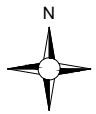


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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

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



DRAWING TITLE:

Turbine 15 Layout

PROJECT TITLE:

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

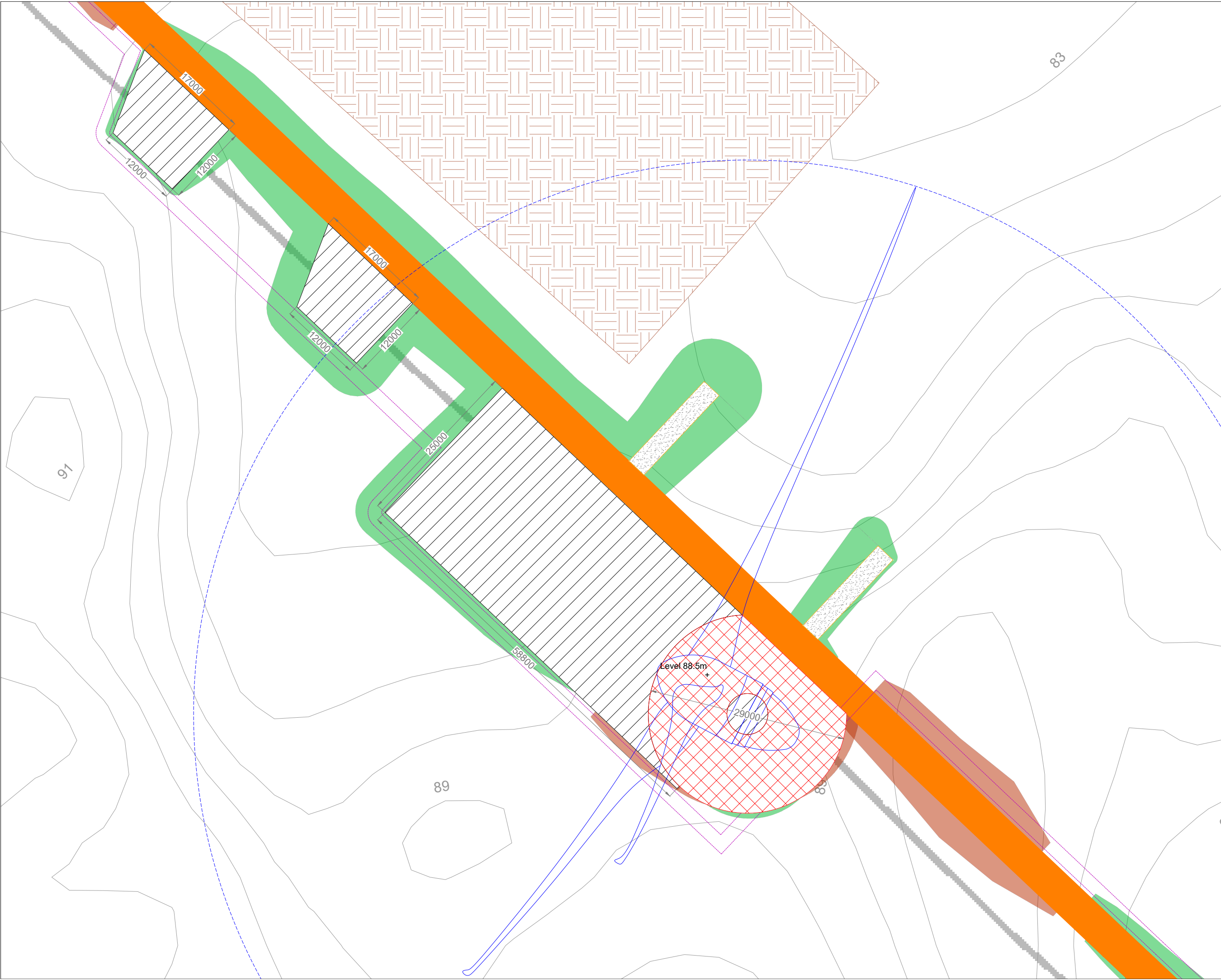
DRAWING BY: **Joseph O'Brien** CHECKED BY: **Meabhann Crowe**

PROJECT No.: **190907** DRAWING No.: **190907 - 43RevA**

SCALE: **1:500 @ A3** DATE: **30.03.2023**

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

MKO
Planning and
Environmental
Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
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

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



Turbine 16 Layout

PROJECT TITLE: **Seven Hills Wind Farm, Co. Roscommon**

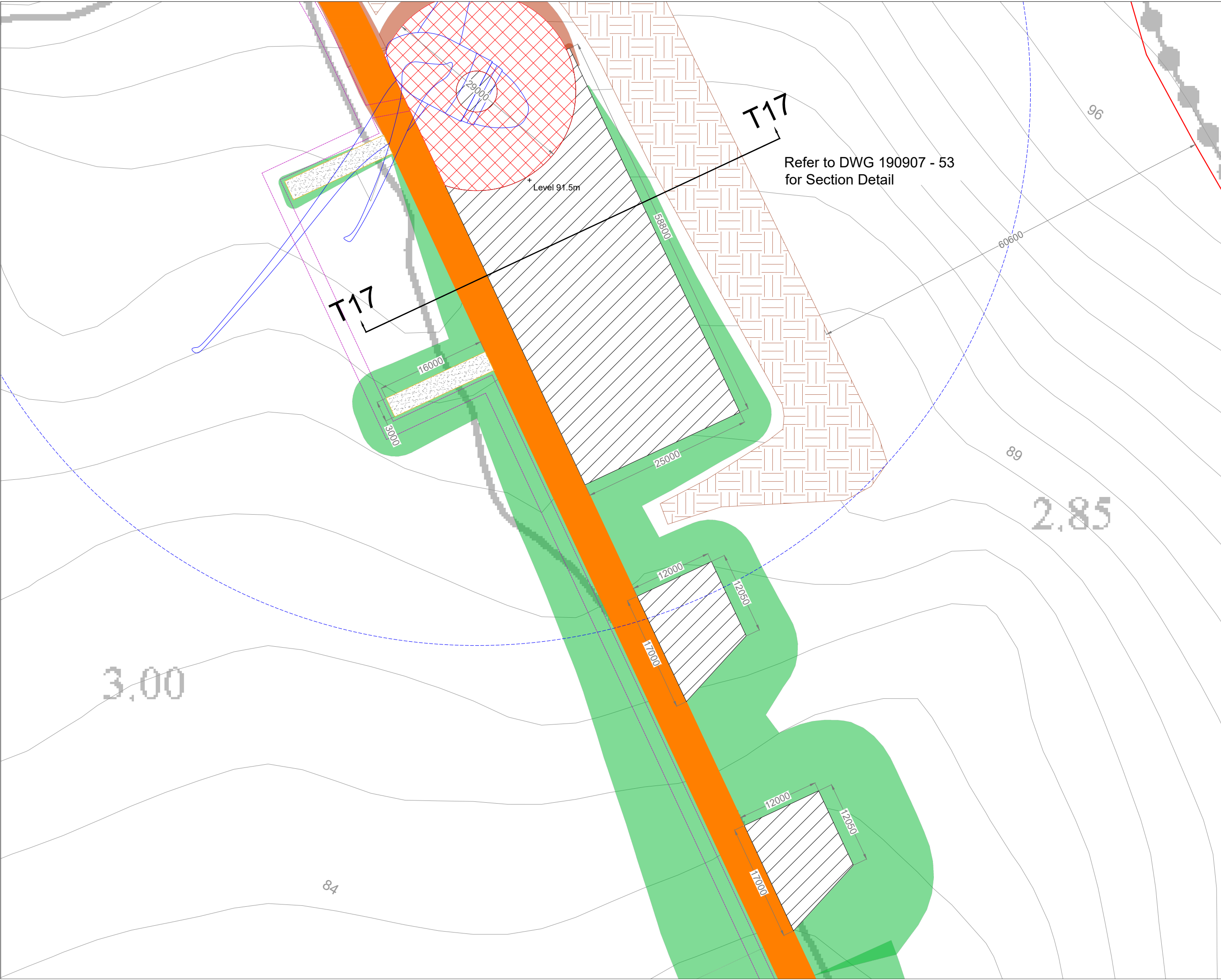
DRAWING BY: **Joseph O'Brien** CHECKED BY: **Meabhann Crowe**

PROJECT No.: **190907** DRAWING No.: **190907 - 44RevA**

SCALE: **1:500 @ A3** DATE: **30.03.2023**

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3059, 3100, 3101, 3102, 3103

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
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
- Spoil Storage
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling Trench
- Cut
- Fill



Turbine 17 Layout

PROJECT TITLE: **Seven Hills Wind Farm, Co. Roscommon**

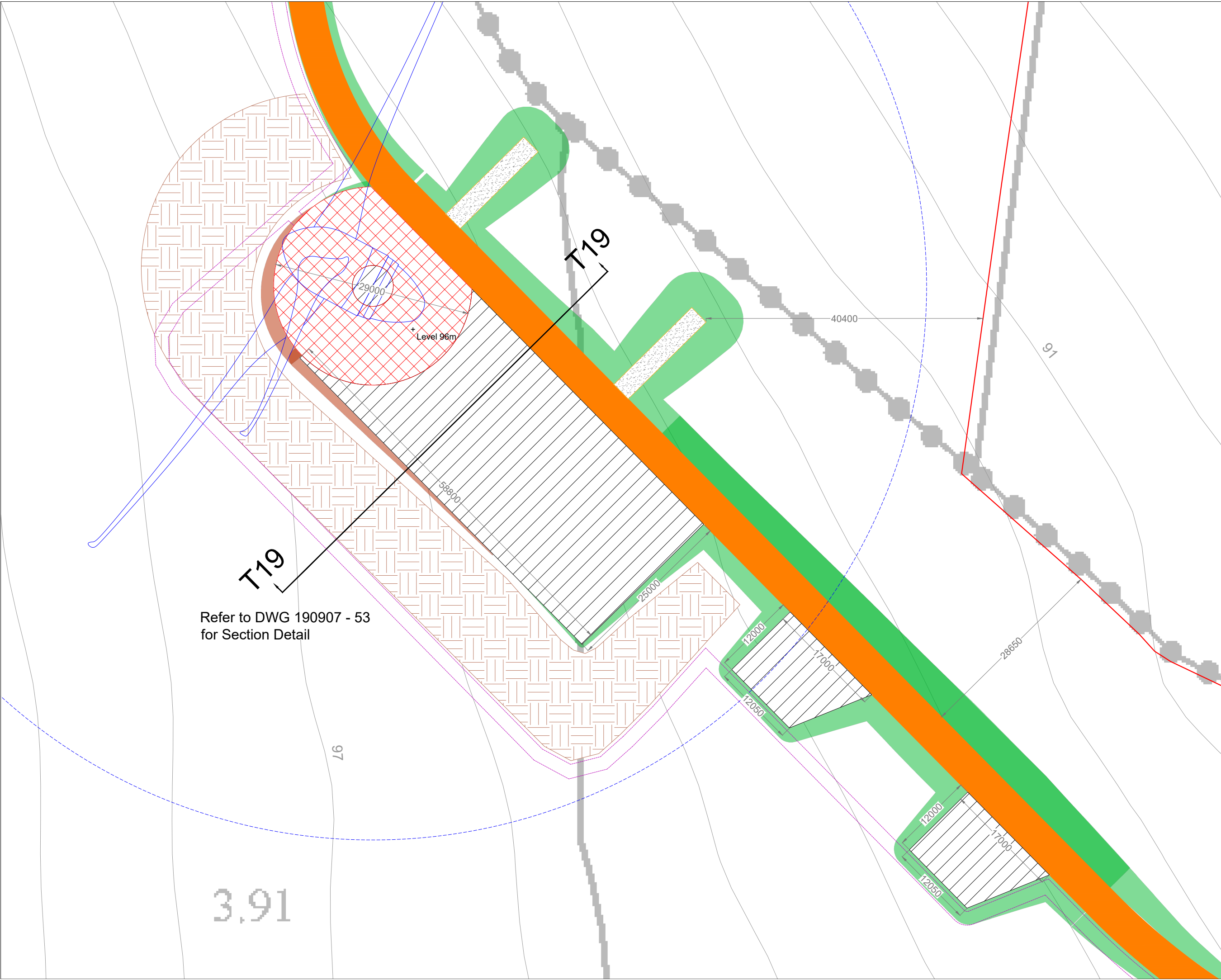
DRAWING BY: **Joseph O'Brien** CHECKED BY: **Meabhann Crowe**

PROJECT No.: **190907** DRAWING No.: **190907 - 45RevA**

SCALE: **1:500 @ A3** DATE: **30.03.2023**

OS SHEET No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3059, 3100, 3101, 3102, 3103

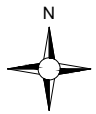
MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email: info@www.mkoireland.ie
Website: www.mkoireland.ie



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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
 - 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: Joseph O'Brien **Checked By:** Meabhann Crowe

Project No.: 190907 **Drawing No.:** 190907 - 47RevA

Scale: 1:500 @ A3 **Date:** 30.03.2023

OS Sheet No.: 2892, 2893, 2894, 2895, 2896, 2961, 2962, 2963, 2964, 2965, 3031, 3032, 3033, 3034, 3035, 3059, 3100, 3101, 3102, 3103

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email: info@www.mkoireland.ie
Website: www.mkoireland.ie

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5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
6. The use of or reliance upon this drawing shall be deemed to be evidence of the conditions of the contract and shall be agreed by the contractor and the client. The contractor shall be deemed to be the copyright holder to the use or reliance upon this drawing.
7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.



Drawing Legend

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



DRAWING TITLE:

Turbine 20 Layout

PROJECT TITLE:

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

DRAWING BY:

Joseph O'Brien

CHECKED BY:

Meabhann Crowe

PROJECT No:

190907

DRAWING No:

190907 - 48RevA

SCALE:

1:500 @ A3

DATE:

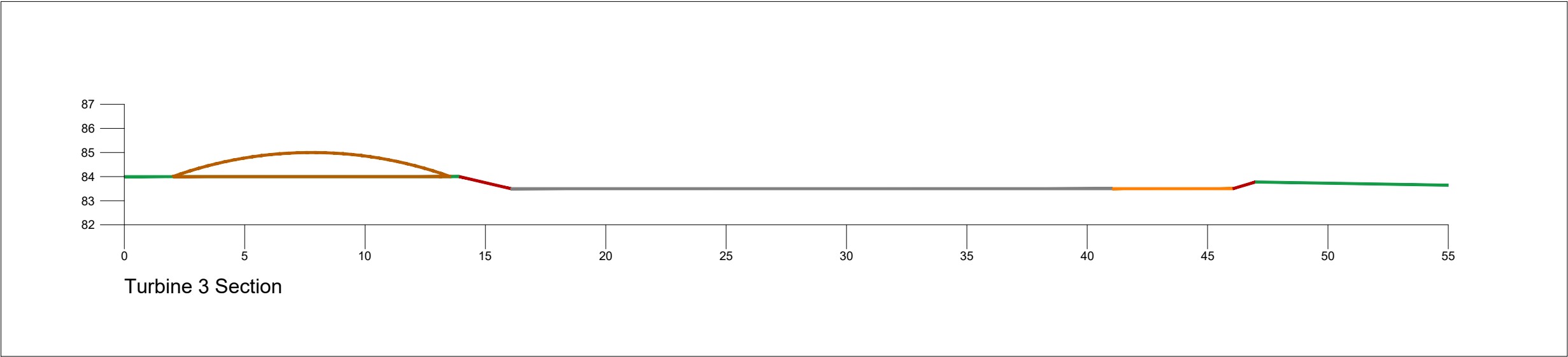
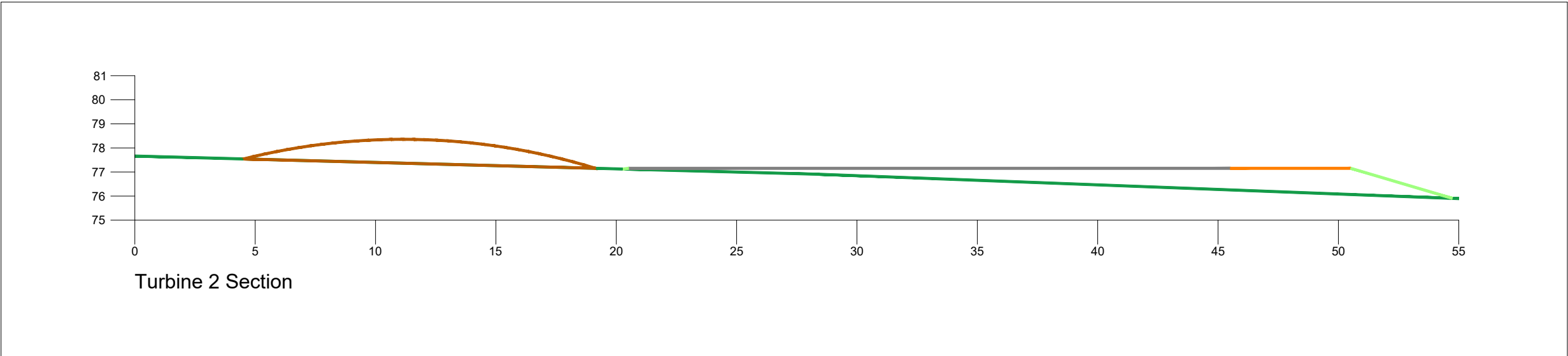
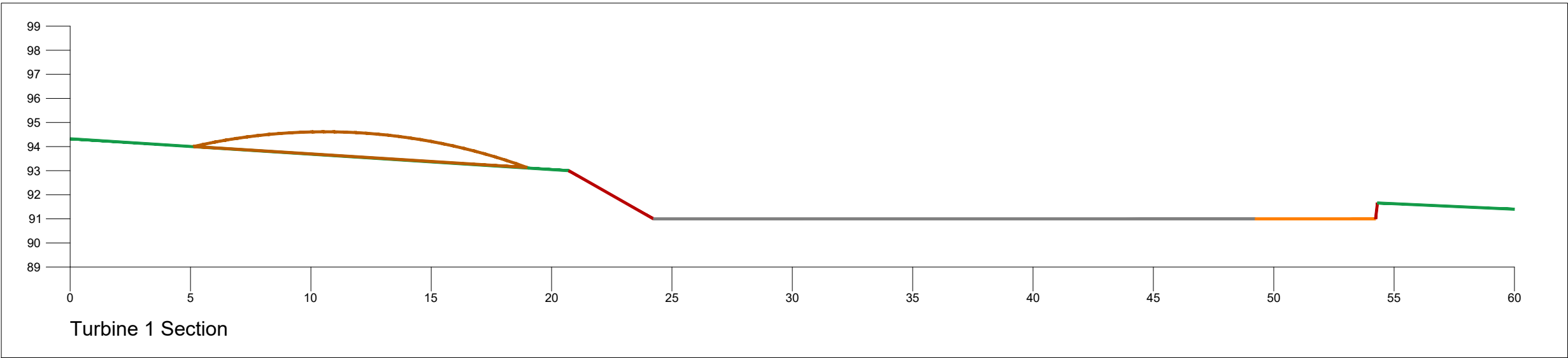
30.03.2023

OS SHEET No.:

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Drawing Legend

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



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 - 49RevA |
| SCALE: 1:200 @ A3 | DATE: 30.03.2023 |



MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email: info@www.mkoireland.ie
Website: www.mkoireland.ie

Drawing Legend

Existing Ground

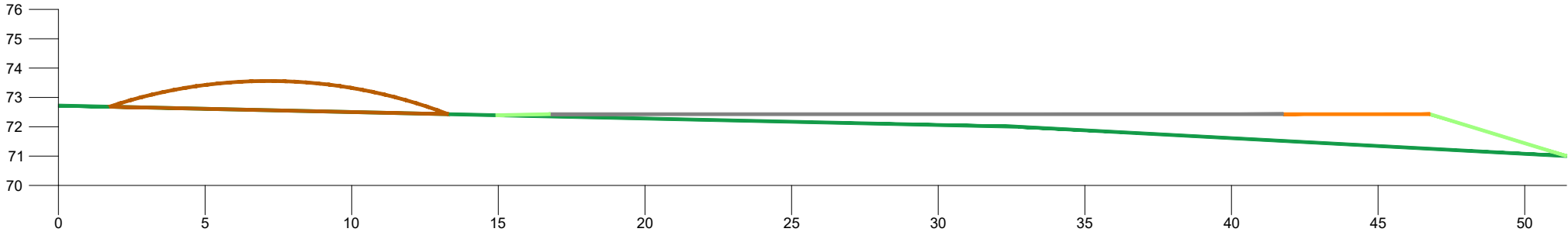
Cut

Fill

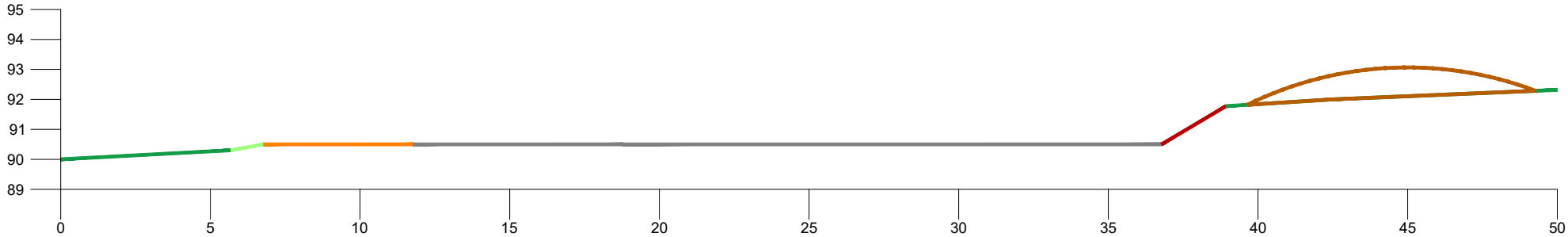
Hardstanding

Spoil Storage

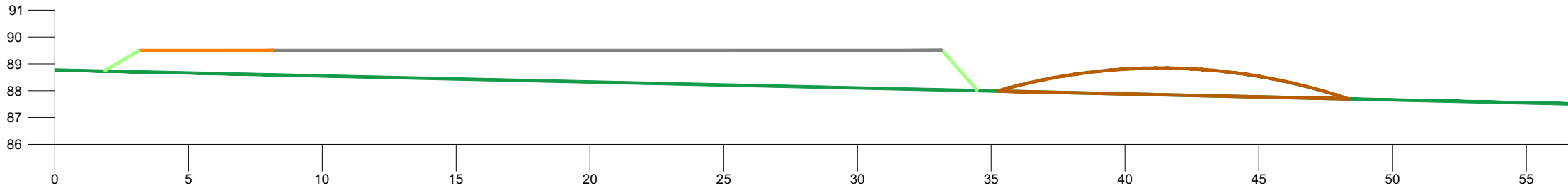
Proposed Road



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 - 50RevA

SCALE:

1:200 @ A3

DATE:

30.03.2023

MKO

Planning and Environmental Consultants

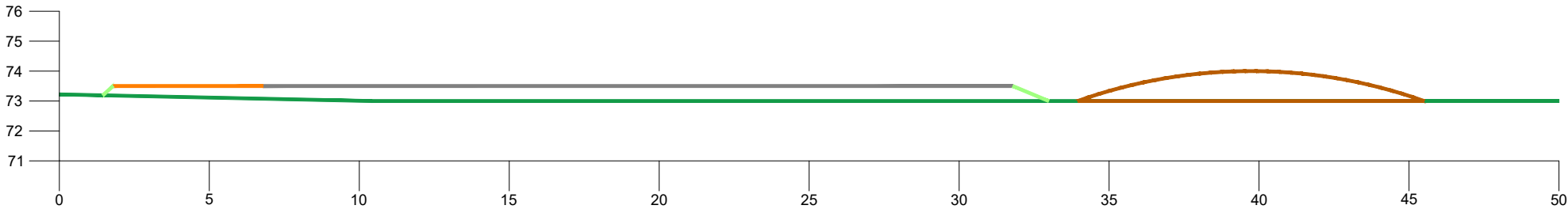
TKO

Planning and Environmental Consultants

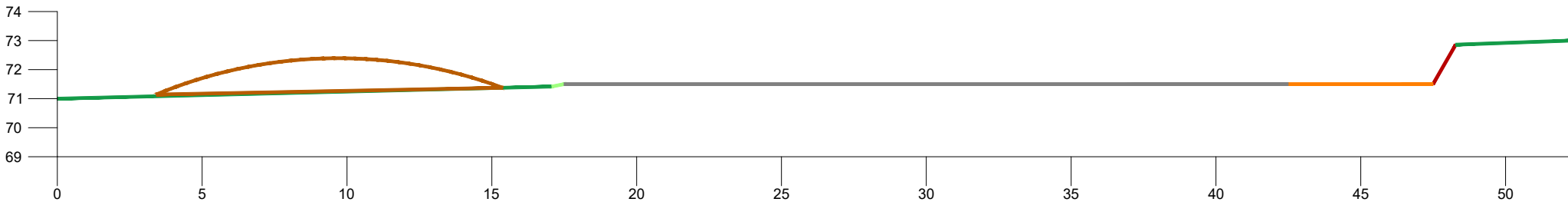
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email: info@www.mkoireland.ie
Website: www.mkoireland.ie

Drawing Legend

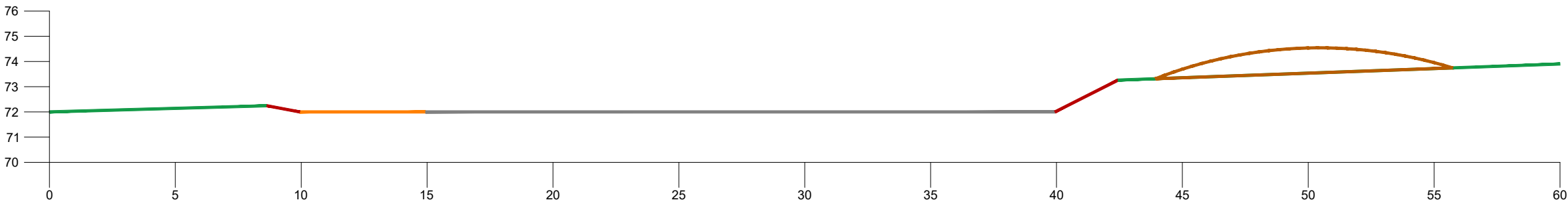
- Existing Ground
- Cut
- Fill
- Hardstanding
- Spoil Storage
- Proposed Road



Turbine 7 Section



Turbine 8 Section






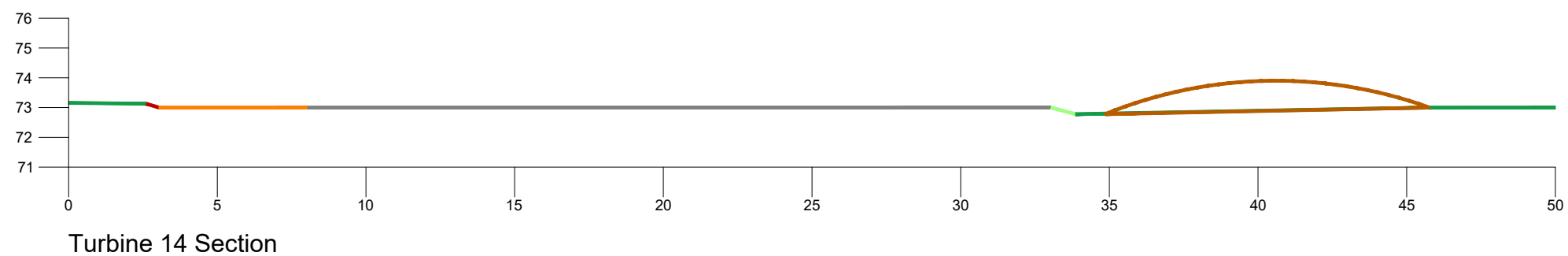
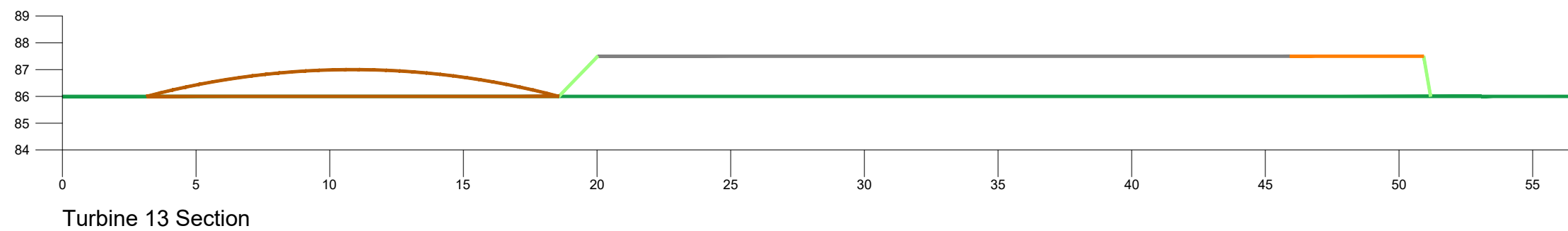
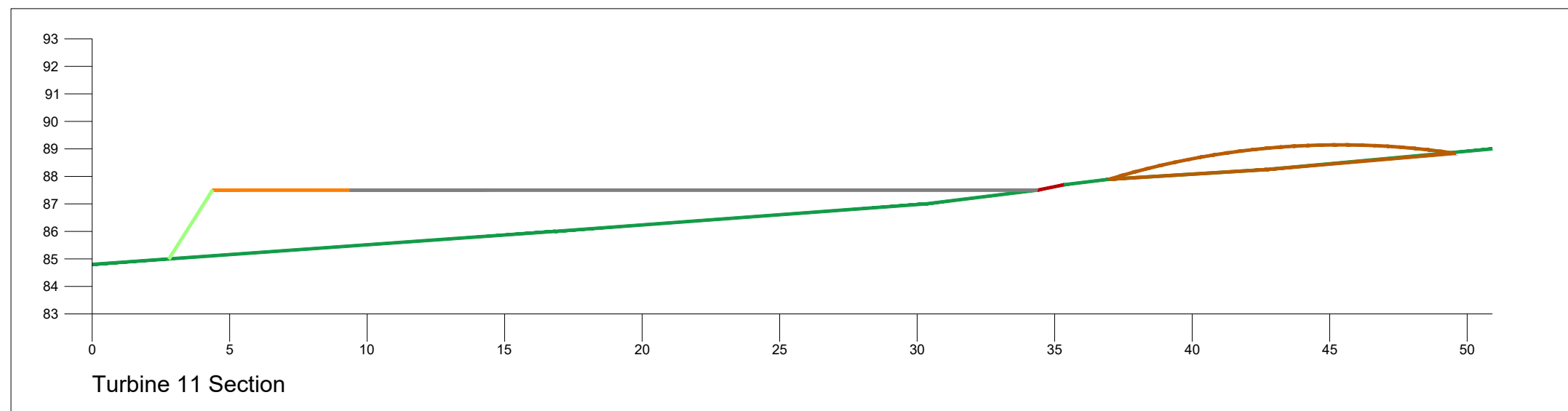
Turbine 10 Section

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 - 51RevA |
| SCALE: 1:200 @ A3 | DATE: 30.03.2023 |
| <div><div>MKO</div><div>Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie</div></div> | |

Drawing Legend

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



Note:
All Dimensions in Metres

| | |
|---|--|
| DRAWING TITLE: Turbine 11, 13, & 14 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 - 52RevA |
| SCALE: 1:200 @ A3 | DATE: 30.03.2023 |
|  <div style="border-left: 1px solid black; padding-left: 10px; margin-left: 10px;"> <p>MKO Planning and Environmental Consultants</p> <p>Tuam Road, Galway Ireland. H91 VV84 +353 (0) 91 735611 email: info@wmo.kmoireland.ie Website: www.mkoireland.ie</p> </div> | |

Drawing Legend

Existing Ground

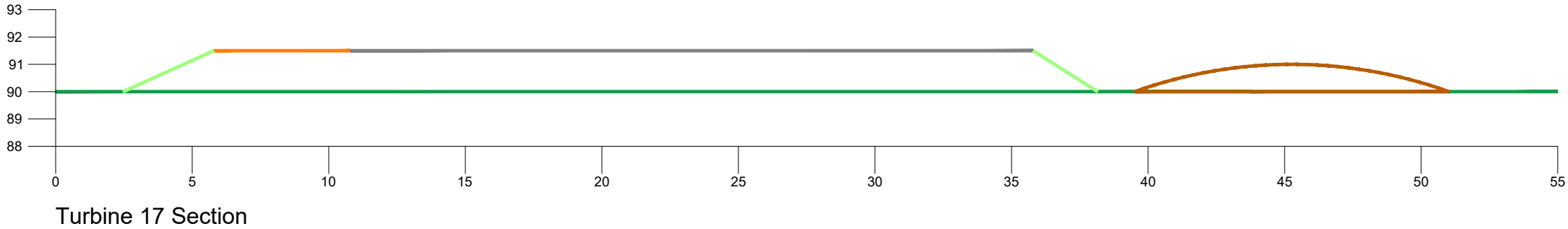
Cut

Fill

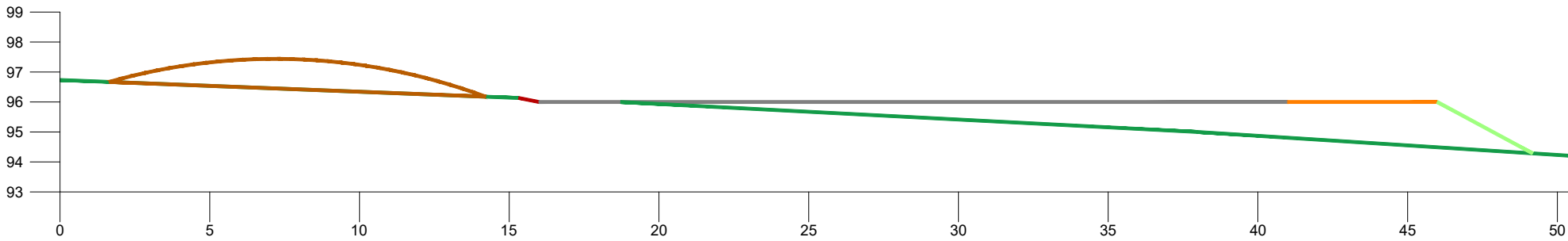
Hardstanding

Spoil Storage

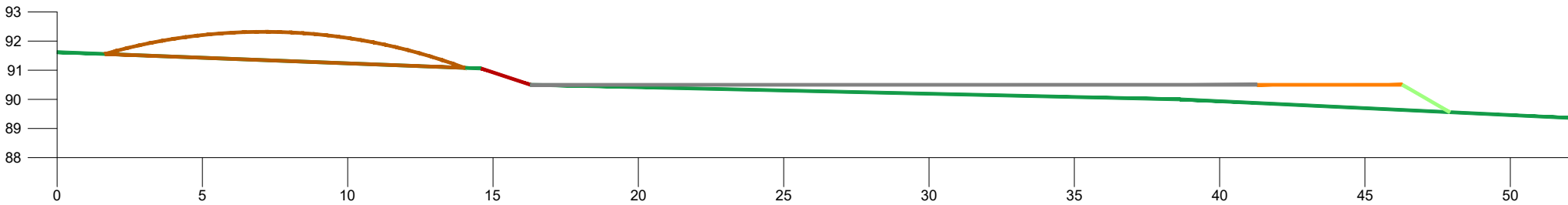
Proposed Road



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 - 53RevA

SCALE:

1:200 @ A3

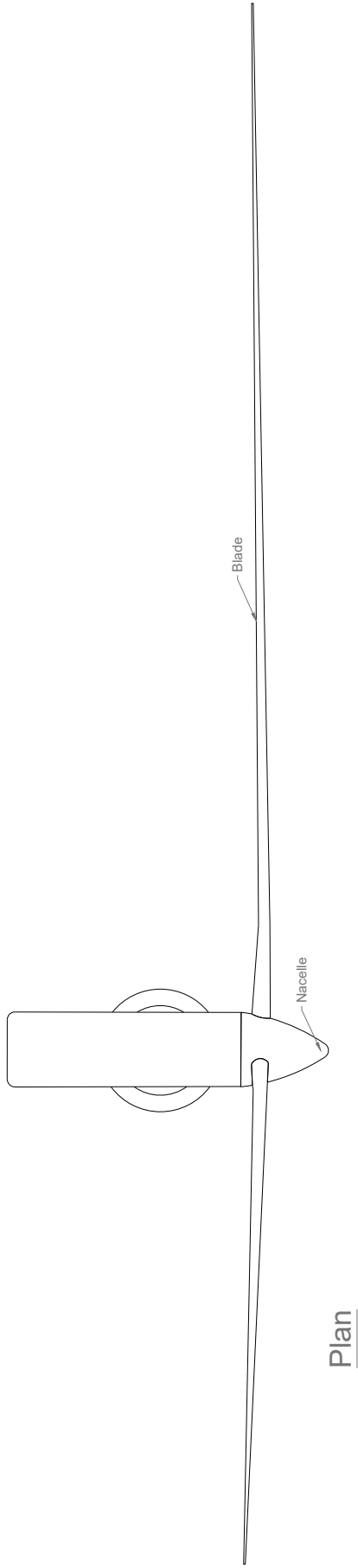
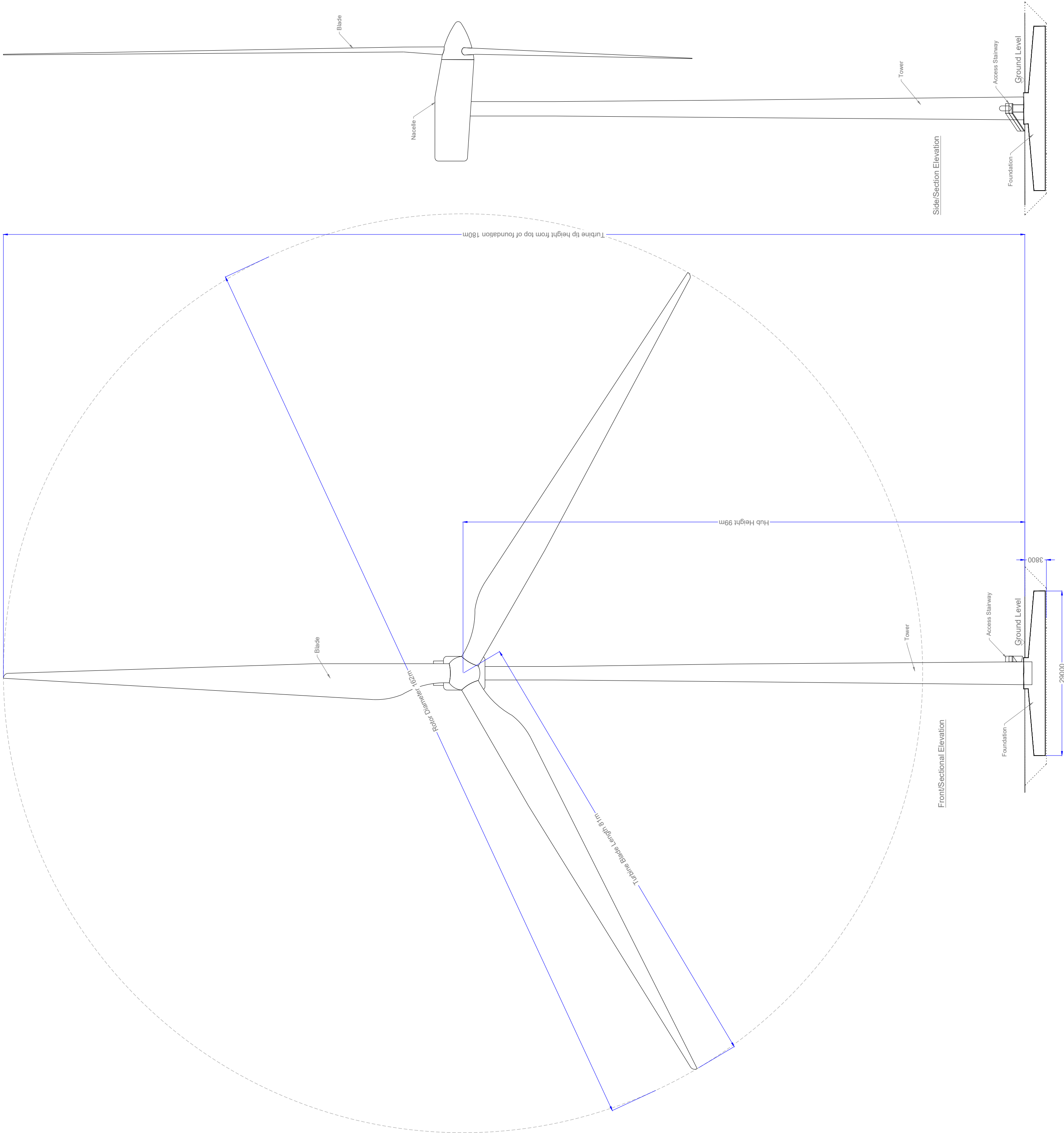
DATE:

30.03.2023

MKO

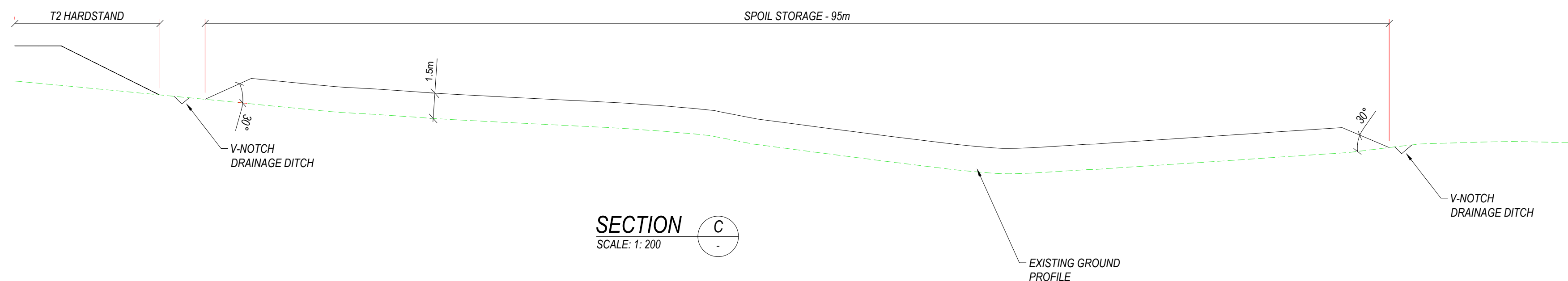
Planning and
Environmental
Consultants

Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email: info@www.mkoireland.ie
Website: www.mkoireland.ie







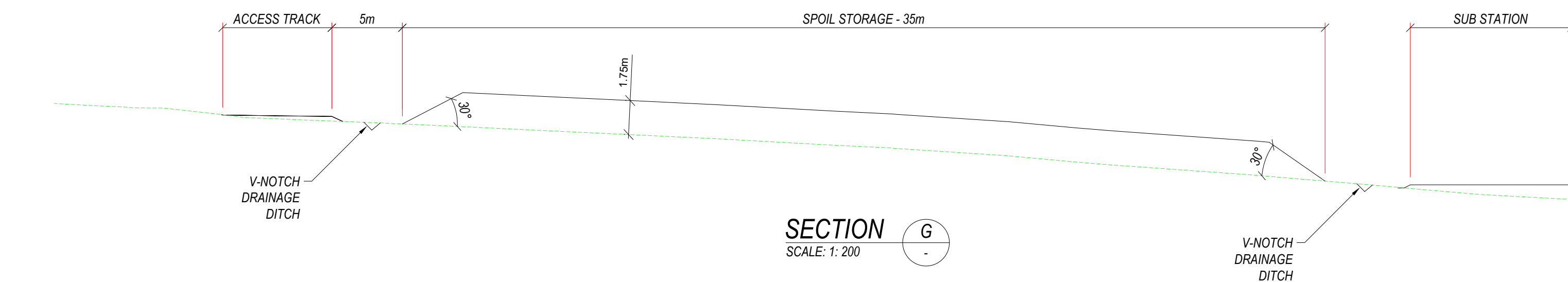
- Drawing Notes**
- Proposed wind turbines to have a maximum ground to blade tip height of 180.
 - Exact make and model of the turbine to be dictated by a competitive tender process.
 - Turbine foundation diameter may vary.
 - Ground level represents the top of turbine foundation.

| | |
|--|---|
| DRAWING TITLE: Wind Turbine Elevations & Plan | |
| PROJECT TITLE: Seven Hills Wind Farm, Co. Roscommon | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Meabhann Crowe |
| PROJECT NUMBER: 190907 | DRAWING NUMBER: 190907 - 54RevA |
| SCALE: 1:500 @A1 | DATE: 30.03.2023 |
|  MKO Tum Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie | |






| LEGEND: | |
|---|--------------------------------|
| | SITE BOUNDARY |
| | EXISTING GROUND PROFILE |
| | PROPOSED SPOIL STORAGE PROFILE |

| | | | | |
|---|----------|---|----|--------------|
| P02 | 30/03/22 | FOR INFORMATION | ID | SS |
| P01 | 15/04/22 | FOR INFORMATION | MW | SS |
| REV | DATE | DESCRIPTION | BY | APP |
| PROJECT: SEVEN HILLS | | | | |
| TITLE: SPOIL STORAGE SECTIONS - NORTH | | | | |
| CLIENT:  Switched on | | | | |
|  Malachy Walsh and Partners Engineering and Environmental Consultants Cork Tralee London Emerick | | | | |
|  <small>L.A. (920) 390-9801</small> | | The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, V94 R578 | | |
| Tel: +353 (0) 81 491164 Fax: +353 (0) 81 441125 E-mail: lmerrick@mwp.ie Web: www.mwp.ie | |  | | |
| DRAWN: MW | | CHECKED: BS | | APPROVED: BS |
| DATE: 30/03/23 | | SCALE AS A1: AS NOTED | | |
| PROJECT NUMBER: 21337 | | DRAWING STATUS: S0 | | |
| DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-1400 | | | | REV: P02 |



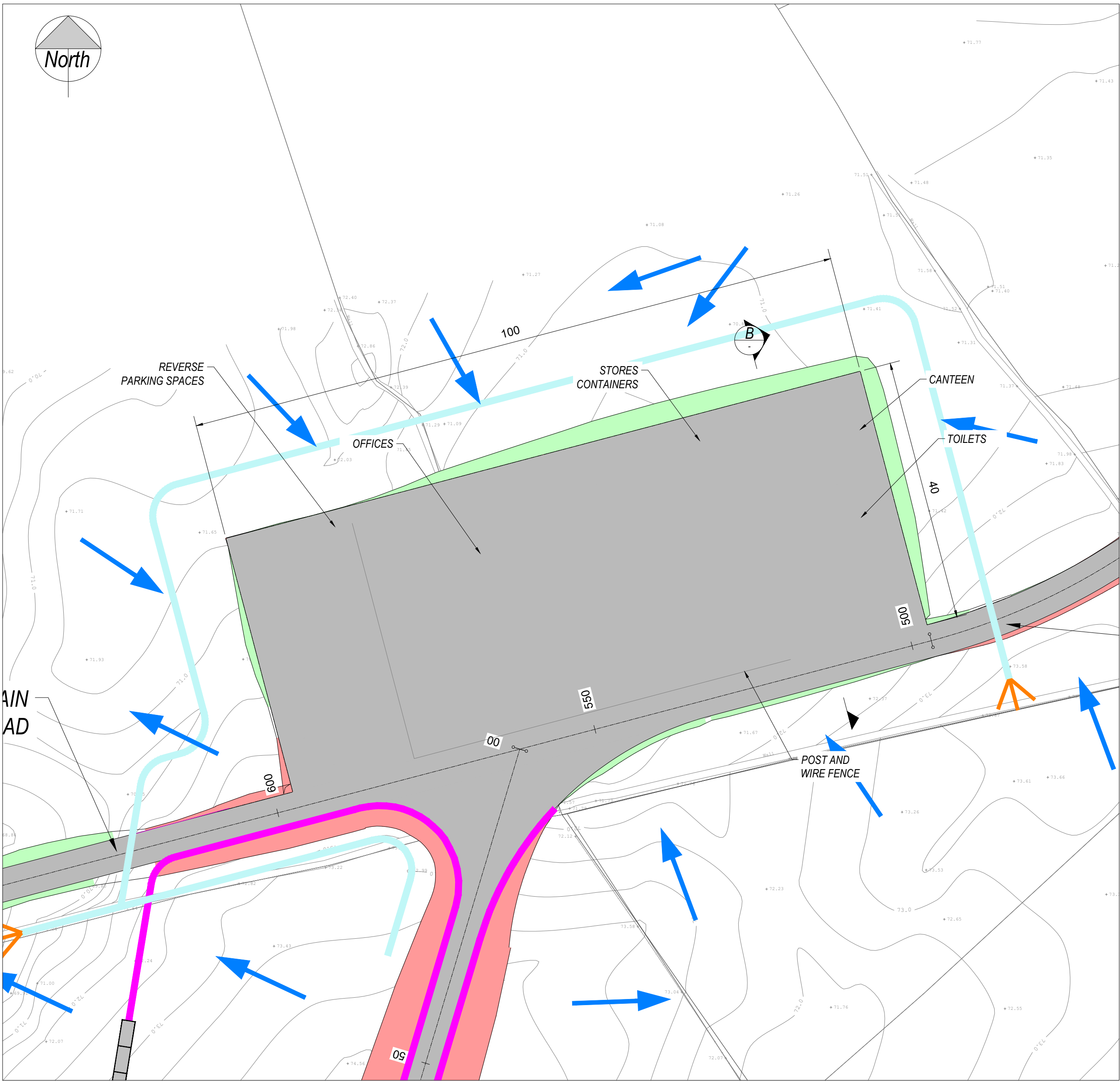
| |
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| NOTES: |
| <ol style="list-style-type: none"> 1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS. 2. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM MALIN HEAD. 3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. 4. DRAWINGS ARE NOT TO BE SCALED. 5. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE. |

| | |
|---|--------------------------------|
| LEGEND: | |
| | SITE BOUNDARY |
| | EXISTING GROUND PROFILE |
| | PROPOSED SPOIL STORAGE PROFILE |

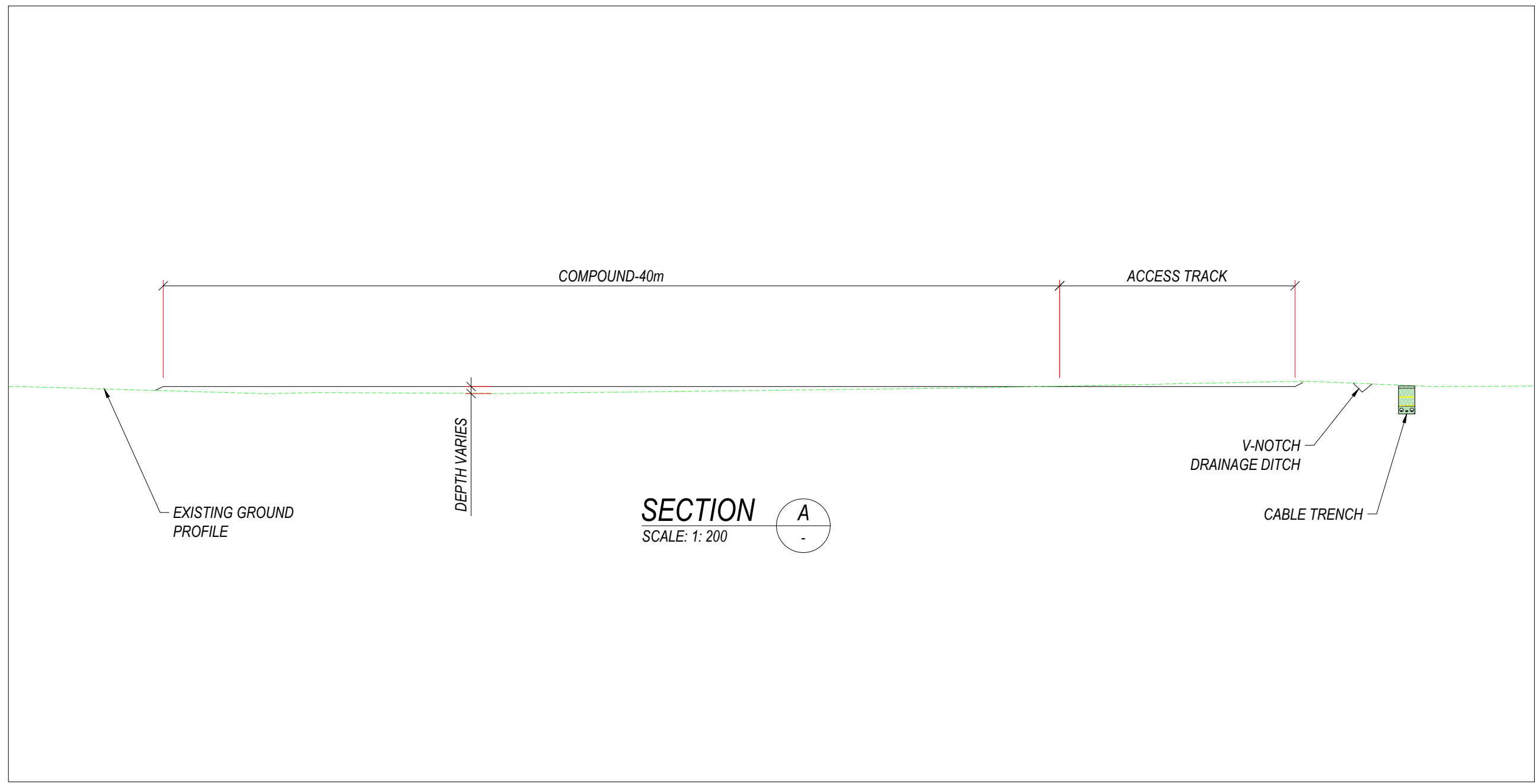
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| P02 | 30/03/23 | FOR INFORMATION | JD | BS |
| P01 | 15/04/22 | FOR INFORMATION | MW | BS |
| REV | DATE | DESCRIPTION | BY | APP |
| PROJECT: | | | | |
| SEVEN HILLS | | | | |
| TITLE: | | | | |
| SPOIL STORAGE SECTIONS - SOUTH SHEET 2 of 2 | | | | |
| CLIENT: | | | | |
|  | | | | |
|  <div> <p>Malachy Walsh and Partners</p> <p>Engineering and Environmental Consultants</p> <p>Cork Tralee London Eimerick</p> </div> | | | | |
|  <p><i>The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, V94 R578</i></p> | | | <p>Tel: +353 (0) 81 490164 Fax: +353 (0) 61 441125 E-mail: limerick@mwp.ie Web: www.mwp.ie</p> | |
| DRAWN: | MW | CHECKED: | BS | APPROVED: |
| | | | | BS |
| DATE: | 30/03/23 | SCALE | AS AT: | |
| | | | | |
| PROJECT NUMBER: | 21337 | | | DRAWING STATUS: |
| | | | | S0 |
| DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-1402 | | | | |
| | | | | REV |



NORTH COMPOUND
SCALE 1:500



SOUTH COMPOUND
SCALE 1:500



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| | | | | |
|-----|----------|-----------------|----|-----|
| PI2 | 20/03/22 | FOR INFORMATION | MW | BS |
| PI1 | 20/03/22 | FOR INFORMATION | MW | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS

TITLE: TEMPORARY CONSTRUCTION COMPOUND GENERAL ARRANGEMENT

CLIENT: **energia**
Switched on

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

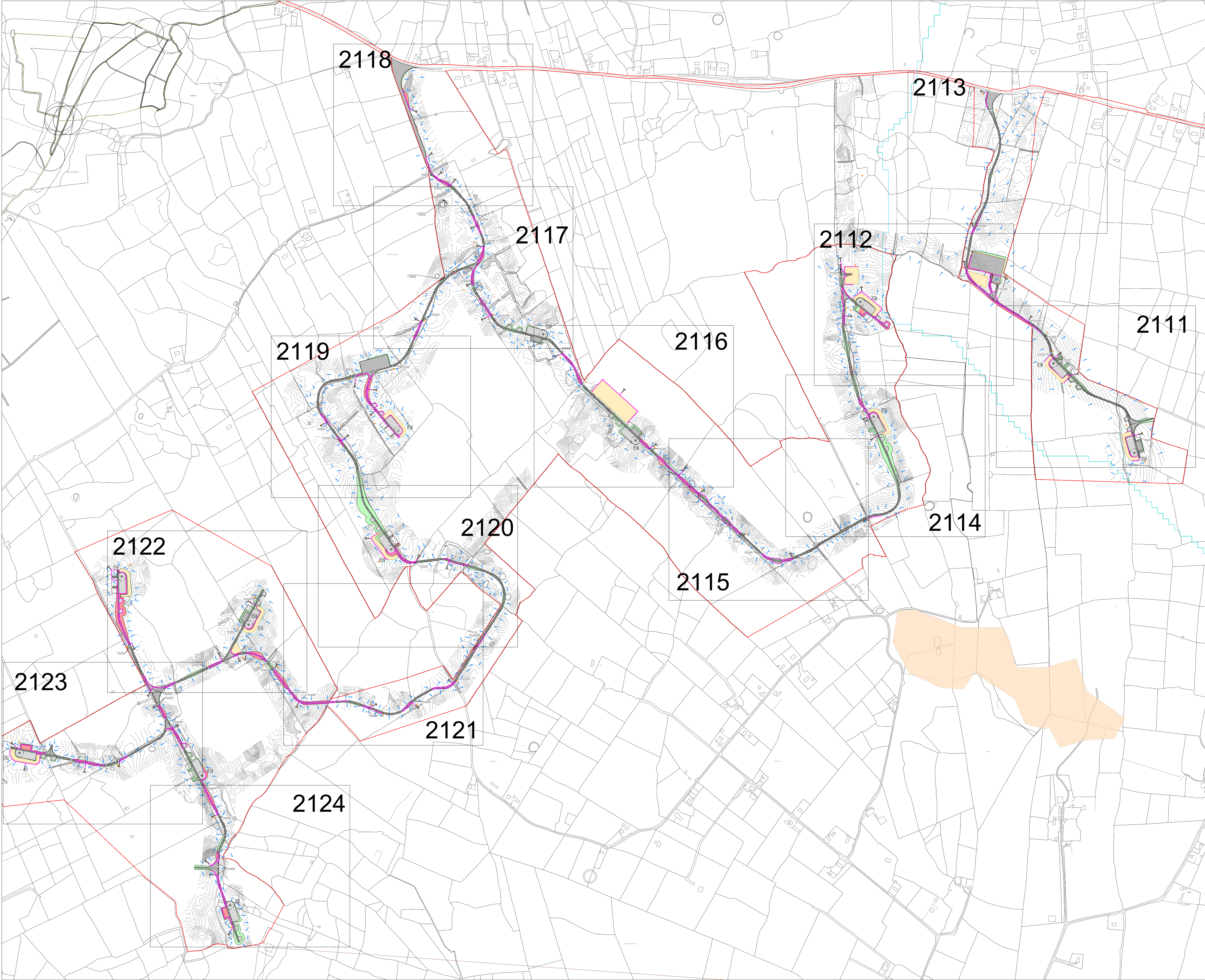
The Elm Suite,
Loughmore Centre,
Limerick,
V94 R578
Tel: +353 (0) 61 480164
Fax: +353 (0) 61 441125
E-mail: limerick@mwpl.ie
Web: www.mwpl.ie

DRAWN: MW CHECKED: BS APPROVED: BS

DATE: 23/03/23 SCALE @ A1: NTS

PROJECT NUMBER: 21337 DRAWING STATUS: S0

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C0103 REV: P02



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- DRAWINGS ARE NOT TO BE SCALED.
- 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 |
| | HARD STAND |
| | STONE BERM |
| | SPOIL 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) |
| | TURLOUGH |

| | | | | |
|-----|----------|------------------------|----|-----|
| P04 | 30/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P03 | 01/06/22 | SUB STATION UPDATED | MW | BS |
| P02 | 06/02/22 | SUB STATION UPDATED | MW | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | JK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WF

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

CLIENT: Switched on

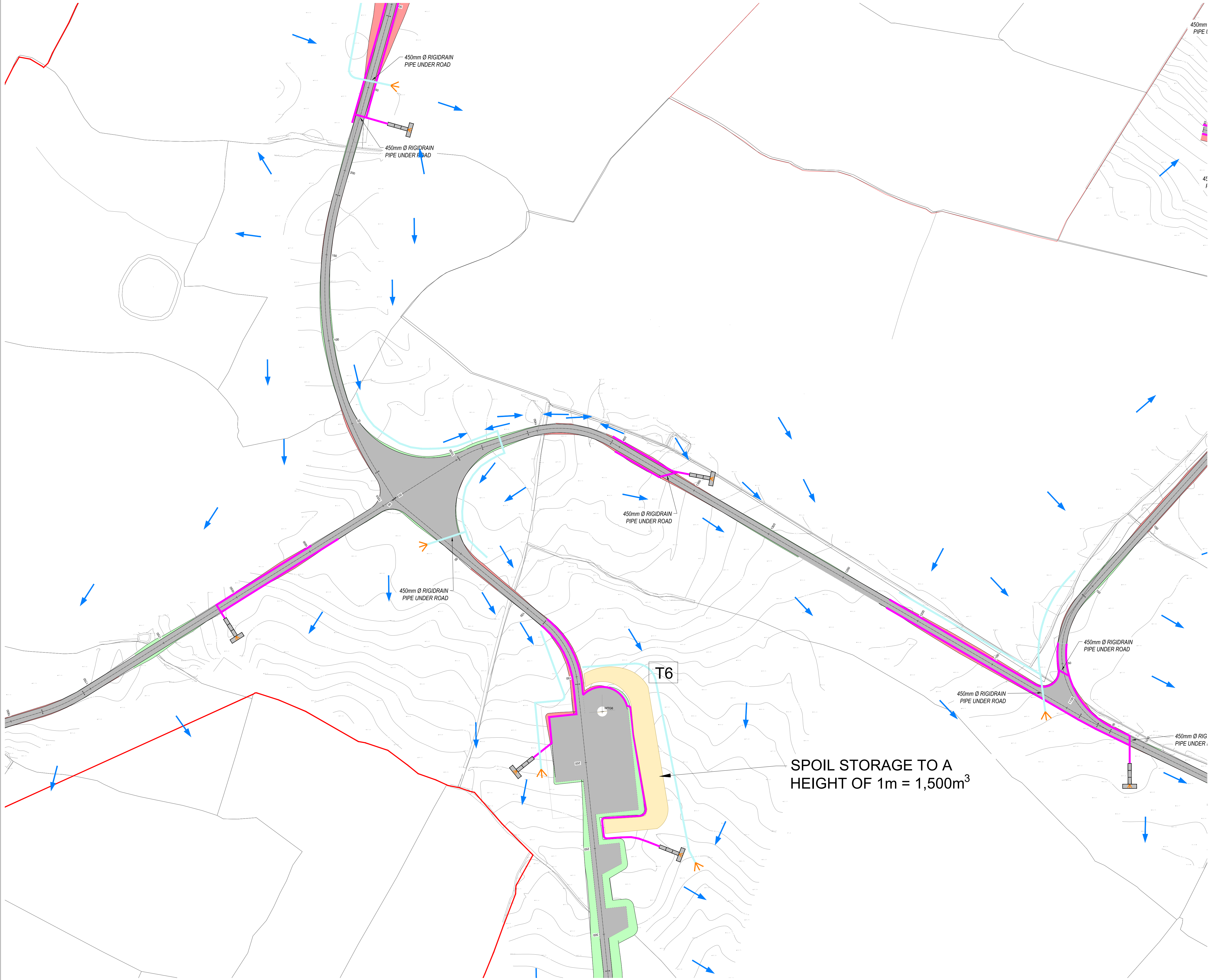
Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Limerick

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

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

| | | |
|---|--------------------|--------------|
| DRAWN: PK | CHECKED: PB | APPROVED: BS |
| DATE: 30/03/23 | SCALE @ A1: 1:1000 | |
| PROJECT NUMBER: 21337 | DRAWING STATUS: S2 | |
| DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2126 | REV: P04 | |

C:\Users\p04026\OneDrive\Projects\21337-MWP-ZZ-00-DR-C-2126\21337-MWP-ZZ-00-DR-C-2126 SOUTH DRAINAGE LOCATION PLAN.dwg



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2. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM MALIN HEAD.
3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
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
- SPOIL 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
- 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 | 26/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P02 | 30/05/22 | 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: **enērgia** 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@mwpl.ie
Web: www.mwpl.ie

| DRAWN: | CHECKED: | APPROVED: |
|--------|----------|-----------|
| PK | PB | BS |

DATE: 23/03/23 SCALE @ A1: 1:1000

| PROJECT NUMBER | DRAWING STATUS |
|----------------|----------------|
| 21337 | S2 |

| DRAWING NUMBER | REV |
|---------------------------|-----|
| 21337-MWP-ZZ-00-DR-C-2105 | P03 |



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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 |
| | SPOIL STORAGE |
| | DIRTY WATER DRAIN |
| | CLEAN WATER DRAIN |
| | EXISTING CUT-OFF DRAIN |
| | RUN OFF DRAIN WITH BUFFERED OFFFALL |
| | SETTLEMENT POND WITH BUFFERED OFFFALL |
| | DIRECTION OF FLOW OF SURFACE WATER |
| | 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) |

| | | | | |
|-----|----------|------------------------|----|-----|
| P03 | 29/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P02 | 30/05/22 | ISSUED FOR INFORMATION | PK | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WIND FARM


TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 6

CLIENT:

energia
Switched on

93-CA-014327-1000

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

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

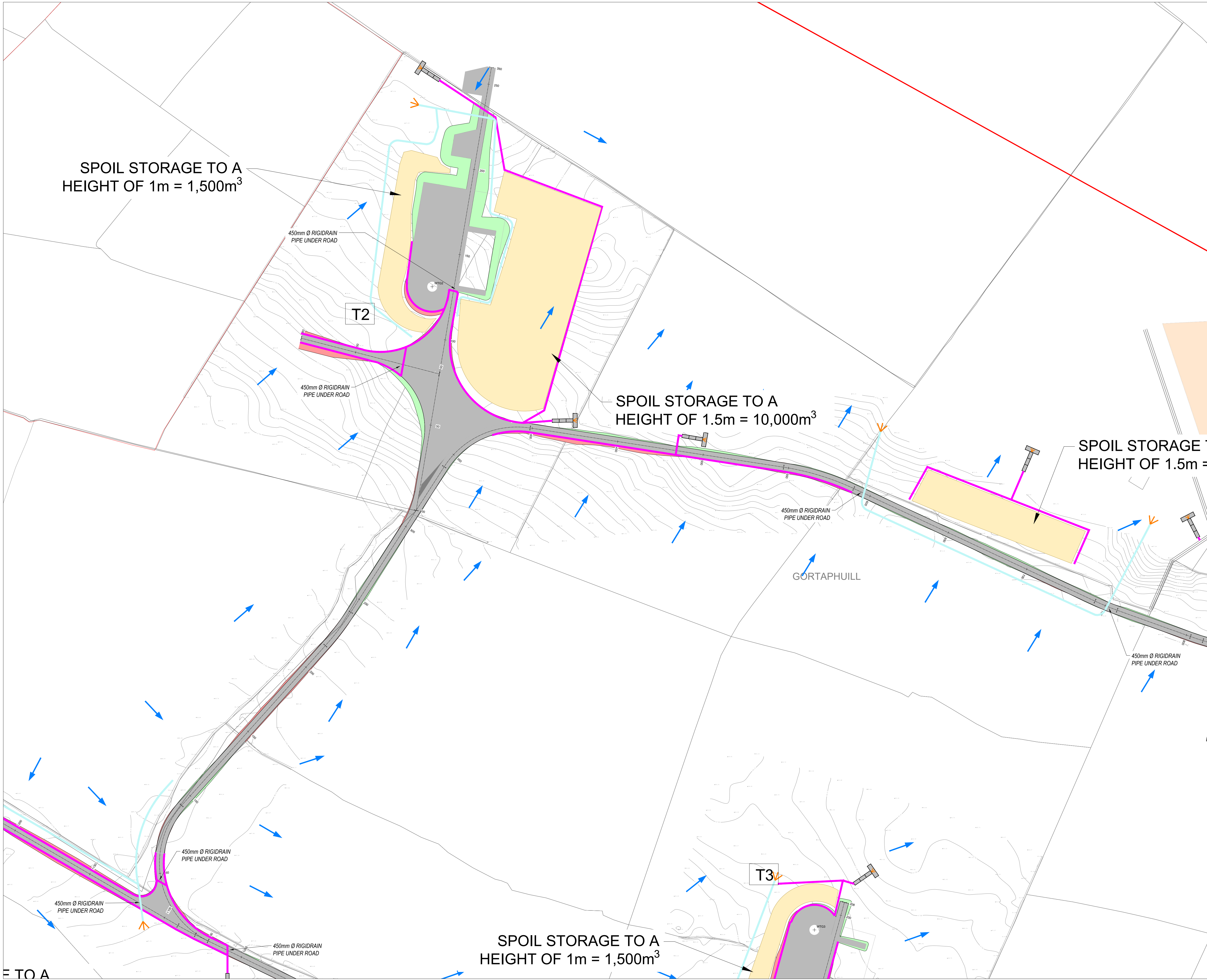
Tel. : +353 (0) 61 480164
Fax. : +353 (0) 61 441125
E-mail : limerick@mwp.ie
Web : www.mwp.ie

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|-----------|-------------|--------------|
| DRAWN: PK | CHECKED: PB | APPROVED: BS |
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|----------------|--------------------|--|
| DATE: 23/03/23 | SCALE @ A1: 1:1000 | |
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| PROJECT NUMBER: | 21337 | DRAWING STATUS: | S2 |
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|--------------------|---------------------------|------|-----|
| DRAWING NUMBER: | 21337-MWP-ZZ-00-DR-C-2106 | 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
- SPOIL 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
- 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)
- TURLOUGH

| | | | | |
|-----|----------|------------------------|----|-----|
| P04 | 30/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P03 | 30/05/22 | ISSUED FOR INFORMATION | MW | BS |
| P02 | 12/04/22 | ISSUED FOR INFORMATION | MW | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT:

SEVEN HILLS WIND FARM

TITLE:

PROPOSED DRAINAGE LAYOUT
SHEET 7

CLIENT:

enērgia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants

Cork | Tralee | London | Limerick

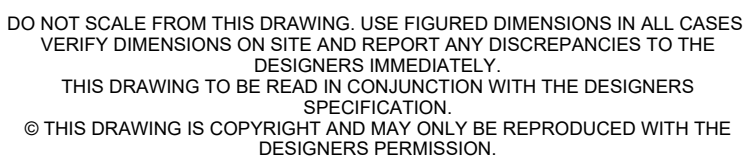
The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
V94 R578

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

| | | | | | |
|-----------------|----------|-----------------|--------|-----------|----|
| DRAWN: | PK | CHECKED: | PB | APPROVED: | BS |
| DATE: | 30/03/23 | SCALE @ A1: | 1:1000 | | |
| PROJECT NUMBER: | 21337 | DRAWING STATUS: | S2 | | |

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
























REV: P04



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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 |
|  | SPOIL 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 |
|  | 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) |
|  | TURLOUGH |

| | | | | |
|-----|----------|------------------------|----|-----|
| P03 | 29/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P02 | 30/05/22 | ISSUED FOR INFORMATION | PK | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 8

CLIENT:



| | | |
|-----------|-------------|--------------|
| DRAWN: PK | CHECKED: PB | APPROVED: BS |
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| DATE: 23/03/23 | SCALE @ A1: 1:1000 | |
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| PROJECT NUMBER: | 21337 | DRAWING STATUS: | S2 |
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| DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2108 | REV: P03 |
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








SPOIL
HEIGHT C

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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 |
|  | SPOIL 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 |
|  | 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) |

| | | | | |
|-----|----------|------------------------|----|-----|
| P03 | 29/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P02 | 30/05/22 | ISSUED FOR INFORMATION | PK | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 10

CLIENT: **en6raia**

 **Malachy Walsh and Partners**
Engineering and Environmental Consultants

Cork | Tralee | London | Limerick

*The Elm Suite,
Loughmore Centre,
Rahena Business Park,
Limerick,
V94 R578*

Tel : +353 (0) 61 490164
Fax : +353 (0) 61 441125
E-mail : lmerrick@mw.ie
Web : www.mw.ie

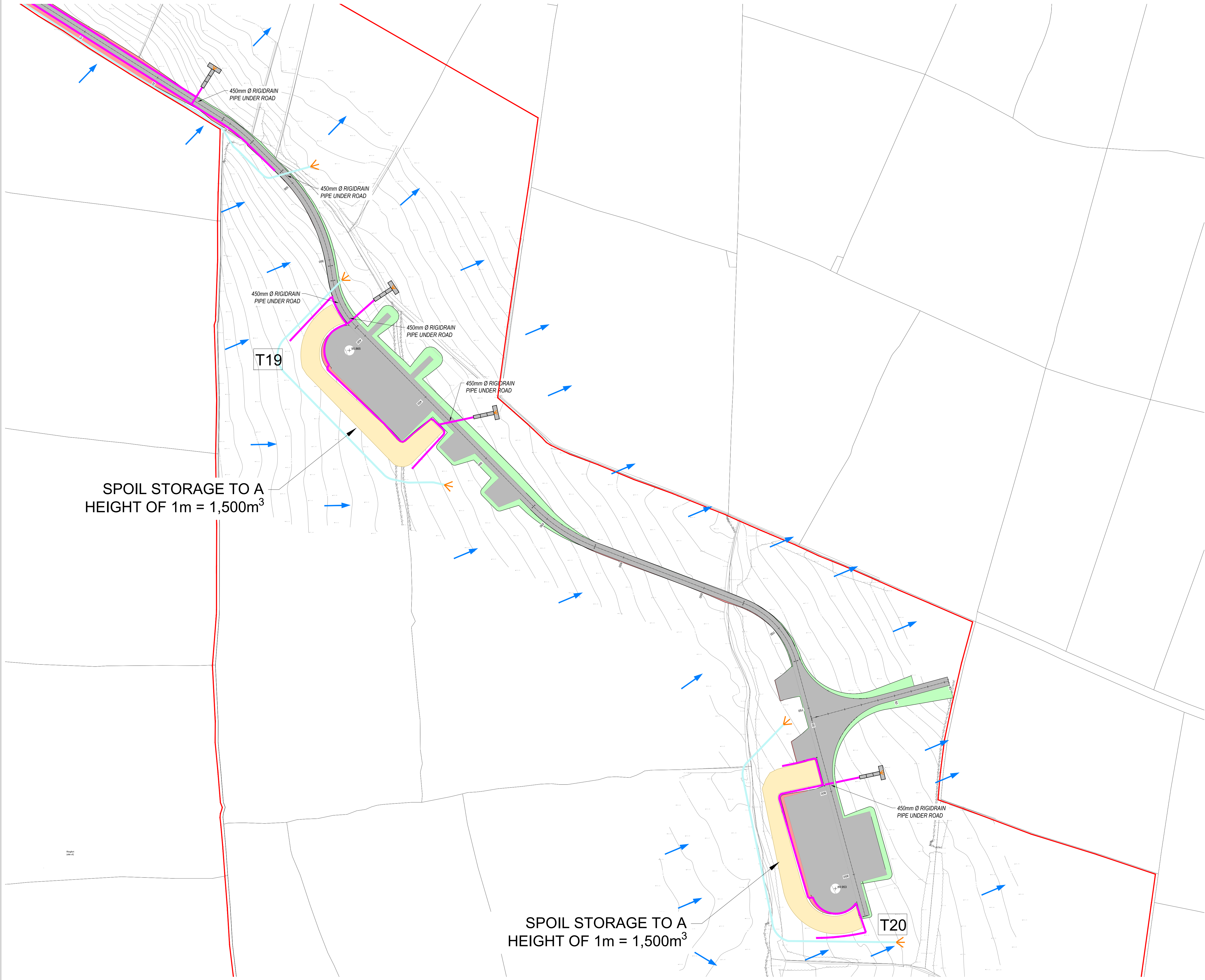

EN ES ISO 9001

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| DRAWN: PK | CHECKED: PB | APPROVED: BS |
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| DATE: 23/03/23 | SCALE @ A1: 1:1000 | |
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| PROJECT NUMBER: | 21337 | DRAWING STATUS: | S2 |
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| DRAWING NUMBER: | 21337-MWP-ZZ-00-DR-C-2110 | REV: P03 |
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SPOIL STORAGE TO A
HEIGHT OF 1m = 1,500m³

SPOIL STORAGE TO A
HEIGHT OF 1m = 1,500m³

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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
- SPOIL 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
- 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 | 28/03/23 | ISSUED FOR INFORMATION | J.D. | BS |
| 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:



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

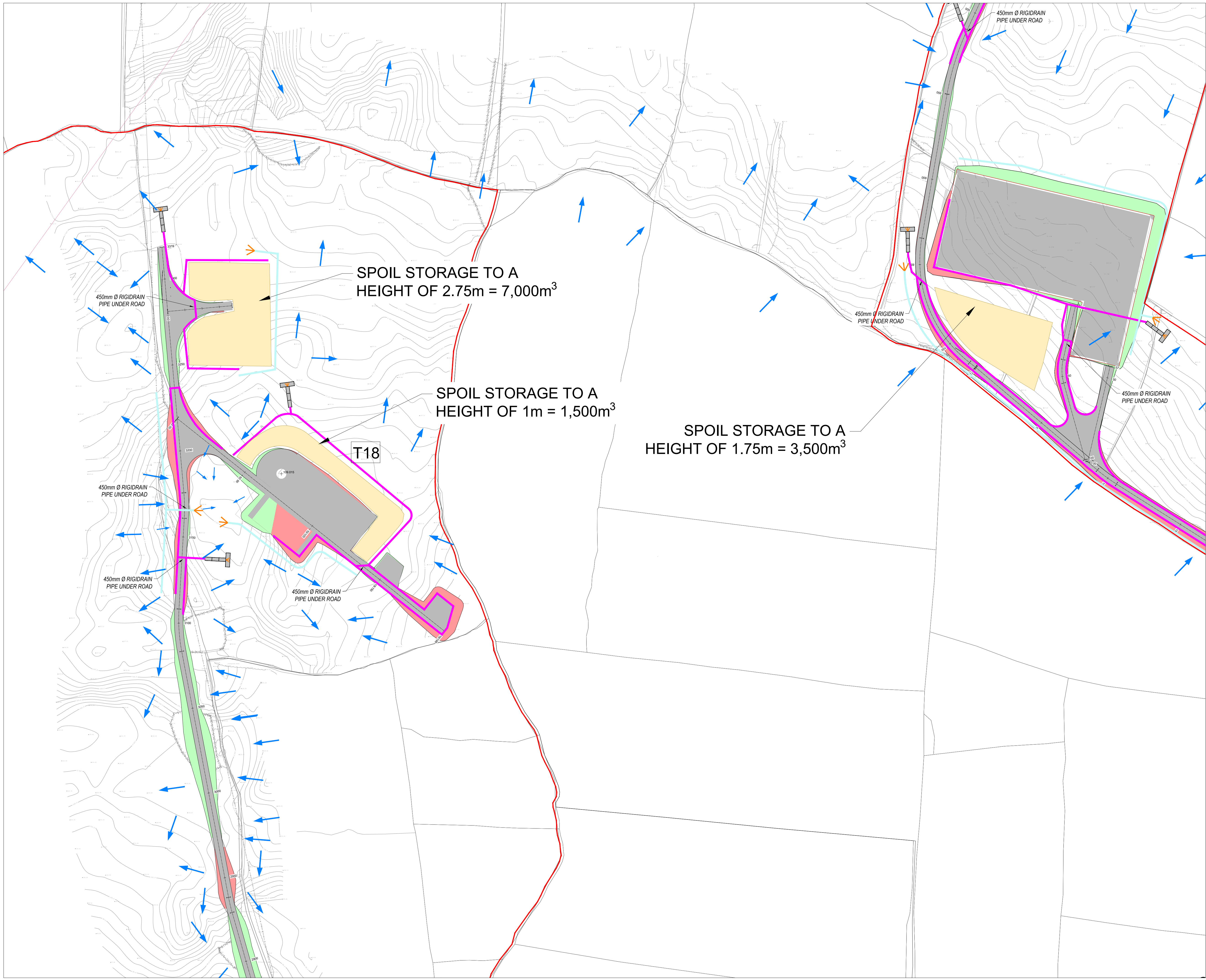
Tel: +353 (0) 61 480164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

| | | | | | |
|--------|----|----------|----|-----------|----|
| DRAWN: | PK | CHECKED: | PB | APPROVED: | BS |
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| DATE: | 23/03/23 | SCALE @ A1: | 1:1000 |
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|-------------------|-------|-------------------|----|
| PROJECT NUMBER | 21337 | DRAWING STATUS | S2 |
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|-------------------|---------------------------|-----|-----|
| DRAWING NUMBER | 21337-MWP-00-00-DR-C-2111 | 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
- SPOIL 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
- 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 |
|-----|----------|------------------------|----|-----|
| P06 | 29/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P05 | 01/04/22 | 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: **enērgia**
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

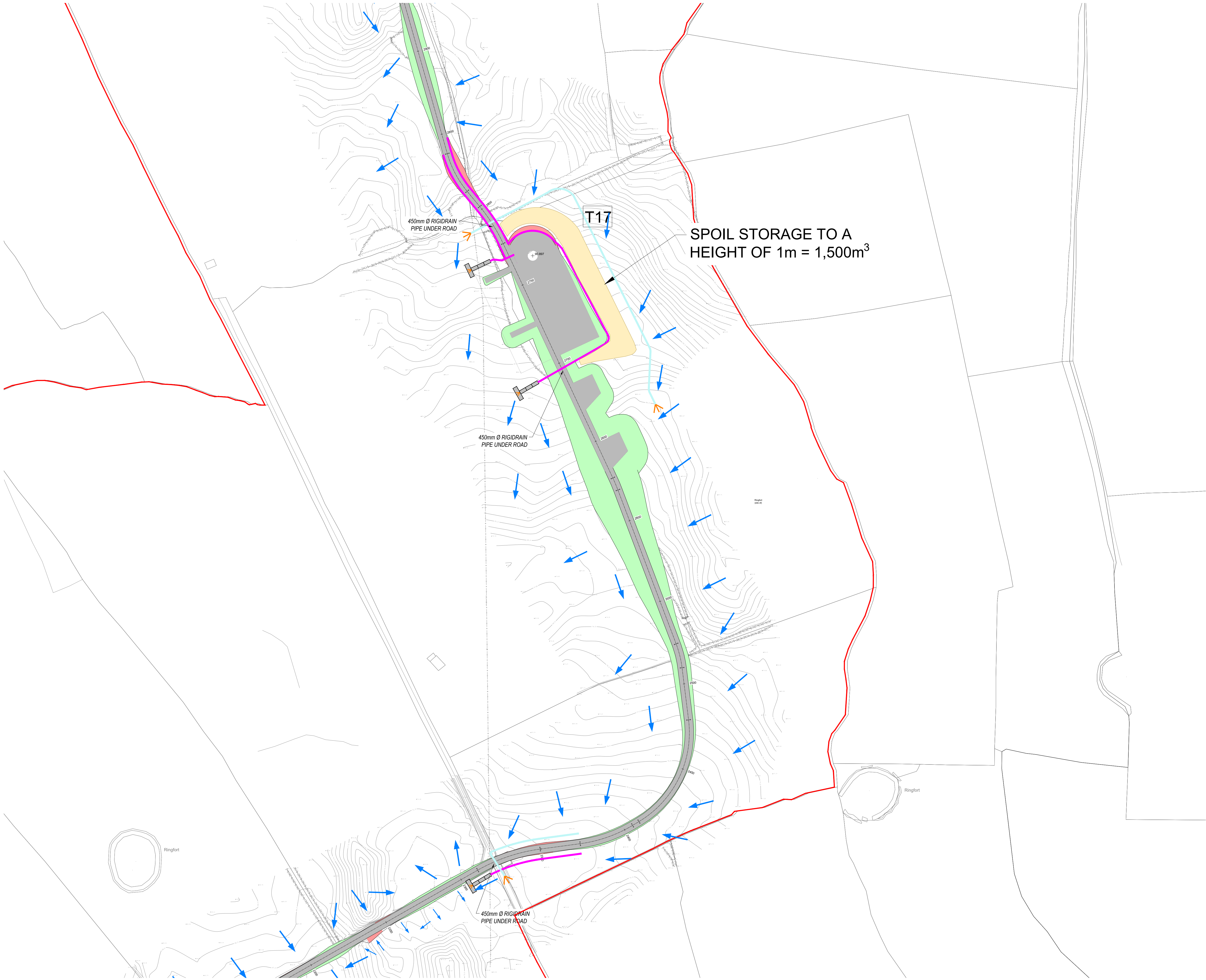
Tel: +353 (0) 61 490164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

| DRAWN | CHECKED | APPROVED |
|-------|---------|----------|
| PK | PB | BS |

DATE: 23/03/23 SCALE @ A1: 1:1000

| PROJECT NUMBER | DRAWING STATUS |
|----------------|----------------|
| 21337 | S2 |

| DRAWING NUMBER | REV |
|---------------------------|-----|
| 21337-MWP-00-00-DR-C-2112 | P06 |



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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
 - SPOIL 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
 - 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)

| | | | | |
|-----|----------|------------------------|----|-----|
| P03 | 28/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P02 | 07/06/22 | ISSUED FOR INFORMATION | PK | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 14

CLIENT: **enērgia**
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

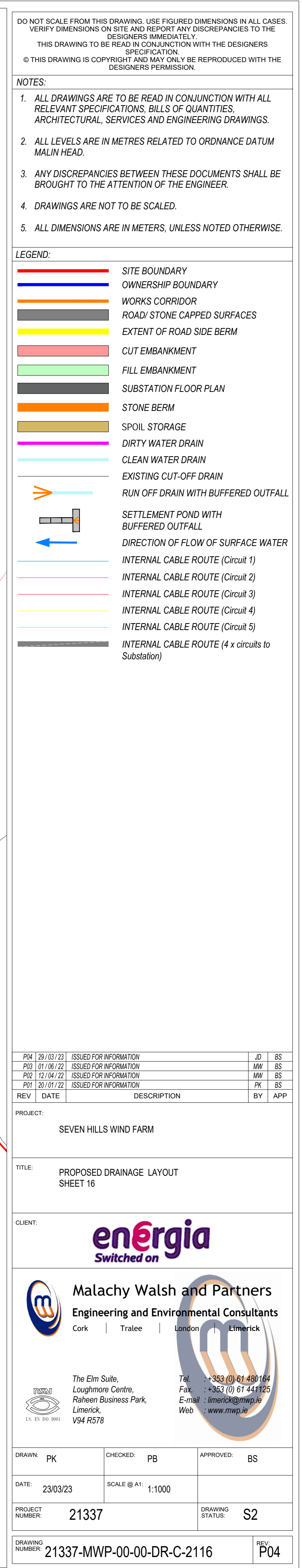
Tel: +353 (0) 61 490164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

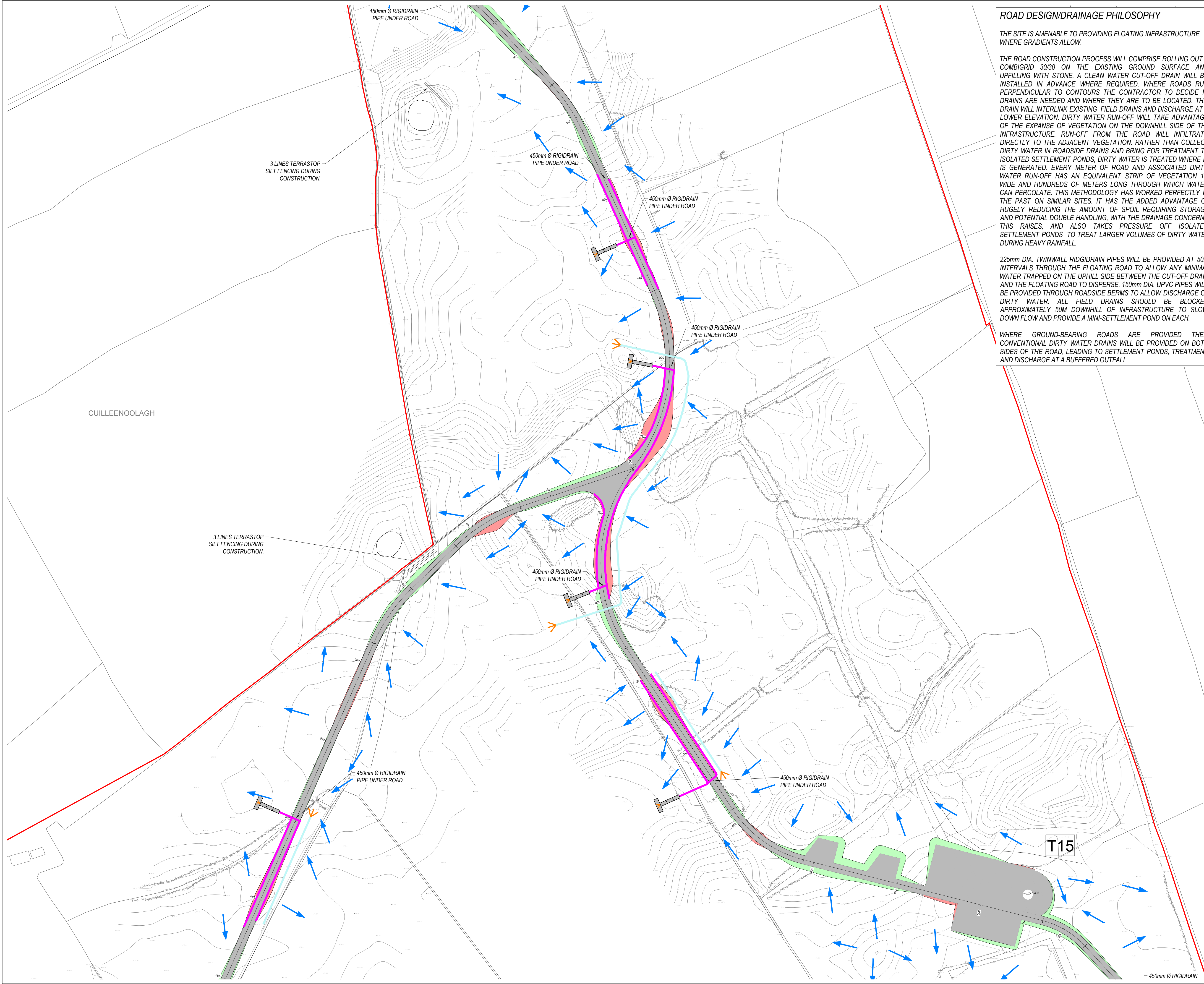
DRAWN: PK CHECKED: PB APPROVED: BS

DATE: 23/03/23 SCALE @ A1: 1:1000

PROJECT NUMBER: 21337 DRAWING STATUS: S2

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

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
- ROAD/ STONE CAPPED SURFACES
- EXTENT OF ROAD SIDE BERM
- CUT EMBANKMENT
- FILL EMBANKMENT
- SUBSTATION FLOOR PLAN
- STONE BERM
- SPOIL 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
- 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)

| | | | | |
|-----|----------|------------------------|----|-----|
| PI3 | 29/03/23 | ISSUED FOR INFORMATION | JD | BS |
| PI2 | 01/06/22 | ISSUED FOR INFORMATION | PK | BS |
| PI1 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WF

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 17

CLIENT: **enērgia**
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

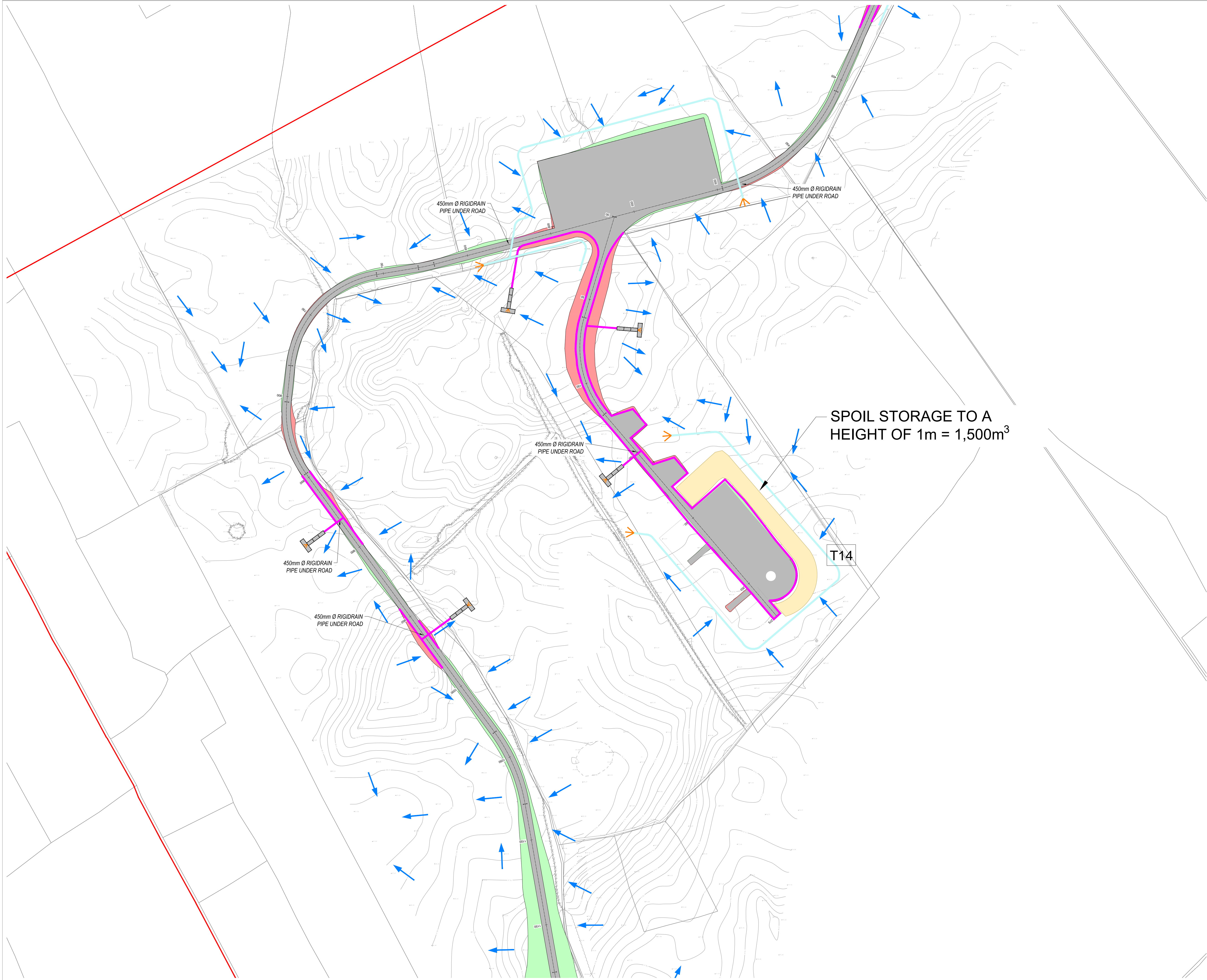
Tel: +353 (0) 61 490164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

DRAWN: PK CHECKED: PB APPROVED: BS

DATE: 23/03/23 SCALE @ A1: 1:1000

PROJECT NUMBER: 21337 DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2117 REV: P03



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- LEGEND:
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 - OWNERSHIP BOUNDARY
 - WORKS CORRIDOR
 - ROAD/ STONE CAPPED SURFACES
 - EXTENT OF ROAD SIDE BERM
 - CUT EMBANKMENT
 - FILL EMBANKMENT
 - SUBSTATION FLOOR PLAN
 - STONE BERM
 - SPOIL STORAGE
 - DIRTY WATER DRAIN
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 - SETTLEMENT POND WITH BUFFERED OUTFALL
 - DIRECTION OF FLOW OF SURFACE WATER
 - 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)

| P03 | 29/03/23 | ISSUED FOR INFORMATION | JD | BS |
|-----|----------|------------------------|----|-----|
| P02 | 07/06/22 | ISSUED FOR INFORMATION | PK | BS |
| P01 | 29/07/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 19

CLIENT: **enērgia**
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

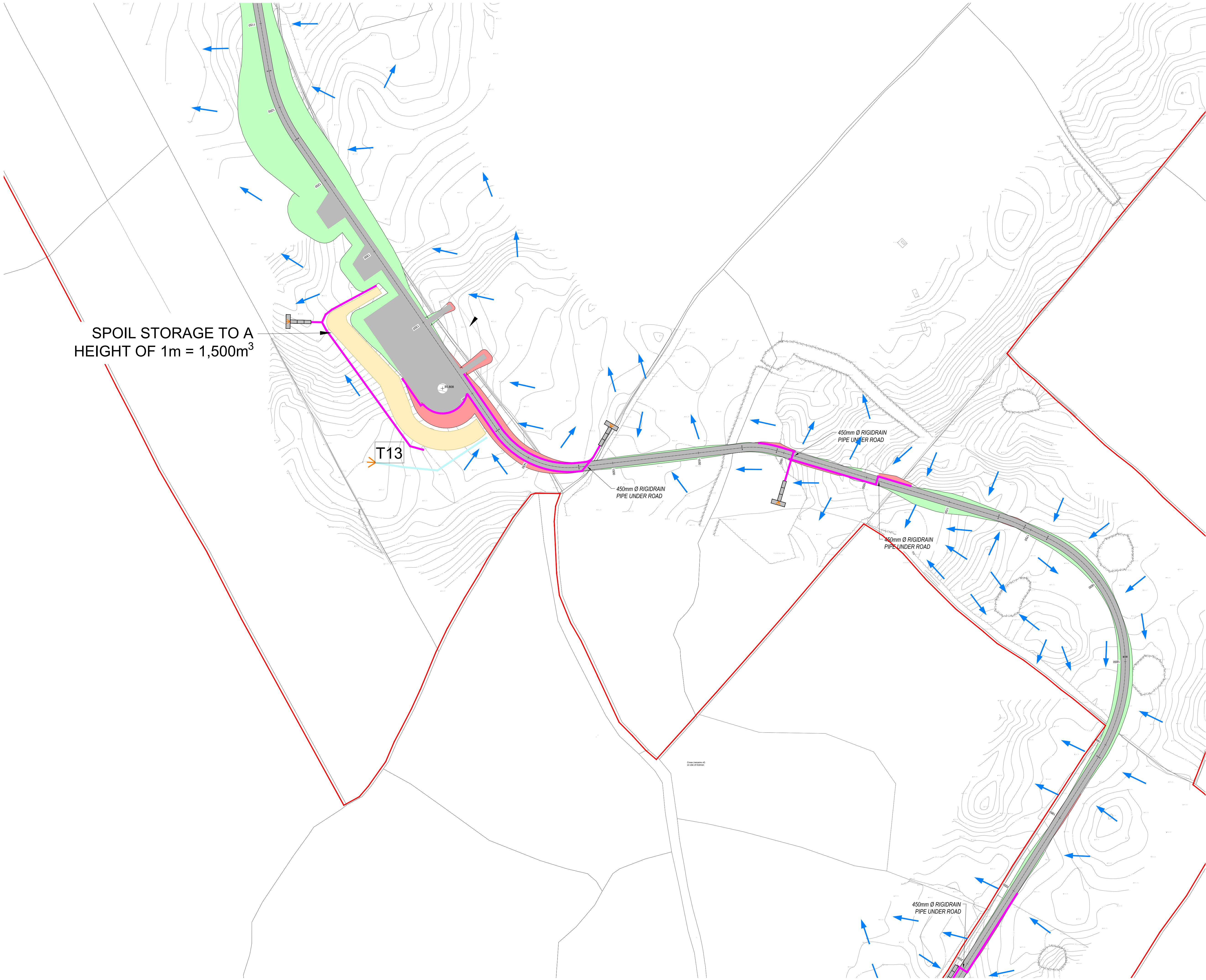
Tel: +353 (0) 61 490164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

DRAWN: PK CHECKED: PB APPROVED: BS

DATE: 23/03/23 SCALE @ A1: 1:1000

PROJECT NUMBER: 21337 DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2119 REV: P03



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 - 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)

| | | | | |
|-----|----------|------------------------|----|-----|
| P03 | 28/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P02 | 07/06/22 | ISSUED FOR INFORMATION | PK | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 20

CLIENT: **enērgia**
Switched on

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

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

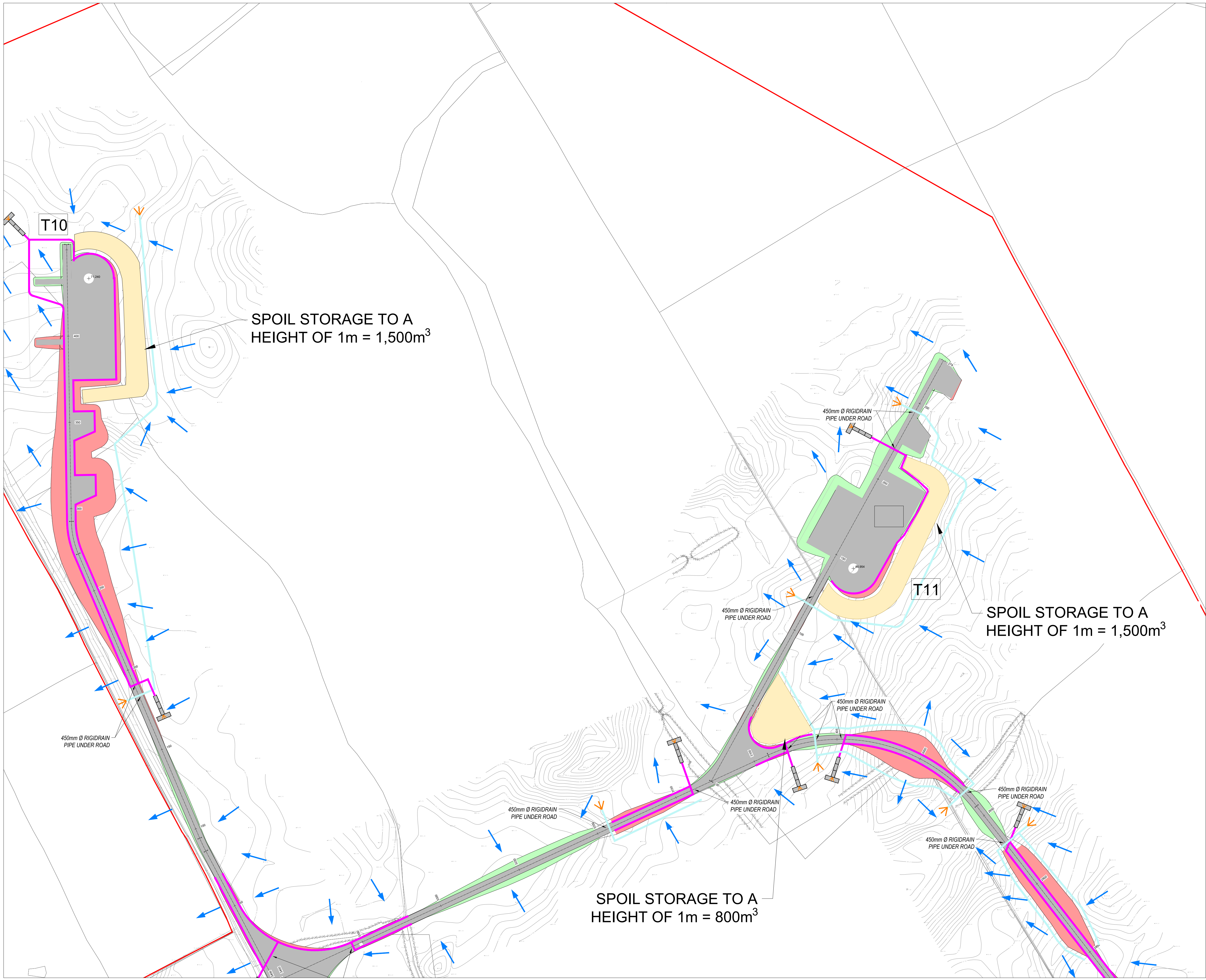
Tel: +353 (0) 61 480164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

DRAWN: PK CHECKED: PB APPROVED: BS

DATE: 23/03/23 SCALE @ A1: 1:1000

PROJECT NUMBER: 21337 DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2120 REV: P03



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LEGEND:

- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- WORKS CORRIDOR
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- 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)

| | | | | |
|-----|----------|------------------------|----|-----|
| PK1 | 29/03/23 | ISSUED FOR INFORMATION | JD | BS |
| PK2 | 01/06/22 | ISSUED FOR INFORMATION | MW | BS |
| PK3 | 12/04/22 | ISSUED FOR INFORMATION | MW | BS |
| PK4 | 29/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT:

SEVEN HILLS WIND FARM

TITLE:

PROPOSED DRAINAGE LAYOUT

SHEET 22

CLIENT:

enērgia
Switched on

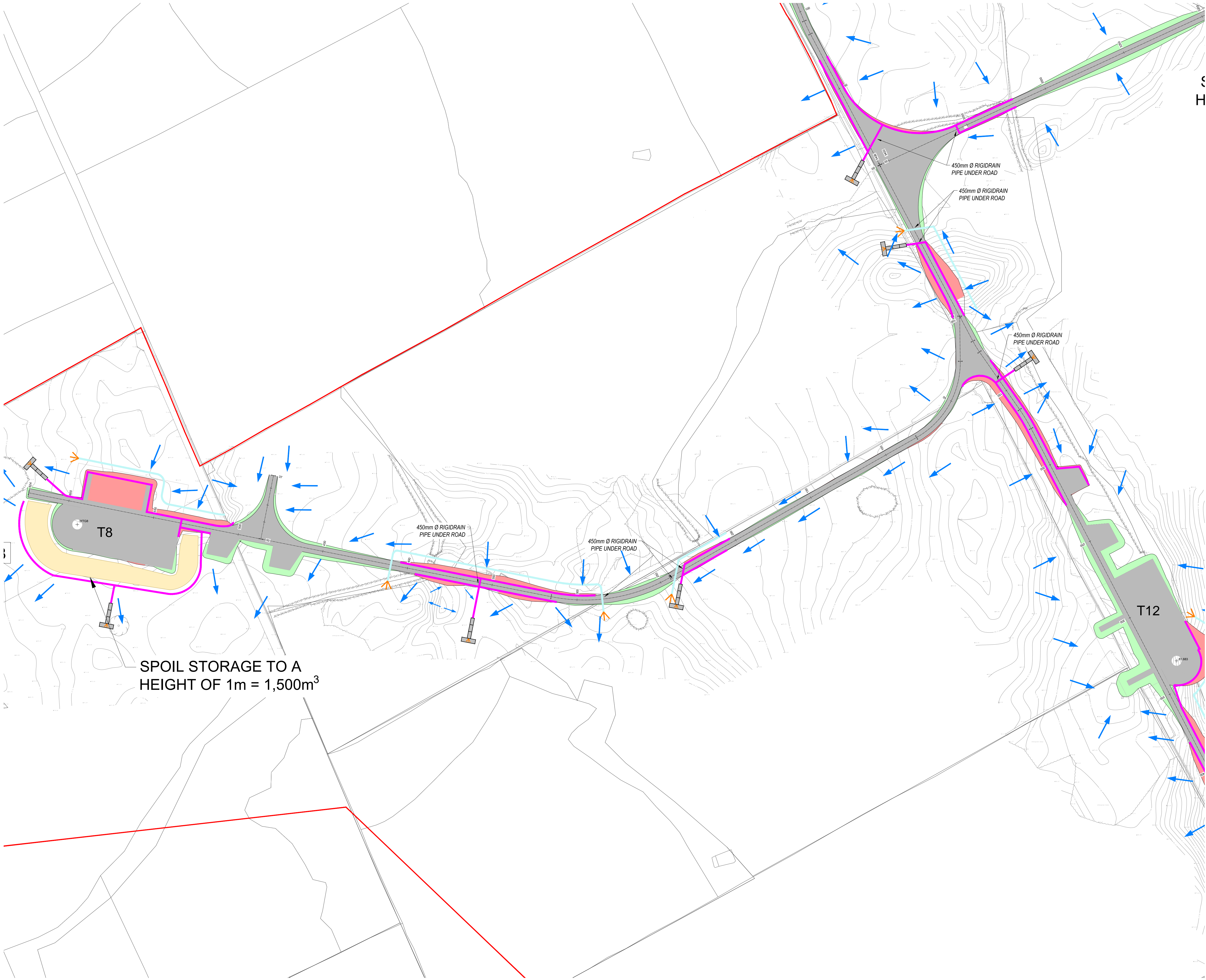
Malachy Walsh and Partners
Engineering and Environmental Consultants

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

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|---|--------------------|--------------|
| DRAWN: PK | CHECKED: PB | APPROVED: BS |
| DATE: 23/03/23 | SCALE @ A1: 1:1000 | |
| PROJECT NUMBER: 21337 | DRAWING STATUS: S2 | |
| DRAWING NUMBER: 21337-MWP-00-00-DR-C-2122 | | REV: P04 |



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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)

| | | | | |
|-----|----------|------------------------|----|-----|
| P03 | 28/03/23 | ISSUED FOR INFORMATION | JD | BS |
| P02 | 07/06/22 | ISSUED FOR INFORMATION | PK | BS |
| P01 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT:

SEVEN HILLS WIND FARM

TITLE:

PROPOSED DRAINAGE LAYOUT
SHEET 23

CLIENT:

enērgia
Switched on

Malachy Walsh and Partners
Engineering and Environmental Consultants

Cork | Tralee | London | Limerick

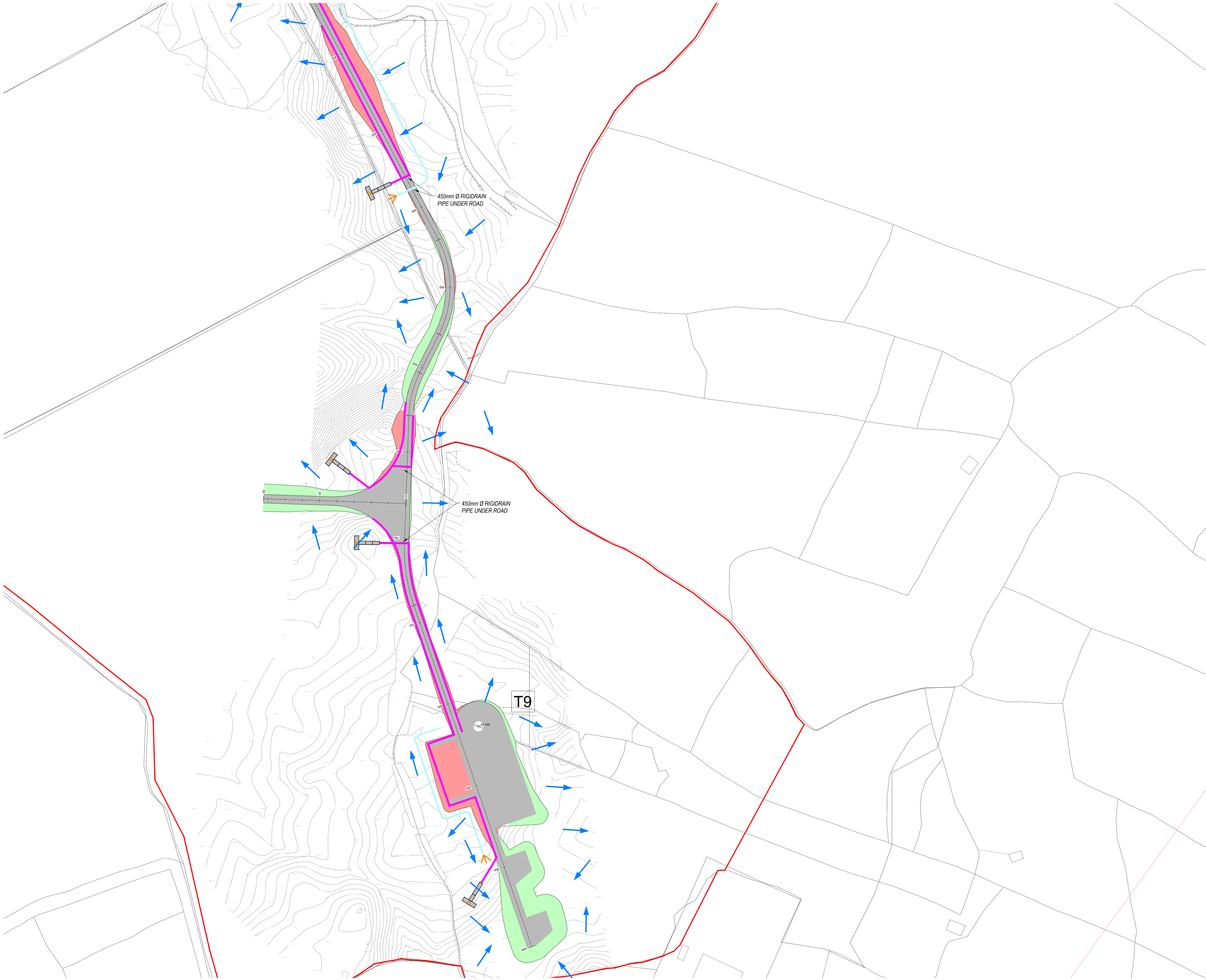
The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick
V94 R578

Tel: +353 (0) 61 490164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

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| DRAWN: PK | CHECKED: PB | APPROVED: BS |
| DATE: 23/03/23 | SCALE @ A1: 1:1000 | |
| PROJECT NUMBER: 21337 | DRAWING STATUS: S2 | |

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

REV: P03



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 - EXTENT OF ROAD SIDE BERM
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 - FILL EMBANKMENT
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 - STONE BERM
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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)

| | | | | |
|-----|----------|------------------------|----|-----|
| PK3 | 28/03/23 | ISSUED FOR INFORMATION | JD | BS |
| PK2 | 01/06/22 | ISSUED FOR INFORMATION | PK | BS |
| PK1 | 20/01/22 | ISSUED FOR INFORMATION | PK | BS |
| REV | DATE | DESCRIPTION | BY | APP |

PROJECT: SEVEN HILLS WIND FARM

TITLE: PROPOSED DRAINAGE LAYOUT
SHEET 24

CLIENT: **enērgia**
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 490164
Fax: +353 (0) 61 441125
E-mail: limerick@mwp.ie
Web: www.mwp.ie

DRAWN: PK CHECKED: PB APPROVED: BS

DATE: 23/03/23 SCALE @ A1: 1:1000

PROJECT NUMBER: 21337 DRAWING STATUS: S2

DRAWING NUMBER: 21337-MWP-00-00-DR-C-2124 REV: P03