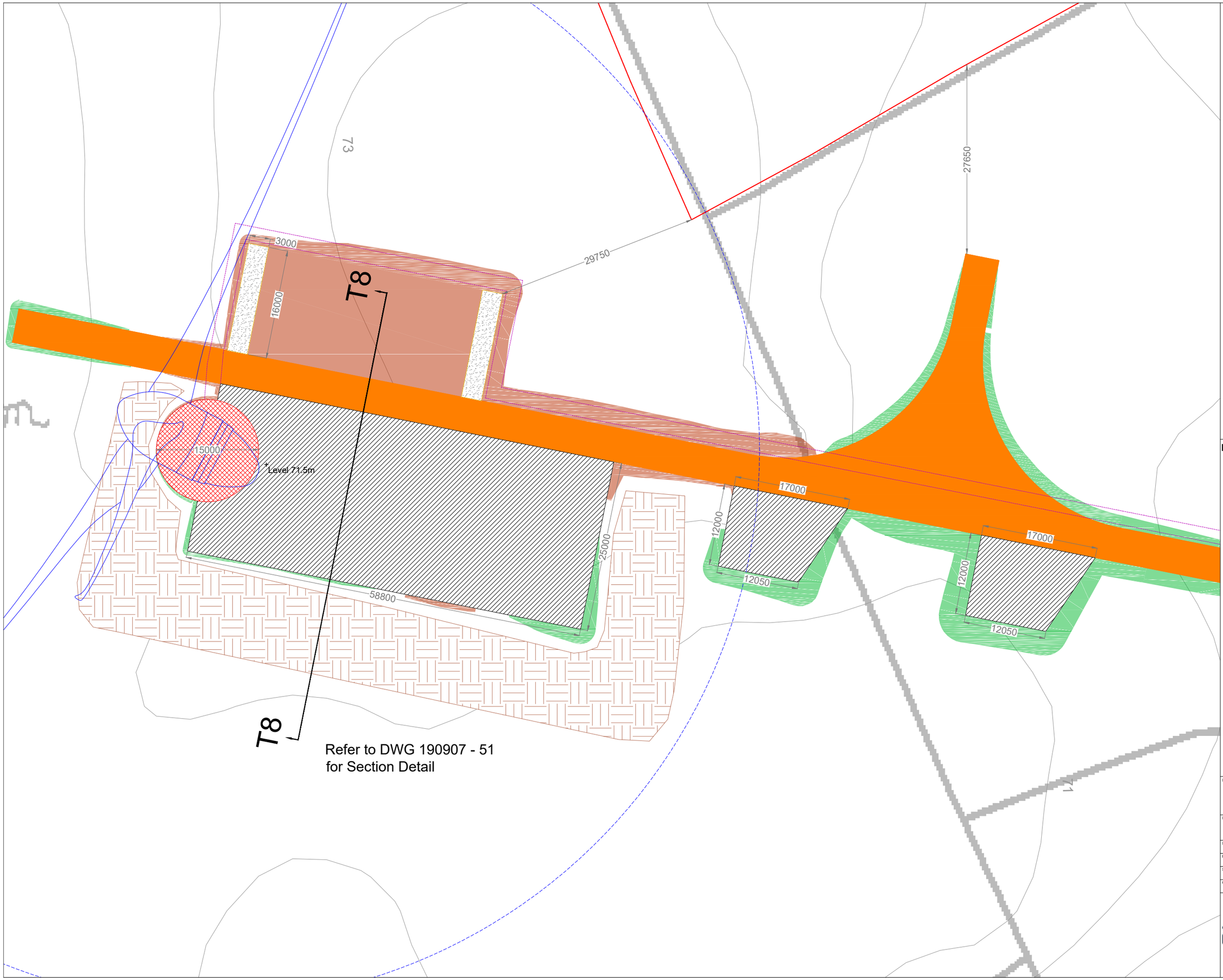
Website: www.mkoireland.ie



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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

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N

DRAWING TITLE:

Turbine 8 Layout

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 36
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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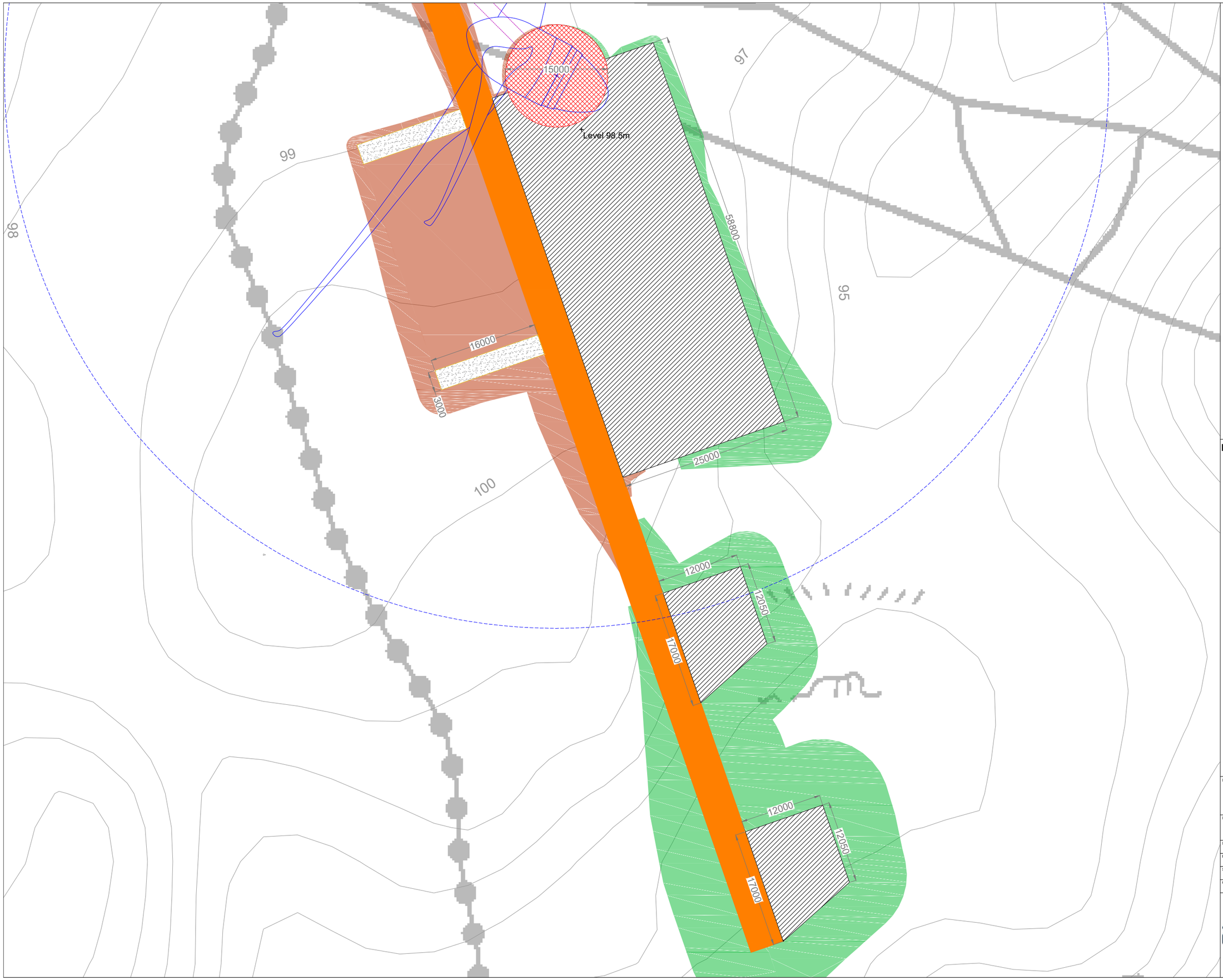

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 9 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 37
SCALE: 1:500 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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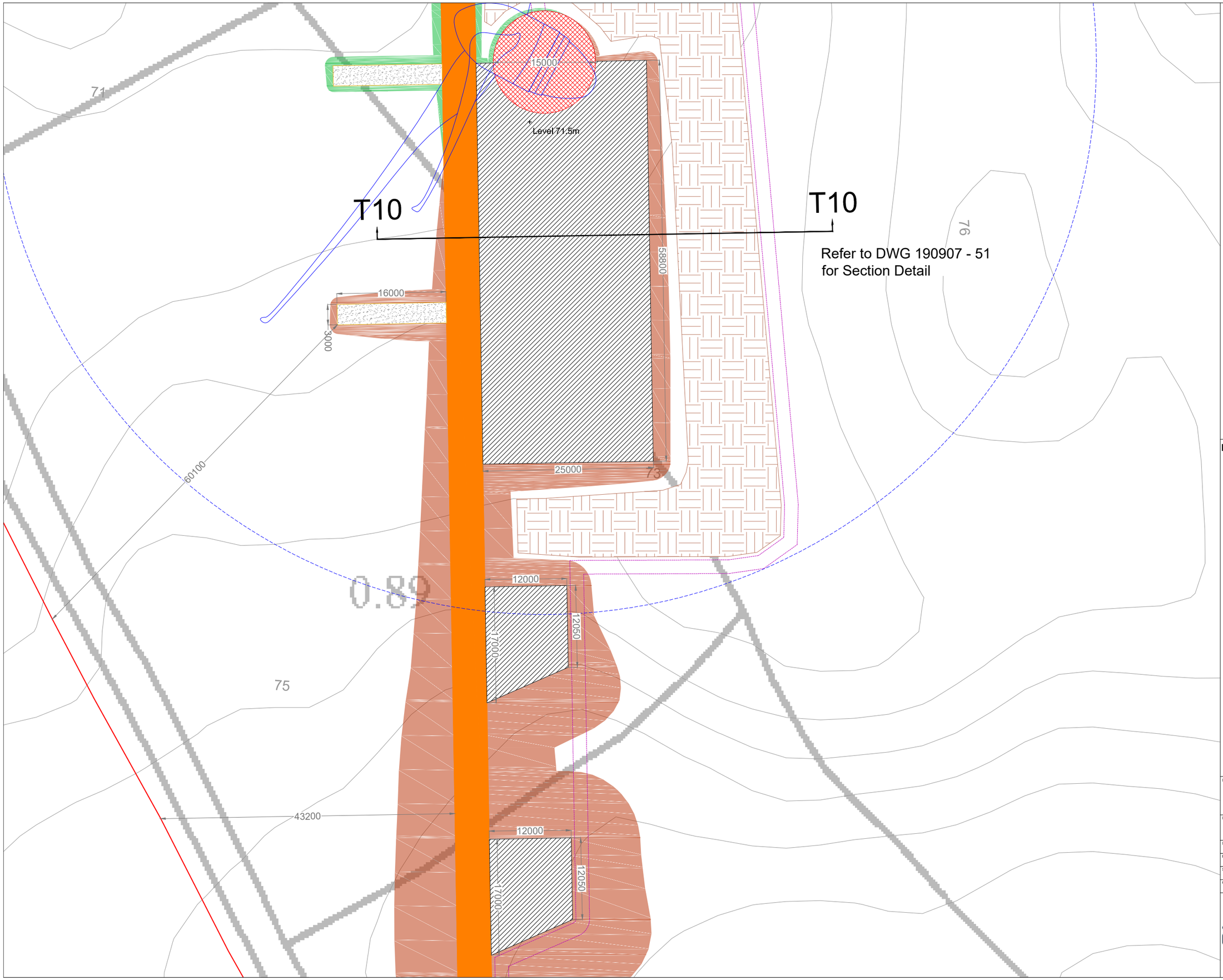
Website: www.mkoireland.ie



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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 10 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 38
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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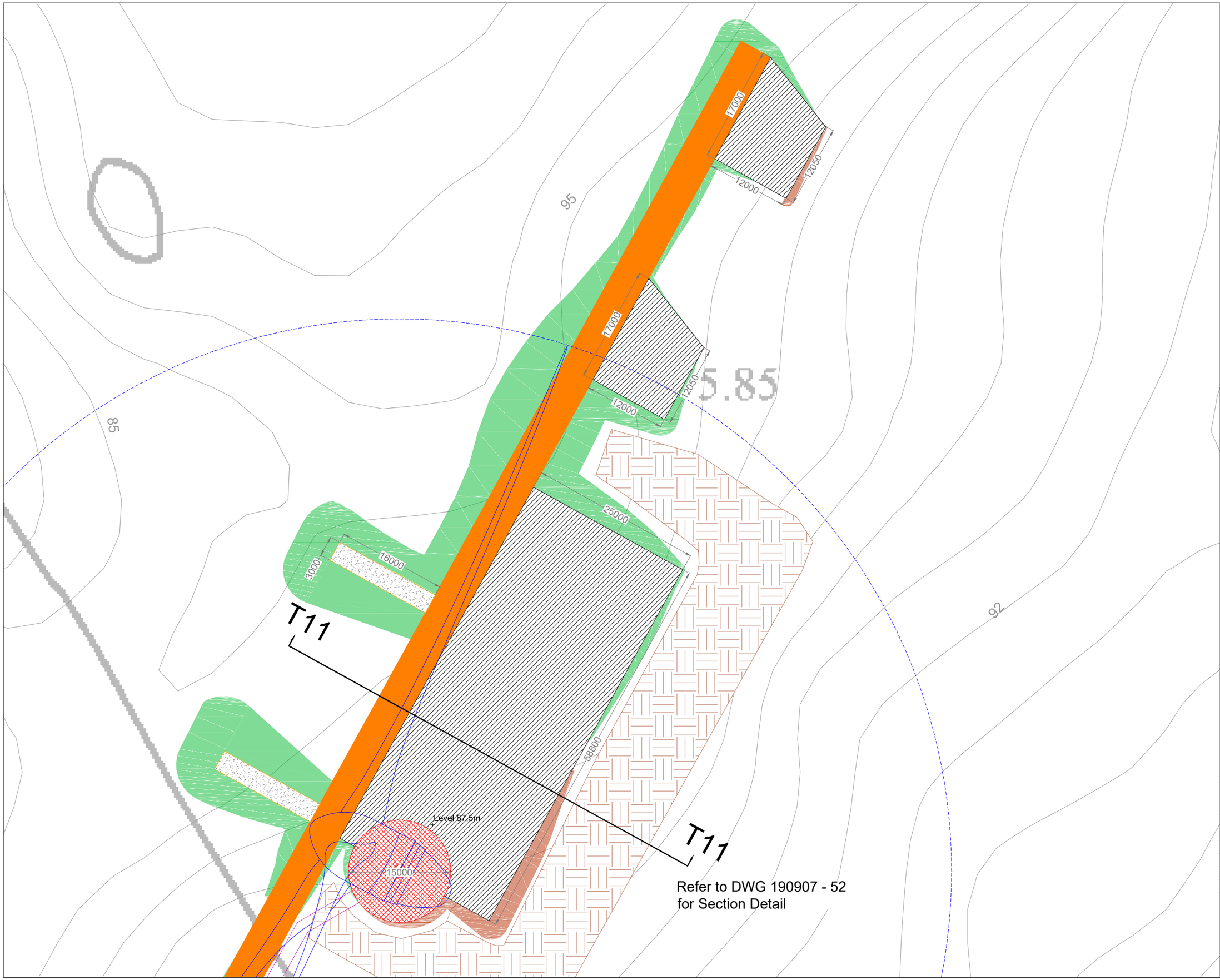

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 11 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 39
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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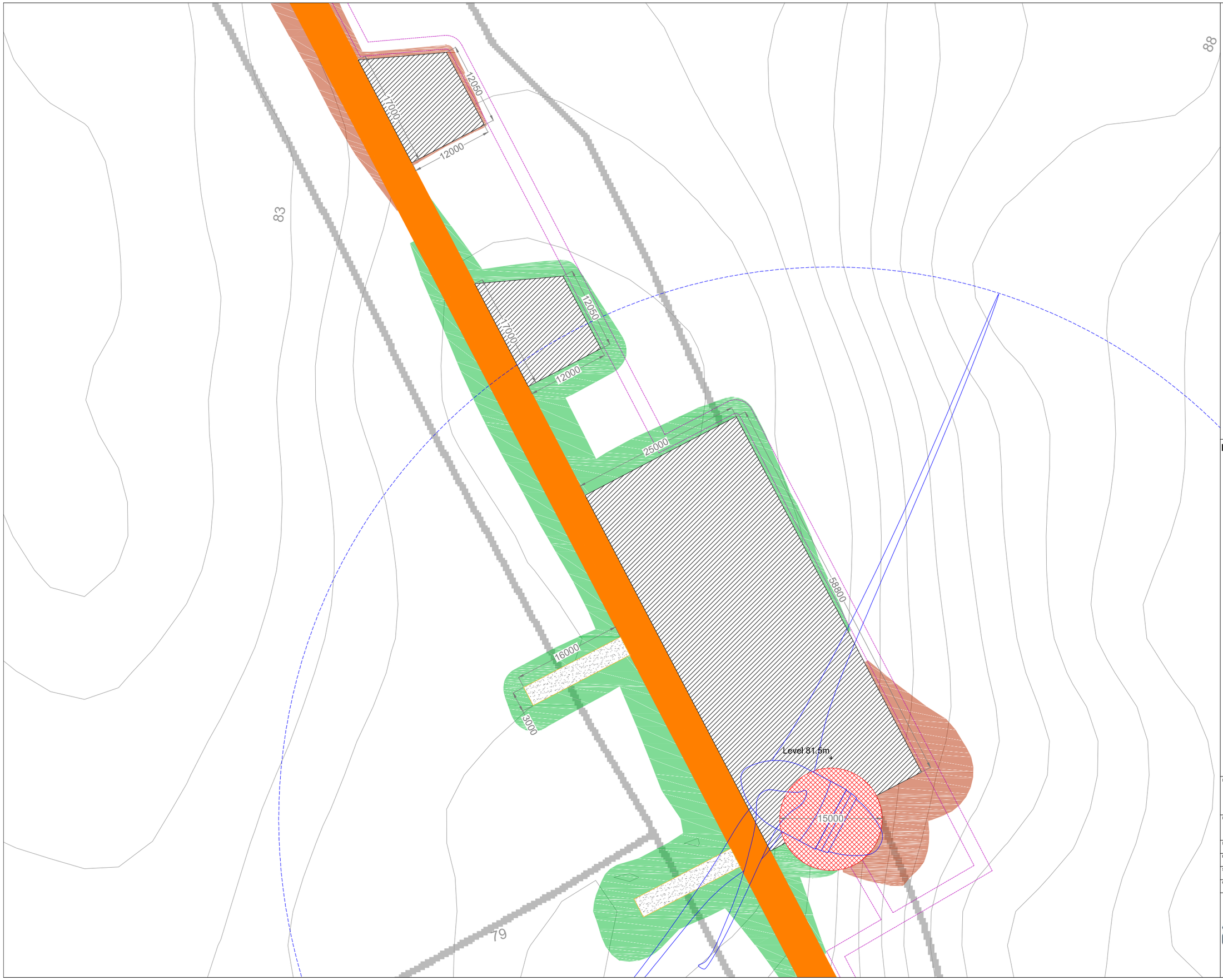

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 12 Layout

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 40
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 13 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 41
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 14 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 42
SCALE: 1:500 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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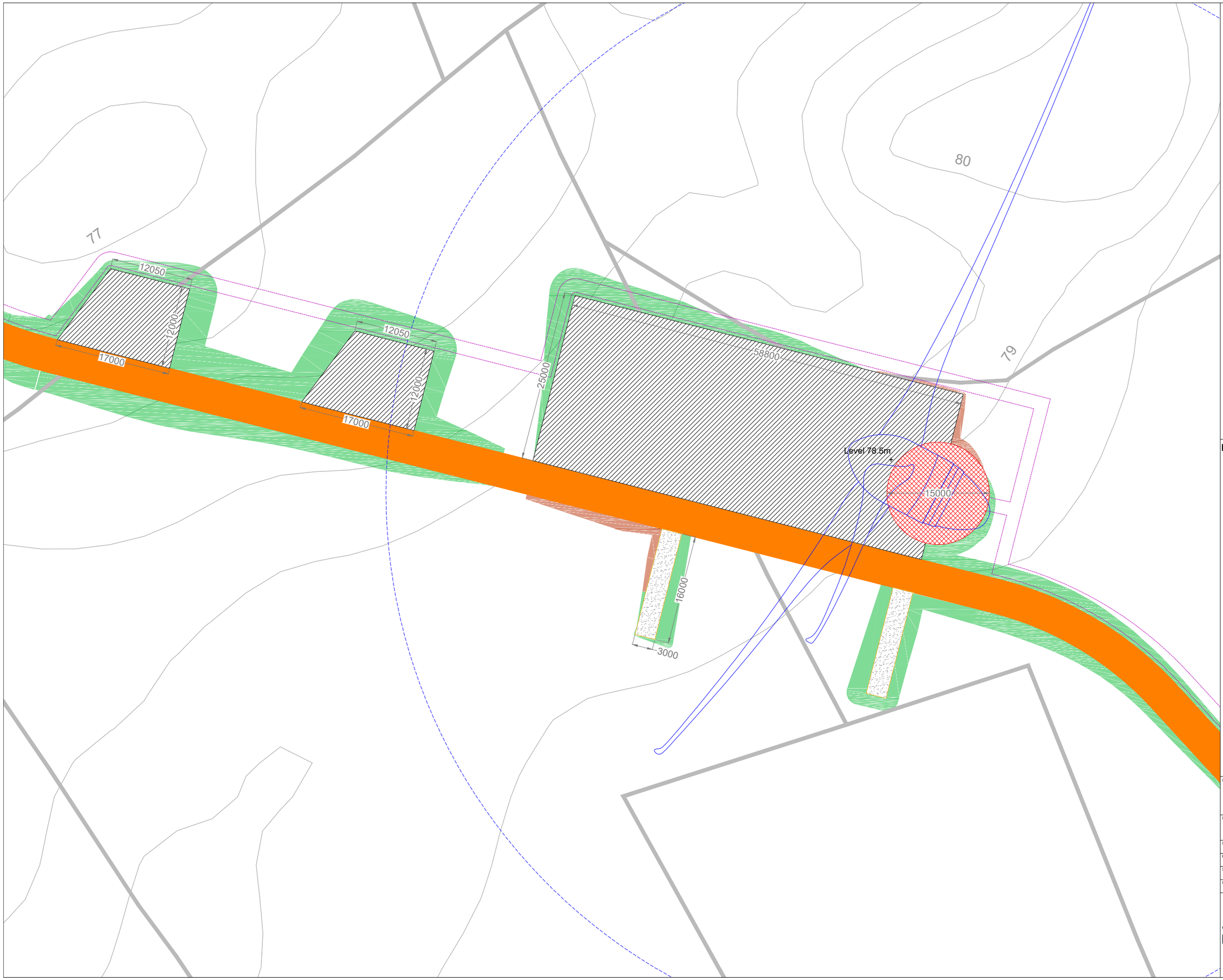

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 15 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.:	DRAWING No.:
190907	190907 - 43
SCALE:	DATE:
1:500 @ A3	03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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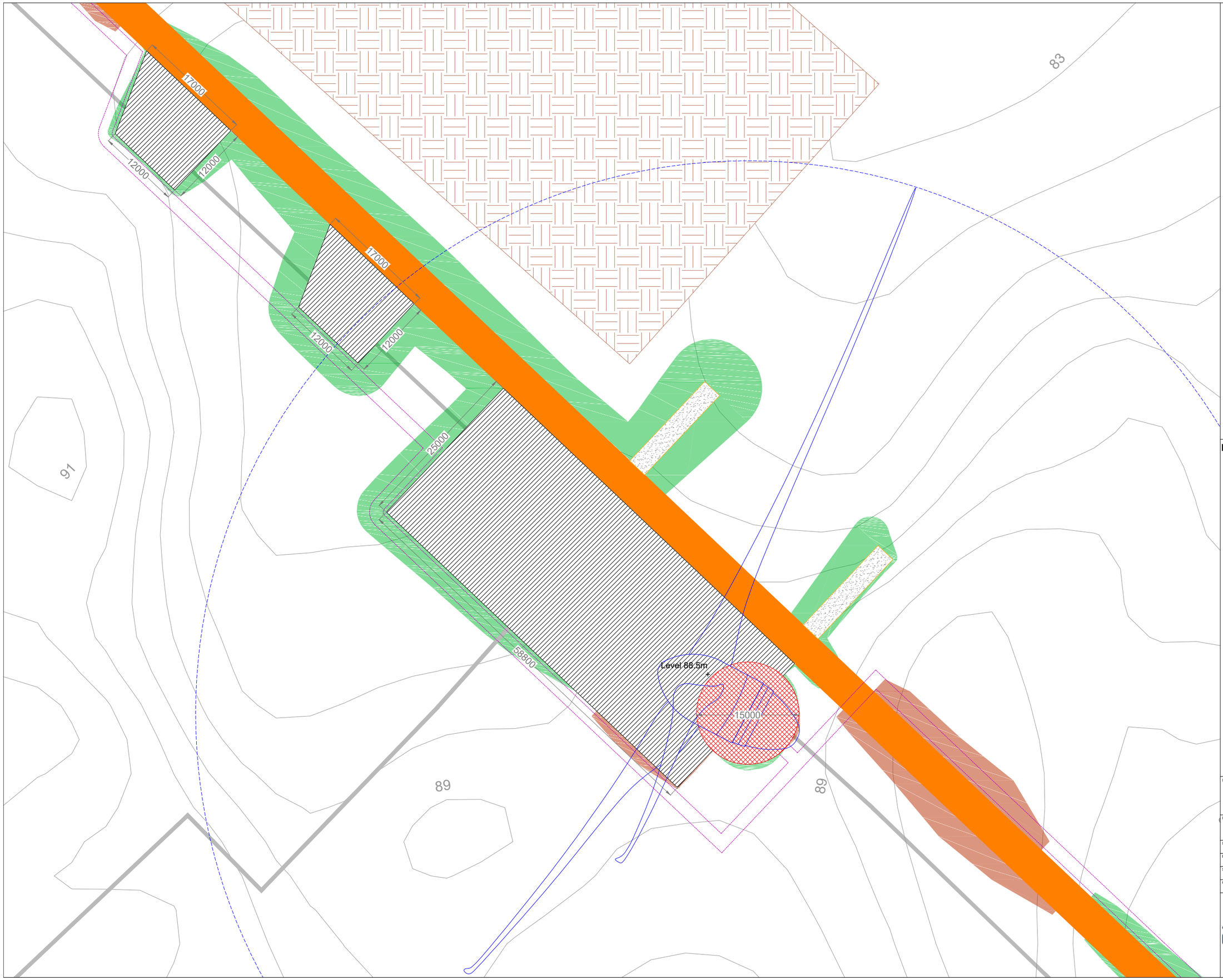

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 16 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 44
SCALE: 1:500 @ A3	DATE: 03.06.2022
OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103	

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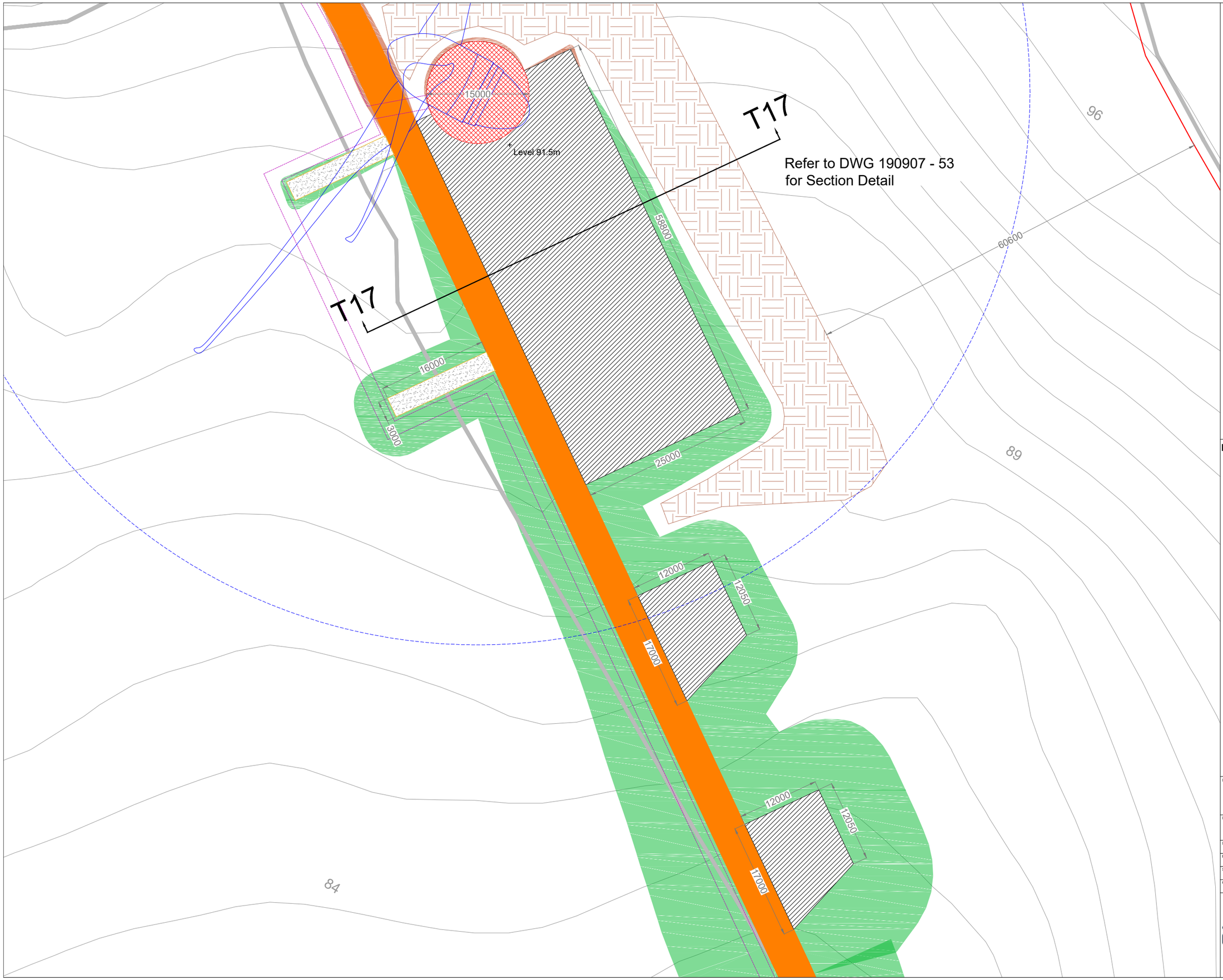

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

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N

DRAWING TITLE:

Turbine 17 Layout

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 45
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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109

110

114

15000

Level 109.5m

58800

35950

25000

16000

3000

12000

12050

17000

12000

12050

14600

17000

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

N

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DRAWING TITLE:

Turbine 18 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 46
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3096, 3100, 3101, 3102, 3103

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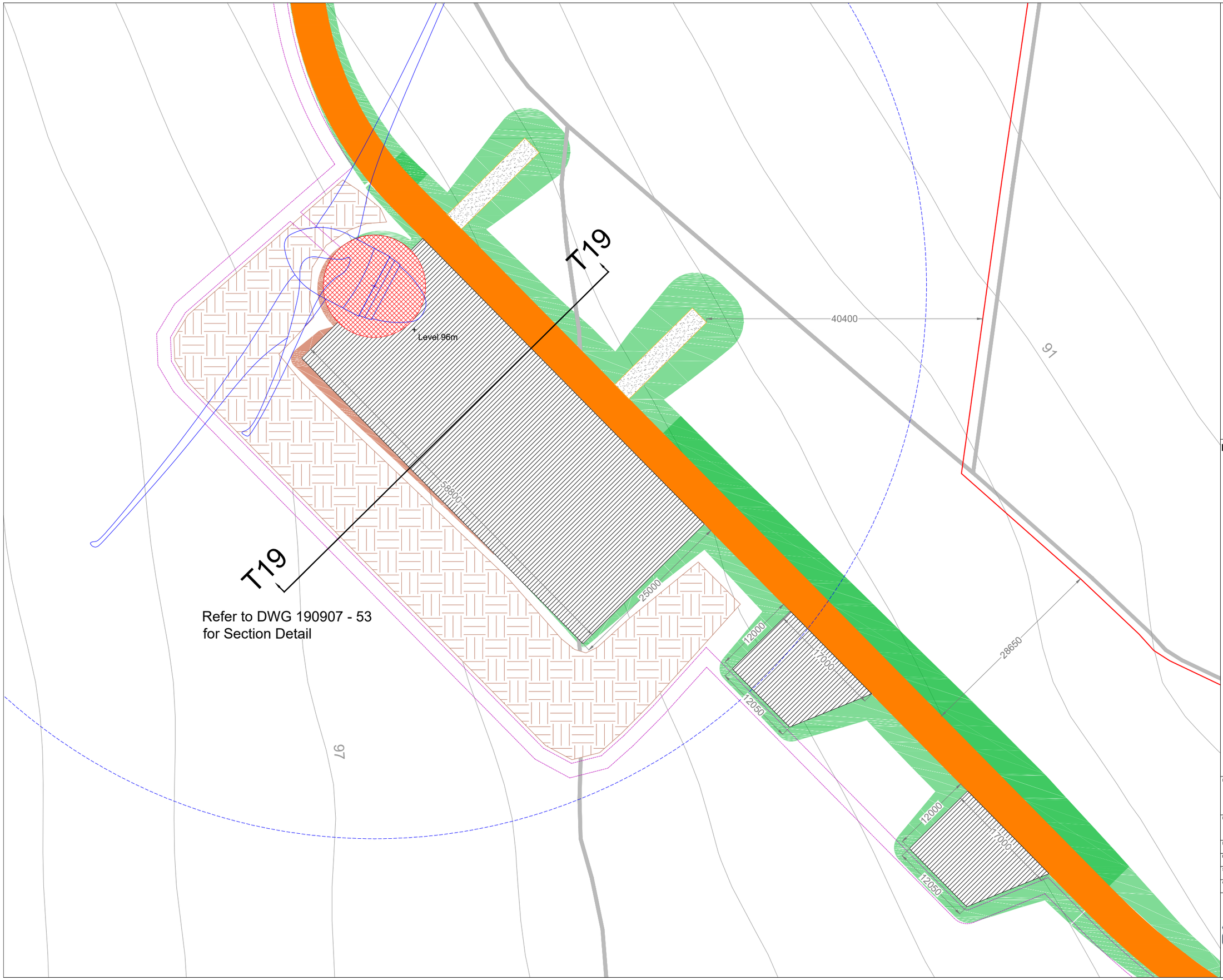

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

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DRAWING TITLE:

Turbine 19 Layout

PROJECT TITLE:

Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.:	DRAWING No.:
190907	190907 - 47
SCALE:	DATE:
1:500 @ A3	03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Proposed Road
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill

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N

17000
12050
12000
17000
12050
12000
25000
58600
40250
16000
3000
15000
Level 90.5m
T20
T20
86
92

Refer to DWG 190907 - 53
for Section Detail

DRAWING TITLE:

Turbine 20 Layout

PROJECT TITLE:
Seven Hills Wind Farm,
Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 48
SCALE: 1:500 @ A3	DATE: 03.06.2022

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3099, 3100, 3101, 3102, 3103

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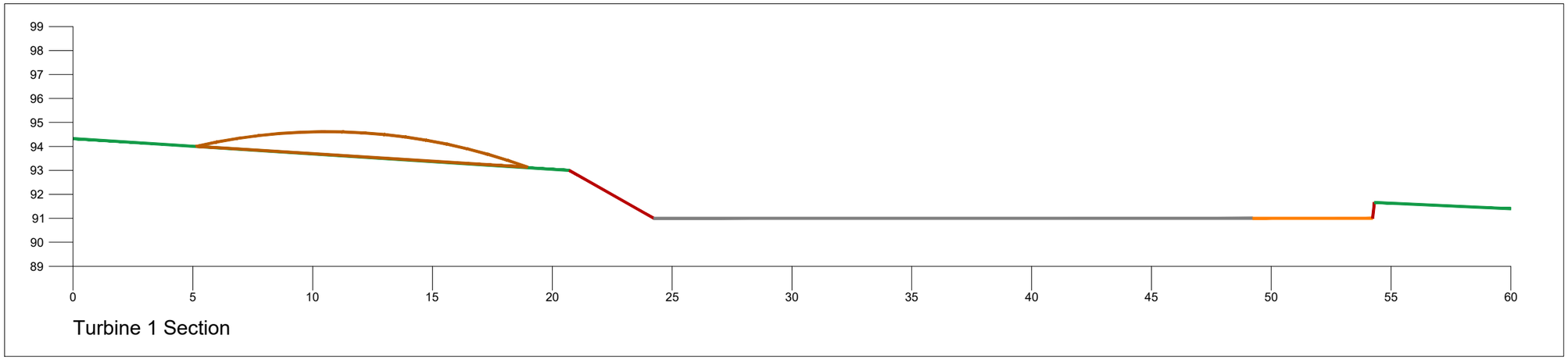
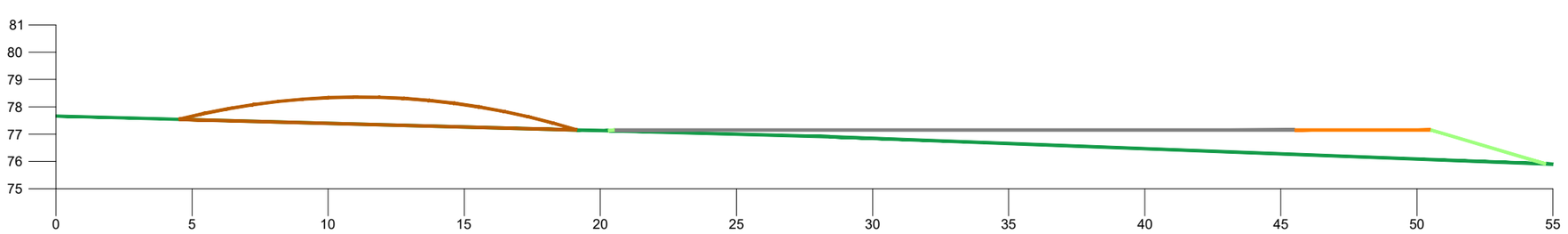
Drawing Legend

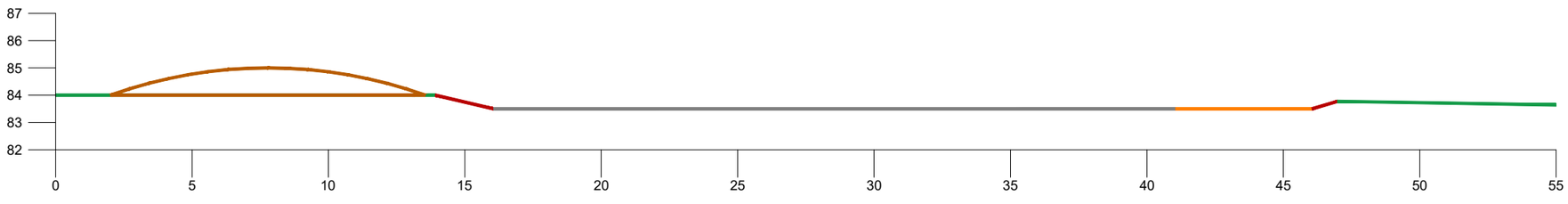
- Existing Ground
- Cut
- Fill
- Hardstanding
- Spoil Storage
- Proposed Road



Turbine 1 Section



Turbine 2 Section



Turbine 3 Section

Note:
All Dimensions in Metres

DRAWING TITLE:
Turbine 1, 2 & 3 Spoil Storage Sections

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 49
SCALE: 1:200 @ A3	DATE: 03.06.2022

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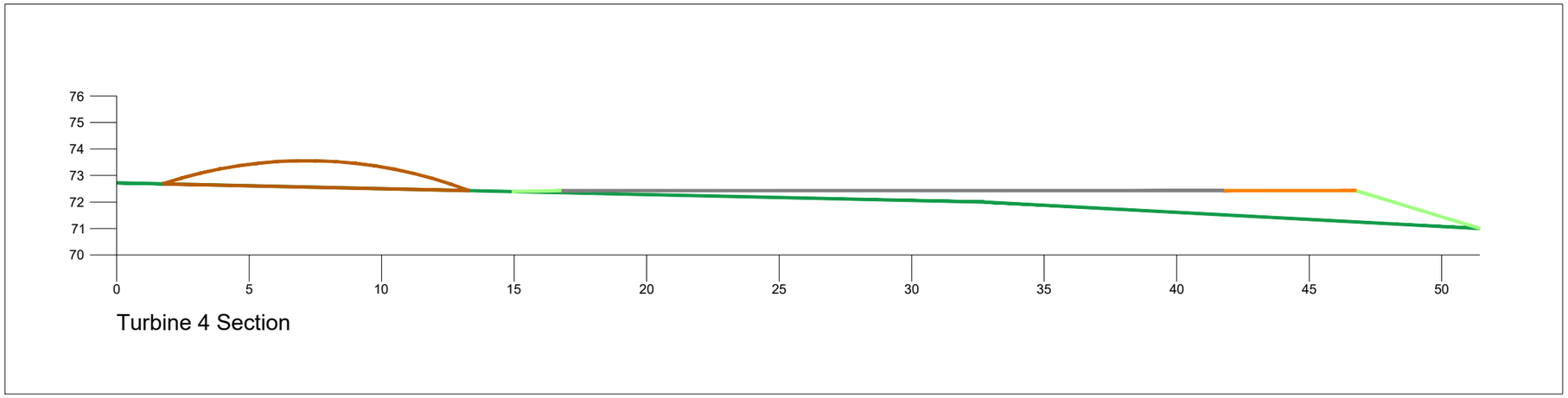
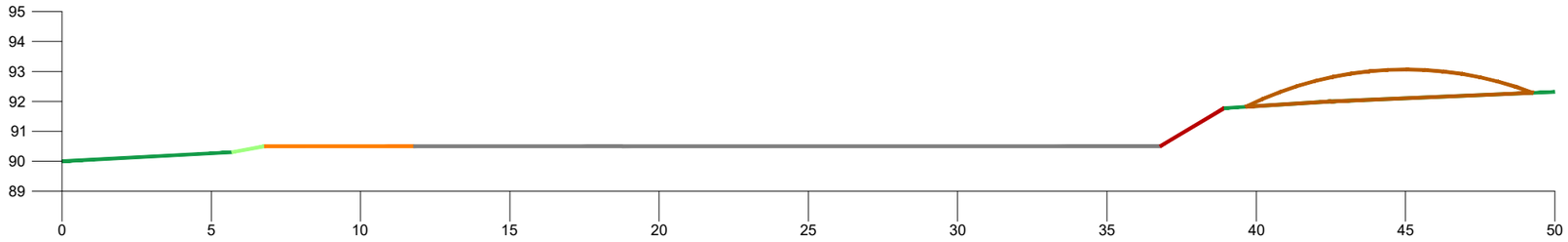
email: info@www.mkoireland.ie
Website: www.mkoireland.ie

Drawing Legend

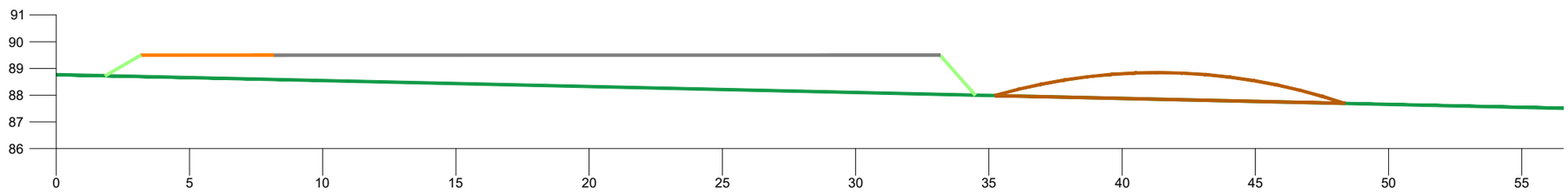
- Existing Ground
- Cut
- Fill
- Hardstanding
- Spoil Storage
- Proposed Road



Turbine 4 Section



Turbine 5 Section



Turbine 6 Section

Note:
All Dimensions in Metres

DRAWING TITLE:
Turbine 4, 5, & 6 Spoil Storage Sections

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 50
SCALE: 1:200 @ A3	DATE: 03.06.2022

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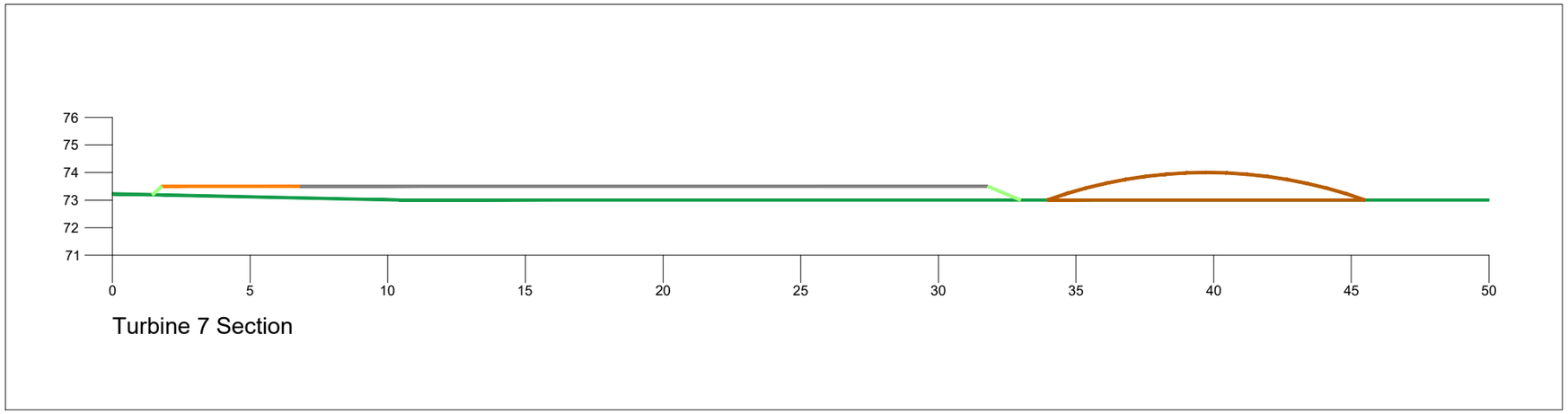
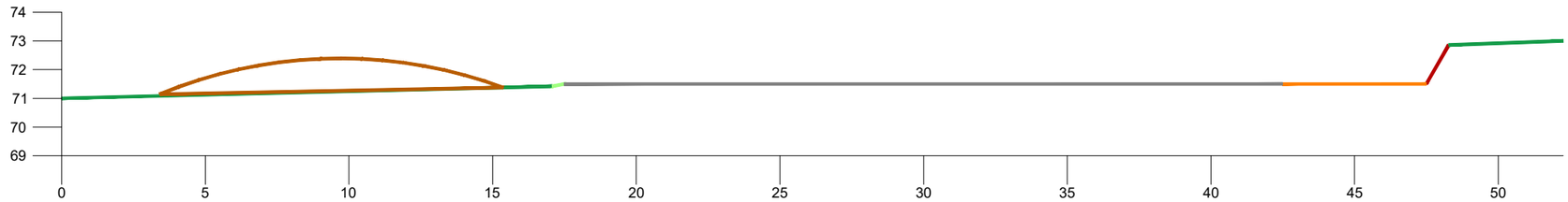
Website: www.mkoireland.ie

Drawing Legend

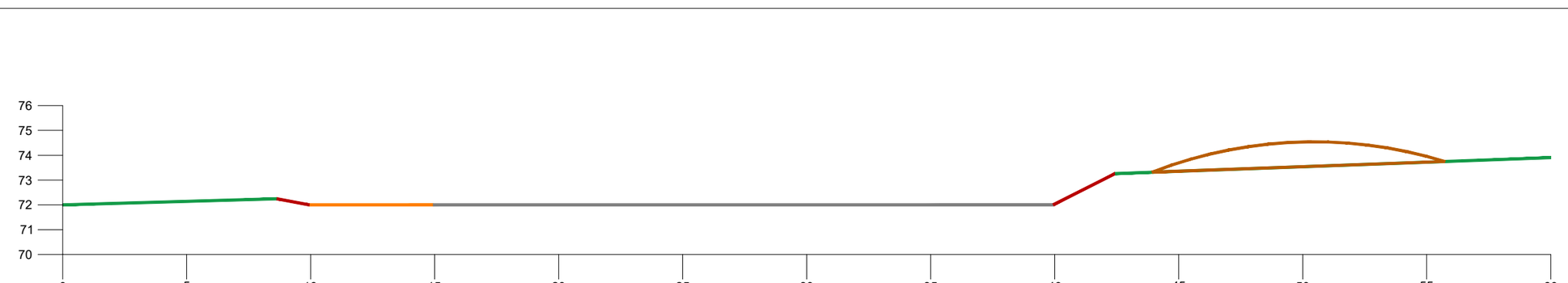
- Existing Ground
- Cut
- Fill
- Hardstanding
- Spoil Storage
- Proposed Road



Turbine 7 Section



Turbine 8 Section



Turbine 10 Section

Note:
All Dimensions in Metres

DRAWING TITLE:
Turbine 7, 8, & 10 Spoil Storage Sections

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 51
SCALE: 1:200 @ A3	DATE: 03.06.2022

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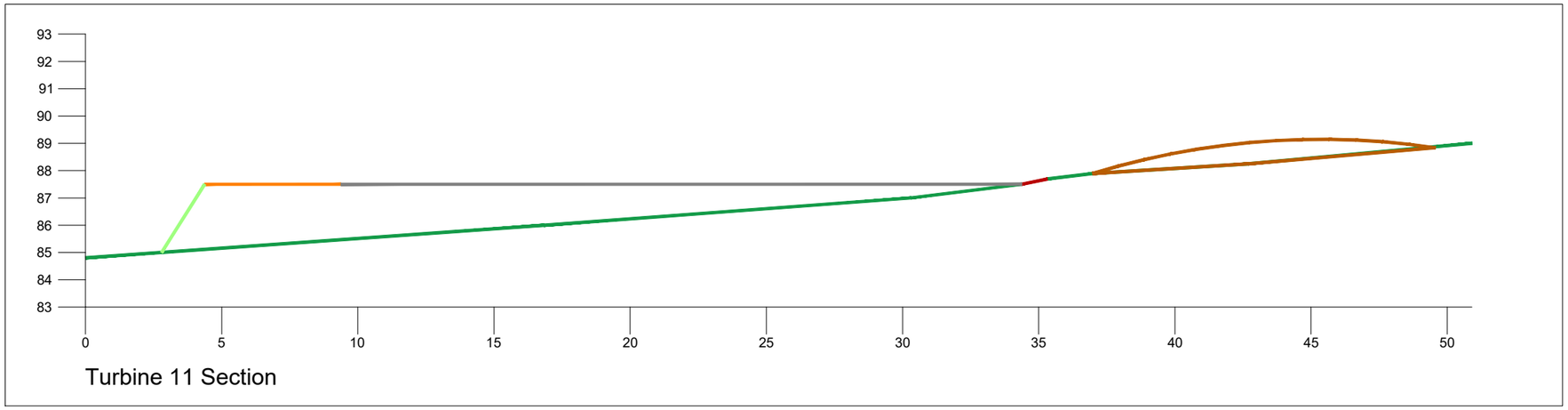
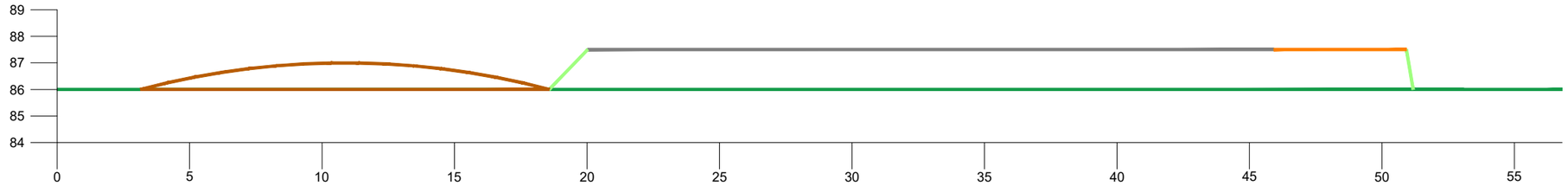
Website: www.mkoireland.ie

Drawing Legend

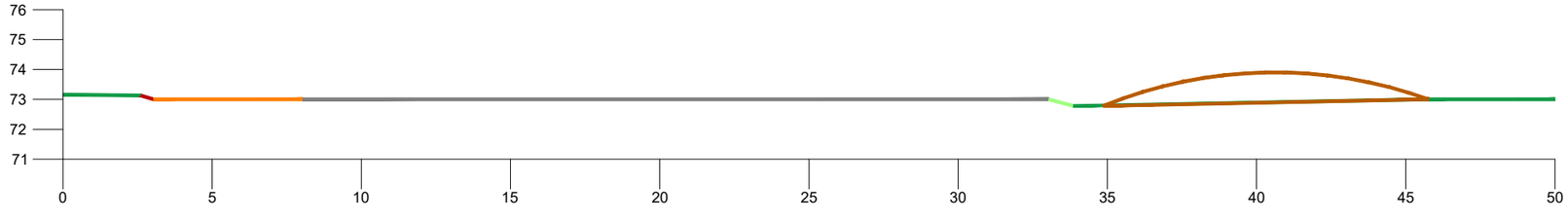
- Existing Ground
- Cut
- Fill
- Hardstanding
- Spoil Storage
- Proposed Road



Turbine 11 Section



Turbine 13 Section



Turbine 14 Section

Note:
All Dimensions in Metres

DRAWING TITLE:
Turbine 11, 13, & 14 Spoil Storage Sections

PROJECT TITLE:
Seven Hills Wind Farm, Co. Roscommon

DRAWING BY:	CHECKED BY:
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 52
SCALE: 1:200 @ A3	DATE: 03.06.2022

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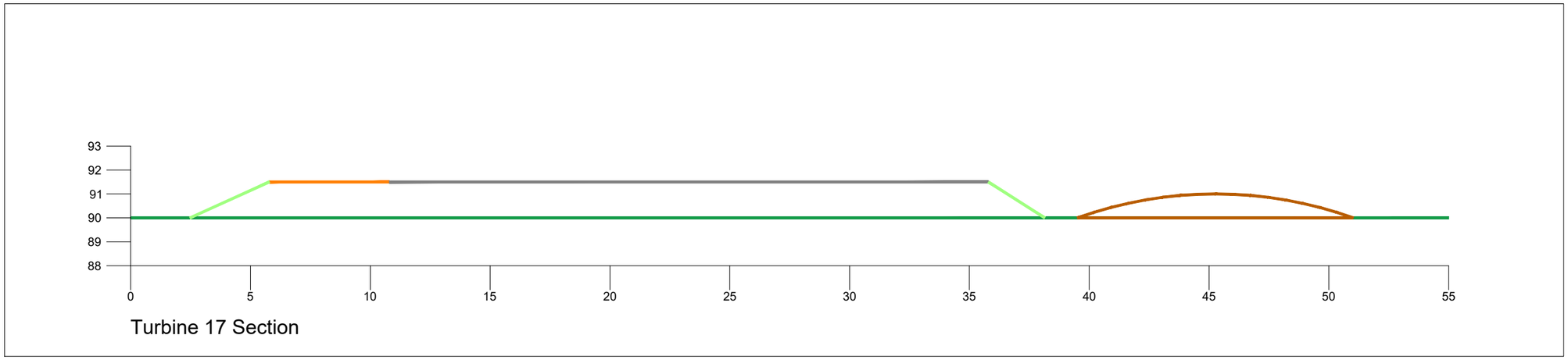
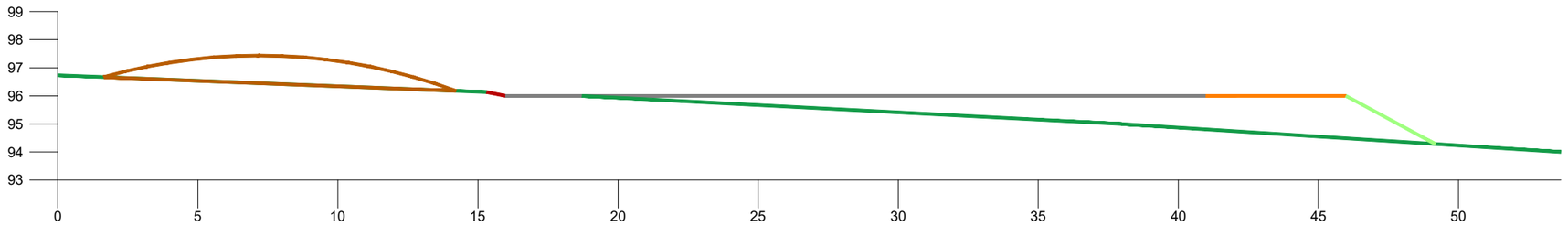
Drawing Legend

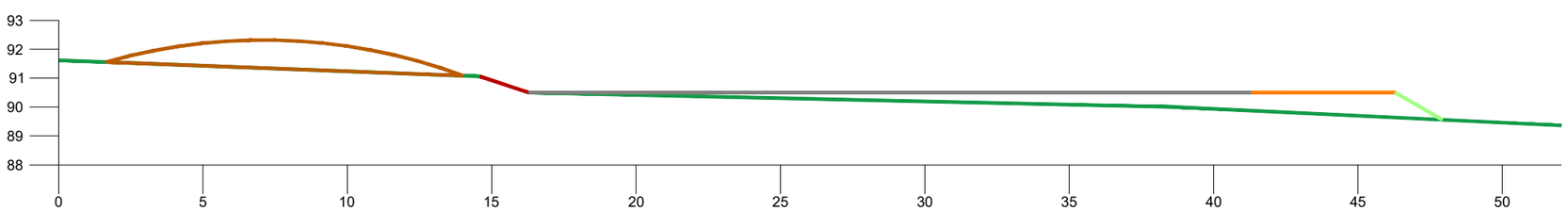
- Existing Ground
- Cut
- Fill
- Hardstanding
- Spoil Storage
- Proposed Road



Turbine 17 Section



Turbine 19 Section



Turbine 20 Section

Note:
All Dimensions in Metres

DRAWING TITLE:
Turbine 17, 19, & 20 Spoil Storage Sections

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 53
SCALE: 1:200 @ A3	DATE: 03.06.2022

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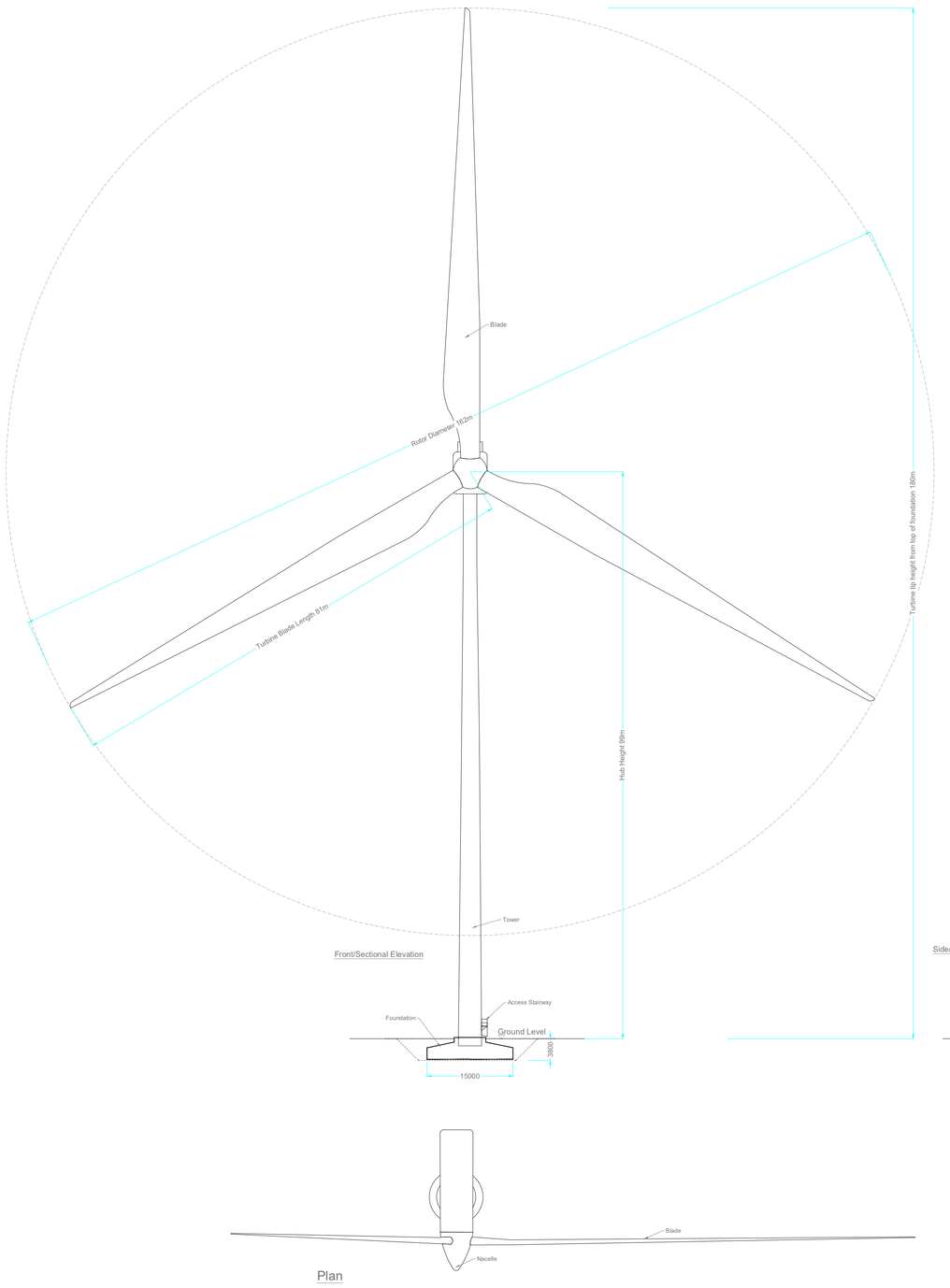

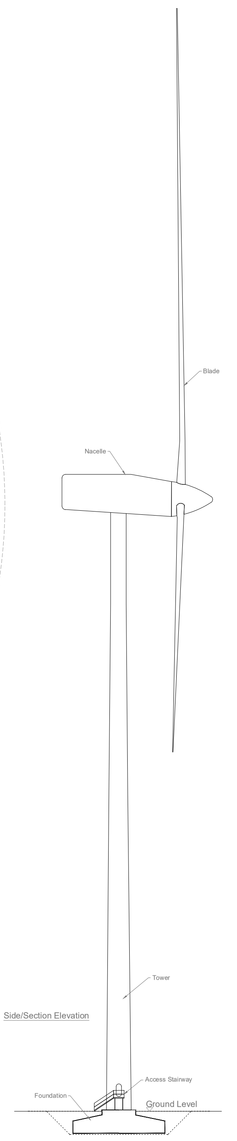

Drawing Notes

1. Proposed wind turbines to have a maximum ground to blade tip height of 180.
2. Exact make and model of the turbine to be dictated by a competitive tender process.
3. Installed wind turbine not to exceed maximum size envelope set out above in any blade length and hub-height configuration.
4. Turbine foundation diameter may vary.
5. Ground level represents the top of turbine foundation.

DRAWING TITLE:

Wind Turbine Elevations & Plan

PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 54
SCALE: 1:500 @A1	DATE: 03.06.2022

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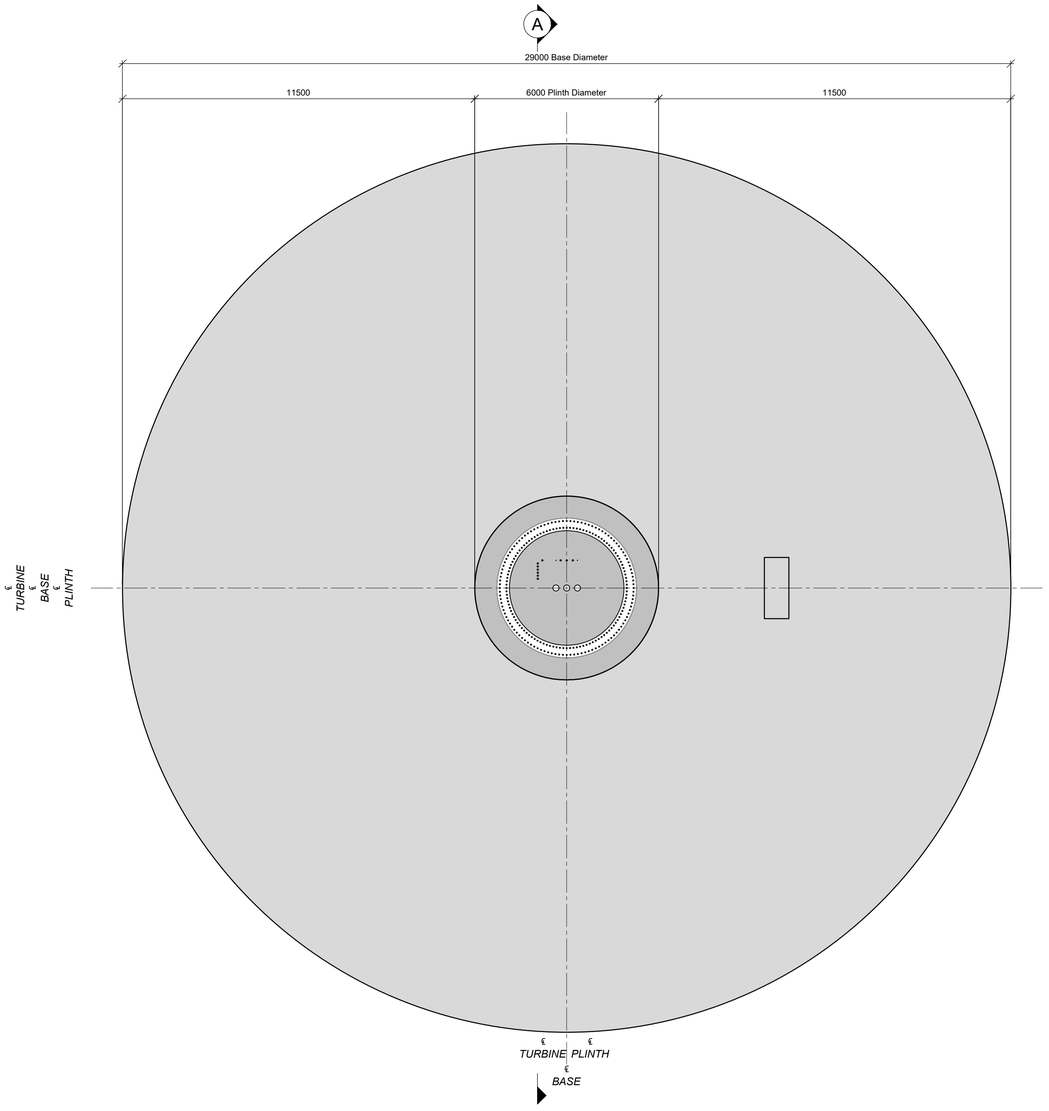
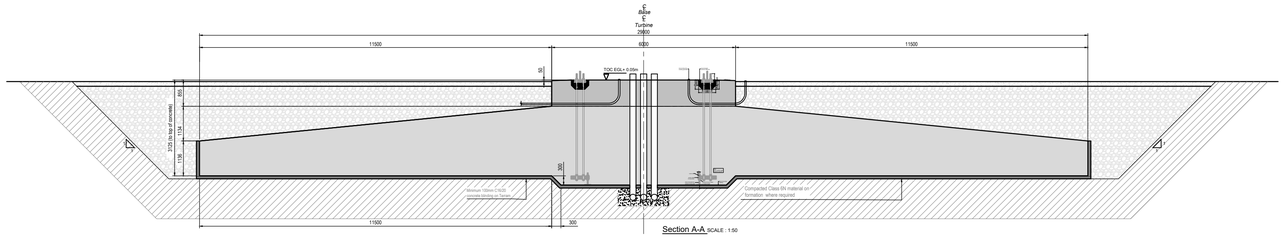


PROPOSED TURBINE FOUNDATION PLAN

SCALE 1:100



SECTION

SCALE 1:100

A

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REV	DATE	DESCRIPTION	BY	APP
P01	30/03/22	FOR INFORMATION	MW	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
GROUND BEARING FOUNDATIONS

CLIENT:
energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
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Fax : +353 (0) 61 441125
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Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
MW	BS	BS

DATE:	SCALE @ A1:	
30/03/22	1:10, 25 & 100	

PROJECT NUMBER:	DRAWING STATUS:
21337	S0

DRAWING NUMBER:	REV:
21337-MWP-ZZ-00-DR-C-0104	P01

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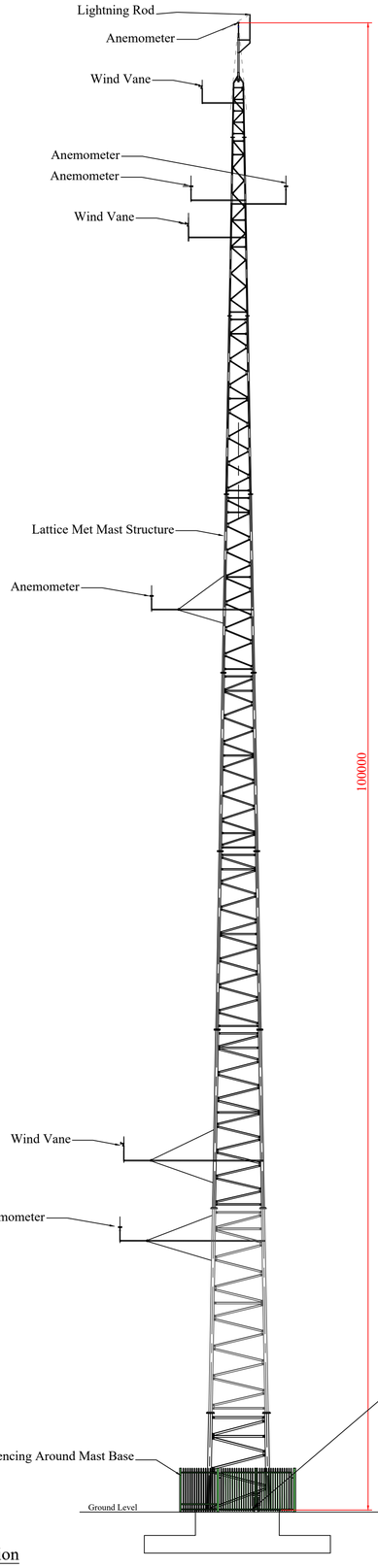
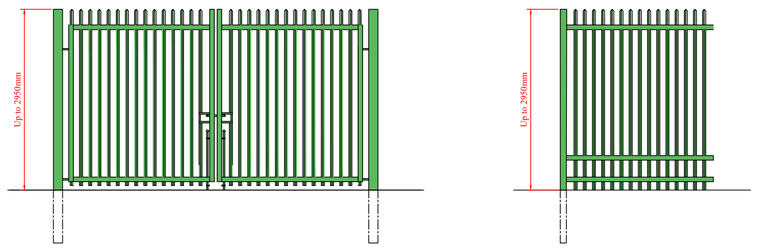
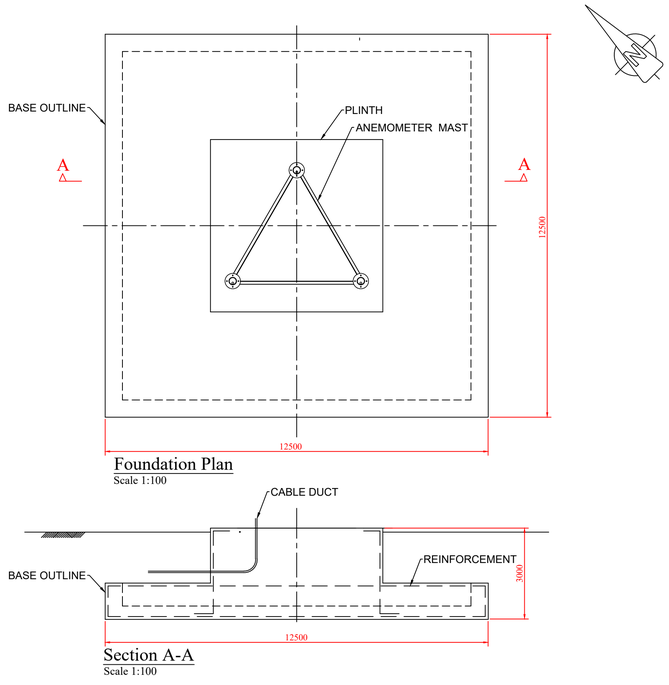


Overall Mast Elevation
Scale 1:200

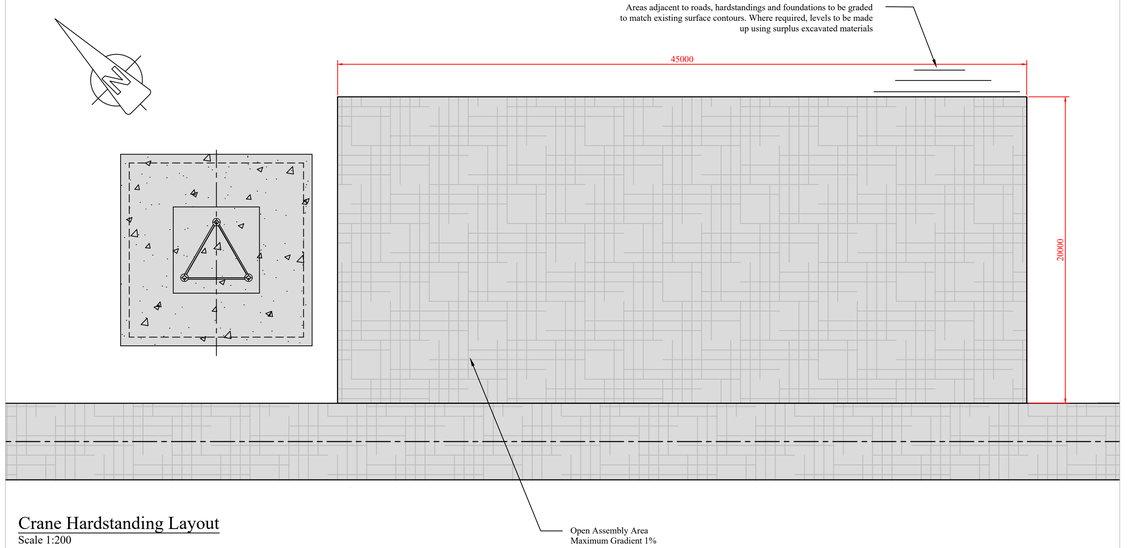


Security Fencing Detail
Scale 1:50



Foundation Plan
Scale 1:100

Section A-A
Scale 1:100



Crane Hardstanding Layout
Scale 1:200

Note:

1) All dimensions in millimeters unless otherwise stated and must be checked on site and not scaled from this drawing
2) The mast layout illustrated on this drawing is indicative only and may be subject to changes.
3) Foundation type may vary depending on met mast manufacturer and ground conditions
4) The instrument layout may vary depending on met mast manufacturer and Eirgrid requirements
5) Anticlimb security fencing to be fitted around the base of the mast
6) Ladder & fall arrest system to be fitted to the mast to allow for easy maintenance access

Date:	Rev:	Description:	Drawn By:

Prepared by:

Galetech Energy Services,
Clondargan,
Stradone,
Co. Cavan

Client:

Energia Renewables ROI Ltd

Job Title:

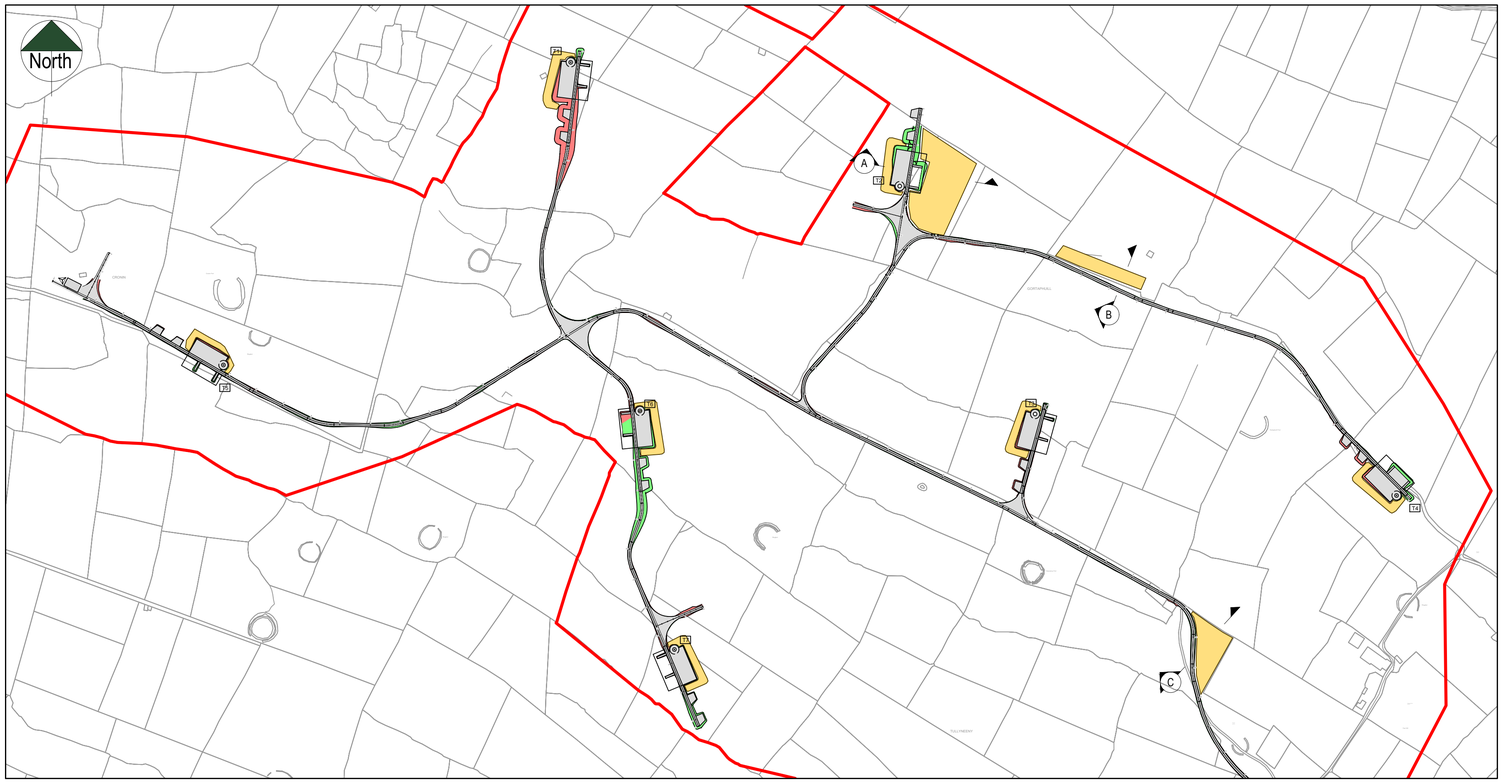
Seven Hills Wind Farm, Co. Roscommon

Drawing Title:

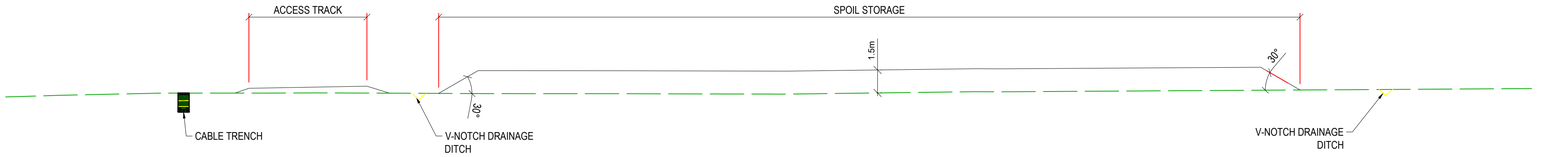
Anemometer Mast Elevations

Drawing No.:	Revision No.:
SVH_PAS_ECS_001	0
Scale:	**Date:**
(A1) 1:200, 1:100, 1:50	22/04/2022

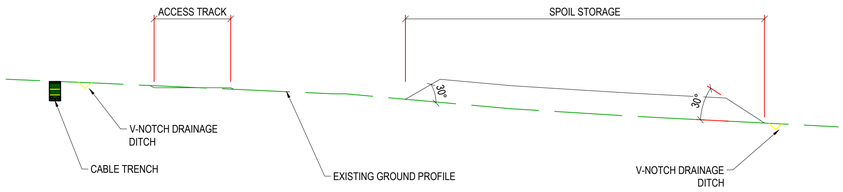
Drawn By:	Checked By:	Confirmed By:
C.M.P	J.B	S.C



NORTH PLAN
SCALE 1:5000



SECTION A
SCALE: 1: 200



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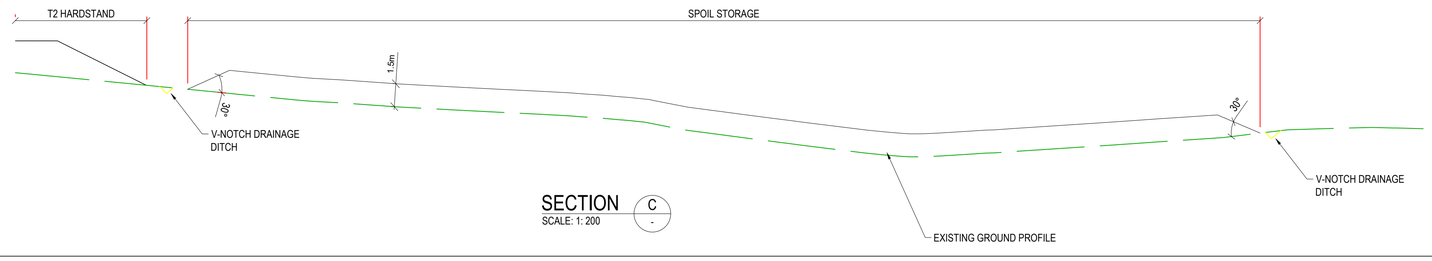
SCALE: 1: 200



SECTION C
SCALE: 1: 200

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LEGEND:

- SITE BOUNDARY
- EXISTING GROUND PROFILE
- PROPOSED SPOIL STORAGE PROFILE

REV	DATE	DESCRIPTION	BY	APP
P01	15 / 04 / 22	FOR INFORMATION	MW	BS

PROJECT: SEVEN HILLS WIND FARM

TITLE: SPOIL STORAGE SECTIONS - NORTH

CLIENT: energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
MW	BS	BS
DATE: 15/04/22	SCALE @ A1: AS NOTED	
PROJECT NUMBER: 21337		DRAWING STATUS: S0

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-1400 REV: P01

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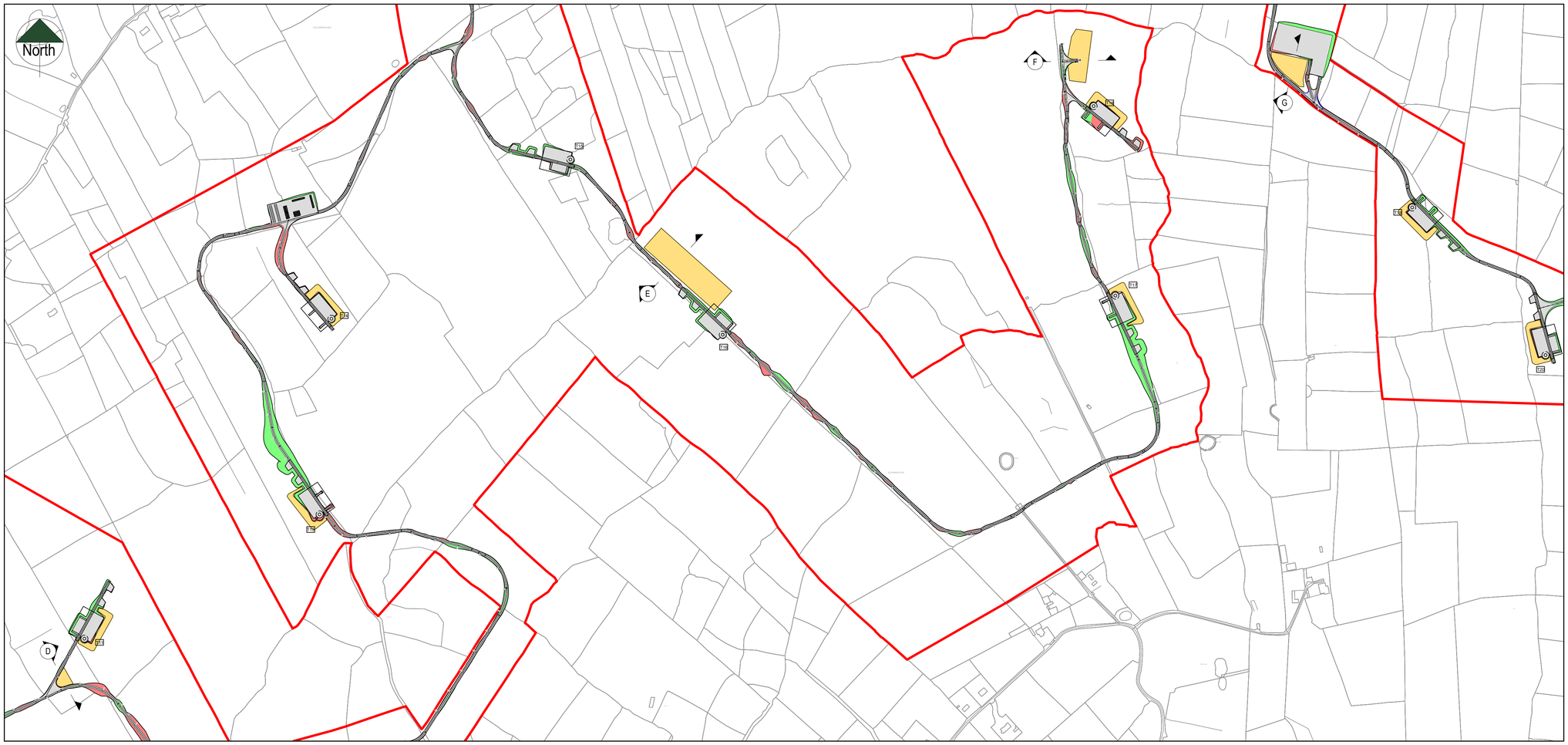
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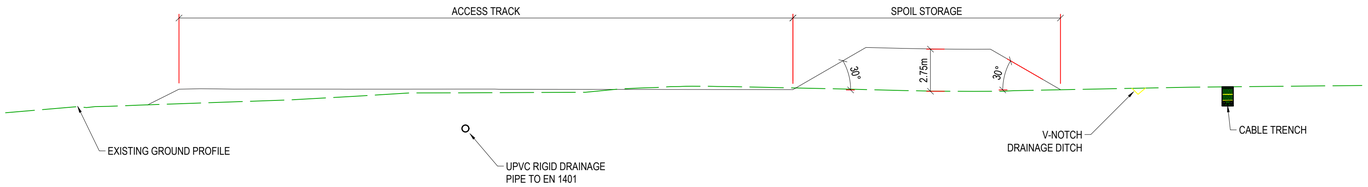

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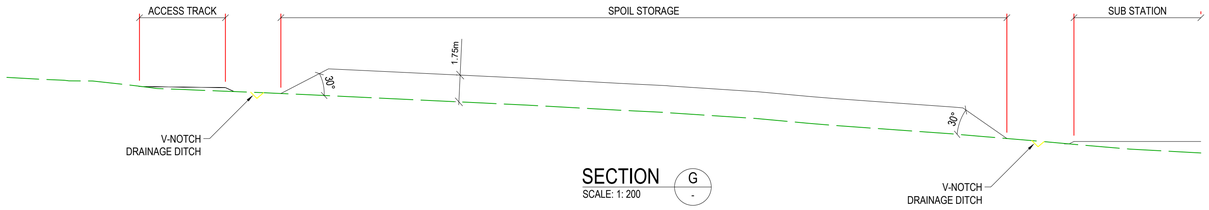
SCALE: 1: 200



SECTION G
SCALE: 1: 200

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LEGEND:

- SITE BOUNDARY
- EXISTING GROUND PROFILE
- PROPOSED SPOIL STORAGE PROFILE

REV	DATE	DESCRIPTION	BY	APP
P01	15 / 04 / 22	FOR INFORMATION	MW	BS

PROJECT: SEVEN HILLS WIND FARM

TITLE: SPOIL STORAGE SECTIONS - SOUTH
SHEET 2 of 2

CLIENT: energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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Raheen Business Park,
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Tel : +353 (0) 61 480164
Fax : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN: MW	CHECKED: BS	APPROVED: BS
DATE: 15/04/22	SCALE @ A1: AS NOTED	
PROJECT NUMBER: 21337		DRAWING STATUS: S0

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-1402 REV: P01

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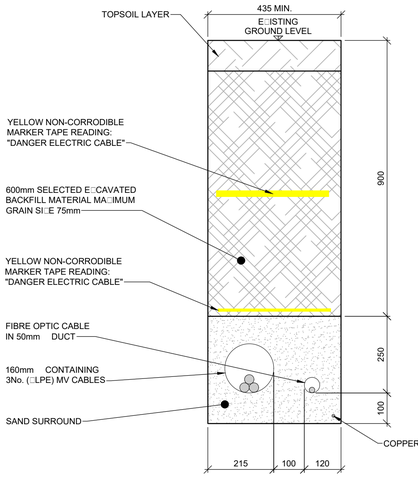
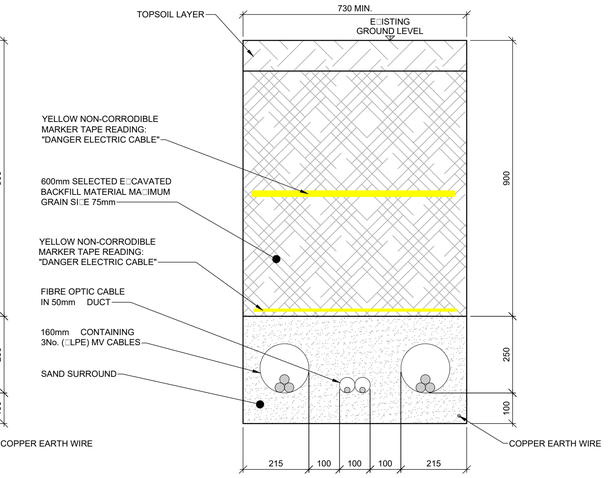


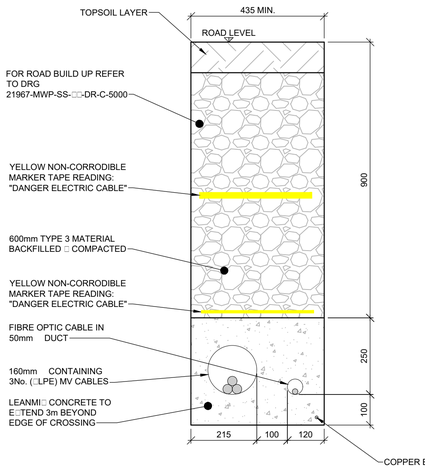
CABLE TRENCH IN OPEN GROUND SINGLE CIRCUIT (INTERNAL WIND FARM)

SCALE: 1:10



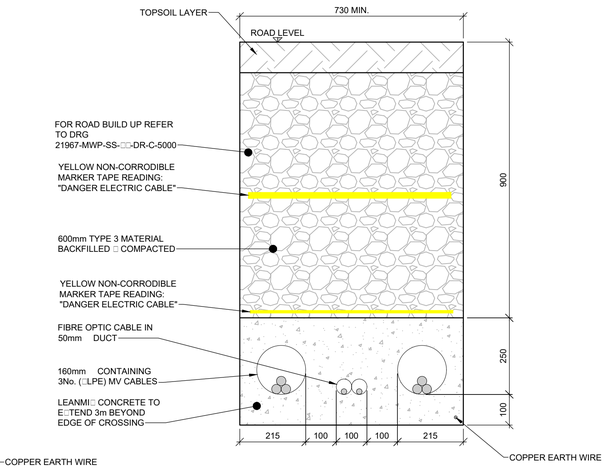
CABLE TRENCH IN OPEN GROUND TWIN CIRCUIT (INTERNAL WIND FARM)

SCALE: 1:10



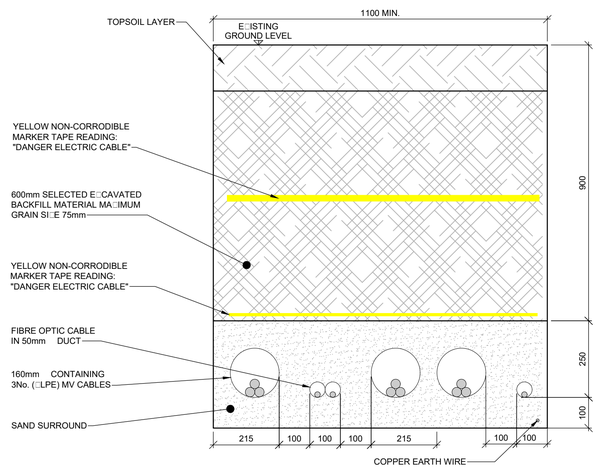
CABLE TRENCH IN SITE ROADWAY SINGLE CIRCUIT (INTERNAL WIND FARM)

SCALE: 1:10



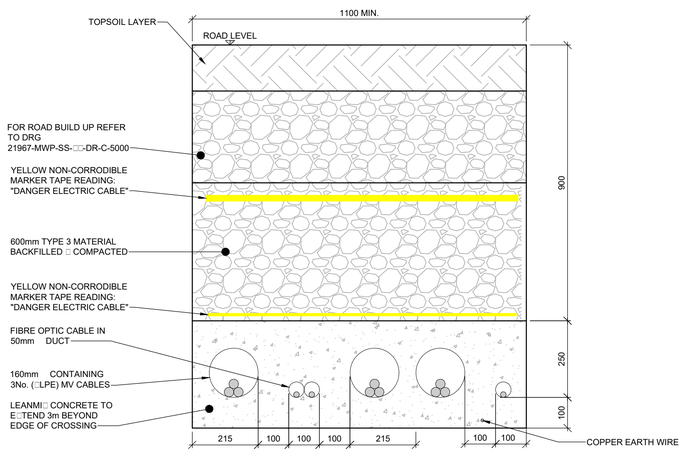
CABLE TRENCH IN SITE ROADWAY TWIN CIRCUIT (INTERNAL WIND FARM)

SCALE: 1:10



CABLE TRENCH IN OPEN GROUND TWIN CIRCUIT WITH MET MAST DUCT (INTERNAL WIND FARM)

SCALE: 1:10



CABLE TRENCH IN SITE ROADWAY TWIN CIRCUIT WITH MET MAST DUCT (INTERNAL WIND FARM)

SCALE: 1:10

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REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
NORTH DRAINAGE	
21337-MWP-WF-00-DR-C-2101	DRAINAGE LAYOUT SHEET 1
21337-MWP-WF-00-DR-C-2102	DRAINAGE LAYOUT SHEET 2
21337MWP-WF-00-DR-C-2103	DRAINAGE LAYOUT SHEET 3
21337-MWP-WF-00-DR-C-2104	DRAINAGE LAYOUT SHEET 4
21337-MWP-WF-00-DR-C-2105	DRAINAGE LAYOUT SHEET 5
21337-MWP-WF-00-DR-C-2106	DRAINAGE LAYOUT SHEET 6
21337-MWP-WF-00-DR-C-2107	DRAINAGE LAYOUT SHEET 7
21337-MWP-WF-00-DR-C-2108	DRAINAGE LAYOUT SHEET 8
21337-MWP-WF-00-DR-C-2109	DRAINAGE LAYOUT SHEET 9
21337MWP-WF-00-DR-C-2110	DRAINAGE LAYOUT SHEET 10
SOUTH DRAINAGE	
21337-MWP-WF-00-DR-C-2111	DRAINAGE LAYOUT SHEET 11
21337MWP-WF-00-DR-C-2112	DRAINAGE LAYOUT SHEET 12
21337-MWP-WF-00-DR-C-2113	DRAINAGE LAYOUT SHEET 13
21337-MWP-WF-00-DR-C-2114	DRAINAGE LAYOUT SHEET 14
21337-MWP-WF-00-DR-C-2115	DRAINAGE LAYOUT SHEET 15
21337-MWP-WF-00-DR-C-2116	DRAINAGE LAYOUT SHEET 16
21337-MWP-WF-00-DR-C-2117	DRAINAGE LAYOUT SHEET 17
21337-MWP-WF-00-DR-C-2118	DRAINAGE LAYOUT SHEET 18
21337MWP-WF-00-DR-C-2119	DRAINAGE LAYOUT SHEET 19
21337MWP-WF-00-DR-C-2120	DRAINAGE LAYOUT SHEET 20
21337MWP-WF-00-DR-C-2121	DRAINAGE LAYOUT SHEET 21
21337MWP-WF-00-DR-C-2122	DRAINAGE LAYOUT SHEET 22
21337MWP-WF-00-DR-C-2123	DRAINAGE LAYOUT SHEET 23
21337MWP-WF-00-DR-C-2124	DRAINAGE LAYOUT SHEET 24
21337MWP-WF-00-DR-C-2125	NORTH DRAINAGE KEYPLAN
21337MWP-WF-00-DR-C-2126	SOUTH DRAINAGE LAYOUT

REV	DATE	DESCRIPTION	BY	APP
P02	09 / 05 / 22	ISSUED FOR INFORMATION	GC	BS
P01	20 / 01 / 22	ISSUED FOR COORDINATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
SITE INTERNAL DUCTING
CABLE TRENCH AND CROSSING DETAILS

CLIENT:
energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick
The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, V94 R578
Tel. : +353 (0) 61 480164
Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
GC	PB	BS
DATE: MAY 22	SCALE @ A1: 1:10	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-WF-00-DR-C-5001 REV: P02

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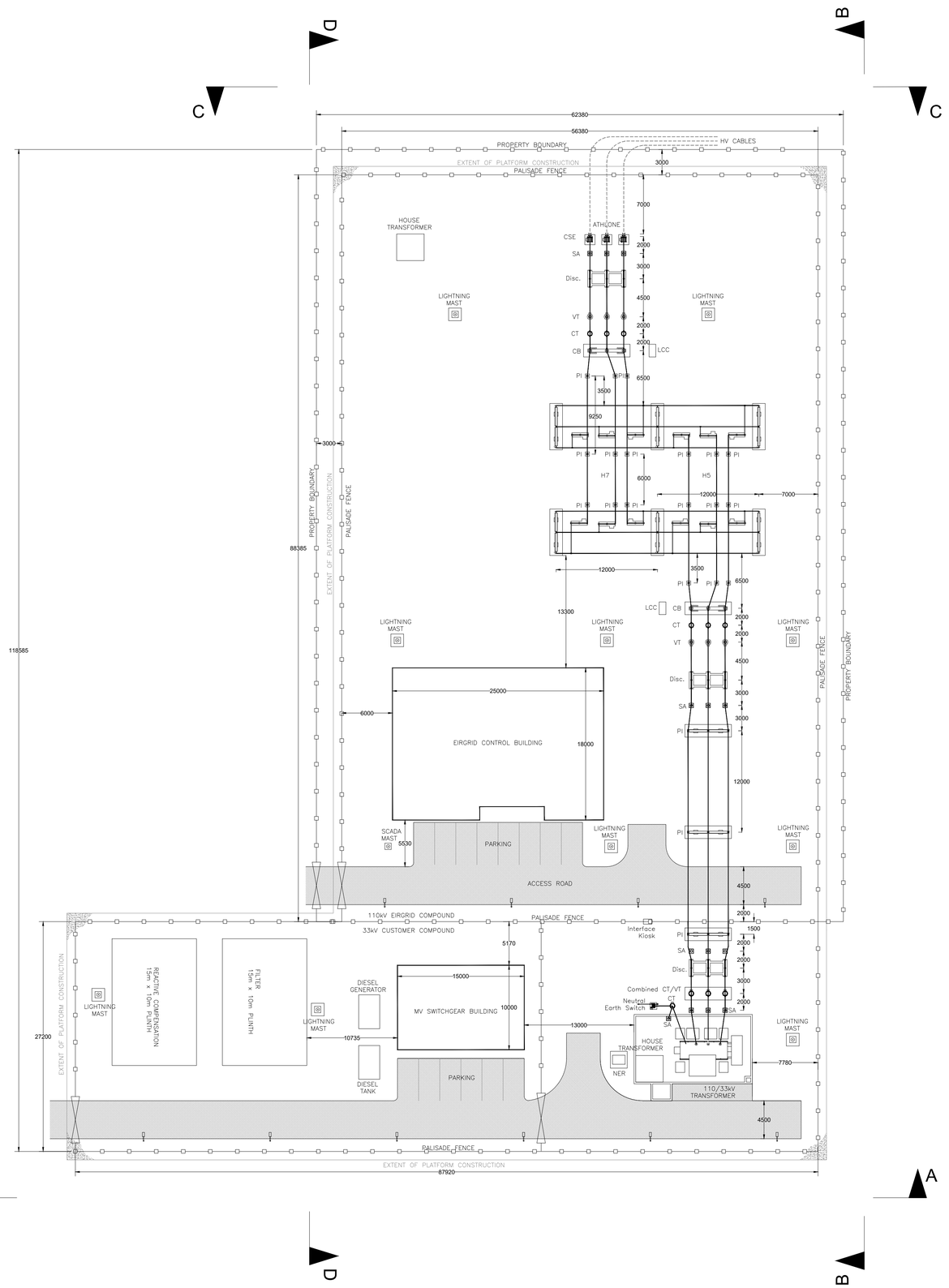

KEY

- PROPOSED EQUIPMENT
- BUSBAR DISCONNECTOR
- POST INSULATOR (TRIPLE)
- POST INSULATOR (SINGLE)
- CB – CIRCUIT BREAKER
- CT – CURRENT TRANSFORMER
- VT – VOLTAGE TRANSFORMER
- TRAFO DISCONNECTOR
- SA – SURGE ARRESTER
- CSE – CABLE SEALING END
- LCC – LOCAL CONTROL CABINET

REFER TO DRAWING 60634578-ACM-DR-CE-002 FOR SITE ELEVATIONS.

NOTES

1. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED AS DETAILED FOR DESIGN

ISSUE/REVISION

R9	24.01.22	REVISED TO SUIT EIRGRID SPEC
R8	09.12.21	FOR PLANNING
R7	08.12.21	REVISED FOLLOWING REVIEW
R6	06.12.21	REVISED FOLLOWING REVIEW
R5	19.07.21	REVISED FOLLOWING REVIEW
R4	23.06.21	REVISED FOLLOWING REVIEW
R3	16.04.21	REVISED FOLLOWING REVIEW
R2	30.03.21	REVISED FOLLOWING REVIEW
R1	17.03.21	REVISED FOLLOWING REVIEW
P0	24.09.20	First Issue
I/R	DATE	DESCRIPTION

STATUS

FOR PLANNING

PROJECT NUMBER	SCALE
60634578	NTS

SHEET TITLE

Seven Hills Windfarm
110 kV Su station
Pro osed Layout

SHEET NUMBER	REV
60634578-ACM-DR-CE-001	R9

AECOM

PROJECT

Seven Hills Windfarm

CLIENT

Seven Hills Wind Ltd.

CONSULTANT

AECOM
Adel hi Pla a
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.aecom.com

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Pro ect Management Initials : Designer : EP Checked : NC A roved : BC

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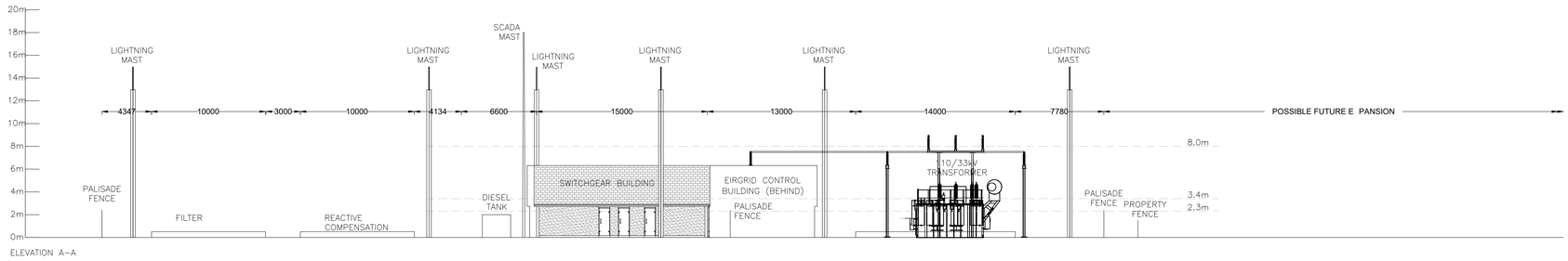
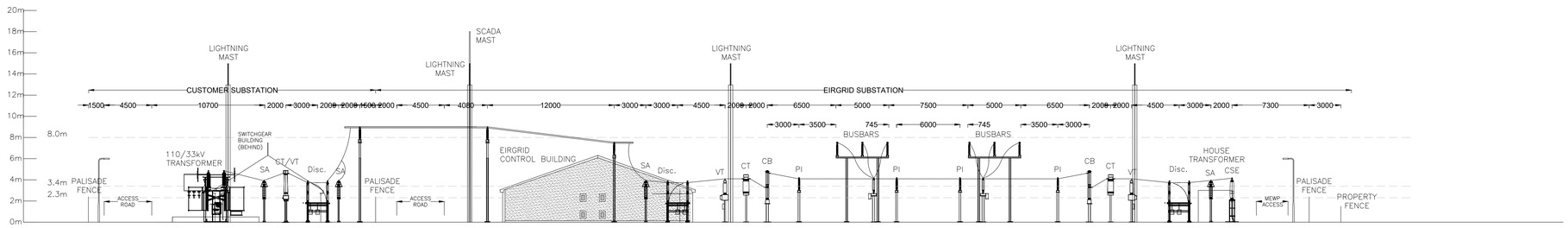
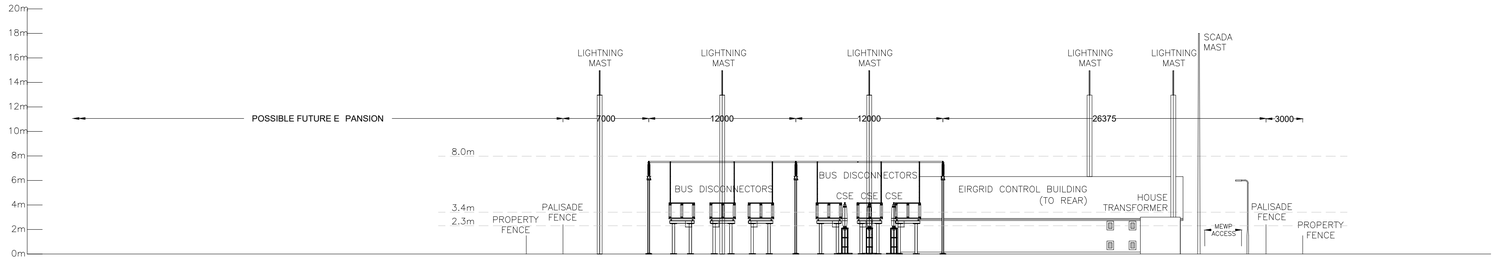


ELEVATION A–A

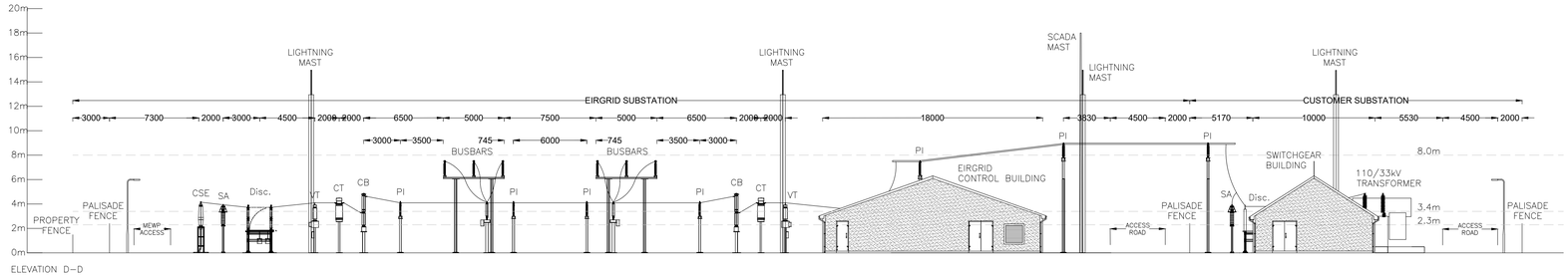


ELEVATION B–B



ELEVATION C–C

NOTE:
FUTURE EQUIPMENT NOT SHOWN ON ELEVATIONS



ELEVATION D–D

REFER TO DRAWING 60634578-ACM-DR-CE-001
FOR SITE LAYOUT AND LOCATION OF ELEVATIONS.

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AECOM

PROJECT

Seven Hills Windfarm

CLIENT

Seven Hills Wind Ltd.

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
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aecom.com

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
R8	24.01.22	REVISED TO SUIT EIRGRID SPEC
R7	08.12.21	REVISED FOLLOWING REVIEW
R6	06.12.21	REVISED FOLLOWING REVIEW
R5	19.07.21	REVISED FOLLOWING REVIEW
R4	23.06.21	REVISED FOLLOWING REVIEW
R3	16.04.21	REVISED FOLLOWING REVIEW
R2	30.03.21	REVISED FOLLOWING REVIEW
R1	17.03.21	REVISED FOLLOWING REVIEW
P0	24.09.20	First Issue

STATUS

FOR DISCUSSION

PROJECT NUMBER	SCALE
60634578	NTS

SHEET TITLE

Seven Hills Windfarm
110 kV Substation
Site Elevations

SHEET NUMBER	REV
60634578-ACM-DR-CE-002	R8

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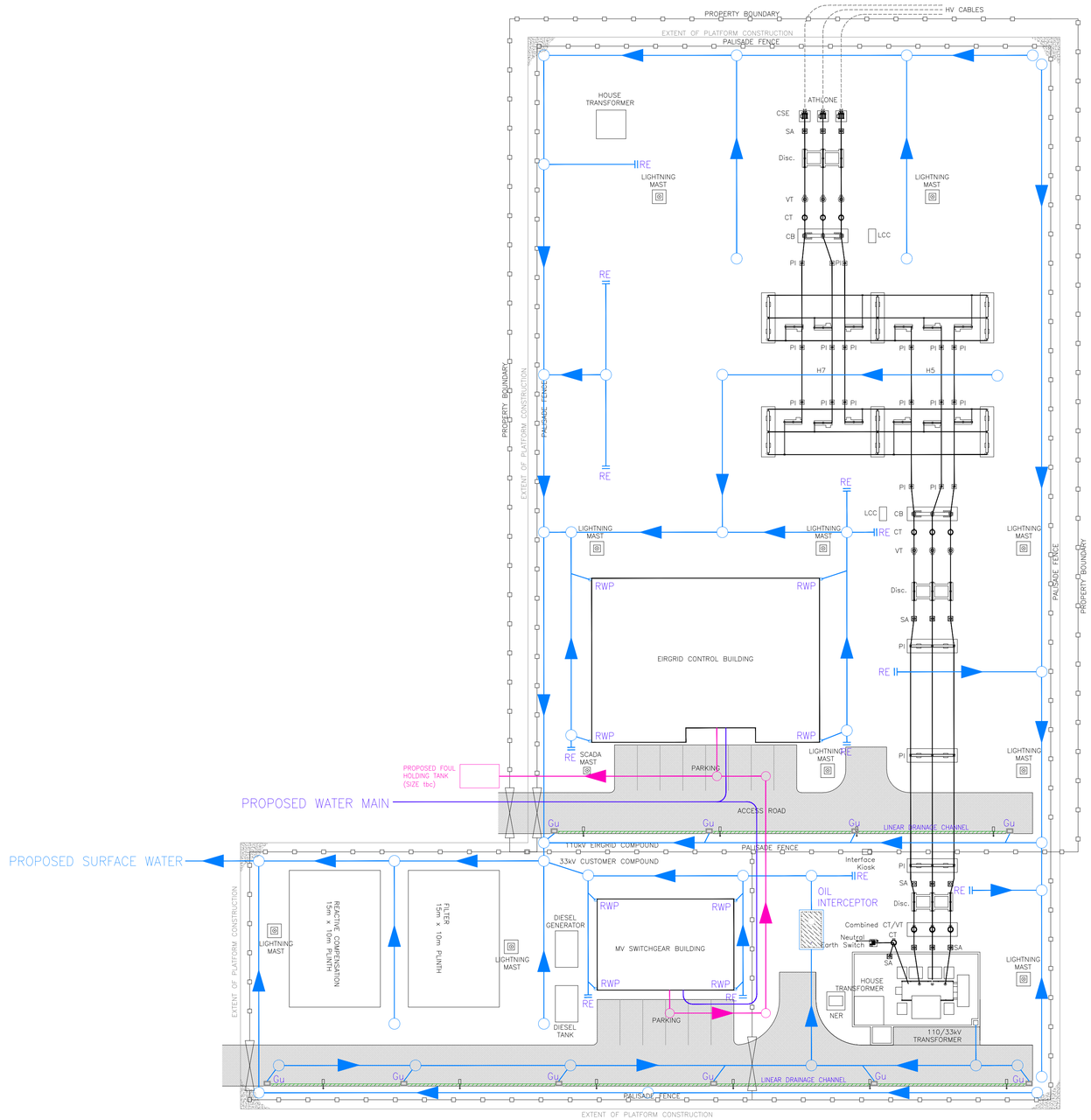

PROJECT

Seven Hills Windfarm

CLIENT

Seven Hills Wind Ltd.

CONSULTANT

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Georges Street U er
Dun Laoghaire
County Du lin
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.aecom.com

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
R8	24.01.22	REVISED TO SUIT EIRGRID SPEC
R7	08.12.21	REVISED FOLLOWING REVIEW
R6	06.12.21	REVISED FOLLOWING REVIEW
R5	19.07.21	REVISED FOLLOWING REVIEW
R4	23.06.21	REVISED FOLLOWING REVIEW
R3	16.04.21	FOUL HOLDING TANK RELOCATED
R2	30.03.21	REVISED FOLLOWING REVIEW
R1	17.03.21	REVISED FOLLOWING REVIEW
P0	28.09.20	First Issue

STATUS

FOR DISCUSSION

PROJECT NUMBER 60634578

SCALE NTS

SHEET TITLE

Seven Hills Windfarm
110kV Su station
Indicative Drainage Layout

SHEET NUMBER 60634578-ACM-DR-CE-005

REV R8

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Pro ect Management Initials : Designer : EP Checked : CGY A roved : BC

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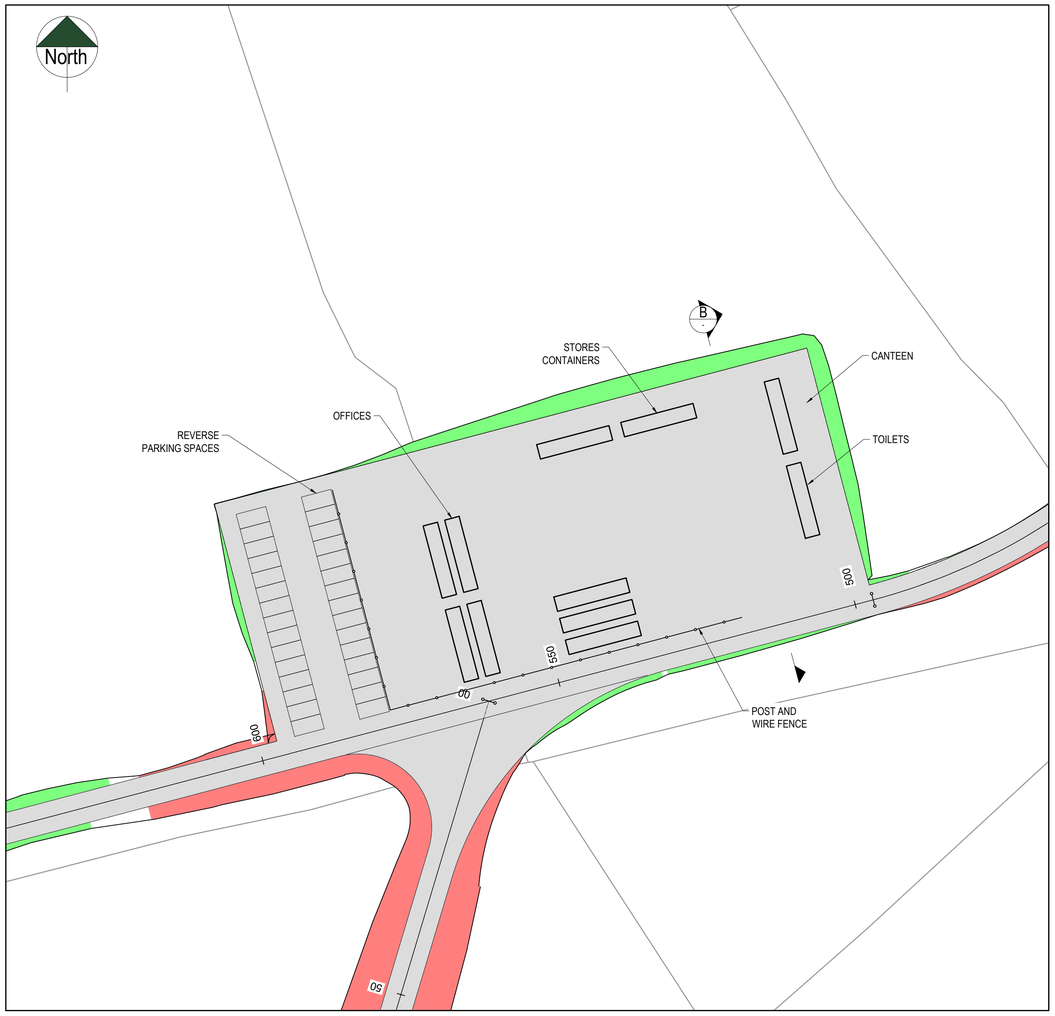
NORTH COMPOUND
SCALE 1:500



SOUTH COMPOUND
SCALE 1:500

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REV	DATE	DESCRIPTION	BY	APP
P01	28 / 03 / 22	FOR INFORMATION	MW	BS

PROJECT:
SEVEN HILLS

TITLE:
TEMPORARY CONSTRUCTION COMPOUND
GENERAL ARRANGEMENT

CLIENT:

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
V94 RP26

Tel: +353 (0) 61 480164
Fax: +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN: MW	CHECKED: BS	APPROVED: BS
DATE: 28/03/22	SCALE @ A1: NTS	
PROJECT NUMBER: 21337		DRAWING STATUS: S0

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C0103 | REV: P01

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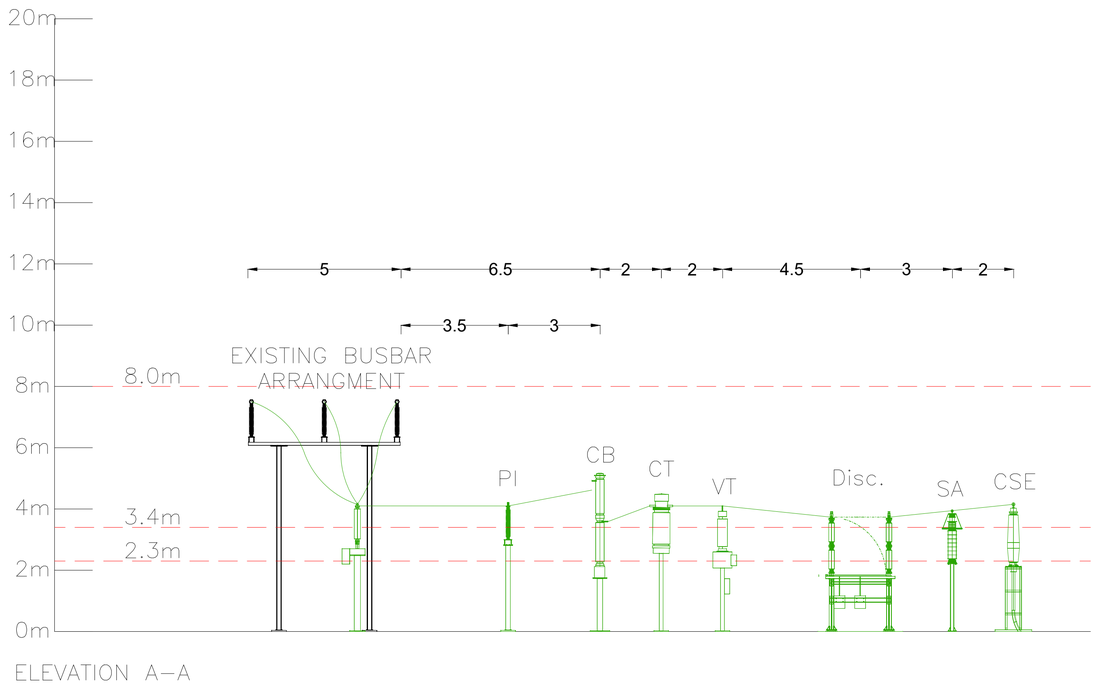
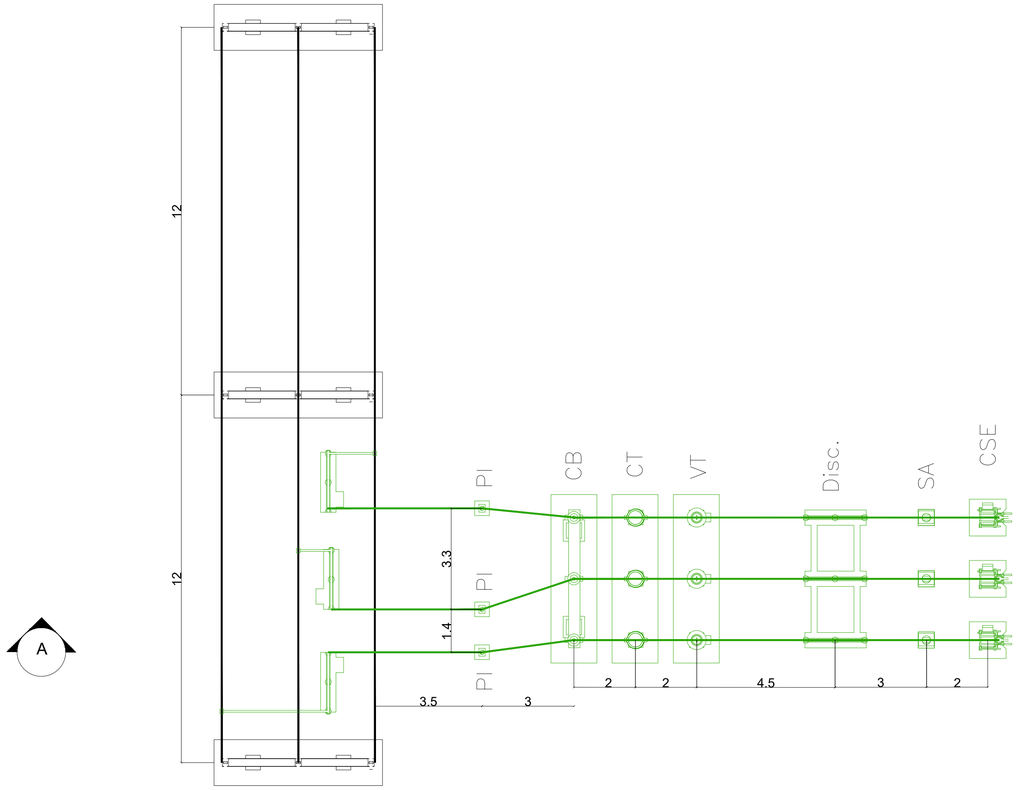


ELEVATION A–A



PI	Post Insulator
CB	Circuit Breaker
CT	Current Transformer
VT	Voltage Transformer
DISC.	Disconnector
SA	Surge Arrester
CSE	Cable Sealing End

A

A

PROJECT

ATHLONE 110 kV SUBSTATION

CLIENT

ENERGIA

CONSULTANT

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County Du lin
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.aecom.com

LEGEND

E ISTING E UIPMENT
PROPOSED E UIPMENT

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3. DRAWING REPRESENTS AN INDICATIVE 110 kV LINE BAY, HAS BEEN PRODUCED WITHOUT ANY DETAILED INFORMATION ON ATHLONE 110 kV STATION, AS SUCH A DETAILED SPACE PROVING EXERCISE HAS NOT BEEN CARRIED OUT.

ISSUE/REVISION

I/R	DATE	DESCRIPTION

STATUS

FOR DISCUSSION

PROJECT NUMBER **SCALE**

1:100@ A1

SHEET TITLE

TYPICAL CABLE CONNECTION BAY

SHEET NUMBER **REV**

60634578-ACM-DR-CE-006

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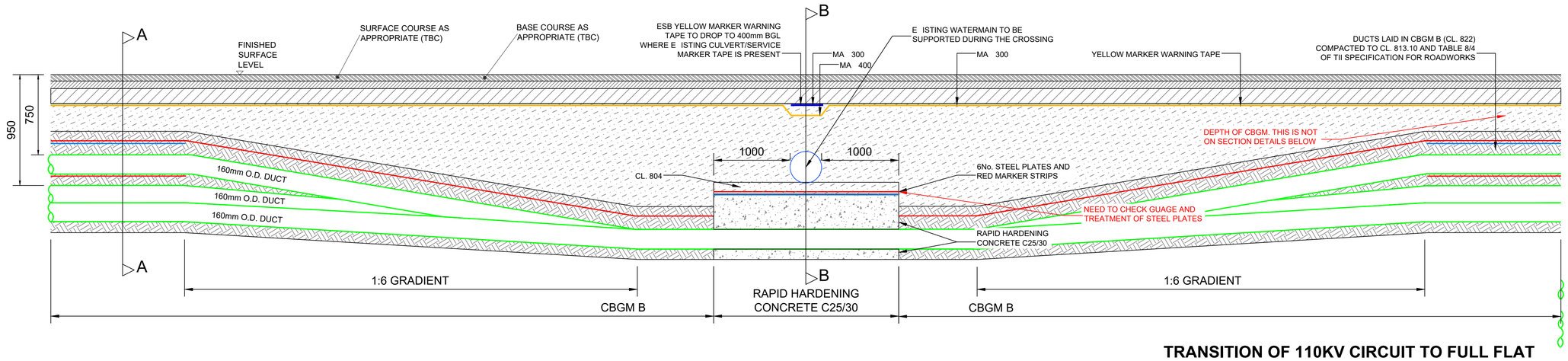
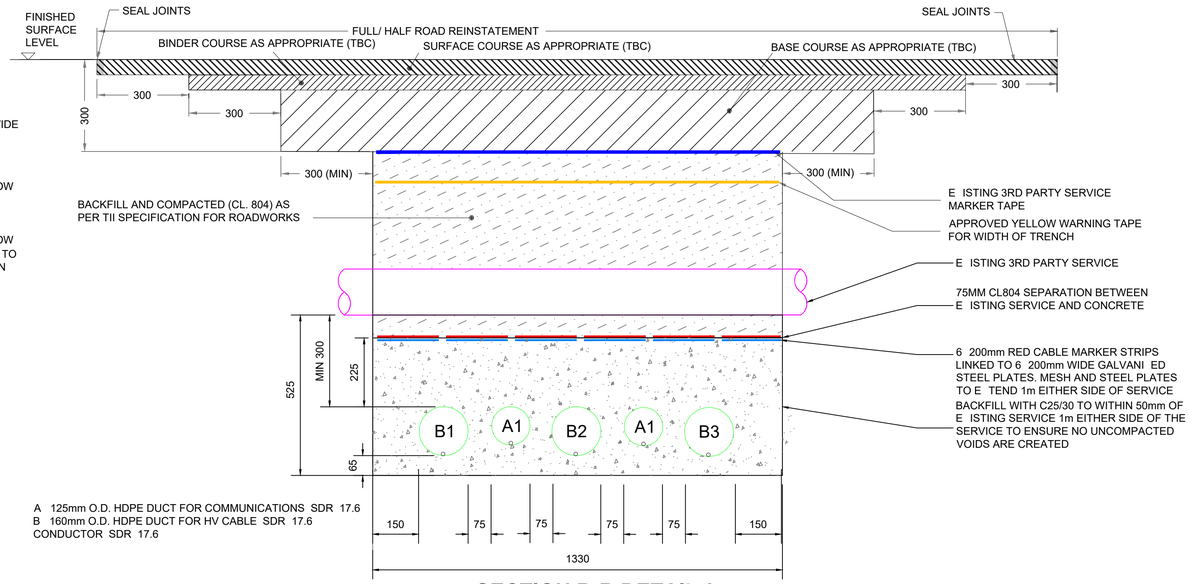
Last saved y: MARIA.BORRELLAGARRID(2022-04-13) Last Plotted: 2022-04-13
Filename: C:\USERS\MARIA.BORRELLAGARRID\DESKTOP\ATHLONE DRAWING1.DWG
Printed on Post-Consumer Recycled Content Pa er



TRANSITION OF 110KV CIRCUIT TO FULL FLAT FORMATION UNDER 3RD PARTY SERVICE TYPICAL X-SECTION BASED ON CH R1B 225

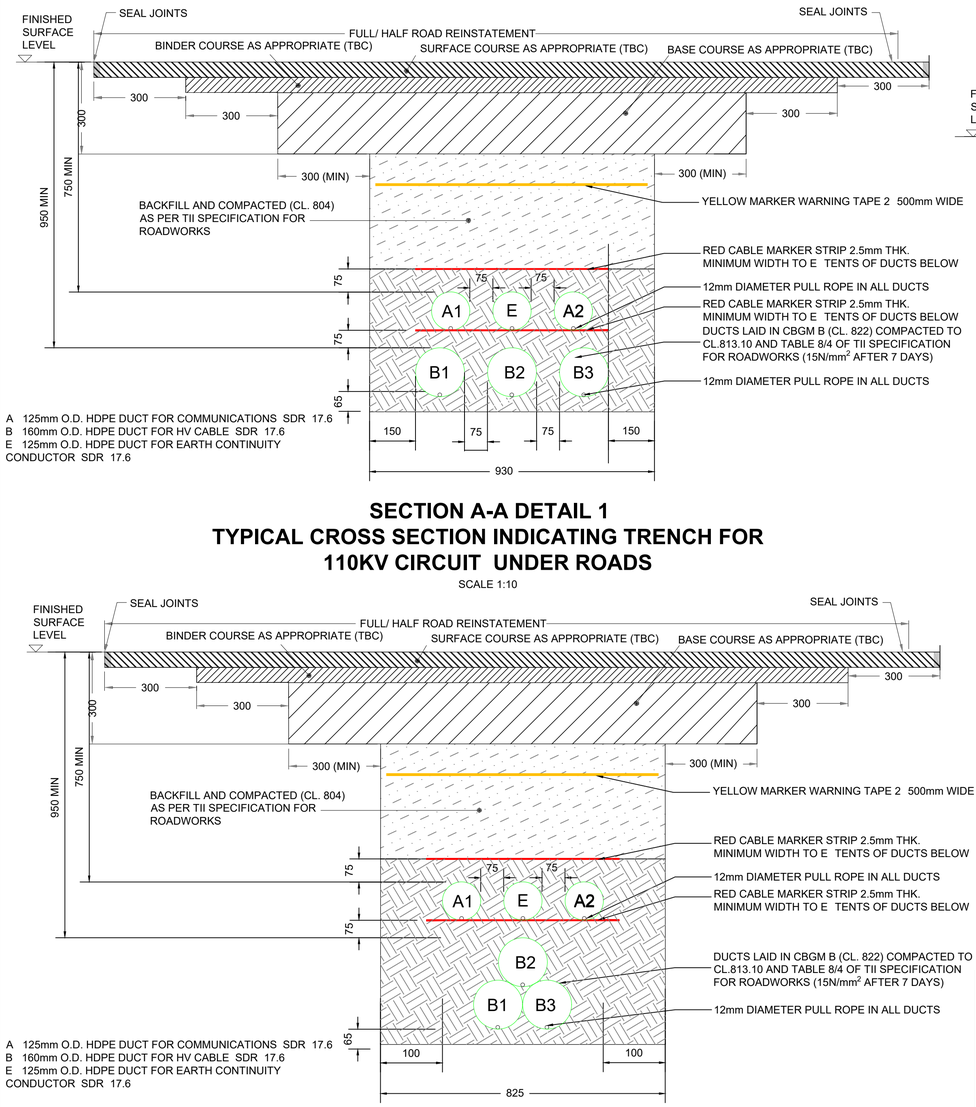
NOT TO SCALE



A 125mm O.D. HDPE DUCT FOR COMMUNICATIONS SDR 17.6
B 160mm O.D. HDPE DUCT FOR HV CABLE SDR 17.6
CONDUCTOR SDR 17.6

SECTION B-B DETAIL 3
TYPICAL CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT IN FULL FLAT FORMATION UNDER 3RD PARTY SERVICE

SCALE 1:10



A 125mm O.D. HDPE DUCT FOR COMMUNICATIONS SDR 17.6
B 160mm O.D. HDPE DUCT FOR HV CABLE SDR 17.6
E 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR SDR 17.6

SECTION A-A DETAIL 1
TYPICAL CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS

SCALE 1:10

A 125mm O.D. HDPE DUCT FOR COMMUNICATIONS SDR 17.6
B 160mm O.D. HDPE DUCT FOR HV CABLE SDR 17.6
E 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR SDR 17.6

SECTION A-A DETAIL 2
TYPICAL CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS (TREFOIL)

SCALE 1:10

NOTES:

A. ALL PRODUCTS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
B. 300mm MINIMUM VERTICAL AND HORI ONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES WATER MAINS CULVERTS etc.) IN THE CASE OF HIGH RISK 3RD PARTY SERVICES GREATER CLEARANCES MAY BE RE UIRED. DESIGNER TO CONSULT 3RD PARTY SERVICE OWNERS FOR GUIDANCE.
C. STEEL PLATES MUST COVER DUCTS. NO OVERLAP IS RE UIRED HOWEVER STANDARD DIMENSIONS MAY RESULT IN AN OVERLAP. SPACING OF 25mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT.
D. THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm BUT INCREASED SPACING MAY BE RE UIRED IN ORDER TO ACHIEVE THE CABLE RATING (TO BE CONFIRMED BY DESIGNER CABLE RATING CALCULATIONS).
E. DRAWING IS INDICATIVE ONLY TO BE USED TO AID IN THE DESIGN OF RELEVANT INFRASTRUCTURE.
F. TEMPLATES ARE TO BE USED AT 5m INTERVALS DURING DUCT INSTALLATION IN CBGM. PRE-MADE 75mm DUCT INSTALLATION IN WET CONCRETE.
G. HAND DIG WITHIN 500mm OF E ISTING SERVICE.
H. EARTH CONTINUITY CONDUCTOR IS A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.
I. IF E ISTING SERVICE MARKER TAPE IS NOT PRESENT THE YELLOW MARKER TAPE SHOULD BE INSTALLED A MA IMUM OF 300mm BELOW FINISHED SURFACE LEVEL.

A 125mm O.D. HDPE DUCT FOR COMMUNICATIONS SDR 17.6
B 160mm O.D. HDPE DUCT FOR HV CABLE SDR 17.6
E 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR SDR 17.6

RED MARKER STRIP
YELLOW MARKER WARNING TAPE
E ISTING SERVICE MARKER STRIP
6mm GALVANISED STEEL PLATE
RAPID HARDENING WET CONCRETE C25/30
CBGM B (CL. 822). COMPACTED TO CL 813.10
BACKFILL COMPACTED (CL. 804)

Cable Depth to top of duct	Width of trench (mm)
950	930
1.5	1130
2	1200
2.5	1480

NOT FOR CONSTRUCTION

AECOM

PROJECT

THE SEVEN HILLS WINDFARM (MIDLANDS HV CABLE ROUTE)

CLIENT

energia Switched on

CONSULTANT

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4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH AND SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
5. REINSTATEMENT METHODS AND DETAILS TO BE AGREED WITH LOCAL AUTHORITY IN ADVANCE OF WORKS.
6. NOTES TO BE READ IN CONJUNCTION WITH DEPARTMENT OF TRANSPORT TOURISM SPORT GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS. (PURPLE BOOK)

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	22/12/2021	Removal of Duct E Section B-B
P1	09/12/2021	160mm Diameter Ducts U dated
P0	23/09/2020	FIRST ISSUE

STATUS

FOR INFORMATION

PROJECT NUMBER	SCALE
PR-471040	AS SHOWN

SHEET TITLE

THE SEVEN HILLS WINDFARM (MIDLANDS HV CABLE ROUTE) TYPICAL STANDARD TRENCH DETAILS

SHEET NUMBER	REV
60634578-ACM-DR-CE-036	P2

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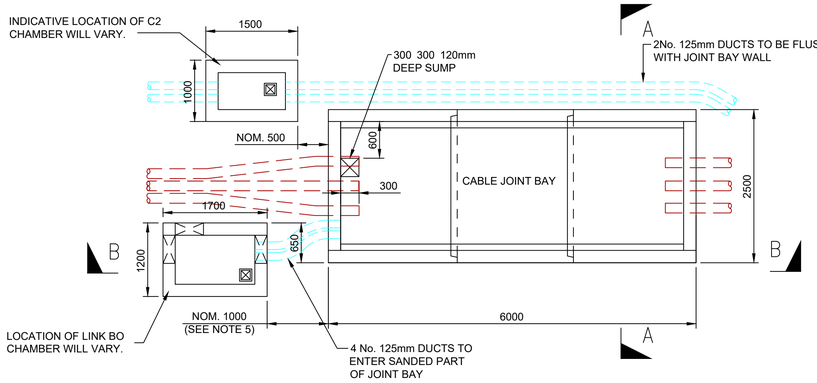
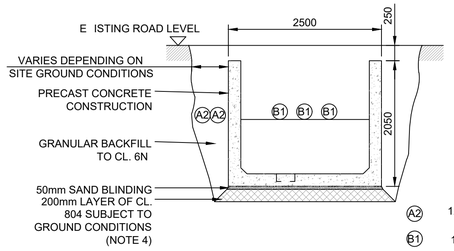
Designer : AF Checked : RL Approved : PA

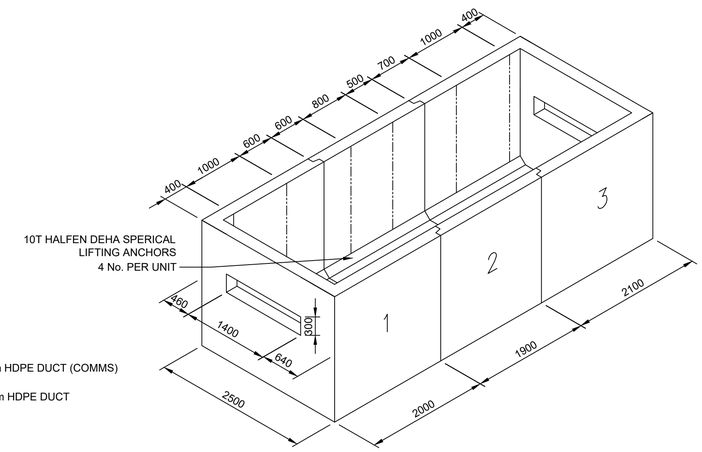
Last saved by: BERNICE.CAHILL(2021-12-22) Last Plotted: 2021-12-22



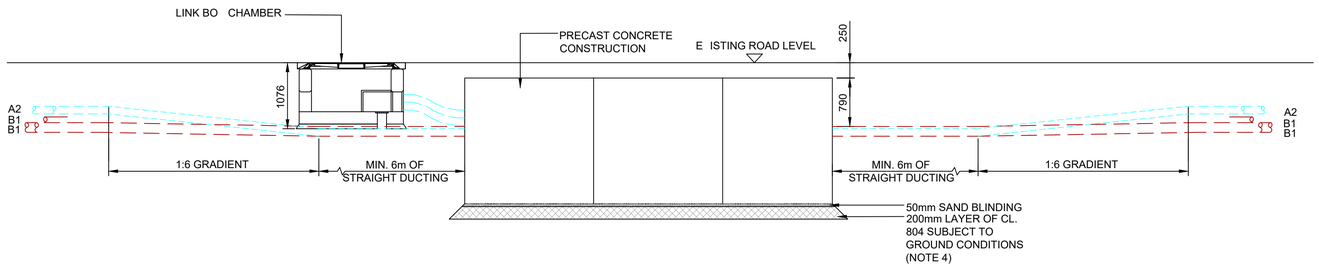
PLAN VIEW
SCALE 1:50



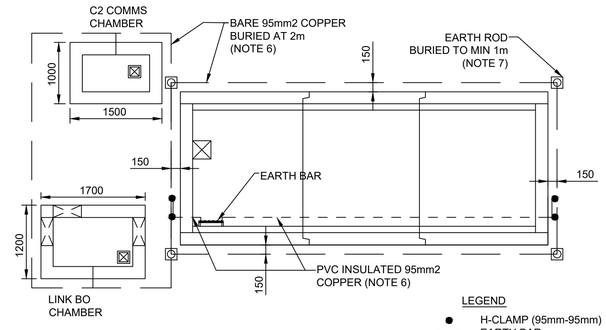
SECTION A-A
SCALE 1:50



ISOMETRIC VIEW
SCALE 1:50



SECTION B-B
SCALE 1:50



JOINT BAY EARTHING DETAIL
SCALE 1:50

NOTES:

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3. ALL DIMENSIONS ARE IN MILLIMETRES. ALL CHAINAGES LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
4. STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE E CAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m2. SUITABILITY OF STANDARD JOINT BAY FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND VANE TESTS PLATE LOAD TESTS AND LWD (CBR) TESTS SHALL BE RE UIRED AS PER GI SPECIFICATION. WHERE SPECIFIED MINIMUM BEARING PRESSURE IS NOT ACHIEVABLE THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE.
5. THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE E CEED 10m. NO JOINTS IN BONDING CABLE ARE PERMITTED.
6. BARE STRANDED 95mm2 COPPER CONDUCTOR SHALL HAVE 100mm SOIL SURROUND.PVC INSULATED CONDUCTOR RE UIRED WITHIN JOINT BAY AND WHERE CONTACT WITH POWER AND AU CABLES IS POSSIBLE. BURIAL DEPTH TO BE 1 METRE INFORMATION TO BE REVIEWED BY ELECTRIC TEAM.
7. COPPERBOND ROD NOMINAL 20mm DIA 1200mm LONG (FURSE RB210 OR SIMILAR). CONNECTION TO STRANDED CONDUCTOR SHALL BE VIA SUITABLE ROD TO CABLE CLAMP. EARTH ROD SHALL BE DRIVEN TO NATIVE SOIL INFORMATION TO BE REVIEWED BY ELECTRIC TEAM. IF THIS IS NOT ACHIEVABLE. THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE. IF ROCK IS PRESENT AND IT IS NOT FEASIBLE TO DRIVE THE EARTH RODS THEN 6 METER RADIAL CONDUCTORS CAN BE INSTALLED CONNECTING TO THE MAIN EARTH GRID AT THE LOCATION OF THE EARTH RODS IN LIEU OF THE EARTH RODS THEMSELVES.
8. EARTH BAR SHALL BE FI ED TO THE JOINT BAY SIDEWALL IN A SUITABLE LOCATION TO FACILITATE ROUTING OF BONDING LEADS AND JOINTING. MIN. 2 NO. TAILS RE UIRED TO CONNECT TO THE 95mm2 EARTH RING INFORMATION TO BE REVIEWED BY ELECTRIC TEAM.

LEGEND

160mm HDPE DUCT WITH 12mm DIAMETER PULL ROPE

125mm HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE

NOT FOR CONSTRUCTION

0 1.25 2.5 m
Scale 1:50 @ A1

AECOM

PROJECT

THE SEVEN HILLS WINDFARM (MIDLANDS HV CABLE ROUTE)

CLIENT

energia Switched on

CONSULTANT

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ISSUE/REVISION

P1	09/12/2021	160mm Diameter Ducts U dated
P0	23/09/2020	FIRST ISSUE
I/R	DATE	DESCRIPTION

STATUS

PROJECT NUMBER PR-471040

SCALE AS SHOWN

SHEET TITLE

THE SEVEN HILLS WINDFARM (MIDLANDS HV CABLE ROUTE) TYPICAL JOINT BO DETAILS

SHEET NUMBER 60634578-ACM-DR-CE-037

REV P0

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Designer : AF Checked : RL A roved : PA

Last saved y: EUAN.PATTERSON(2020-09-17) Last Plotted: 2021-12-09

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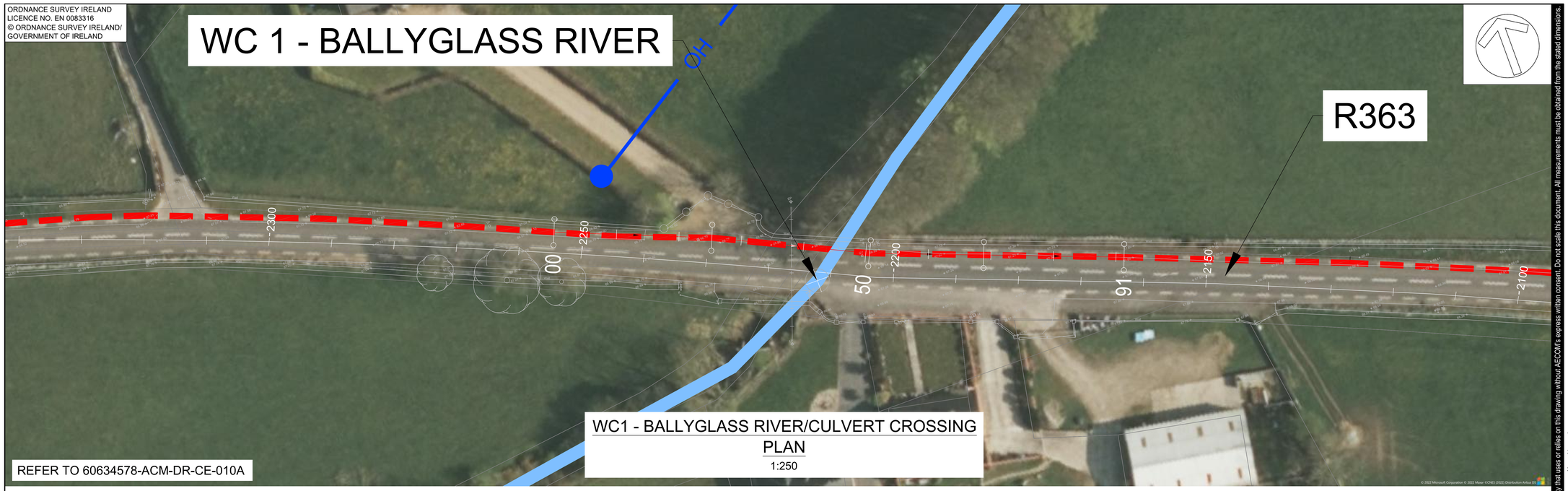
WC 1 - BALLYGLASS RIVER

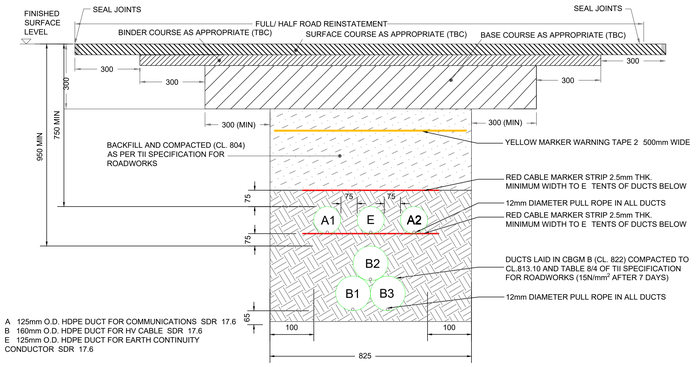


REFER TO 60634578-ACM-DR-CE-010A

WC1 - BALLYGLASS RIVER/CULVERT CROSSING PLAN
1:250

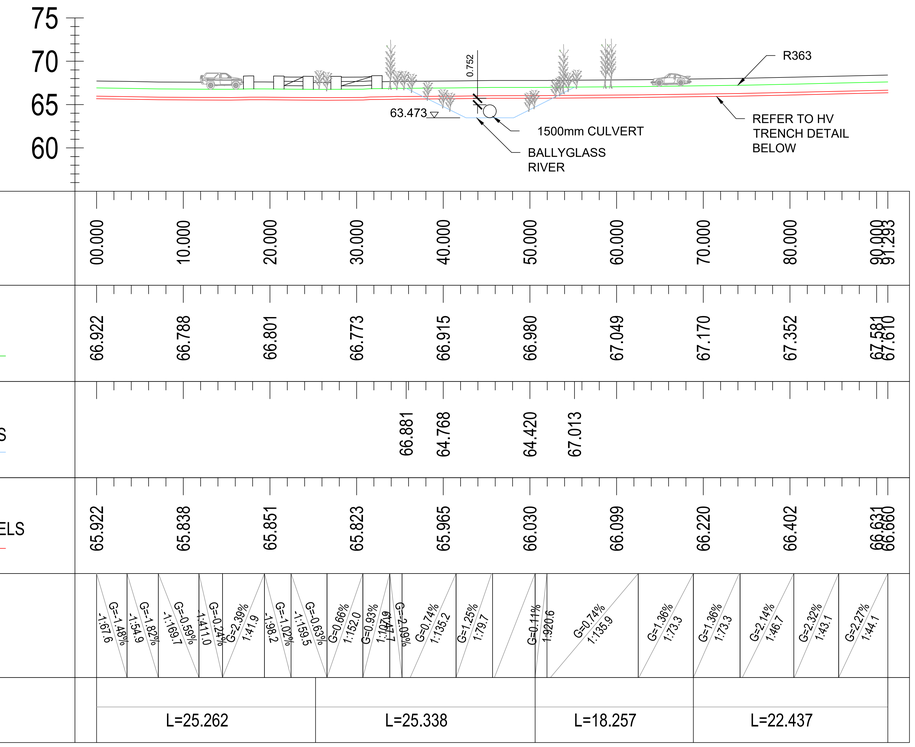
WC1 - SITE PHOTO
FACING WEST

WC1 - SITE PHOTO
FACING EAST



A 125mm O.D. HDPE DUCT FOR COMMUNICATIONS SDR 17.6
B 160mm O.D. HDPE DUCT FOR HV CABLE SDR 17.6
E 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR SDR 17.6

CROSS SECTION INDICATING TRENCH FOR 33KV CIRCUIT UNDER ROADS (TREFOIL)
NTS



WC1 - BALLYGLASS RIVER/CULVERT CROSSING LONGSECTION
1:250

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PROJECT

SEVEN HILLS WINDFARM (PROPOSED 110KV CABLE ROUTE)

CLIENT

energia Switched on

CONSULTANT

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4. ALL LEVELS AND COVER DEPTHS ARE SUBJECT TO DETAILED PRE- WORKS TOPOGRAPHIC SURVEY AND CONSTRUCTION DRAWINGS IN ADVANCE OF ANY WORKS . NOTE ALL ESTIMATED TRENCH LEVELS ARE TO CROWN OF HV DUCT AND/OR HDD PIPE.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECTS PLANNING DRAWINGS.
6. ALL PUBLIC ROAD WORKS AND OPENING AND REINSTATEMENTS OF PAVEMENTS TO BE UNDERTAKEN IN ACCORDANCE WITH PRE- APPROVED COUNCIL LICENCE AND A TEMPORARY TRAFFIC MANAGEMENT PLAN IN ACCORDANCE WITH CHAPTER 8 TSM.
7. PROPOSED SITE ACCESS TO CROSSINGS AND E IT SITE COMPOUNDS TO BE AGREED WITH ALL RELEVANT PUBLIC AND PRIVATE PARTIES IN ADVANCE OF ANY WORKS.
8. PRIOR TO CONSTRUCTION CONSULTATION WILL BE HELD WITH LOCAL COUNTY COUNCIL WITH RESPECT TO APPROVING THE FINAL DESIGN FOR CROSSINGS OVER THEIR RESPECTIVE ASSETS.
9. CONTRACTOR TO VERIFY GROUND CONDITIONS THROUGH ADDITIONAL GEOTECHNICAL INVESTIGATIONS AND BOREHOLES IN ADJOINING LANDS .
10. ALL WORKS TO CONFORM TO PLANNING CONDITION AND APPROVALS.
11. THESE WORKS TO BE UNDERTAKEN IN CONJUNCTION WITH THE PROJECTS APPROVED PRE CONSTRUCTION HEALTH AND SAFETY FILE AND ASSOCIATED RAMS AND RISK ASSESSMENTS.
12. CONTRACTOR TO UNDERTAKE APPROVED SITE INVESTIGATE FOR ALL ASSOCIATED UTILITIES AND STRUCTURAL REPORT FOR RELEVANT BUILDINGS AND STRUCTURES.
13. ALL LANDSCAPE AND ENVIRONMENTAL WORKS TO CONFORM TO THE EIAR.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P0	26/04/2022	FIRST ISSUE

KEY:

PROPOSED NORTHERN INTERNAL WF 33KV CABLE ROUTE
EXISTING WATERMAIN — W —
EXISTING WATERCOURSE
EXISTING LV (400V/230V) OVERHEAD ROUTE — OH —

STATUS

FIRST ISSUE

PROJECT NUMBER PR-471040

SCALE AS SHOWN @ A0

SHEET TITLE

SEVEN HILLS WINDFARM (PROPOSED 33KV CABLE ROUTE) WC1 - BALLYGLASS RIVER/CULVERT CROSSING

SHEET NUMBER 60634578-ACM-DR-CE-041

REV P0

Designer : AF Checked : RL Approved : PA

Last saved by: PHILIP.STEWART(2022-04-27) Last Plotted: 2022-04-27

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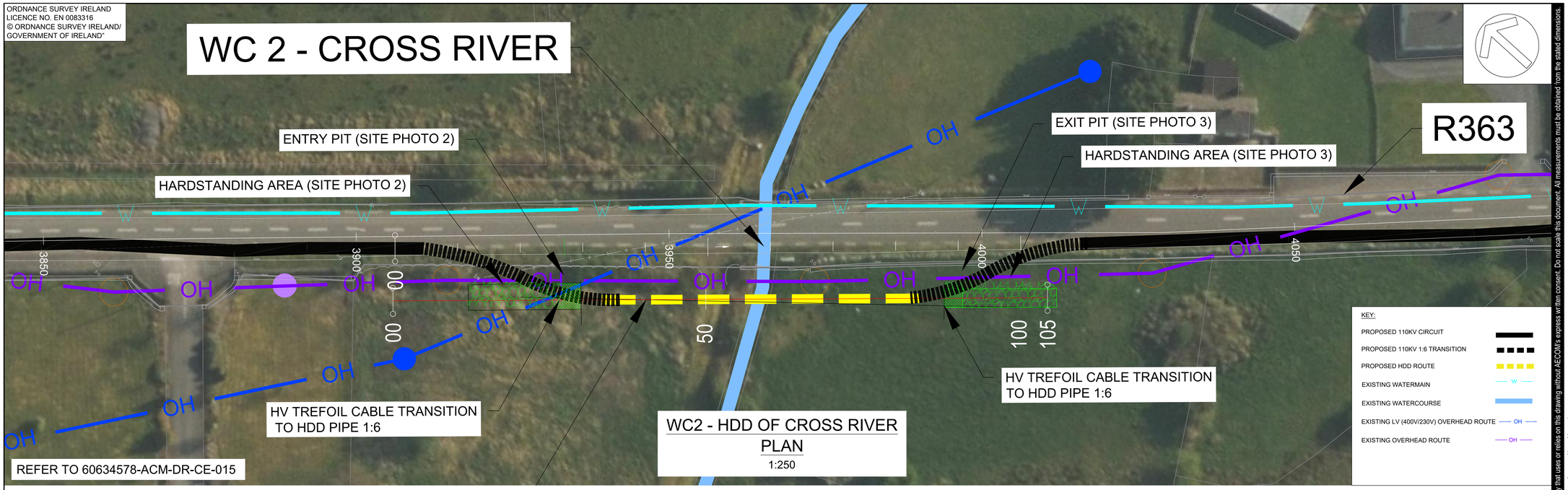
WC 2 - CROSS RIVER



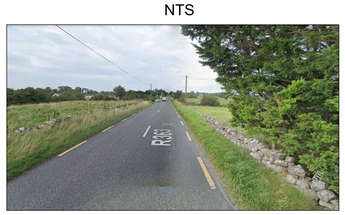
KEY:

- PROPOSED 110KV CIRCUIT
- PROPOSED 110KV 1:6 TRANSITION
- PROPOSED HDD ROUTE
- EXISTING WATERMAIN (W)
- EXISTING WATERCOURSE
- EXISTING LV (400V/230V) OVERHEAD ROUTE (OH)
- EXISTING OVERHEAD ROUTE (OH)

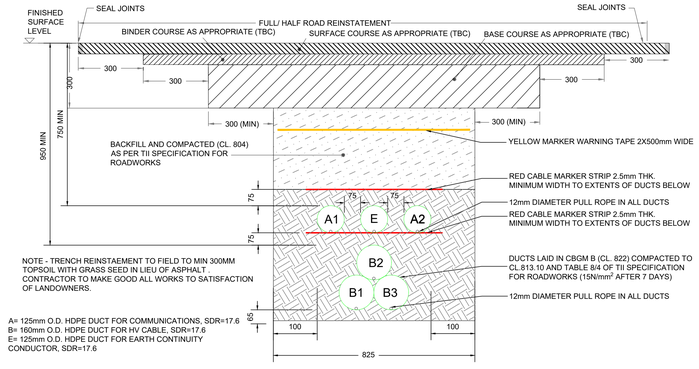
WC2 - HDD OF CROSS RIVER PLAN
1:250

WC2 - SITE PHOTO 1
CROSS RIVER BRIDGE - FACING EAST

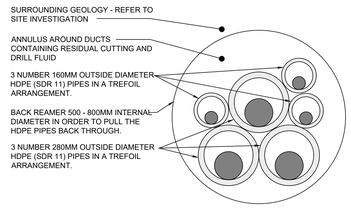
WC2 - SITE PHOTO 2
ENTRY PIT LOCATION - FACING EAST



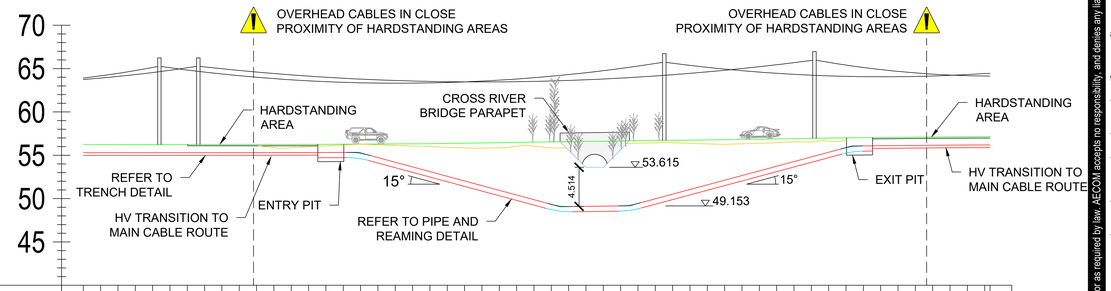
WC2 - SITE PHOTO 3
EXIT PIT LOCATION - FACING WEST



CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS (TREFOIL)
NTS



PIPE AND REAMING ARRANGEMENT CROSS SECTION
NTS



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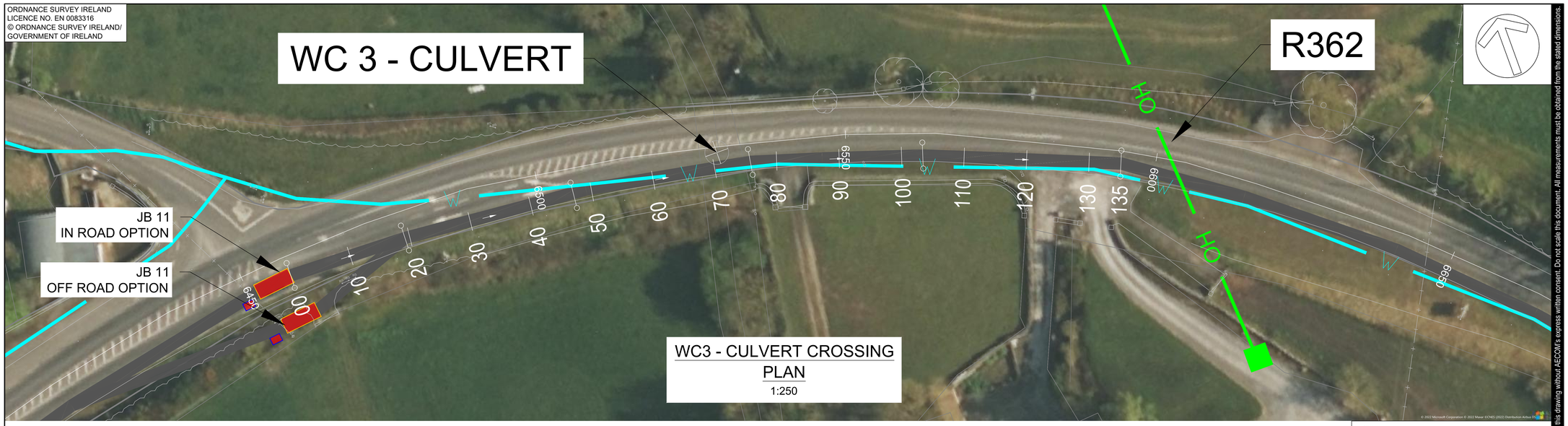
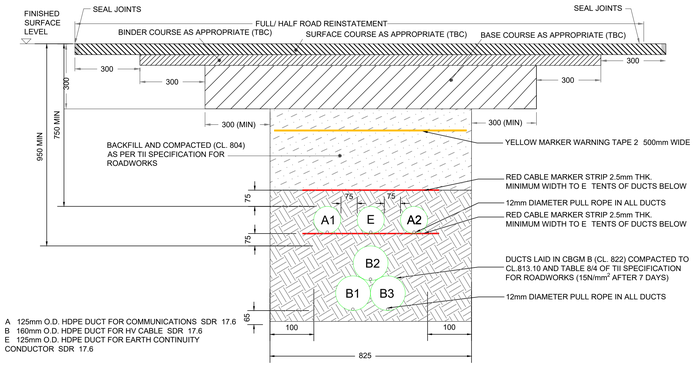


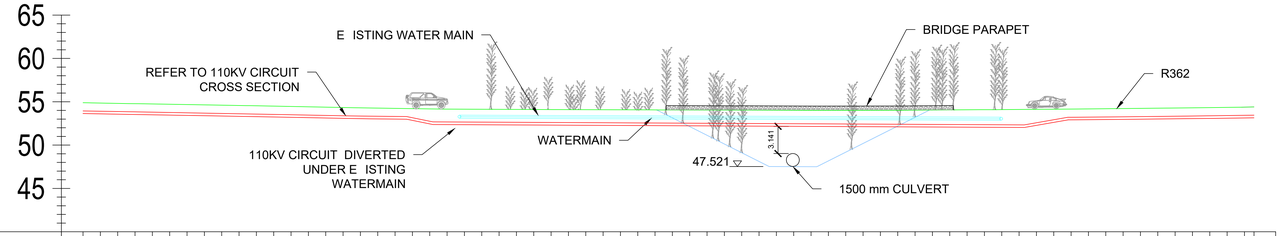
WC3 - CULVERT CROSSING PLAN
1:250



CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS (TREFOIL)
NTS

WC3 - SITE PHOTO
FACING EAST

WC3 - SITE PHOTO
FACING WEST



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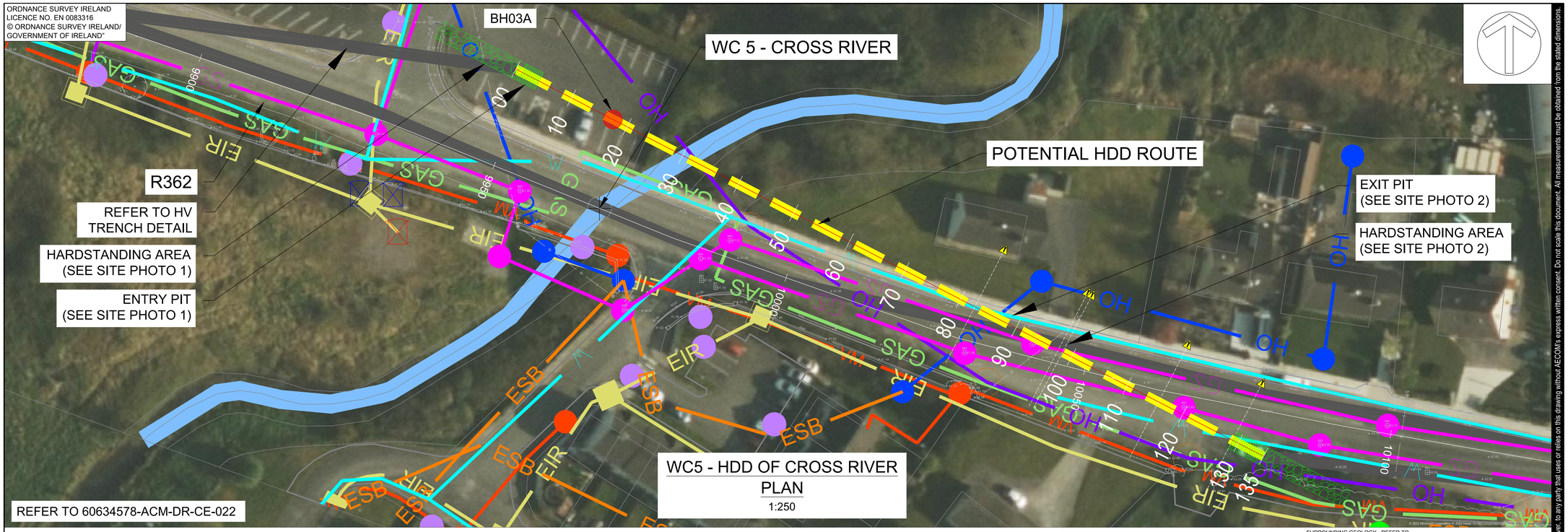
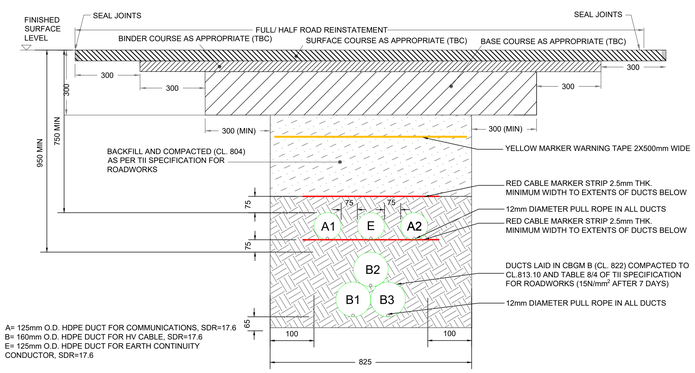


WC5 - HDD OF CROSS RIVER
PLAN
1:250

SITE PHOTO 1
FACING EAST

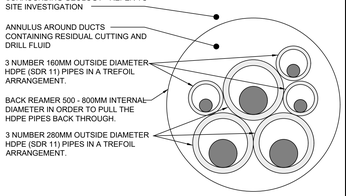
SITE PHOTO 2
FACING WEST

SITE PHOTO 3
FACING EAST



A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS, SDR=17.6
B= 160mm O.D. HDPE DUCT FOR HV CABLE, SDR=17.6
E= 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR, SDR=17.6

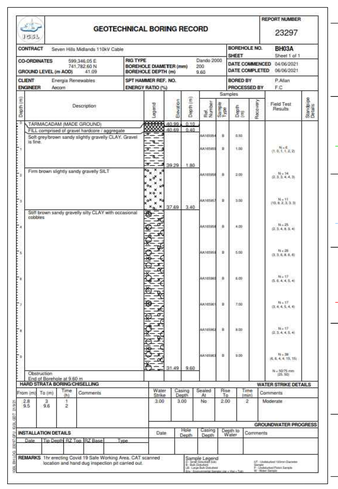
CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS (TREFOIL)
NTS



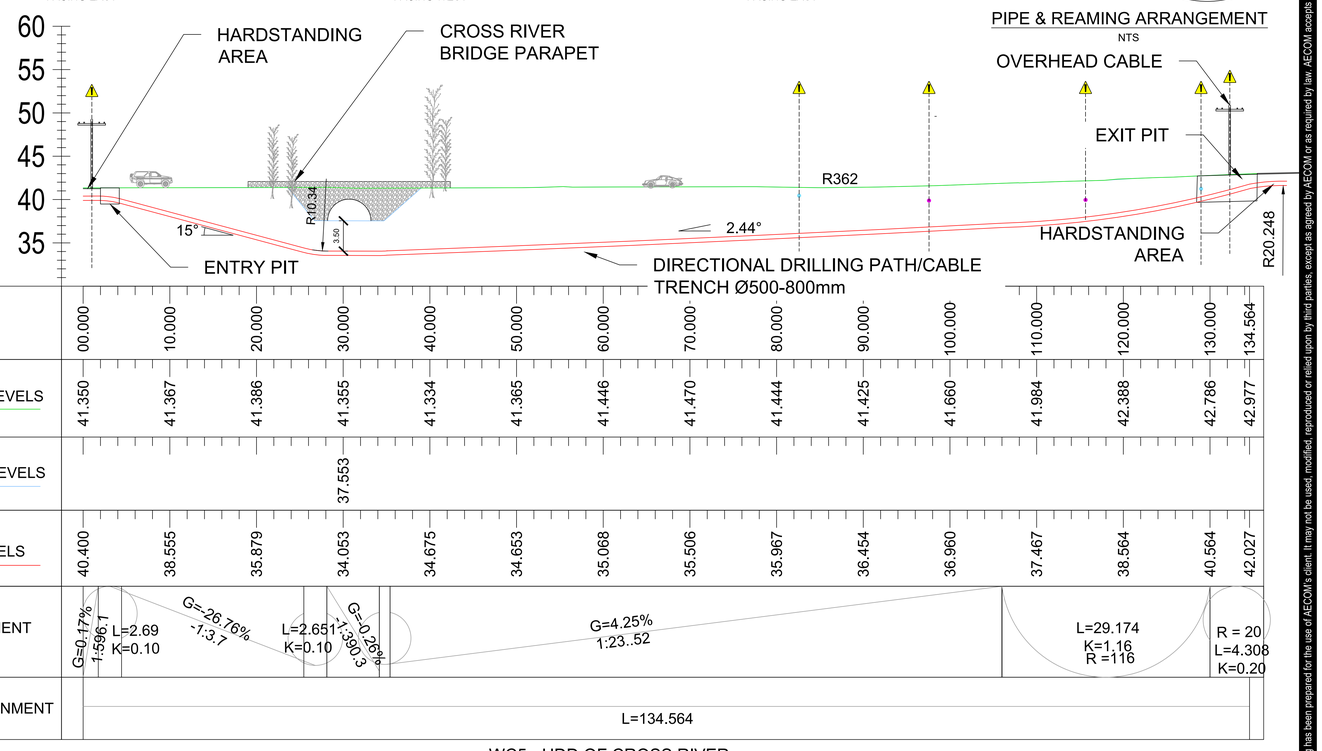
PIPE & REAMING ARRANGEMENT
NTS

KEY

- PROPOSED HDD ROUTE
- EIR — OVERHEAD ROUTE
- BT — UNDERGROUND BT APPARATUS
- OH — ESB MV (10KV/20KV) OVERHEAD
- ESB — ESB MV/LV (10KV/20KV/400V/230V) UNDERGROUND
- ESB POLE
- W — WATERMAIN
- GS — GRAVITY SEWER
- GRAVITY SEWER MANHOLE
- VM — VIRGIN MEDIA UNDERGROUND
- VIRGIN MEDIA UTILITY BOX
- ENET — ENET DUCT
- ENET CHAMBER
- PROPOSED 110KV CONNECTION TO SUBSTATION
- INDICATIVE PROPOSED JOINT BOX LOCATION
- INDICATIVE PROPOSED COMMUNICATIONS CHAMBER LOCATION
- HAZARD WARNING



BH03A - BOREHOLE DRILLING RECORD SHEET



WC5 - HDD OF CROSS RIVER
LONGSECTION
1:250

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AECOM

PROJECT

SEVEN HILLS WINDFARM (PROPOSED 110KV CABLE ROUTE)

CLIENT

energia Switched on

CONSULTANT

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3. ALL DIMENSIONS IN MILLIMETRES, ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
4. ALL LEVELS AND COVER DEPTHS ARE SUBJECT TO DETAILED PRE- WORKS TOPOGRAPHIC SURVEY AND CONSTRUCTION DRAWINGS IN ADVANCE OF ANY WORKS . NOTE ALL ESTIMATED TRENCH LEVELS ARE TO CROWN OF HV DUCT AND/OR HDD PIPE.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECTS PLANNING DRAWINGS.
6. PROPOSED SITE ACCESS TO DRILLING AND EXIT SITE COMPOUNDS TO BE AGREED WITH ALL RELEVANT PUBLIC AND PRIVATE PARTIES IN ADVANCE OF ANY WORKS.
7. PRIOR TO CONSTRUCTION , CONSULTATION WILL BE HELD WITH ROSCOMMON COUNTY COUNCIL WITH RESPECT TO APPROVING THE FINAL DESIGN FOR HDD UNDER THEIR RESPECTIVE ASSETS.
8. DRILLING TO BE LOCATED MIN 25M AWAY FROM ANY STRUCTURES / WATERCOURSES.
9. CONTRACTOR TO VERIFY GROUND CONDITIONS THROUGH ADDITIONAL GEOTECHNICAL INVESTIGATIONS AND BOREHOLES IN ADJOINING LANDS.
10. ALL WORKS TO CONFORM TO PLANNING CONDITION AND APPROVALS.
11. THESE WORKS TO BE UNDERTAKEN IN CONJUNCTION WITH THE PROJECTS APPROVED PRE CONSTRUCTION HEALTH AND SAFETY FILE AND ASSOCIATED RAMS AND RISK ASSESSMENTS.
12. CONTRACTOR TO UNDERTAKE APPROVED SITE INVESTIGATE FOR ALL ASSOCIATED UTILITIES AND STRUCTURAL REPORT FOR RELEVANT BUILDINGS AND STRUCTURES.
13. ALL LANDSCAPE AND ENVIRONMENTAL WORKS TO CONFORM TO THE EIAR.
14. ALL PUBLIC ROAD WORKS AND OPENING AND REINSTATEMENTS OF PAVEMENTS TO BE UNDERTAKEN IN ACCORDANCE WITH PRE- APPROVED COUNCIL LICENCE AND A TEMPORARY TRAFFIC MANAGEMENT PLAN IN ACCORDANCE WITH CHAPTER 8. TSM

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P0	27/04/2022	FIRST ISSUE

STATUS

FIRST ISSUE

PROJECT NUMBER PR-471040

SCALE AS SHOWN @ A0

SHEET TITLE

SEVEN HILLS WINDFARM (PROPOSED 110kV CABLE ROUTE) WC5 - HDD OF CROSS RIVER

SHEET NUMBER 60634578-ACM-DR-CE-044

REV P0

Designer : AF Checked : RL Approved : PA

Last saved by: PHILLIP.ADAMS1(2022-04-27) Last Plotted: 2022-04-28

Designer : AF Checked : RL Approved : PA

ORDNANCE SURVEY IRELAND
LICENCE NO. EN 0083316
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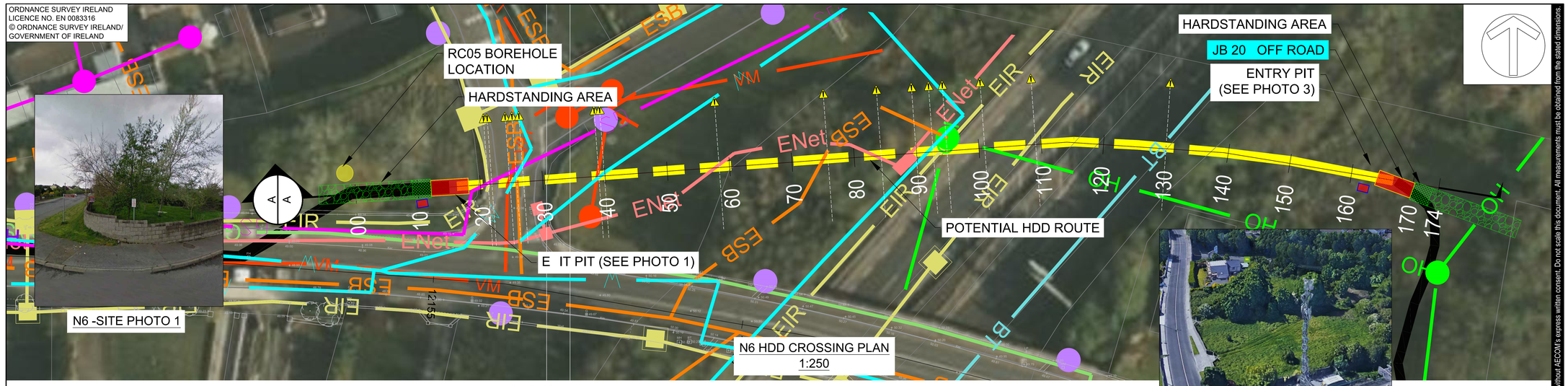
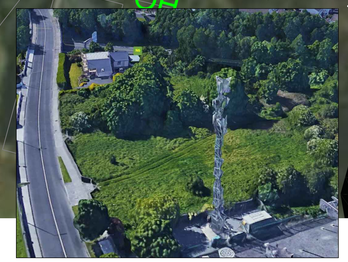
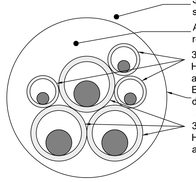
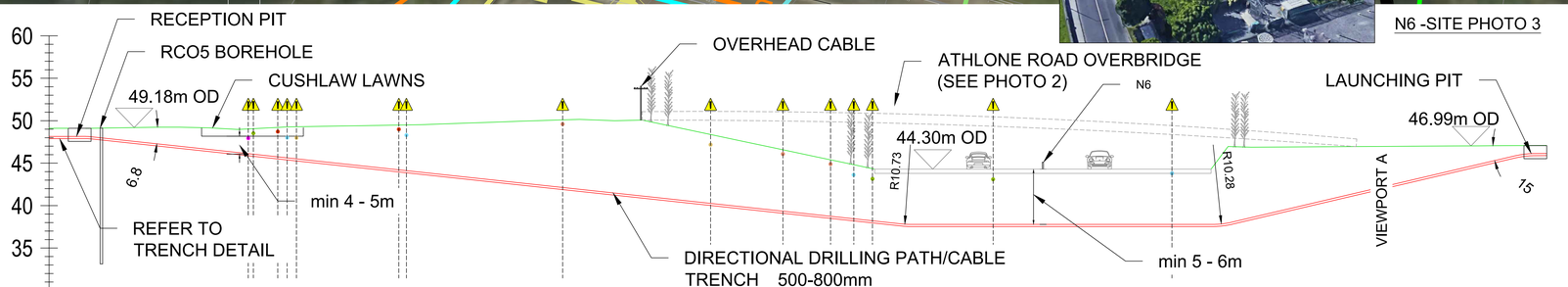






Surrounding geology - refer to site investigation
Annulus around ducts containing residual cutting and drill fluid
3 num er 160mm outside diameter HDPE (SDR 11) i es in a TreFoil arrangement.
Back reamer ill e 500-800mm internal diameter in order to ull the HDPE i es ack through.
3 num er 280mm outside diameter HDPE (SDR 11) i es in a TreFoil arrangement.

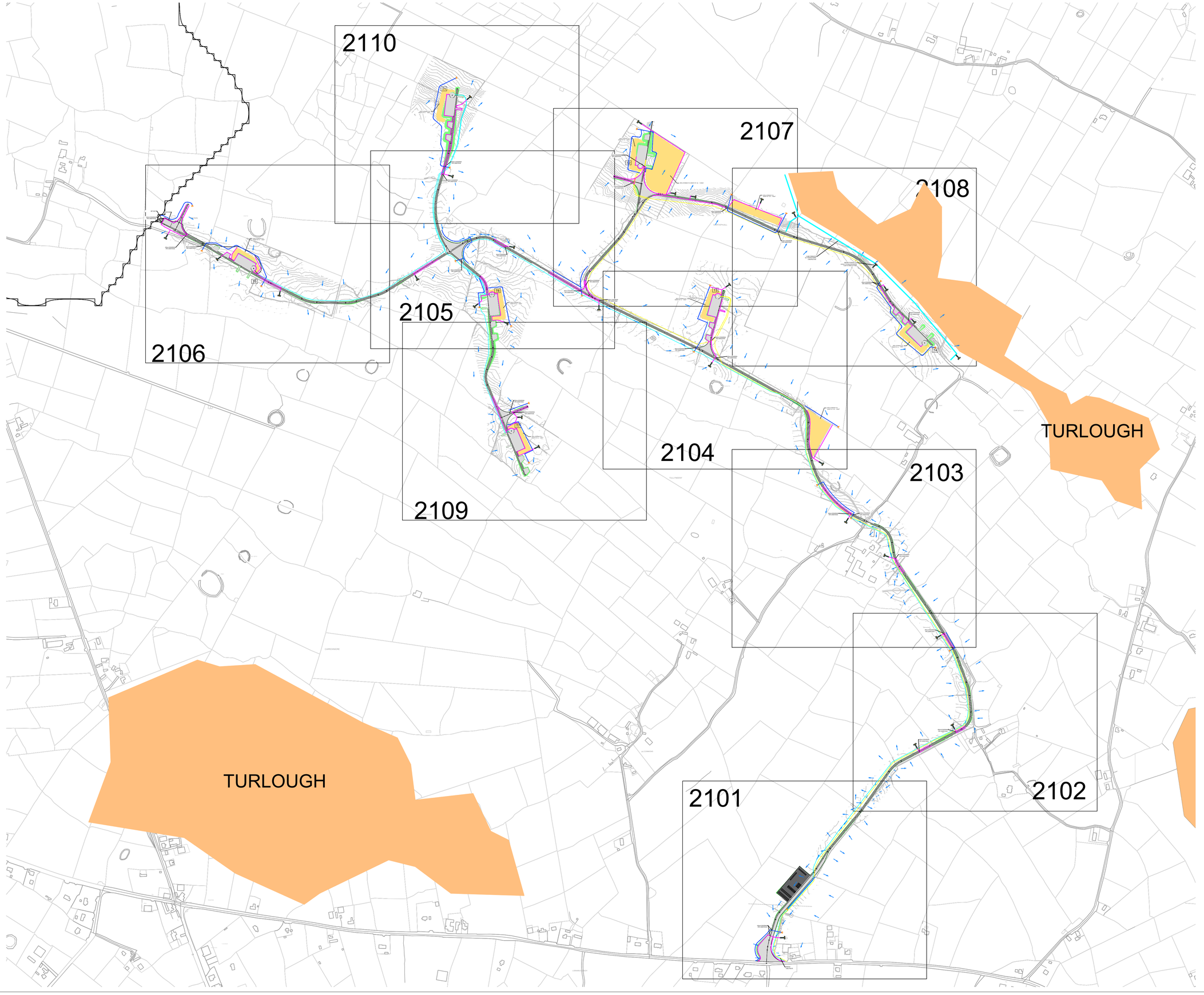
PIPE REAMING ARRANGEMENT SECTION
B-B
NTS



KEY

EIR OVERHEAD ROUTE	EIR
UNDERGROUND BT APPARATUS	BT
ESB MV (10KV/20KV) OVERHEAD	OH
ESB MV/LV (10KV/20KV/400V/230V) UNDERGROUND	ESB
ESB POLE	
WATERMAIN	W
GRAVITY SEWER	GS
GRAVITY SEWER MANHOLE	
VIRGIN MEDIA UNDERGROUND	VM
VIRGIN MEDIA UTILITY BO	
ENET DUCT	ENET
ENET CHAMBER	
110KV CONNECTION TO SUBSTATION	
INDICATIVE PROPOSED JOINT BO LOCATION	
PROPOSED COMMUNICATIONS CHAMBER LOCATION	
PROPOSED HDD ROUTE	
HA ARD WARNING	

| | | |



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- FILL EMBANKMENT
- HARD STAND
- STONE BERM
- TURLOUGH
- PEAT STORAGE
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- CLEAN WATER DRAIN
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- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
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- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
DRAINAGE & CABLE ROUTE LAYOUT - NORTH
DRAWING LAYOUT PLAN

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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E-mail: limerick@mwp.ie
Web: www.mwp.ie

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DRAWN:	CHECKED:	APPROVED:
MW	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:5000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2125 REV: P02

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- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P03	01 / 06 / 22	SUB STATION UPDATED	MW	BS
P02	08 / 02 / 22	SUB STATION UPDATED	MW	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT: SEVEN HILLS WF

TITLE: DRAINAGE & CABLE ROUTE LAYOUT - SOUTH
DRAWING LOCATION PLAN

CLIENT: energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
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Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
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PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2126 REV: P03

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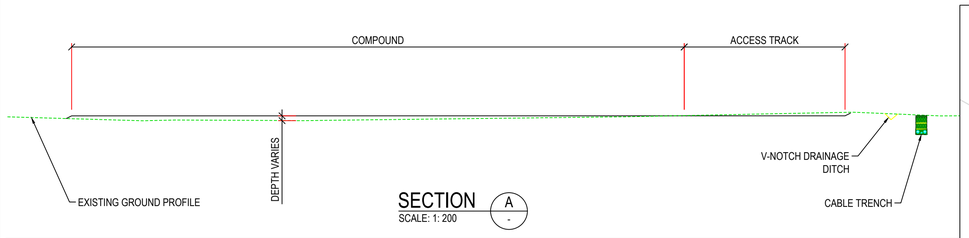

SECTION A
SCALE: 1: 200

ROAD DESIGN/DRAINAGE PHILOSOPHY

- REFER TO THE DRAINAGE MANAGEMENT PLAN 21337-6006 FOR BACKGROUND INFORMATION ON THE DRAINAGE METHODOLOGY PROPOSED FOR THE SITE.
- CLEAN WATER CUT-OFF DRAINS ARE TO BE PROVIDED WHERE CLEAN WATER WILL NOT PASS THROUGH THE INFRASTRUCTURE THROUGH PERCOLATION OR WHERE MIXING WITH DIRTY WATER IS POSSIBLE.
- CLEAN WATER IS TO BE KEPT SEPARATE FROM DIRTY WATER AT ALL LOCATIONS.
- DIRTY WATER IS TO BE TREATED IN SETTLEMENT PONDS PRIOR TO DISCHARGE. REFER TO ACCOMPANYING DRAWING SHOWING SETTLEMENT POND CONSTRUCTION.
- BUFFERED OUTFALLS ARE TO BE PROVIDED AT THE DOWNHILL ENDS OF THE CLEAN AND DIRTY WATER SYSTEMS.
- CHECKDAMS ARE TO BE PROVIDED AT 50m c/c IN ROADSIDE DRAINS.
- EXISTING DRAINAGE PATHWAYS TRAVERSED BY THE NEW INFRASTRUCTURE ARE TO BE PIPED TO ENSURE THE CURRENT DRAINAGE REGIME IS MAINTAINED. THESE SHALL BE PROVIDED WITH CHECK DAMS AT 50m DISTANCE DOWNHILL OF THE CROSSING TO PROVIDE A METHOD FOR SETTLEMENT OF ANY SUSPENDED MATERIAL THAT MAY ENTER THESE WATERCOURSES.
- WHERE TURLOUGHS ARE PRESENT CLOSE TO THE PROPOSED INFRASTRUCTURE 3 LINES OF TERRASTOP SILT FENCES WILL BE PROVIDED AS A SEPARATION MATERIAL TO TRAP ALL WATER FLOWING DOWNHILL FROM THE WORKS. THIS WILL ACT AS A FURTHER CONTROL TO ALLOW SETTLEMENT OF SUSPENDED MATERIAL PRIOR TO DISCHARGE.
- ROADS TO CONSIST OF STONE ON COMBIGRID. CAPPING LAYER OF 100mm Cl.804 TO BE PROVIDED TO ROADS AS SOON AS POSSIBLE.
- ROAD SWEEPING TO BE EMPLOYED TO PREVENT GENERATION OF DIRTY WATER.
- CLEAN WATER CUT-OFF DRAINS TO BE PROVIDED ABOVE AREAS OF CUT OR SPOIL STORAGE AREAS. THESE ARE TO PASS THROUGH TO THE DOWNHILL SIDE OF THE INFRASTRUCTURE VIA 450mm RIDGIDRAIN PIPES.
- THE FLOW-RATE FOR PUMPED WATER FROM WTG EXCAVATIONS WILL BE LIMITED TO 5.8 L/s TO PREVENT OVERUSE OF THE SETTLEMENT PONDS.
- WTG EXCAVATIONS ARE TO BE REDUCED IN SIZE AS MUCH AS POSSIBLE TO LIMIT GENERATION OF SPOIL MATERIAL.
- SAND BLINDING, DPM AND CONCRETE BLINDING ARE TO BE PROVIDED AT FORMATION LEVEL TO CREATE A VERTICAL CUT-OFF BARRIER AND TO MITIGATE THE RISK OF CONCRETE LEAKAGE INTO THE GROUND BELOW.
- HARDSTANDS WILL BE UNDERLAIN WITH A TERRAM GEOTEXTILE TO ENCOURAGE LATERAL FLOW OF WATER AND LIMIT THE AMOUNT OF DIRECT DISCHARGE VERTICALLY INTO THE GROUND.
- ALL DRAINAGE MEASURES ARE TO BE LEFT IN PLACE FOLLOWING COMPLETION OF THE CONSTRUCTION WORKS FOR THE OPERATIONAL PHASE OF THE WIND FARM.

SUBSTATION FLOOR PLAN

450mm Ø RIGIDRAIN PIPE UNDER ROAD

ENERGIA CABLE ROUTE

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- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
21337-MWP-WF-00-DR-C-2101	DRAINAGE LAYOUT SHEET 1
21337-MWP-WF-00-DR-C-2102	DRAINAGE LAYOUT SHEET 2
21337MWP-WF-00-DR-C-2103	DRAINAGE LAYOUT SHEET 3
21337-MWP-WF-00-DR-C-2104	DRAINAGE LAYOUT SHEET 4
21337-MWP-WF-00-DR-C-2105	DRAINAGE LAYOUT SHEET 5
21337-MWP-WF-00-DR-C-2106	DRAINAGE LAYOUT SHEET 6
21337-MWP-WF-00-DR-C-2107	DRAINAGE LAYOUT SHEET 7
21337-MWP-WF-00-DR-C-2108	DRAINAGE LAYOUT SHEET 8
21337-MWP-WF-00-DR-C-2109	DRAINAGE LAYOUT SHEET 9
21337MWP-WF-00-DR-C-2110	DRAINAGE LAYOUT SHEET 10
21337MWP-WF-00-DR-C-2125	NORTH DRAINAGE KEYPLAN

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT SHEET 1

CLIENT: energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick
The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, V94 R578
Tel: +353 (0) 61 480164
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Web : www.mwp.ie

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MW	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-WF-00-DR-C-2101 REV: P02

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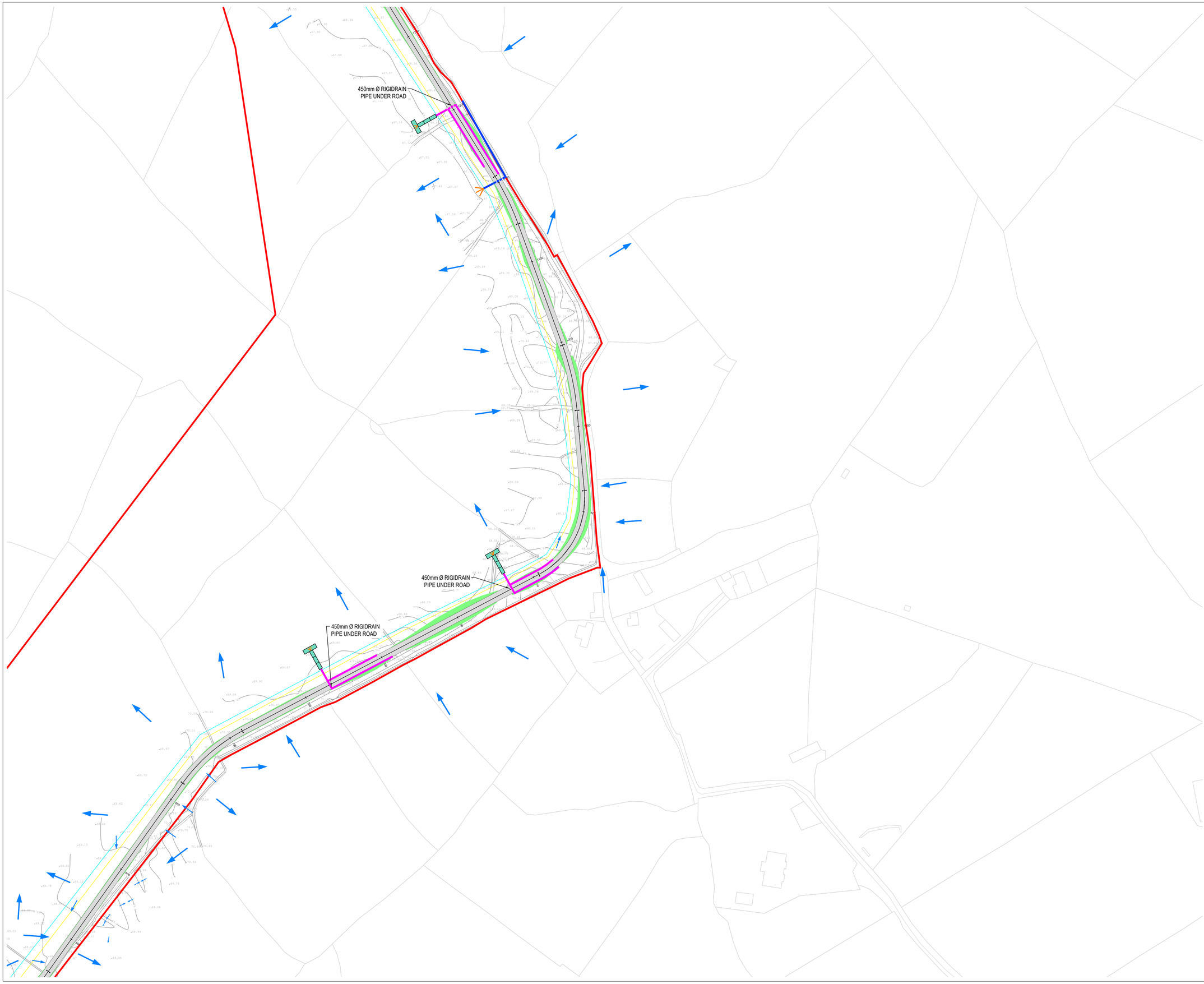

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REV	DATE	DESCRIPTION	BY	APP
P02	21 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 2

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
V94 R578

Tel : +353 (0) 61 480164
Fax : +353 (0) 61 471125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN: PK	CHECKED: PB	APPROVED: BS	
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000		
PROJECT NUMBER: 21337		DRAWING STATUS: S2	

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2102 REV: P02

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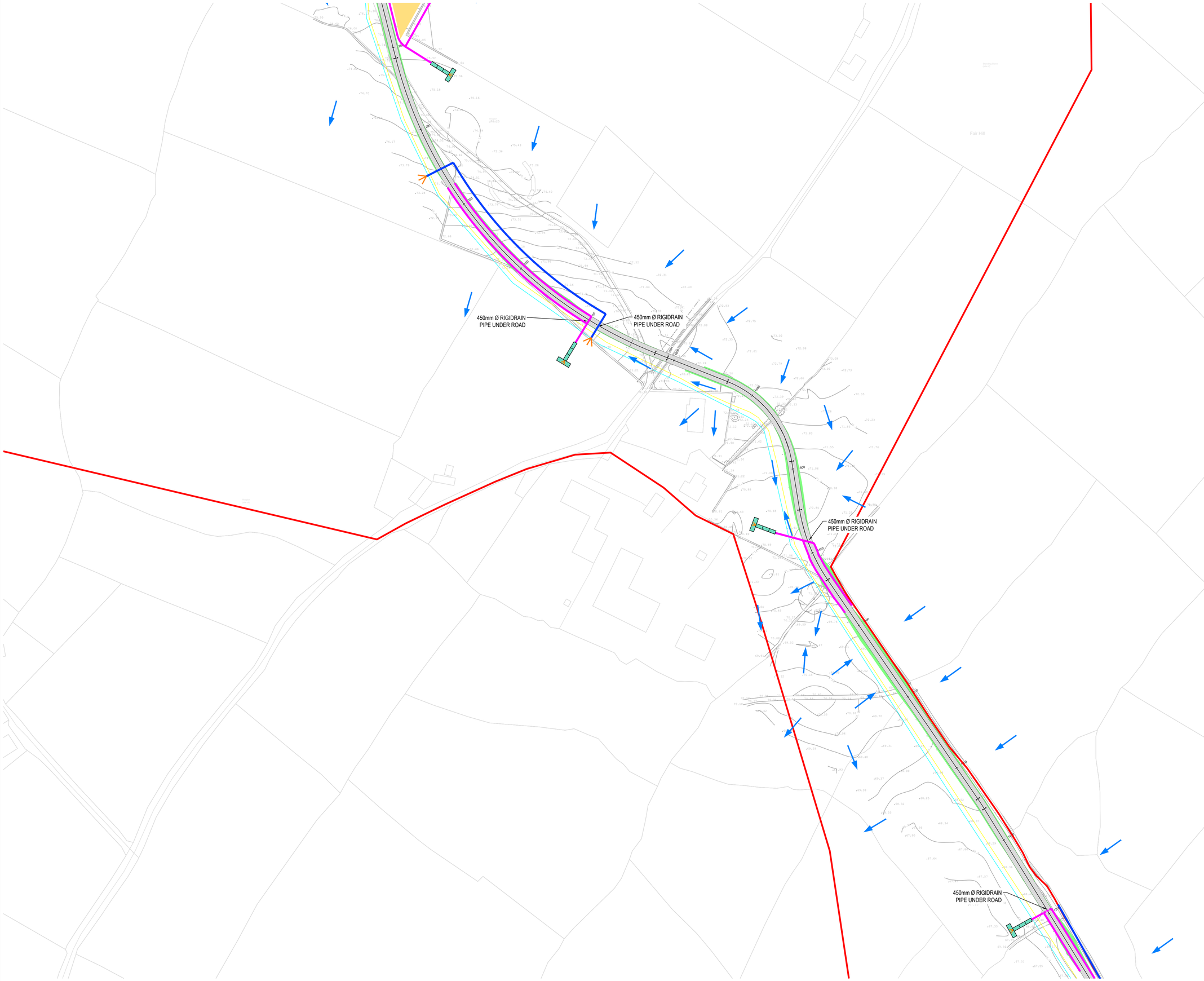

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REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 3

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick
The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
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Fax: +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
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PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2103
REV: P02

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4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METERS**, UNLESS NOTED OTHERWISE.

LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P03	01 / 06 / 22	ISSUED FOR INFORMATION	MW	BS
P02	12 / 04 / 22	ISSUED FOR INFORMATION	MW	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 4

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick
The Elm Suite,
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Limerick,
V94 R578
Tel : +353 (0) 61 480164
Fax : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2104 REV: P03

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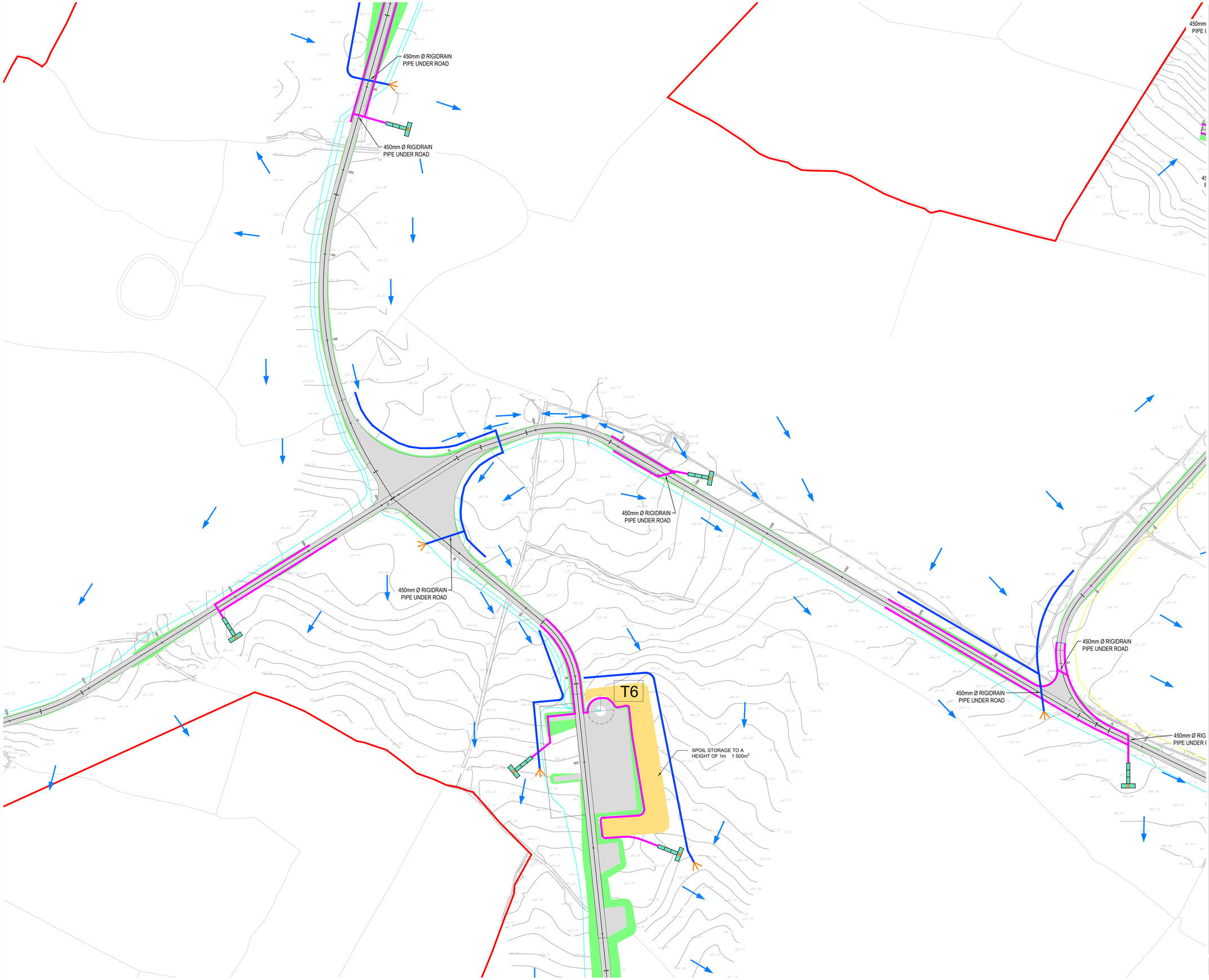

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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
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- STONE BERM
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- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 5

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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Limerick,
V94 R578

Tel: +353 (0) 61 480164
Fax: +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2105 REV: P02

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SUB-CATCHMENT BOUNDARY

MET MAST

HARDSTAND

450mm Ø RIGIDRAIN PIPE UNDER ROAD

450mm Ø RIGIDRAIN PIPE UNDER ROAD

450mm Ø RIGIDRAIN PIPE UNDER ROAD

SPOIL STORAGE TO A HEIGHT OF 1m 1 500m³

T5

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- STONE BERM
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- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 6

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
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Limerick,
V94 R578

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Web: www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS

DATE:	SCALE @ A1:	
01 / 06 / 22	1:1000	

PROJECT NUMBER:	DRAWING STATUS:
21337	S2

DRAWING NUMBER:	REV:
21337-MWP-ZZ-00-DR-C-2106	P02

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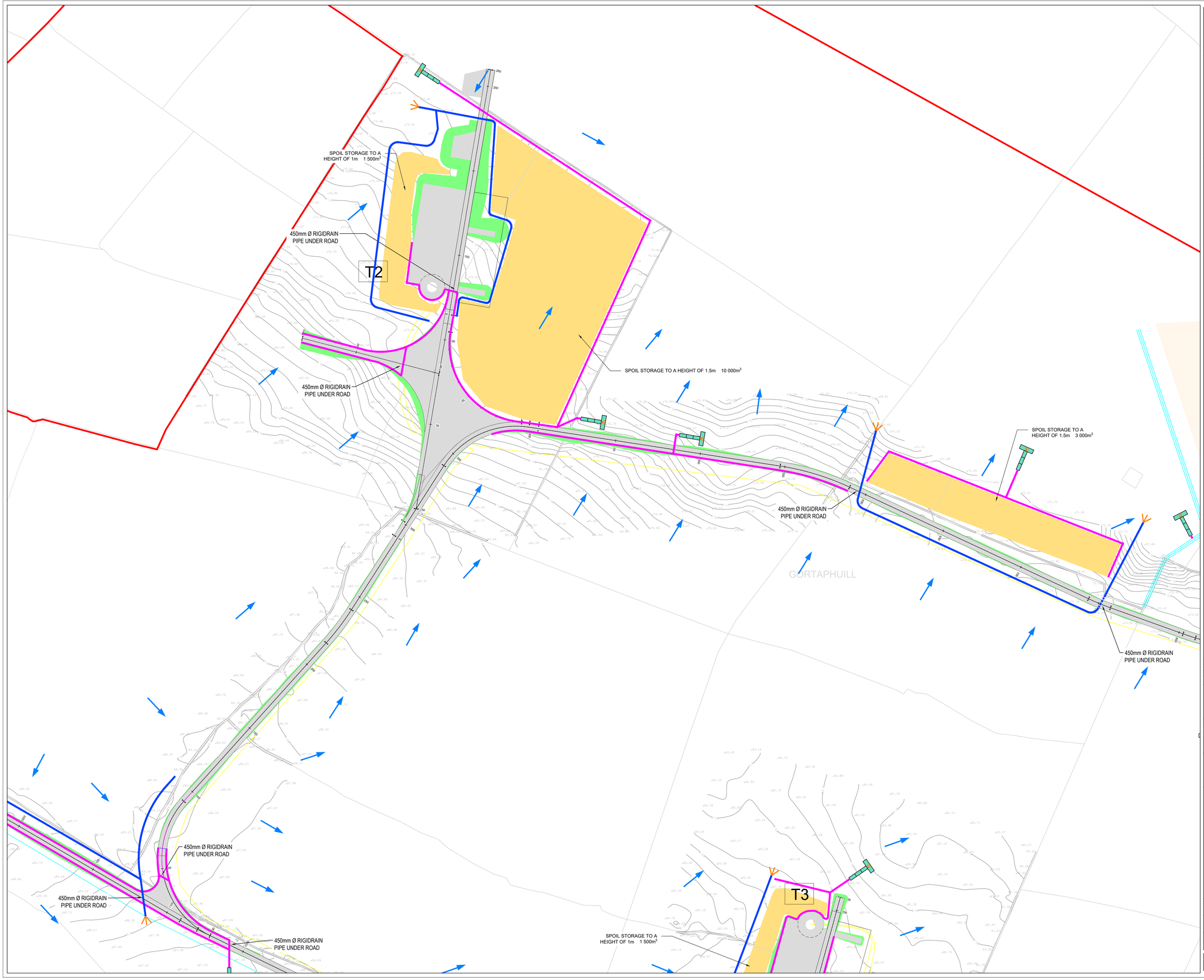

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- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P03	01 / 06 / 22	ISSUED FOR INFORMATION	MW	BS
P02	12 / 04 / 22	ISSUED FOR INFORMATION	MW	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 7

CLIENT:
energia
Switched on

Malachy Walsh and Partners
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Cork | Tralee | London | Limerick
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Tel : +353 (0) 61 480164
Fax : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2107 REV: P03

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- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

SPOIL STORAGE TO A HEIGHT OF 1.5m 3 000m³

450mm Ø RIGIDRAIN PIPE UNDER ROAD

3 LINES TERRASTOP SILT FENCING DURING CONSTRUCTION.

GROUND TO BE BUILT UP LOCALLY TO FACILITATE WATER FLOW TO FRONT OF POND

450mm Ø RIGIDRAIN PIPE UNDER ROAD

450mm Ø RIGIDRAIN PIPE UNDER ROAD

SPOIL STORAGE TO A HEIGHT OF 1m 1 500m³

T4

Gorta Inuill Fort

RIGIDRAIN
ER ROAD

REV	DATE	DESCRIPTION	BY	APP
P03	21 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 8

CLIENT: enErgia Switched on

Malachy Walsh and Partners
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Limerick,
V94 R578

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Fax : +353 (0) 61 471125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2108 REV: P02

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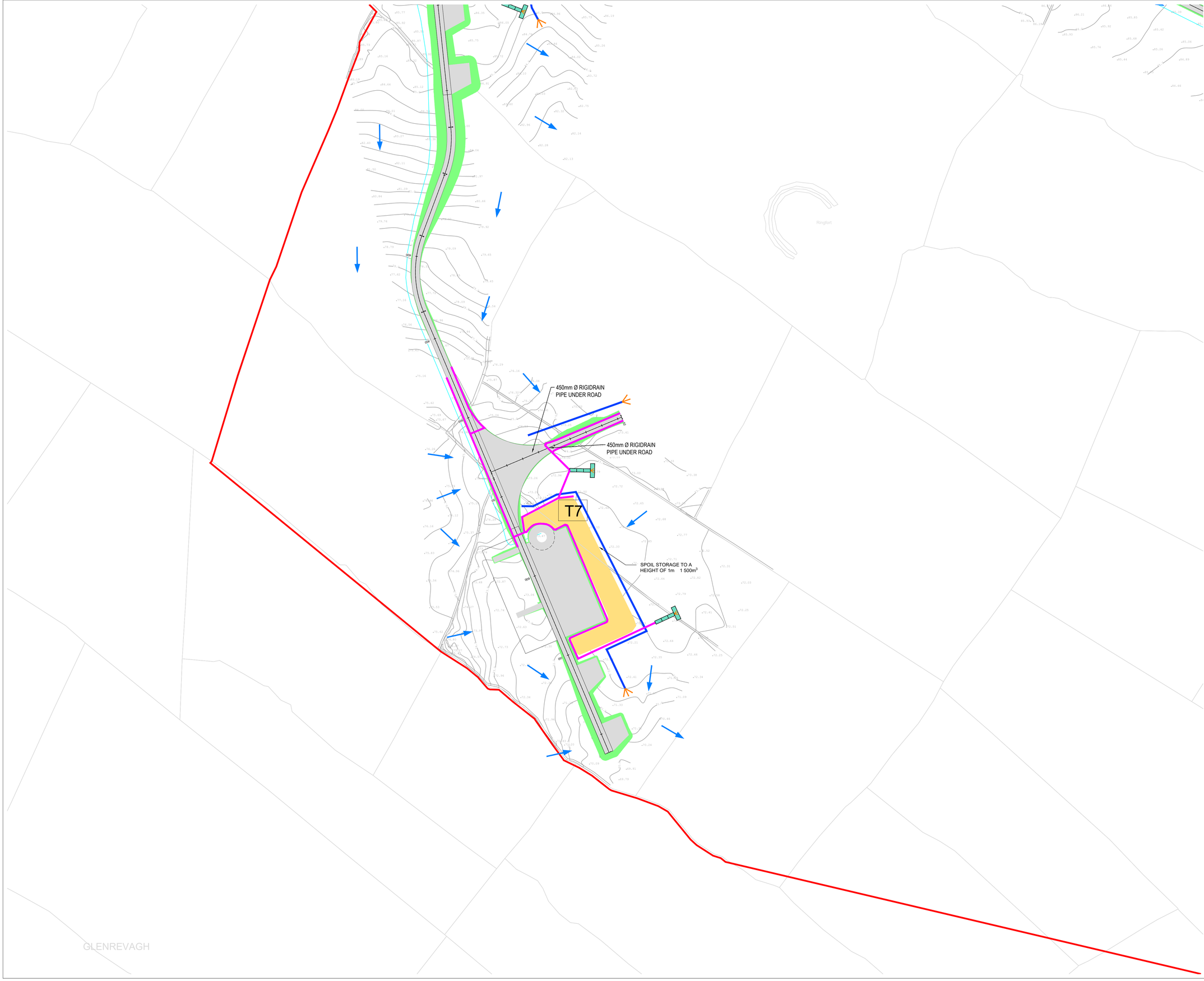

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REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 9

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
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Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2109 REV: P02

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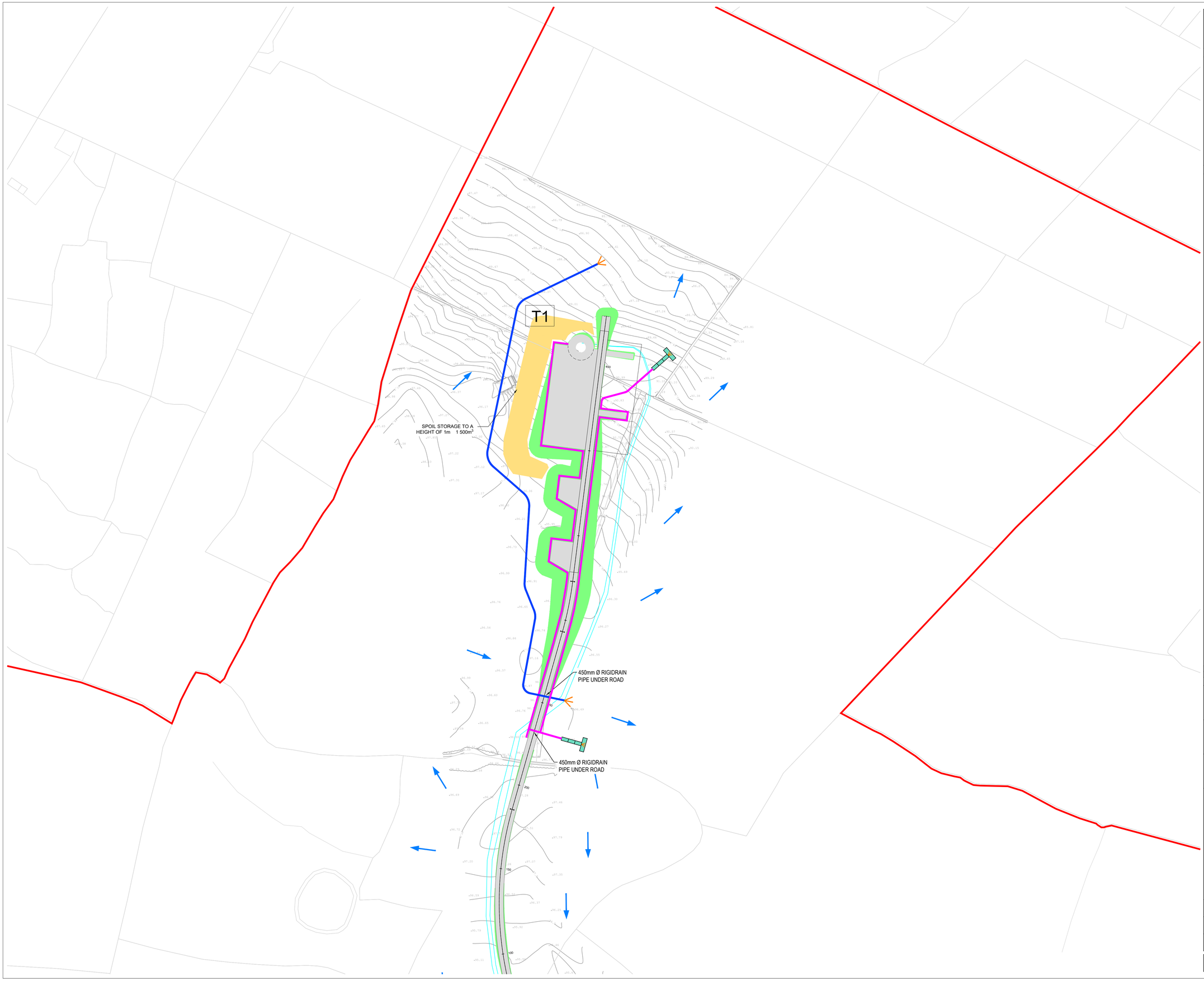

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REV	DATE	DESCRIPTION	BY	APP
P02	21 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 10

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
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The Elm Suite,
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Raheen Business Park,
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Tel : +353 (0) 61 480164
Fax : +353 (0) 61 471125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

I.S. EN ISO 9001

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2110 REV: P02

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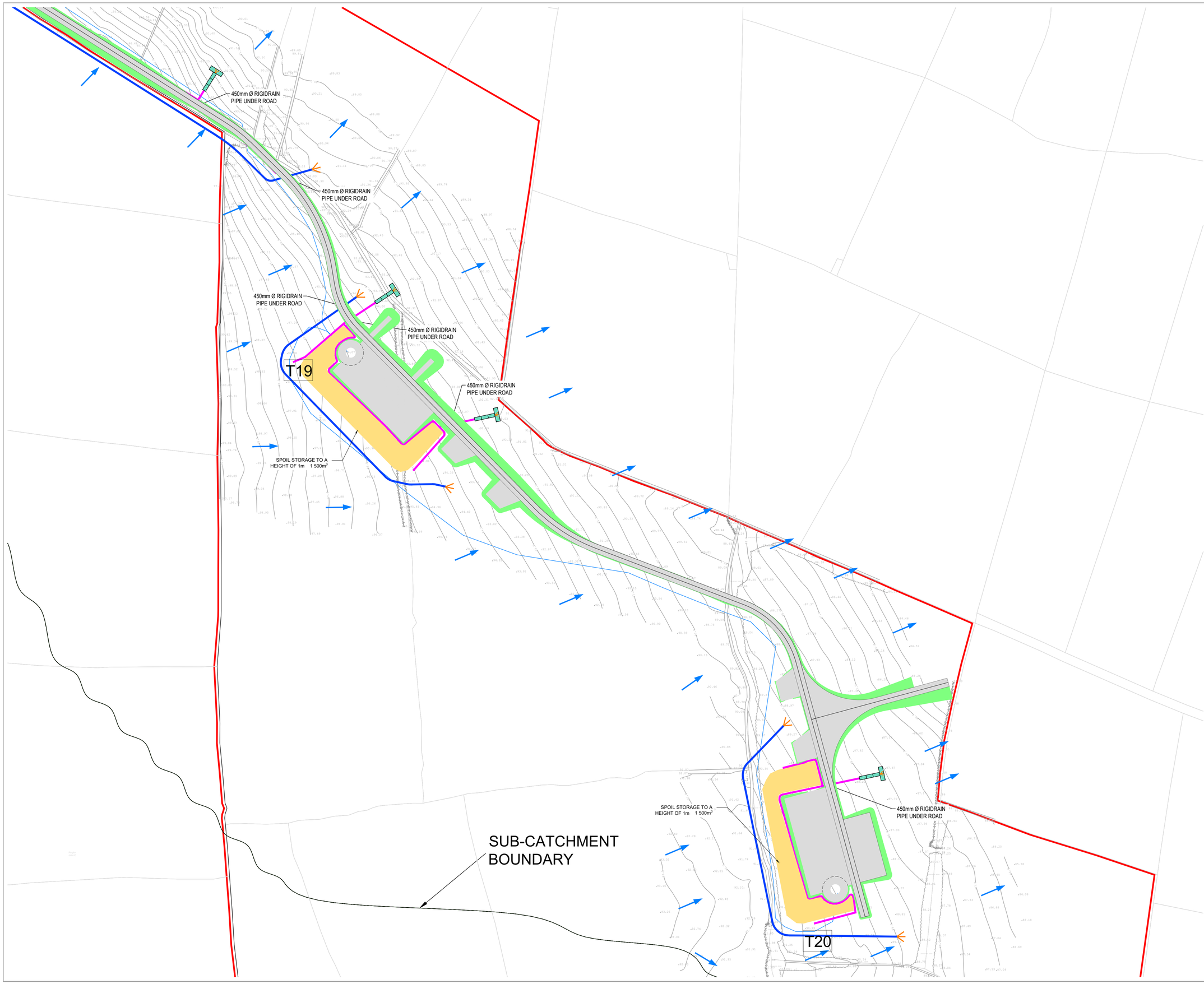

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- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
21337-MWP-WF-00-DR-C-2111	DRAINAGE LAYOUT SHEET 11
21337MWP-WF-00-DR-C-2112	DRAINAGE LAYOUT SHEET 12
21337-MWP-WF-00-DR-C-2113	DRAINAGE LAYOUT SHEET 13
21337-MWP-WF-00-DR-C-2114	DRAINAGE LAYOUT SHEET 14
21337-MWP-WF-00-DR-C-2115	DRAINAGE LAYOUT SHEET 15
21337-MWP-WF-00-DR-C-2116	DRAINAGE LAYOUT SHEET 16
21337-MWP-WF-00-DR-C-2117	DRAINAGE LAYOUT SHEET 17
21337-MWP-WF-00-DR-C-2118	DRAINAGE LAYOUT SHEET 18
21337MWP-WF-00-DR-C-2119	DRAINAGE LAYOUT SHEET 19
21337MWP-WF-00-DR-C-2120	DRAINAGE LAYOUT SHEET 20
21337MWP-WF-00-DR-C-2121	DRAINAGE LAYOUT SHEET 21
21337MWP-WF-00-DR-C-2122	DRAINAGE LAYOUT SHEET 22
21337MWP-WF-00-DR-C-2123	DRAINAGE LAYOUT SHEET 23
21337MWP-WF-00-DR-C-2124	DRAINAGE LAYOUT SHEET 24
21337MWP-WF-00-DR-C-2126	SOUTH DRAINAGE LAYOUT

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 11

CLIENT: energia Switched on

Malachy Walsh and Partners
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The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, V94 R578
Tel : +353 (0) 61 480164
Fax : +353 (0) 61 441105
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2111 REV: P02

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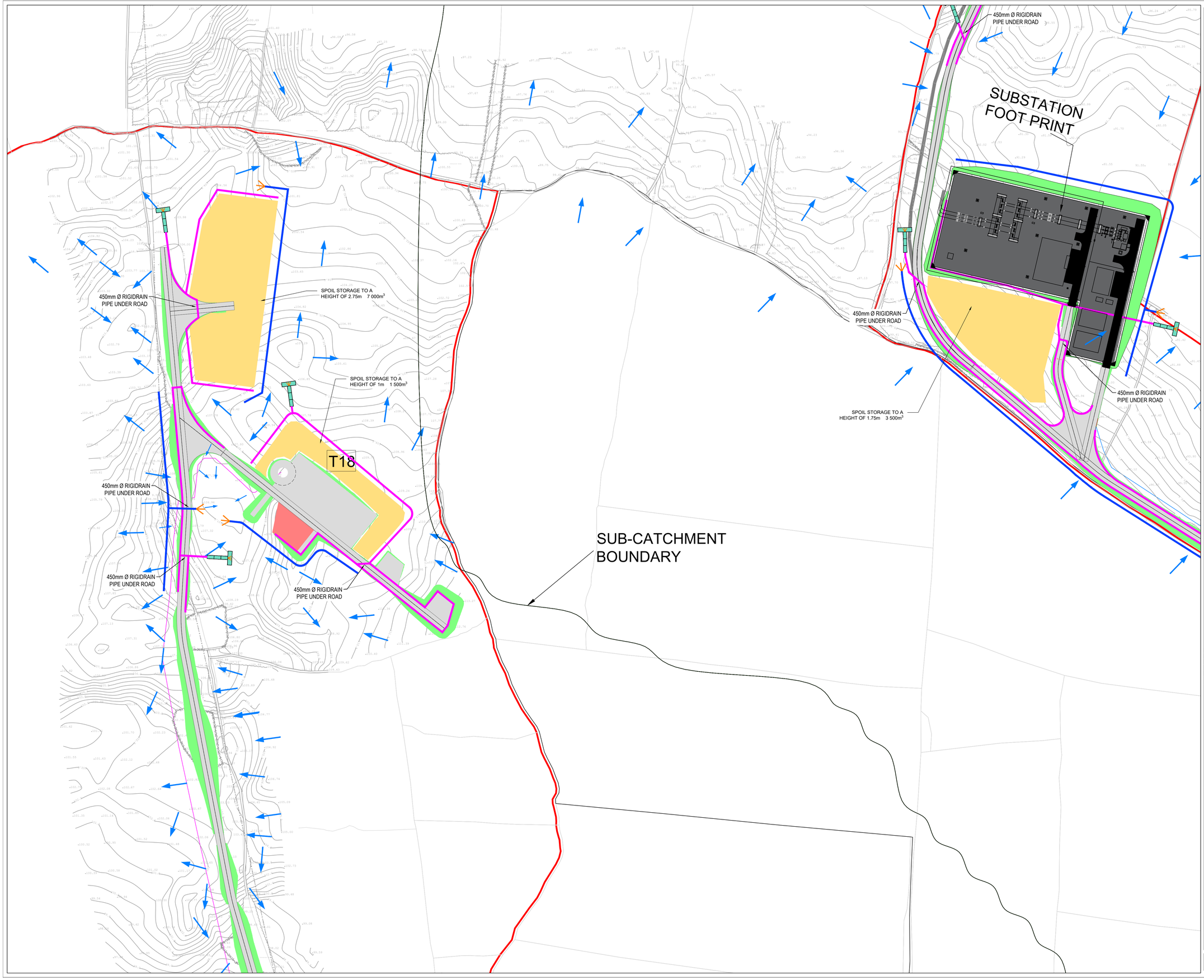

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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
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- LAND & STRUCTURE BOUNDARY
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- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P05	01 / 06 / 22	ISSUED FOR INFORMATION	MW	BS
P04	12 / 04 / 22	ISSUED FOR INFORMATION	MW	BS
P03	08 / 02 / 22	SUB STATION UPDATED	MW	BS
P02	04 / 02 / 22	SUB STATION UPDATED	MW	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 12

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
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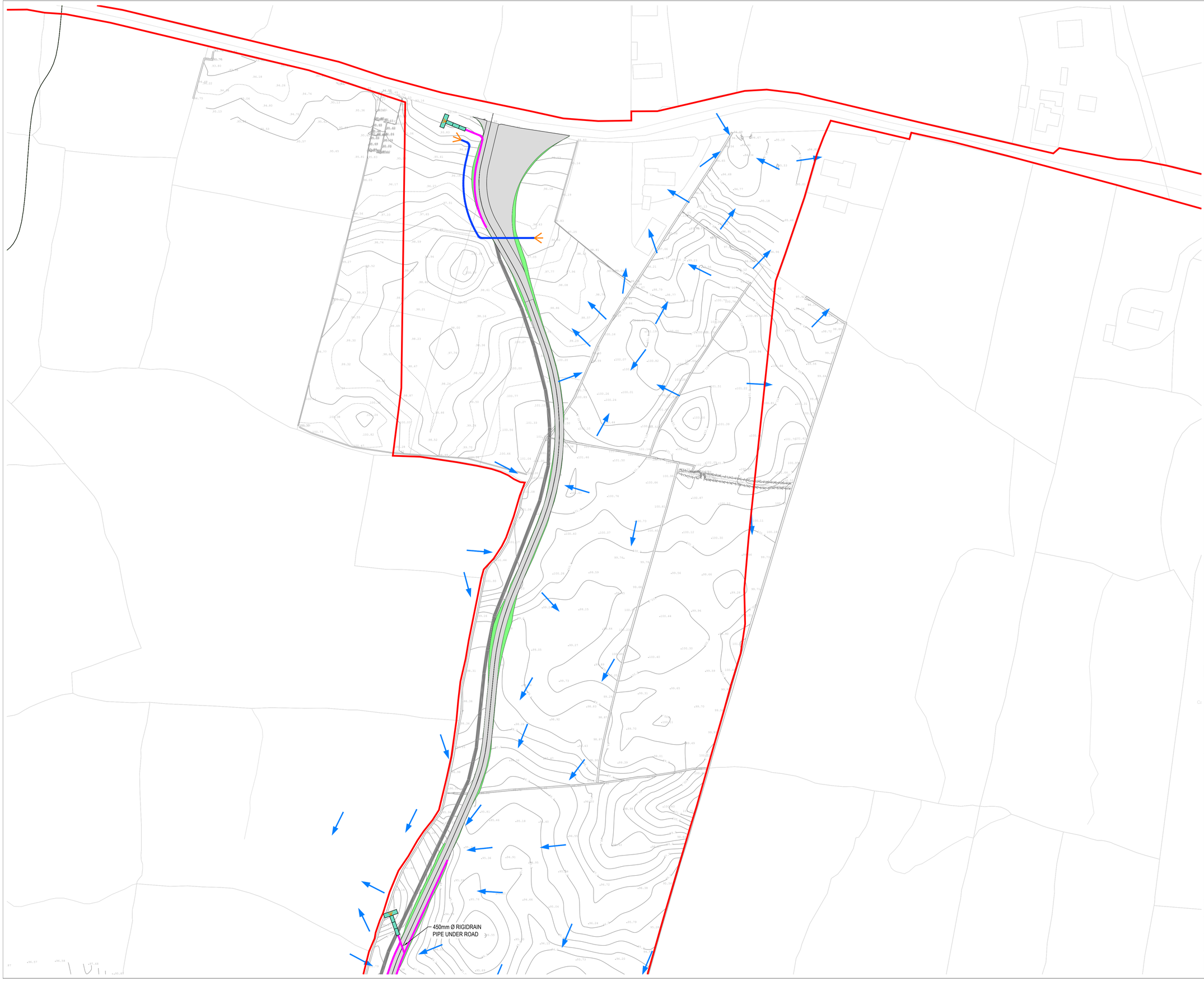
Tel: +353 (0) 61 480164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS

DATE:	SCALE @ A1:	
01 / 06 / 22	1:1000	

PROJECT NUMBER:	DRAWING STATUS:
21337	S2

DRAWING NUMBER:	REV:
21337-MWP-00-00-DR-C-2112	P05



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REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 13

CLIENT:
energia
Switched on

Malachy Walsh and Partners
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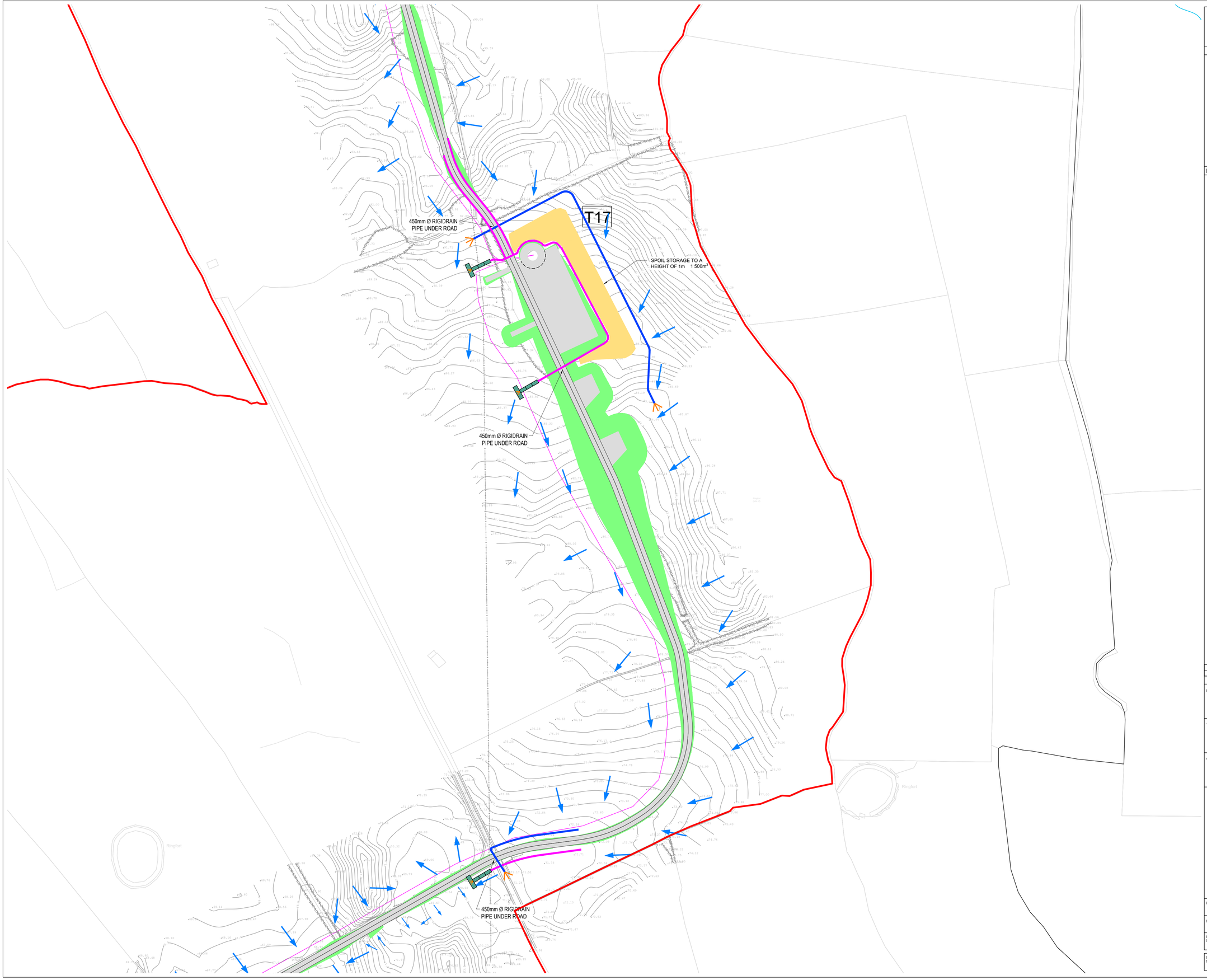
Web: www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS

DATE:	SCALE @ A1:	
01 / 06 / 22	1:1000	

PROJECT NUMBER:	DRAWING STATUS:
21337	S2

DRAWING NUMBER:	REV:
21337-MWP-00-00-DR-C-2113	P02



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- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 14

CLIENT:
energia
Switched on

Malachy Walsh and Partners
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Cork | Tralee | London | Limerick

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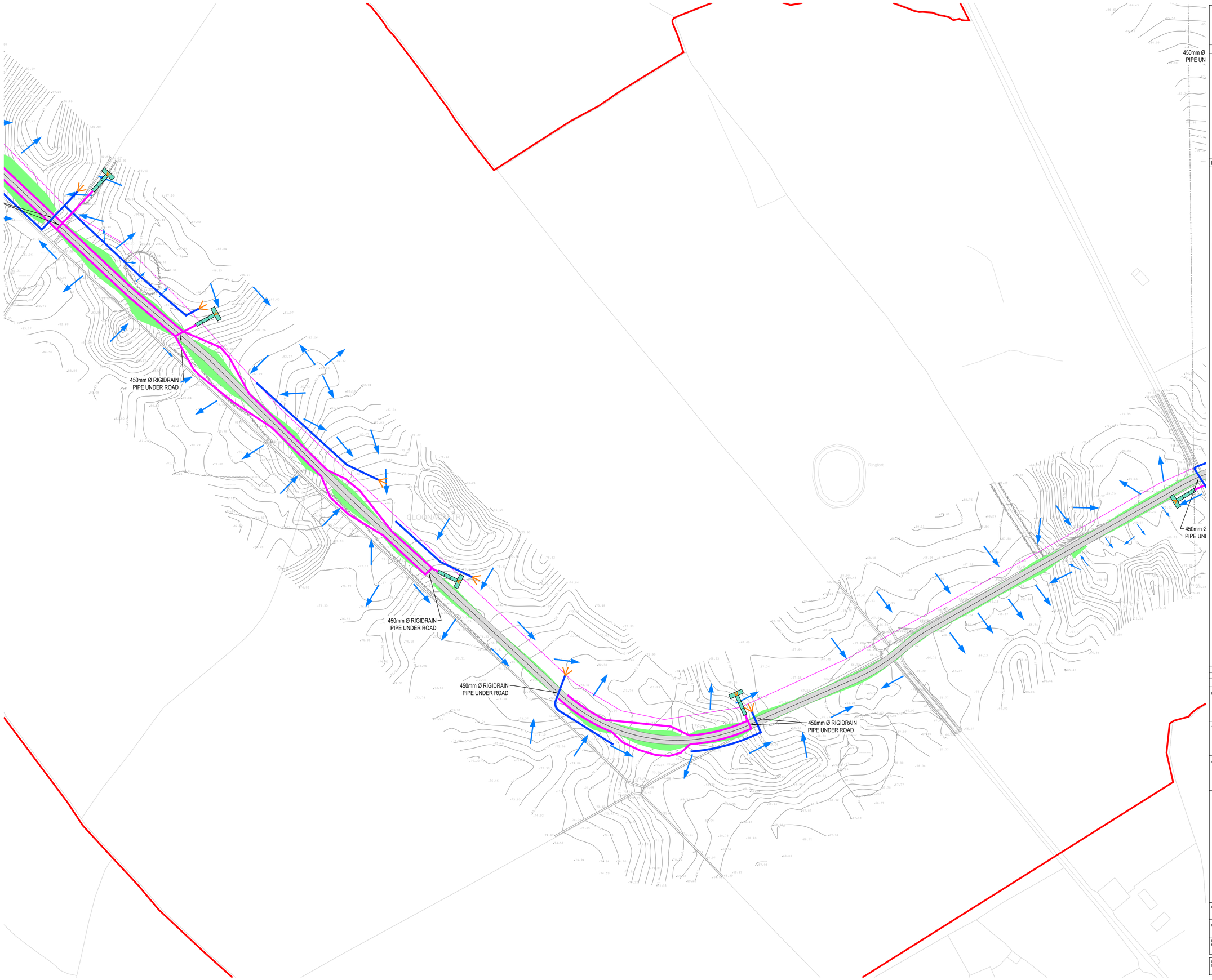
Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2114
REV: P02



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REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 15

CLIENT:
energia
Switched on

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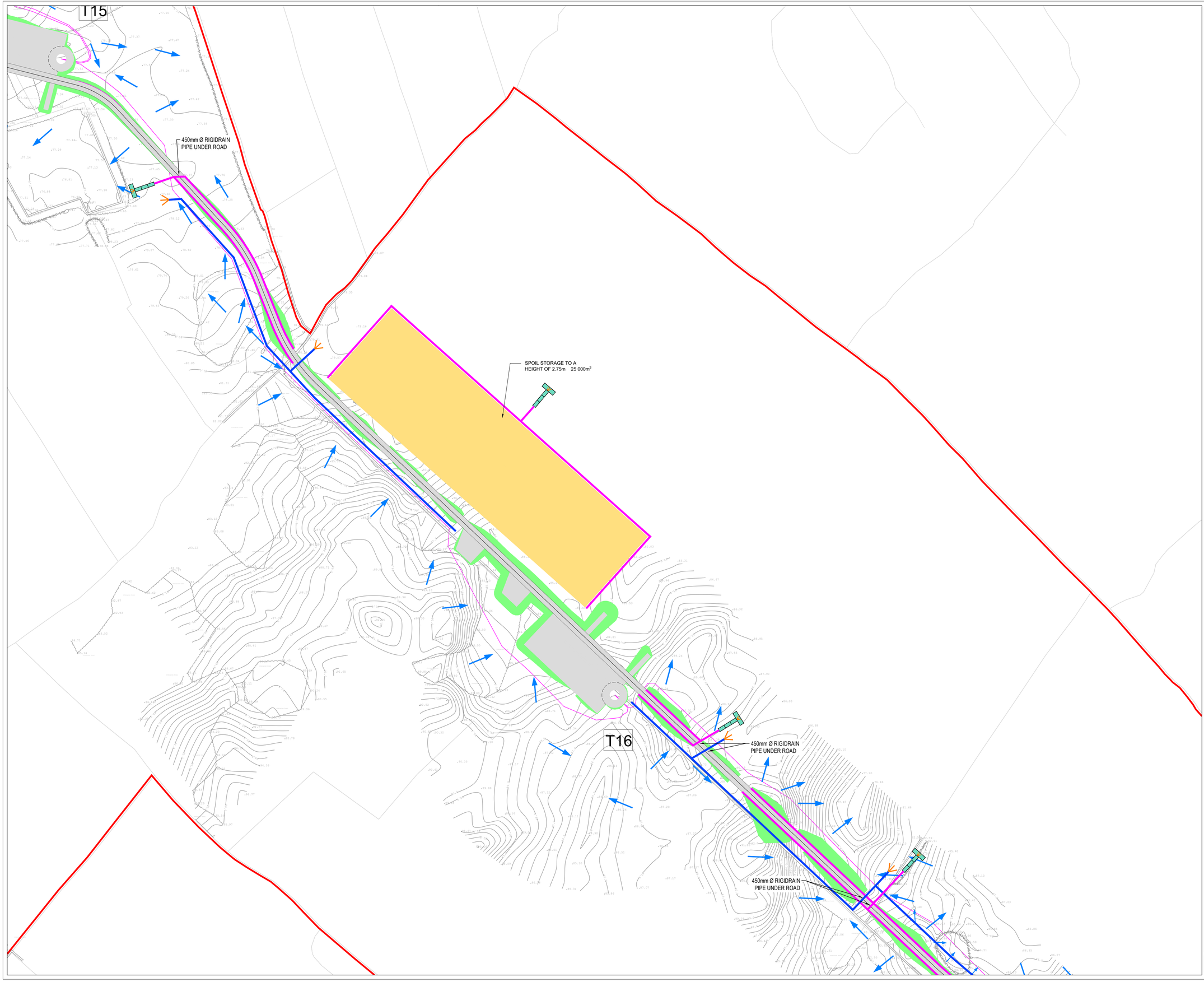
Fax: +353 (0) 61 441 125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2115
REV: P02



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- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P03	01 / 06 / 22	ISSUED FOR INFORMATION	MW	BS
P02	12 / 04 / 22	ISSUED FOR INFORMATION	MW	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 16

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
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Raheen Business Park,
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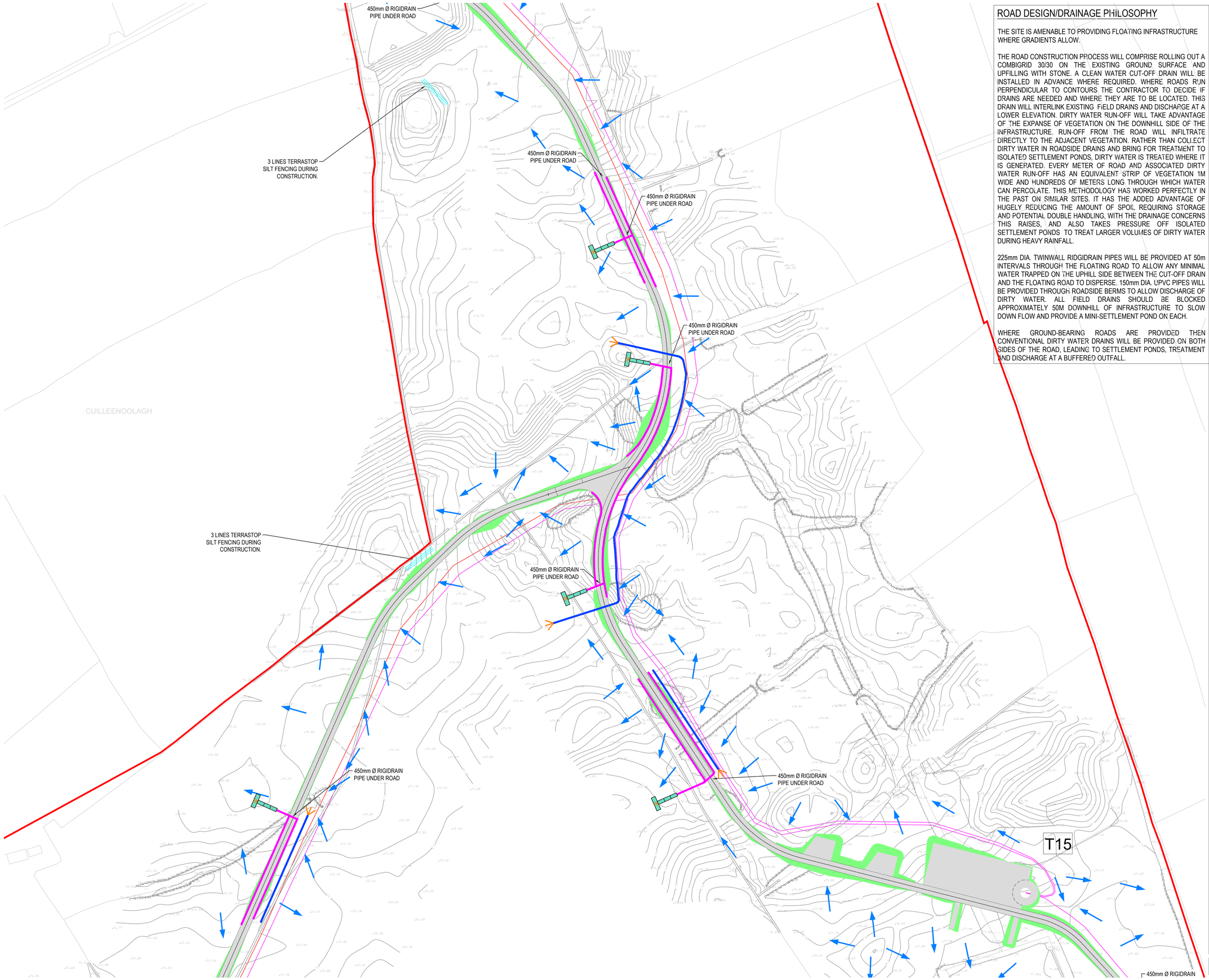
V94 R578

Tel. : +353 (0) 61 480164
Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

IS EN ISO 9001

DRAWN: PK	CHECKED: PB	APPROVED: BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2116
REV: P03



ROAD DESIGN/DRAINAGE PHILOSOPHY

THE SITE IS AMENABLE TO PROVIDING FLOATING INFRASTRUCTURE WHERE GRADIENTS ALLOW.

THE ROAD CONSTRUCTION PROCESS WILL COMPRISE ROLLING OUT A COMBIGRID 30/30 ON THE EXISTING GROUND SURFACE AND UPFILLING WITH STONE. A CLEAN WATER CUT-OFF DRAIN WILL BE INSTALLED IN ADVANCE WHERE REQUIRED. WHERE ROADS RUN PERPENDICULAR TO CONTOURS THE CONTRACTOR TO DECIDE IF DRAINS ARE NEEDED AND WHERE THEY ARE TO BE LOCATED. THIS DRAIN WILL INTERLINK EXISTING FIELD DRAINS AND DISCHARGE AT A LOWER ELEVATION. DIRTY WATER RUN-OFF WILL TAKE ADVANTAGE OF THE EXPANSE OF VEGETATION ON THE DOWNHILL SIDE OF THE INFRASTRUCTURE. RUN-OFF FROM THE ROAD WILL INFILTRATE DIRECTLY TO THE ADJACENT VEGETATION. RATHER THAN COLLECT DIRTY WATER IN ROADSIDE DRAINS AND BRING FOR TREATMENT TO ISOLATED SETTLEMENT PONDS, DIRTY WATER IS TREATED WHERE IT IS GENERATED. EVERY METER OF ROAD AND ASSOCIATED DIRTY WATER RUN-OFF HAS AN EQUIVALENT STRIP OF VEGETATION 1M WIDE AND HUNDREDS OF METERS LONG THROUGH WHICH WATER CAN PERCOLATE. THIS METHODOLOGY HAS WORKED PERFECTLY IN THE PAST ON SIMILAR SITES. IT HAS THE ADDED ADVANTAGE OF HUGELY REDUCING THE AMOUNT OF SPOIL REQUIRING STORAGE AND POTENTIAL DOUBLE HANDLING, WITH THE DRAINAGE CONCERNS THIS RAISES, AND ALSO TAKES PRESSURE OFF ISOLATED SETTLEMENT PONDS TO TREAT LARGER VOLUMES OF DIRTY WATER DURING HEAVY RAINFALL.

225mm DIA. TWINWALL RIDGIDRAIN PIPES WILL BE PROVIDED AT 50m INTERVALS THROUGH THE FLOATING ROAD TO ALLOW ANY MINIMAL WATER TRAPPED ON THE UPHILL SIDE BETWEEN THE CUT-OFF DRAIN AND THE FLOATING ROAD TO DISPERSE. 150mm DIA. UPVC PIPES WILL BE PROVIDED THROUGH ROADSIDE BERMS TO ALLOW DISCHARGE OF DIRTY WATER. ALL FIELD DRAINS SHOULD BE BLOCKED APPROXIMATELY 50M DOWNHILL OF INFRASTRUCTURE TO SLOW DOWN FLOW AND PROVIDE A MINI-SETTLEMENT POND ON EACH.

WHERE GROUND-BEARING ROADS ARE PROVIDED THEN CONVENTIONAL DIRTY WATER DRAINS WILL BE PROVIDED ON BOTH SIDES OF THE ROAD, LEADING TO SETTLEMENT PONDS, TREATMENT AND DISCHARGE AT A BUFFERED OUTFALL.

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LEGEND:

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- EXTENT OF ROAD SIDE BERM
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- FILL EMBANKMENT
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- STONE BERM
- PEAT STORAGE
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REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT: SEVEN HILLS WF

TITLE: PROPOSED DRAINAGE LAYOUT SHEET 17

CLIENT: energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick
The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, V94 R578
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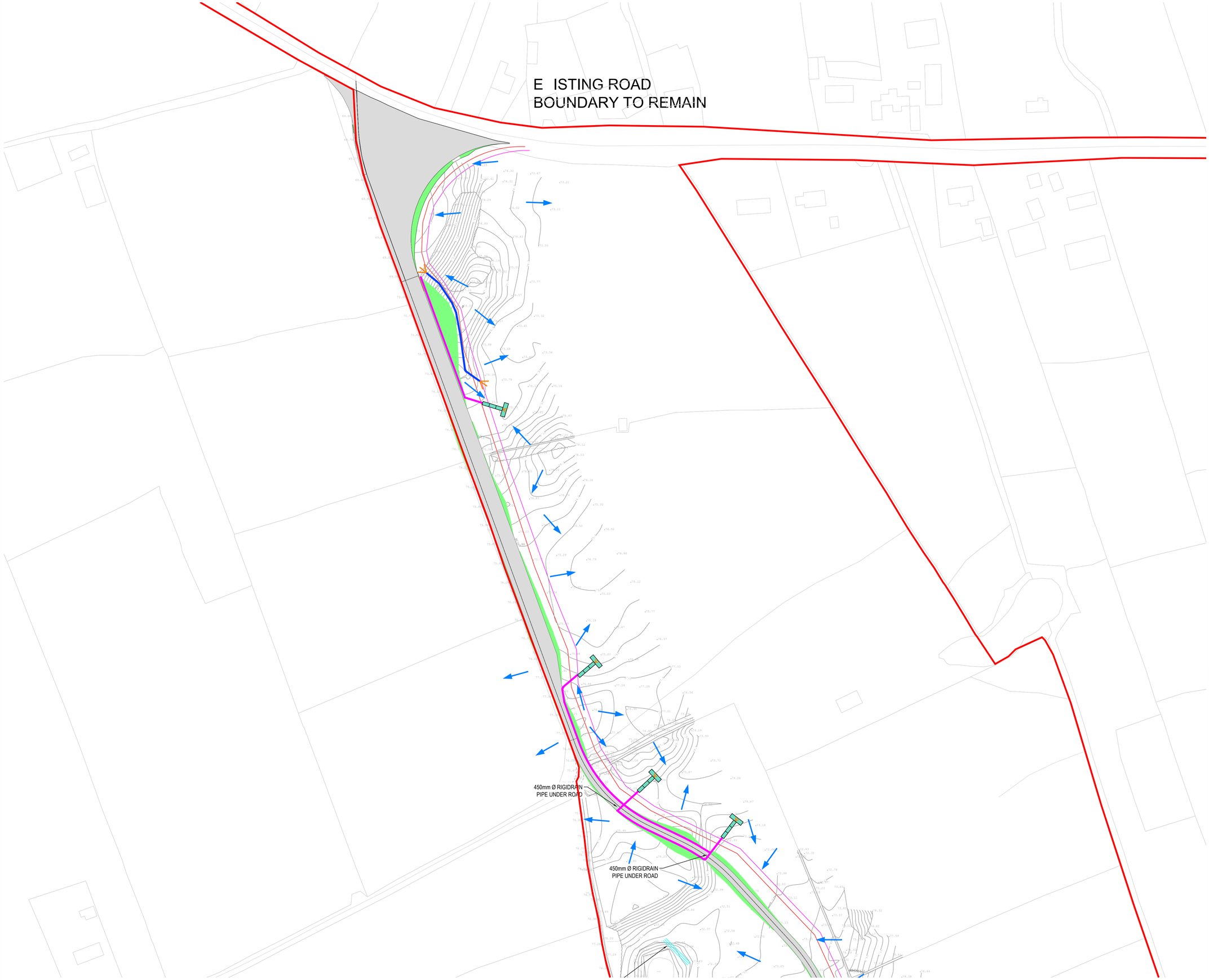
DRAWN: PK	CHECKED: PB	APPROVED: BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2
DRAWING NUMBER: 21337-MWP-00-00-DR-C-2117		REV: P02



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4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METERS**, UNLESS NOTED OTHERWISE.

LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- TURLOUGH
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 18

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
Loughmore Centre,
Raheen Business Park,
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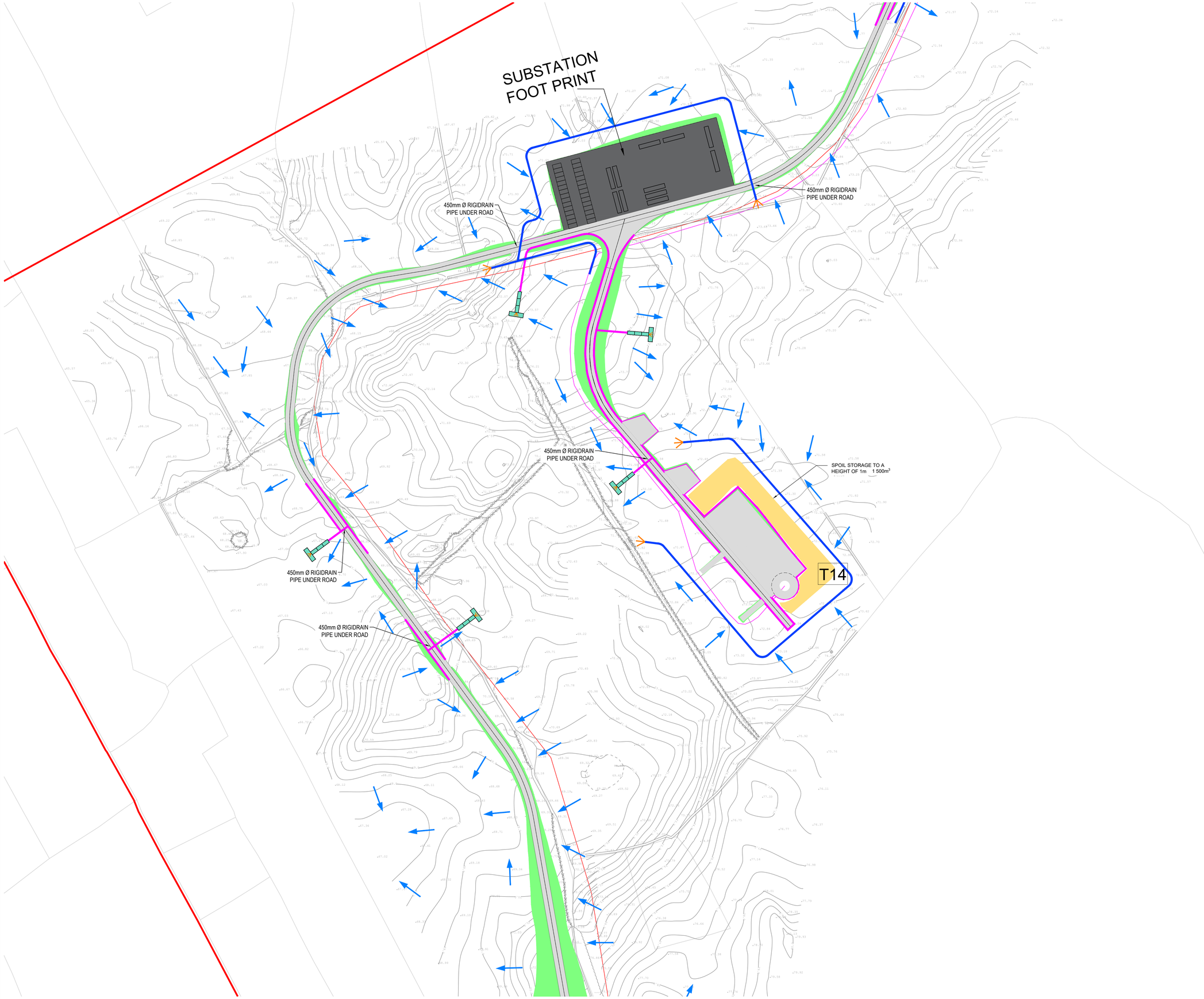
V94 R578

Tel: : +353 (0) 61 480164
Fax: : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2118
REV: P02



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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 19

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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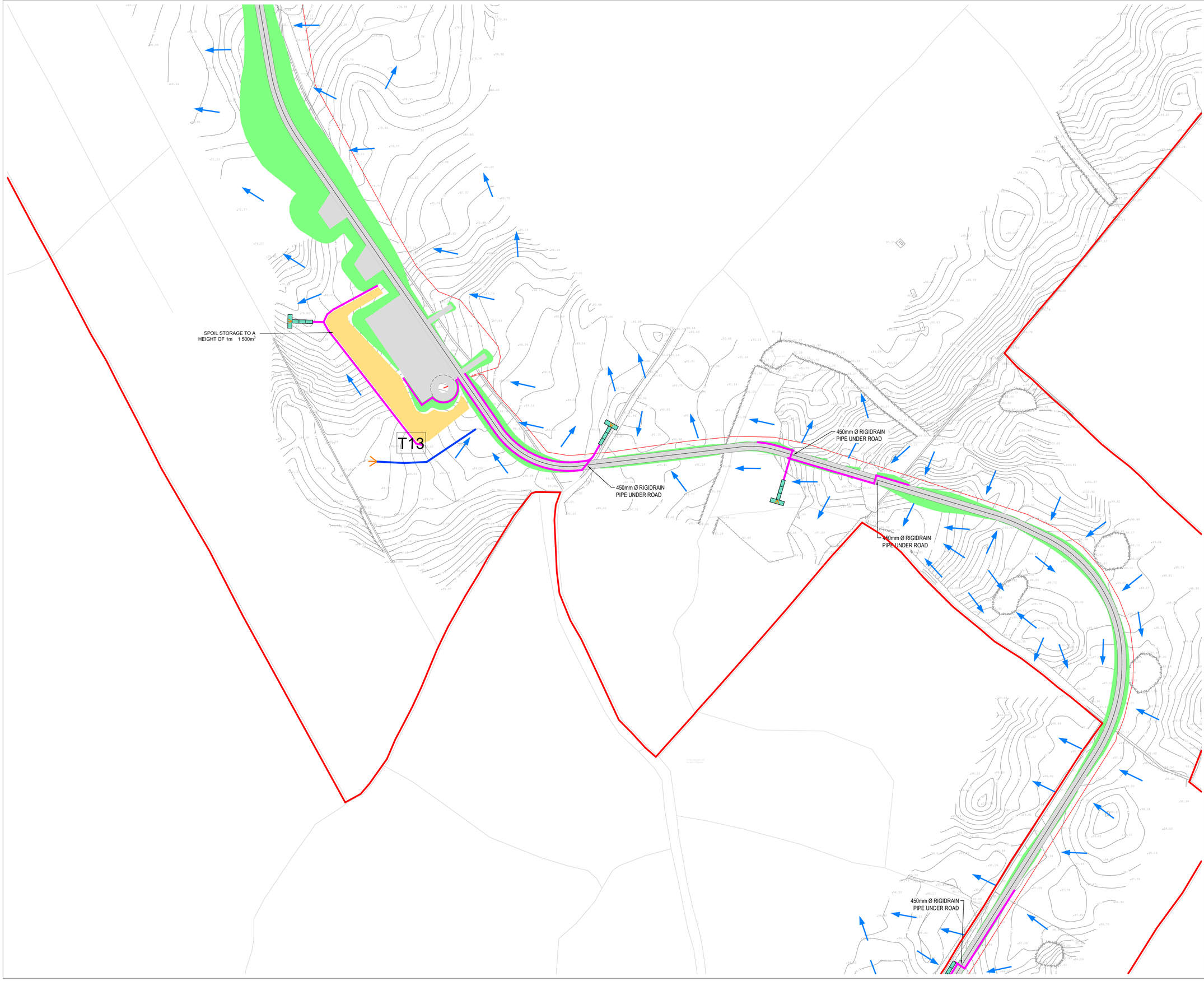
Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN: PK	CHECKED: PB	APPROVED: BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2119
REV: P02



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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 20

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS

DATE:	SCALE @ A1:
01 / 06 / 22	1:1000

PROJECT NUMBER: 21337

DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2120

REV: P02

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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
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- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

450mm Ø RIGIDRAIN PIPE UNDER ROAD

450mm Ø RIGIDRAIN PIPE UNDER ROAD

450mm Ø RIGIDRAIN PIPE UNDER ROAD

450mm Ø RIGIDRAIN PIPE UNDER ROAD

450mm Ø RIGIDRAIN PIPE UNDER ROAD

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 21

CLIENT: energia Switched on

Malachy Walsh and Partners
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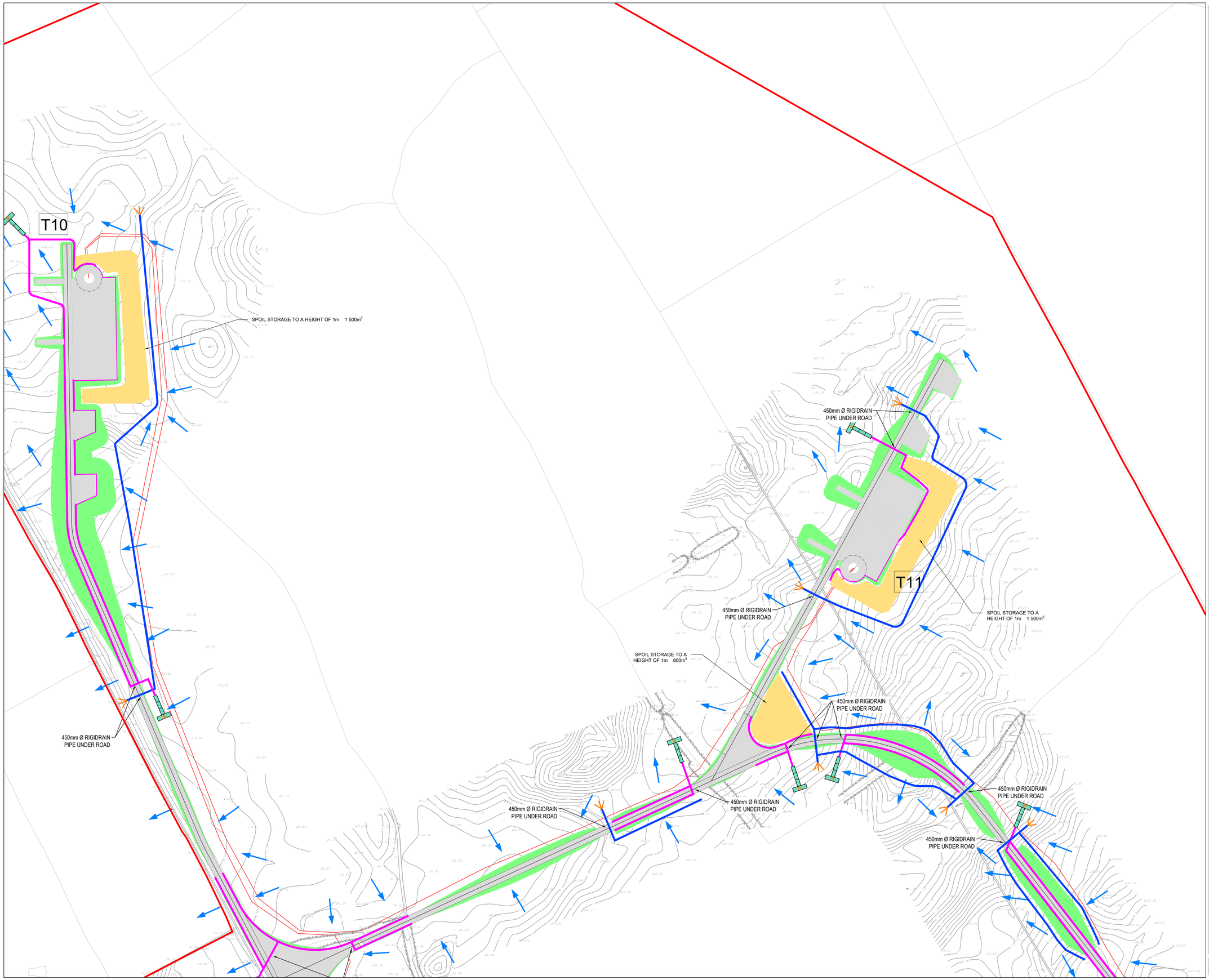
V94 R578

Tel : +353 (0) 61 480164
Fax : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN: PK	CHECKED: PB	APPROVED: BS	
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000		
PROJECT NUMBER: 21337		DRAWING STATUS: S2	
DRAWING NUMBER: 21337-MWP-00-00-DR-C-2121			REV: P02



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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P03	01 / 06 / 22	ISSUED FOR INFORMATION	MW	BS
P02	12 / 04 / 22	ISSUED FOR INFORMATION	MW	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 22

CLIENT:
energia
Switched on

Malachy Walsh and Partners
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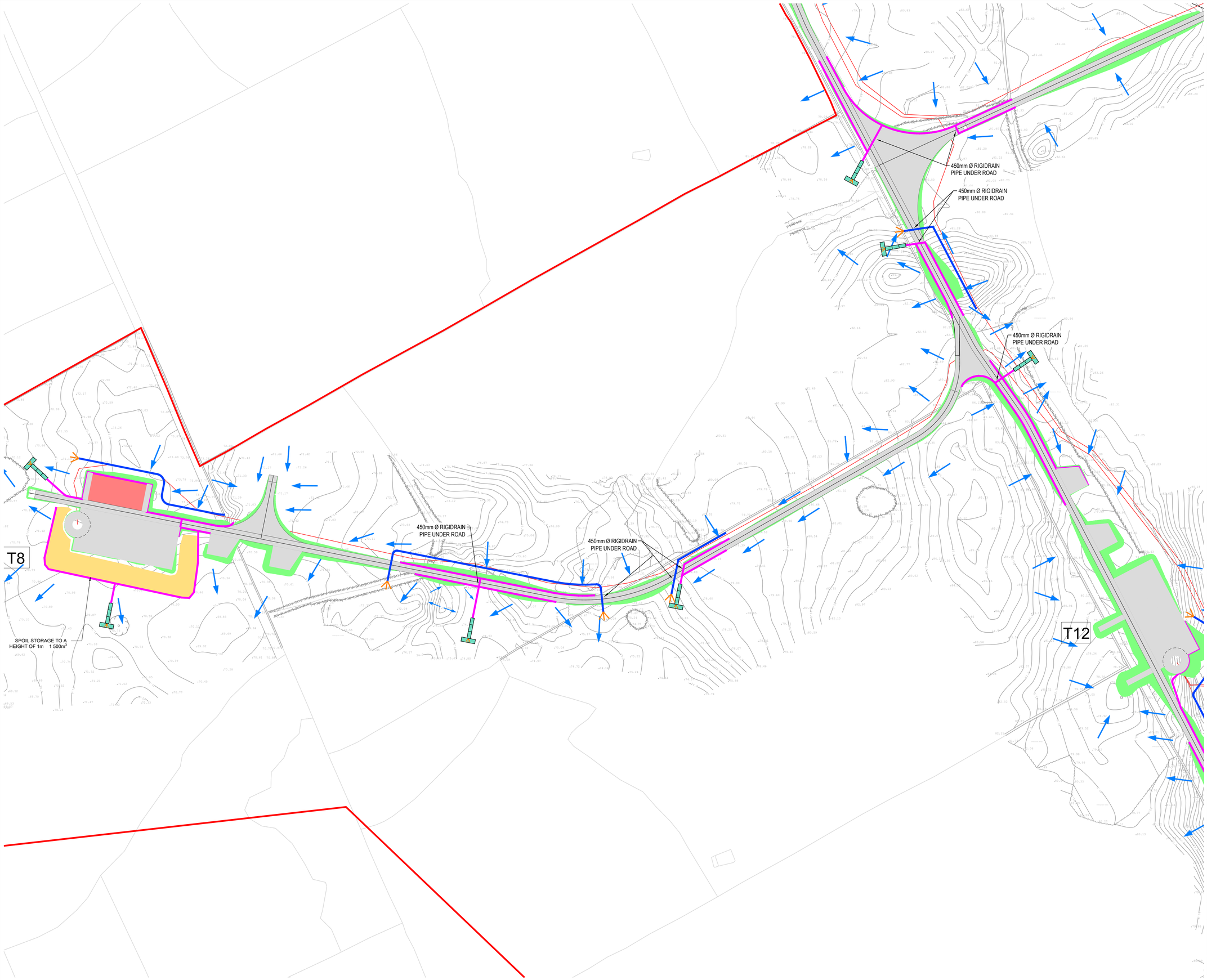
Cork | Tralee | London | Limerick

The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
V94 R578

Tel. : +353 (0) 61 480164
Fax : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2122 REV: P03



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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 23

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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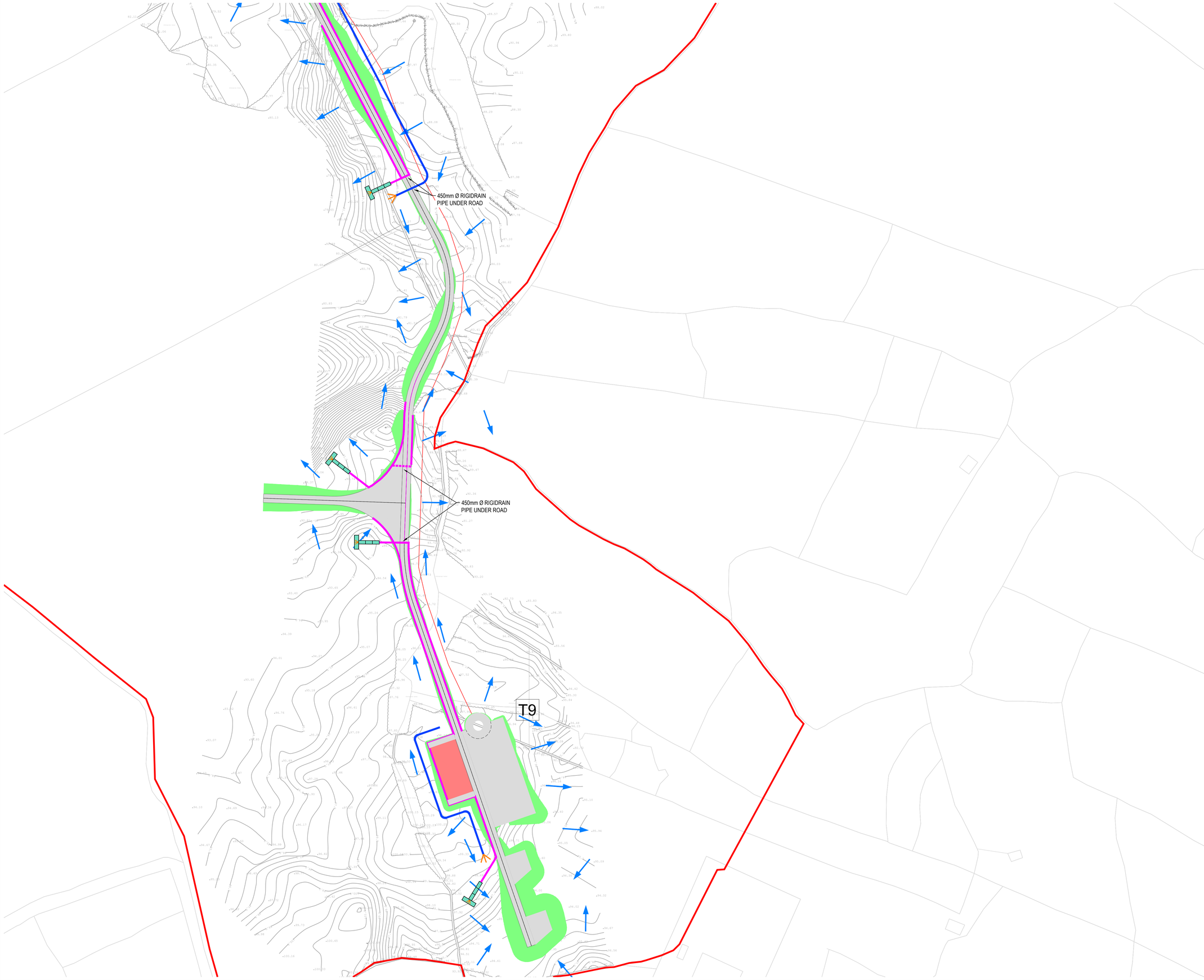
Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

IS EN ISO 9001

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2123
REV: P02



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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
PROPOSED DRAINAGE LAYOUT
SHEET 24

CLIENT:
energia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

The Elm Suite,
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Limerick,
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E-mail: limerick@mwp.ie
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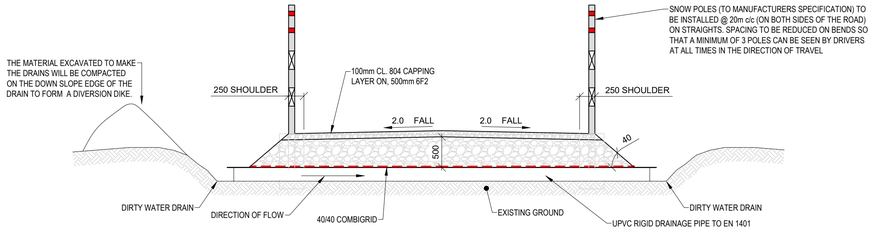
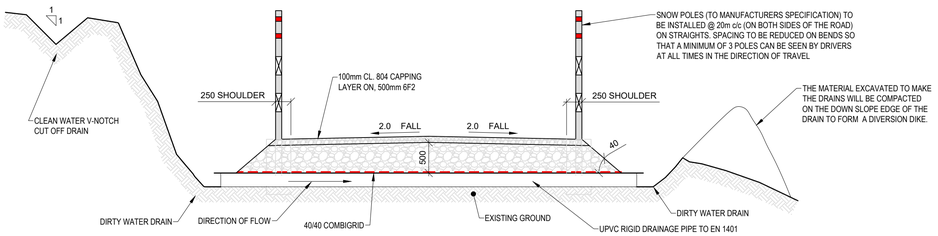
DRAWN:	CHECKED:	APPROVED:
PK	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2124
REV: P02



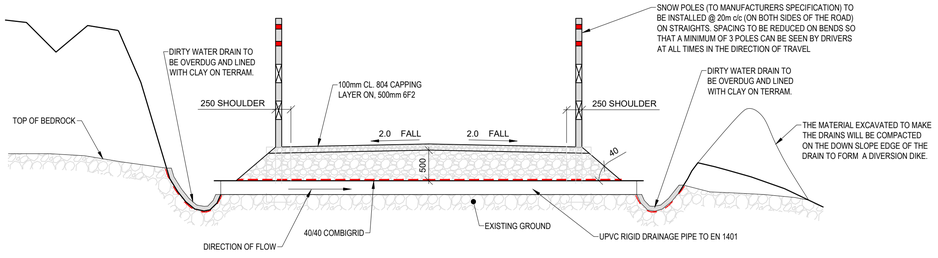
GROUND BEARING ROAD DETAIL (FLAT GROUND)

SCALE 1:50



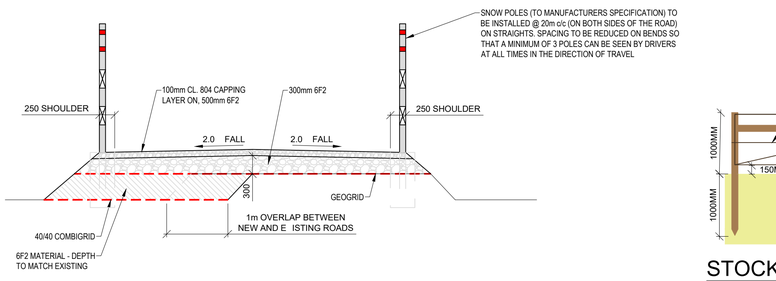
GROUND BEARING ROAD DETAIL (SLOPING GROUND NO BEDROCK E POSED)

SCALE 1:50



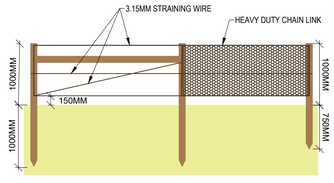
GROUND BEARING ROAD DETAIL (SLOPING GROUND BEDROCK E POSED)

SCALE 1:50



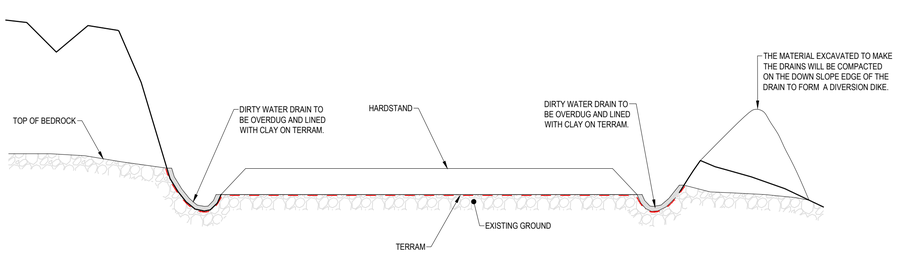
WIDENED ACCESS TRACK DETAIL

SCALE 1:50



STOCK PROOF FENCING DETAILS

SCALE 1:50

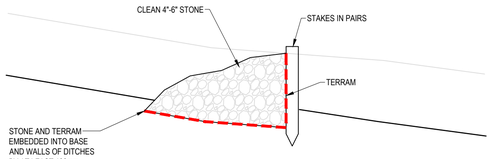


GROUND BEARING HARDSTAND DETAIL (SLOPING GROUND BEDROCK E POSED)

SCALE 1:50

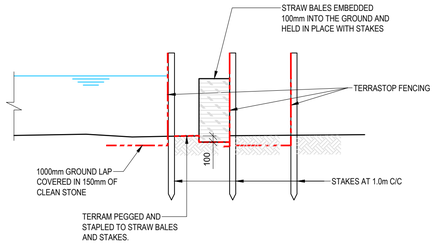
EROSION CONTROL ON STEEPER LOCATIONS(GRADIENT IS STEEPER THAN 10)

SCALE NTS



CHECK DAM

SCALE 1:25



TERRASTOP FENCING DETAILS

SCALE 1:50

NOTE:
STAGE 1 (COURSE) SILT FENCE WILL CONSIST OF A GEOTEXTILE FABRIC SUCH AS TERRAM 1000 ATTACHED BY STAPLES TO FIXED STAKES. THE TERRAM SHEETS WILL BE FOLDED IN AN L-SHAPE WITH 1m EXTENDING HORIZONTALLY IN TOWARDS THE WORKS AREA. THIS HORIZONTAL SECTION WILL BE BURIED AT A DISTANCE OF APPROXIMATELY 150mm BENEATH A CLEAN STONE SURFACE. TERRAM 1000 IS A PERMEABLE FABRIC THROUGH WHICH WATER CAN PASS, BUT SEDIMENT PARTICLES CANNOT. IT DOES HOWEVER, IMPEDE WATER FLOW AND CAN LEAD TO BACKING UP OF WATER AND SEDIMENT, WHICH REDUCES ITS EFFECTIVENESS.

STAGE 2 (MEDIUM) SILT FENCE WILL CONSIST OF STRAW BALES, EMBEDDED 100mm INTO THE SOIL/GROUND AND FIXED IN PLACE WITH STAKES. A GEOTEXTILE FABRIC WILL BE PEGGED AND STAPLED TO THE STRAW BALES AND STAKES.

STAGE 3 (FINE) SILT FENCE WILL BE SIMILAR TO THE STAGE 1 FENCE, WITH THE ADDITION OF A COARSE SAND AND/OR FINE GRAVEL AT THE BASE OF THE GEOTEXTILE.

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
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4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METERS**, UNLESS NOTED OTHERWISE.
6. THESE DETAILS ARE **TYPICAL**, THEY WILL BE ADJUSTED ACCORDING TO THE CONSTRUCTION REQUIREMENT.

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
21337-MWP-00-00-DR-C-	SITE LAYOUT MASTER SHEET

REV	DATE	DESCRIPTION	BY	APP
P03	01 / 06 / 22	ISSUED FOR INFORMATION	MW	BS
P02	28 / 03 / 22	ISSUED FOR INFORMATION	MW	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WF

TITLE:
TURBINE FOUNDATION, FENCING, ROAD AND DRAINAGE DETAILS

CLIENT:
energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick
The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, V94 R578
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Web : www.mwp.ie

DRAWN: PK	CHECKED: PB	APPROVED: BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:50	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2127 REV: P03

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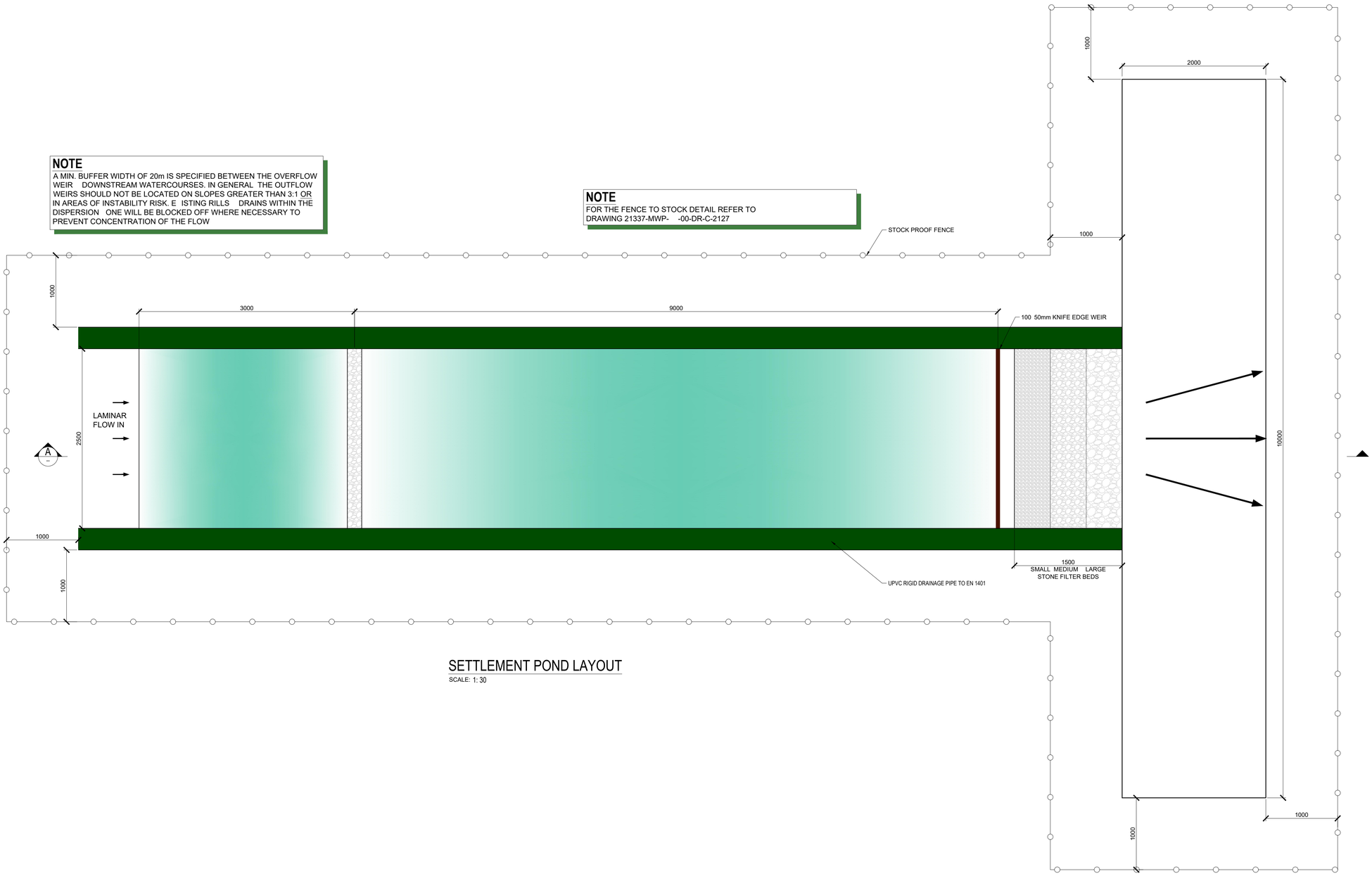
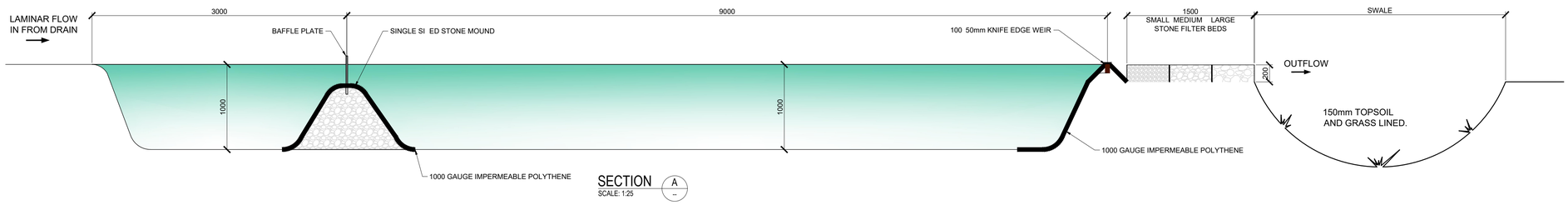
NOTE
A MIN. BUFFER WIDTH OF 20m IS SPECIFIED BETWEEN THE OVERFLOW WEIR DOWNSTREAM WATERCOURSES. IN GENERAL THE OUTFLOW WEIRS SHOULD NOT BE LOCATED ON SLOPES GREATER THAN 3:1 OR IN AREAS OF INSTABILITY RISK. E ISTING RILLS DRAINS WITHIN THE DISPERSION ONE WILL BE BLOCKED OFF WHERE NECESSARY TO PREVENT CONCENTRATION OF THE FLOW

NOTE
FOR THE FENCE TO STOCK DETAIL REFER TO DRAWING 21337-MWP- -00-DR-C-2127



SETTLEMENT POND LAYOUT
SCALE: 1: 30



SECTION A--
SCALE: 1:25

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REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	PK	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	PK	BS

PROJECT:
SEVEN HILLS WF

TITLE:
GRASS LINED LINEAR SWALE INCLUDING SETTLE MENT POND

CLIENT:
energia Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants
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Fax : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
PK	PB	BS

DATE:	SCALE @ A1:
01 / 06 / 22	1:50

PROJECT NUMBER: 21337
DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2128
REV: P02

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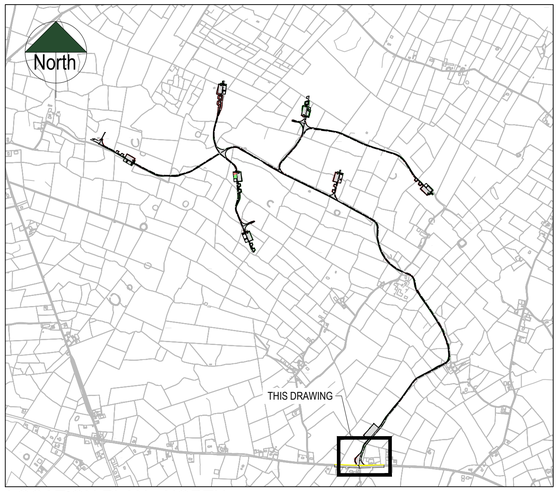
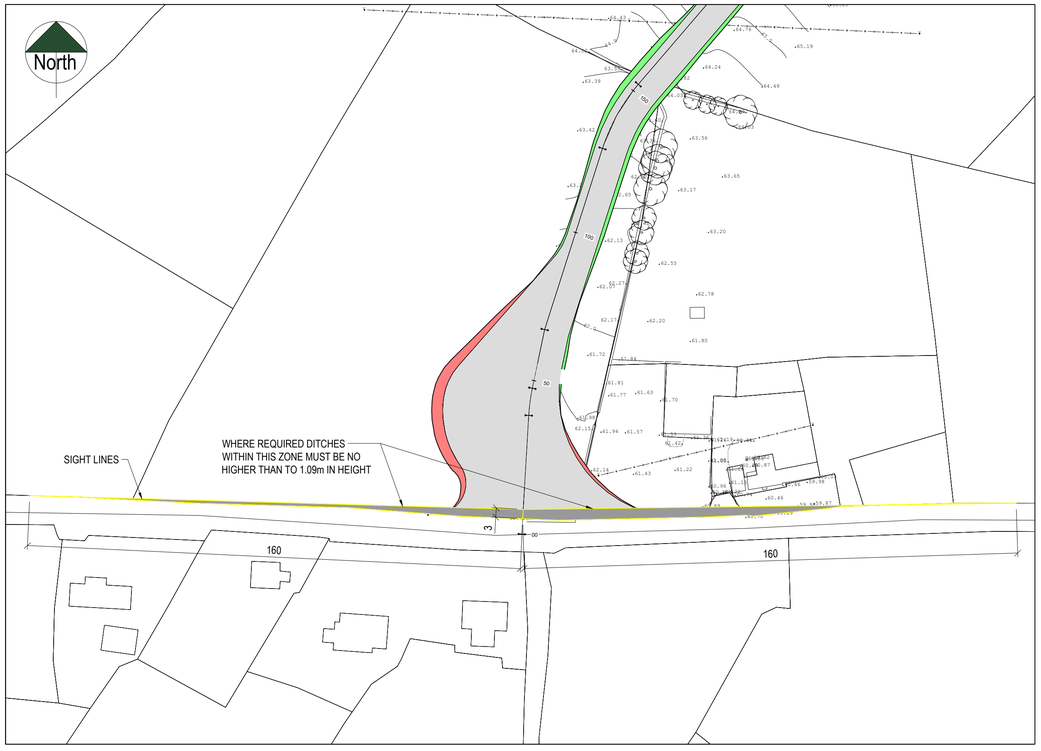


LOCATION PLAN - NORTH

SCALE: 1: 20000



NORTH ENTRANCE

SCALE: 1: 1000

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4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METERS**, UNLESS NOTED OTHERWISE.

LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
- EXISTING CUT-OFF DRAIN
- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	CM	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	CM	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
WINDFARM ENTRANCE SIGHTLINES
SHEET 1

CLIENT:
energia
Switched on

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V94 R578

Tel. : +353 (0) 61 480164
Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

DRAWN:	CHECKED:	APPROVED:
CM	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-WF-00-DR-C-3000
REV: P02

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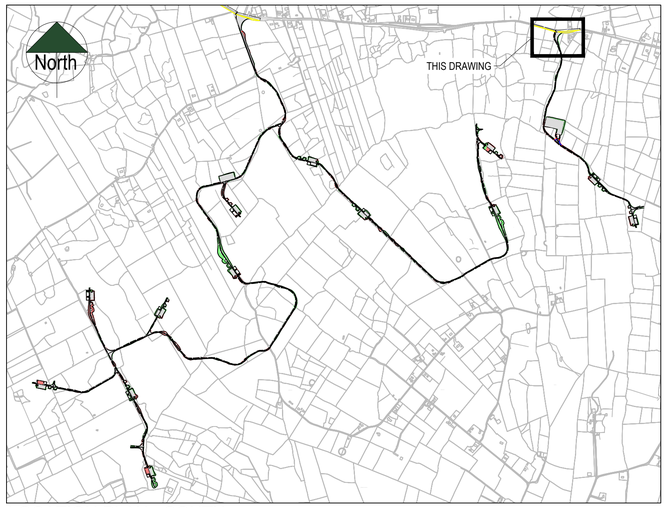
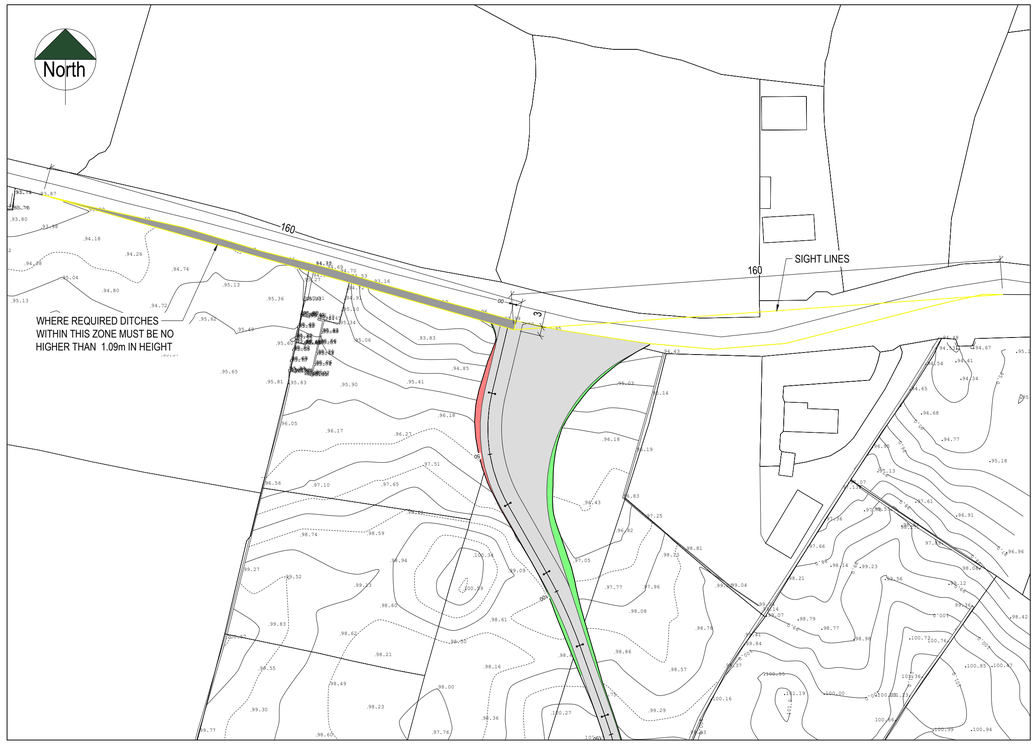


LOCATION PLAN - SOUTH

SCALE: 1: 20000



SOUTH ENTRANCE - EAST

SCALE: 1: 1000

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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- PEAT STORAGE
- DIRTY WATER DRAIN
- CLEAN WATER DRAIN
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- RUN OFF DRAIN WITH BUFFERED OUTFALL
- SETTLEMENT POND WITH BUFFERED OUTFALL
- DIRECTION OF FLOW OF SURFACE WATER
- LAND & STRUCTURE BOUNDARY
- INTERNAL CABLE ROUTE (Circuit 1)
- INTERNAL CABLE ROUTE (Circuit 2)
- INTERNAL CABLE ROUTE (Circuit 3)
- INTERNAL CABLE ROUTE (Circuit 4)
- INTERNAL CABLE ROUTE (Circuit 5)
- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	CM	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	CM	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
WINDFARM ENTRANCE SIGHTLINES
SHEET 2

CLIENT:
energia
Switched on

Malachy Walsh and Partners
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E-mail : limerick@mwp.ie
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DRAWN:	CHECKED:	APPROVED:
CM	PB	BS

DATE:	SCALE @ A1:	
01 / 06 / 22	1:1000	

PROJECT NUMBER:	DRAWING STATUS:
21337	S2

DRAWING NUMBER: 21337-MWP-WF-00-DR-C-3001 REV: P02

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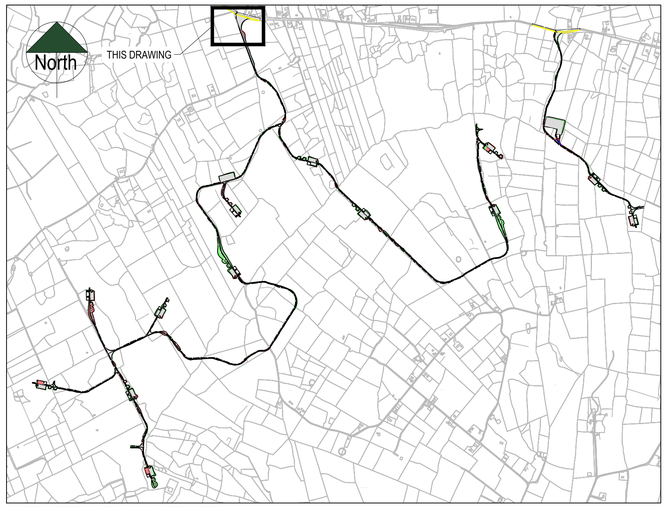
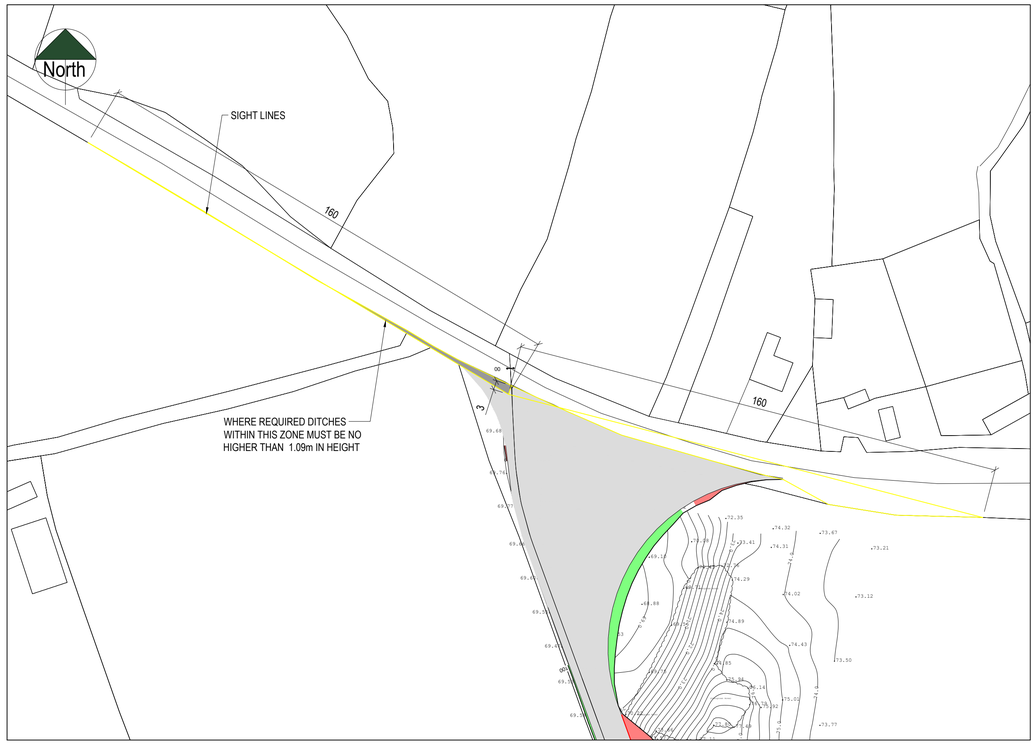


LOCATION PLAN - SOUTH

SCALE: 1: 20000



SOUTH ENTRANCE - WEST

SCALE: 1: 1000

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- FILL EMBANKMENT
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- INTERNAL CABLE ROUTE (4 x circuits to Substation)

REV	DATE	DESCRIPTION	BY	APP
P02	01 / 06 / 22	ISSUED FOR INFORMATION	CM	BS
P01	20 / 01 / 22	ISSUED FOR INFORMATION	CM	BS

PROJECT:
SEVEN HILLS WIND FARM

TITLE:
WINDFARM ENTRANCE SIGHTLINES
SHEET 3

CLIENT:
energia Switched on

Malachy Walsh and Partners
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E-mail : limerick@mwp.ie
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CM	PB	BS
DATE: 01 / 06 / 22	SCALE @ A1: 1:1000	
PROJECT NUMBER: 21337		DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-WF-00-DR-C-3002 REV: P02

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