

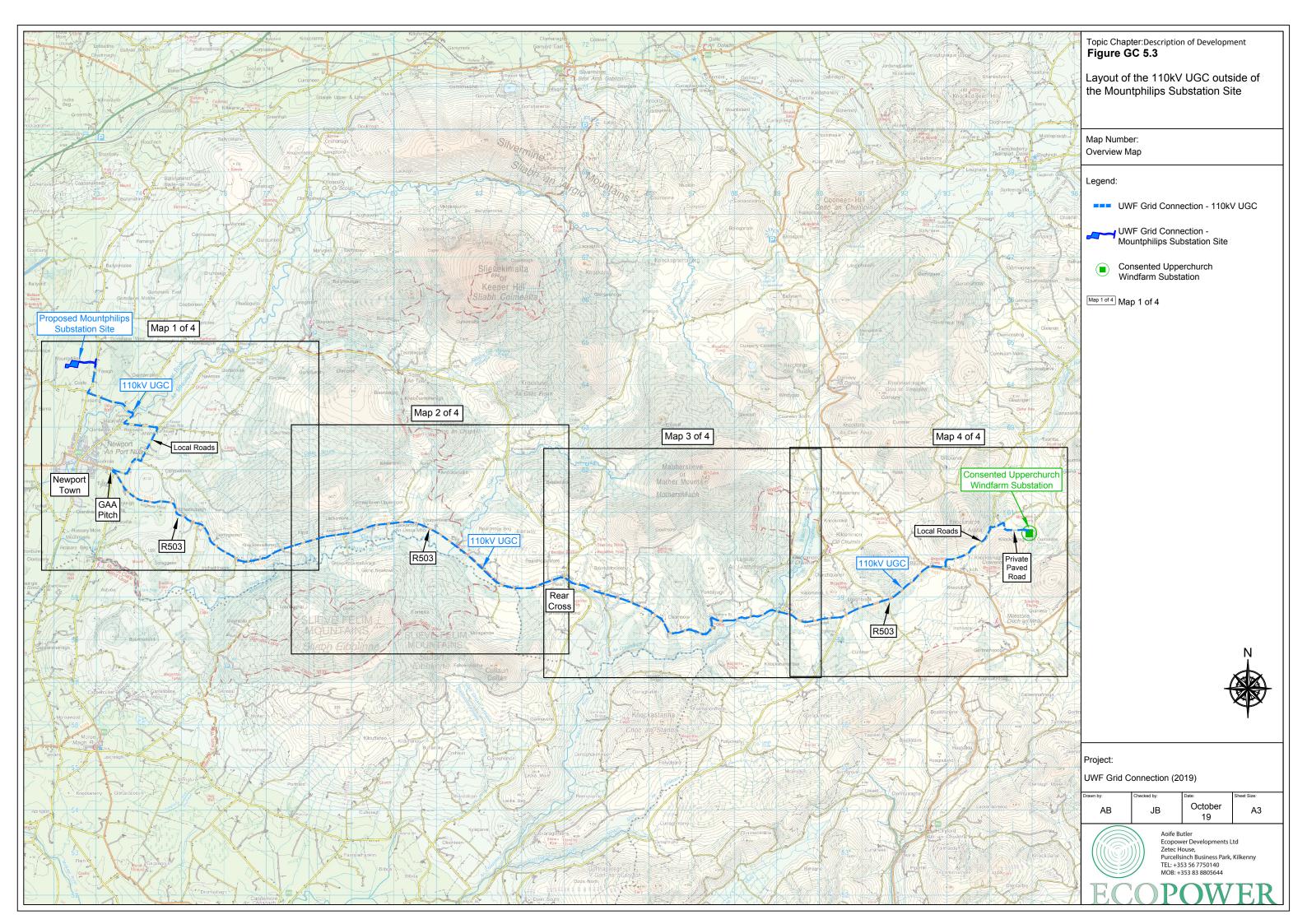
Topic Chapter: Description of Development

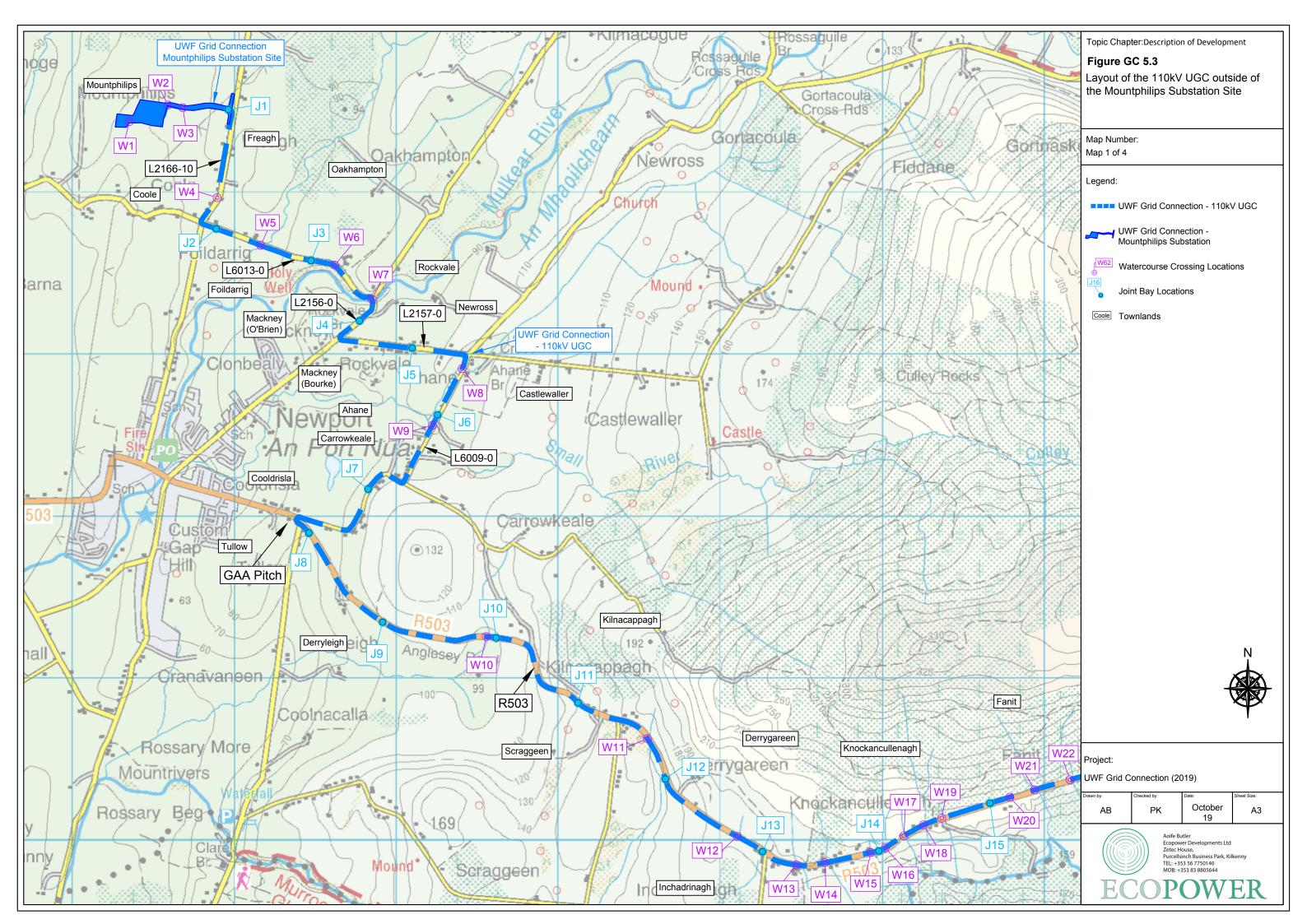
## Figure GC 5.2

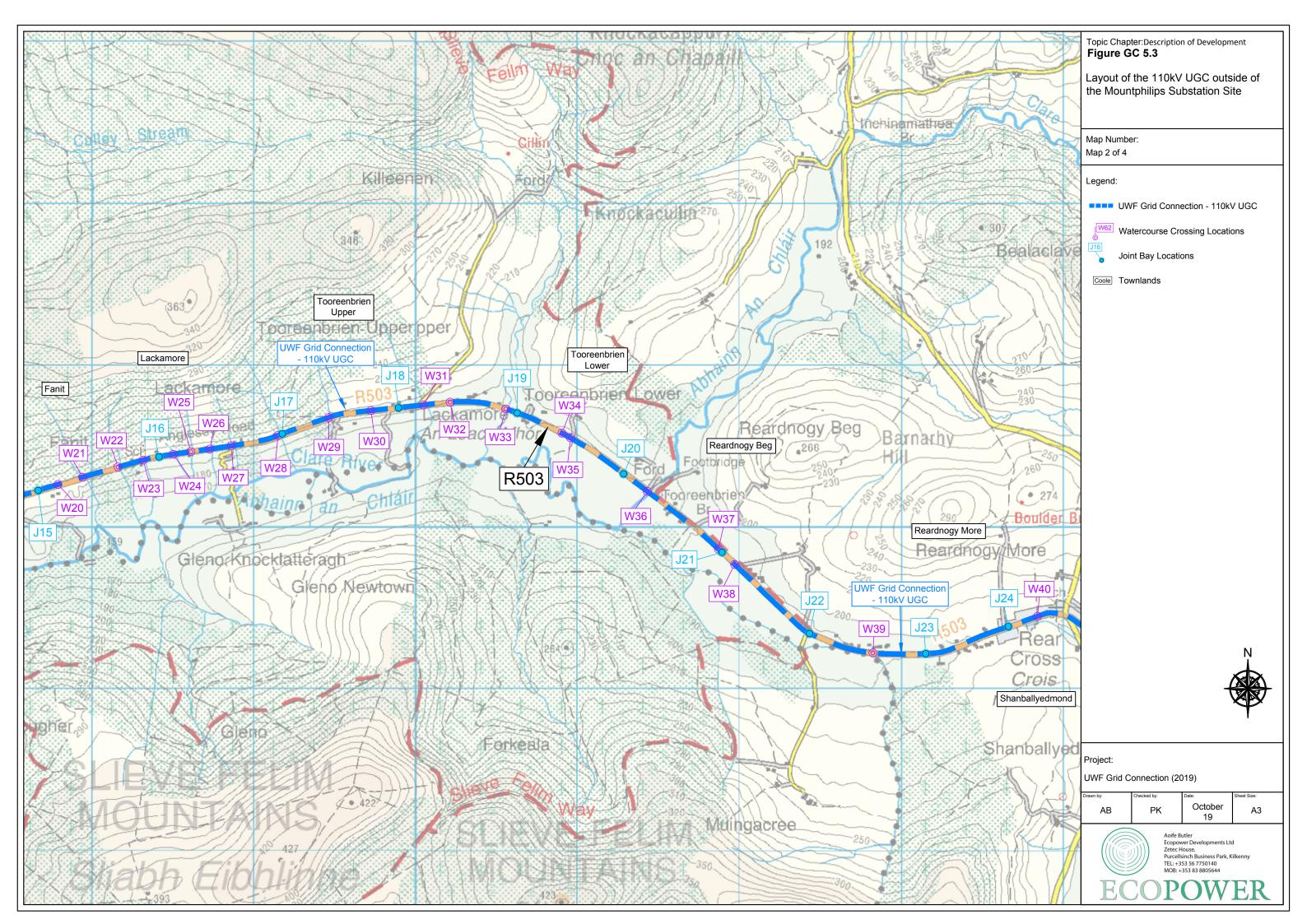
Layout of the Mountphilips Substation Site on Aerial Photography Mapping

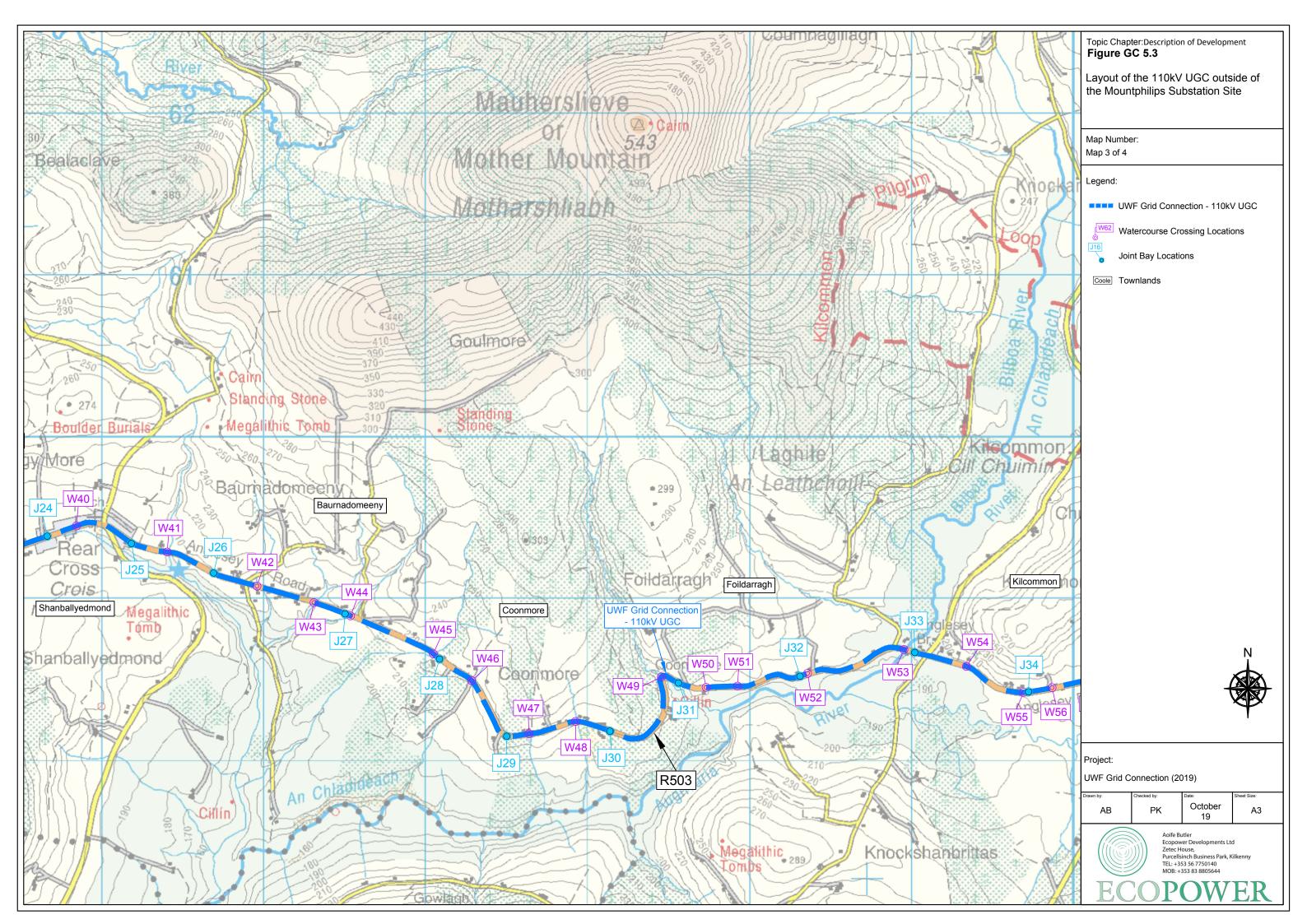
Map Number: Map 1 of 1

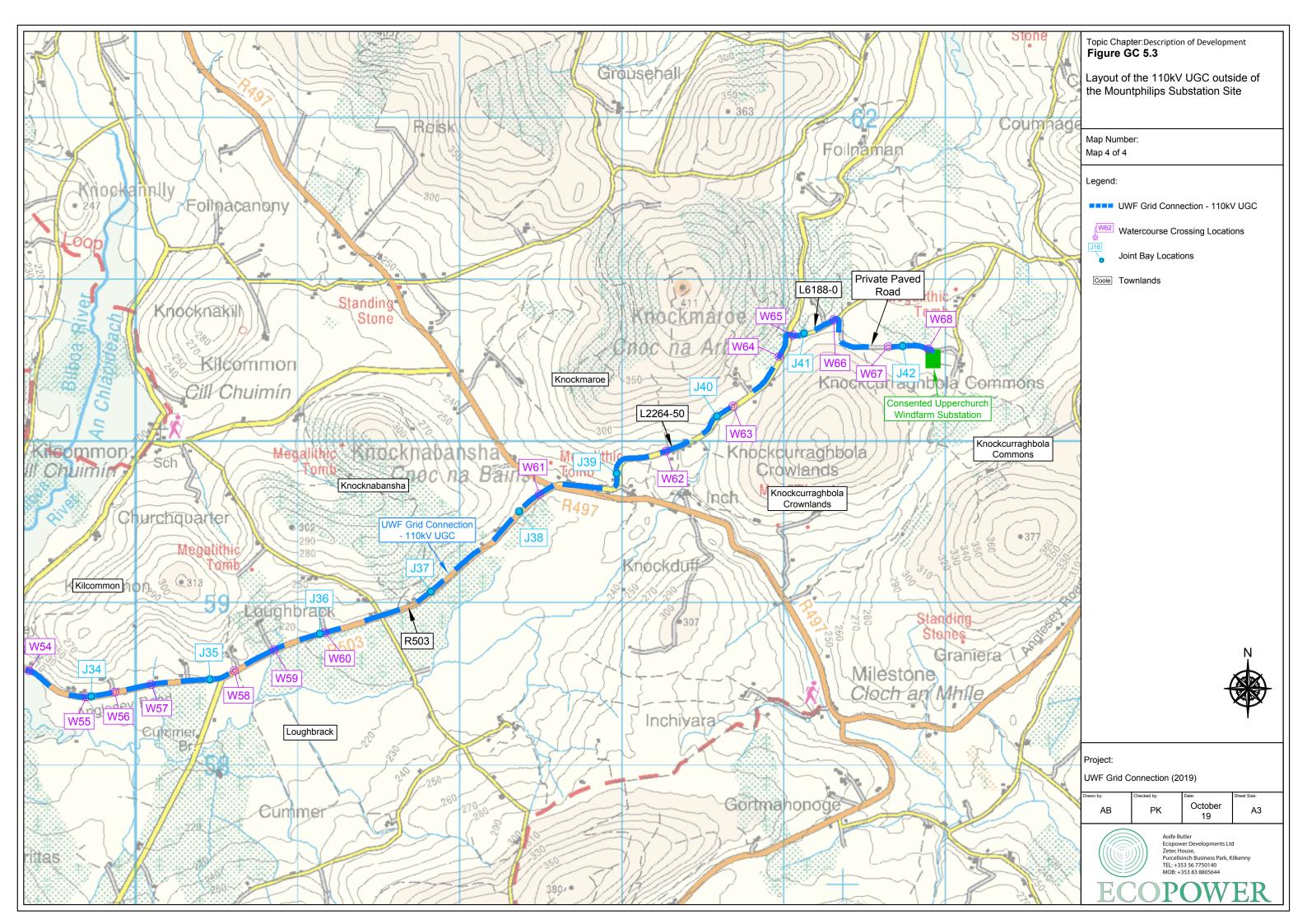
| Legend:   |  |                               |                                 |                   |
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|   |  | PROP                          | <u>OSED</u>                     |                   |
|   | UW   | F Grid Conne                  | ction - 110kV                   | UGC               |
|   | 110  | kV Substation                 | Compound                        |                   |
| J16   | Joir   | t Bay Location                | n                               |                   |
|   | New Permanent Access Road  |                               |                                 |                   |
| -   |  | manent Berms<br>gerow planted |                                 |                   |
| -   | Nen  |                               | le from the Ki<br>HL into Mount |                   |
| 82<br>23  | End  | Masts                         |                                 |                   |
|   | End  | Masts tempo                   | rary crane har                  | dstands           |
| W3  | Wat  | ercourse Cros                 | ssings                          |                   |
|   | Cor  | crete Washou                  | ıt                              |                   |
| _   | Dirt   | y water drain                 |                                 |                   |
|   | Set  | lement Pond                   |                                 |                   |
| -   | Clea   | an water drain                |                                 |                   |
| -   | Hedgerow/tree removal at site<br>entrance within visual splay and<br>replanted behind sightlines |                               |                                 |                   |
|   | Permanent hedge/tree removal at watercourse crossings W2 and W3                                  |                               |                                 |                   |
| 一一  | New Field Gate   |                               |                                 |                   |
|   | Temporary Construction Compound  |                               |                                 |                   |
| _   | Temporary Access Road  |                               |                                 |                   |
| -   | Mountphilips Substation Site<br>Construction Works Boundary                                      |                               |                                 |                   |
| EXISTING  |  |                               |                                 |                   |
| =   | Exis   | ting Killonan t               | o Nenagh 110                    | KV OHL            |
| L-2166-10   | Pub  | lic Road Ident                | ification Num                   | <sup>ber</sup> N  |
| _   | Pub  | lic Road                      |                                 | Å                 |
| Mountphilips Townlands  |  |                               |                                 |                   |
| Project:  | Project <sup>.</sup>   |                               |                                 |                   |
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| UWF Grid Connection (2019)  |  |                               |                                 |                   |
| Drawn by:<br>AB   |  | Checked by:<br>PK             | Date:<br>October<br>19          | Sheet Size:<br>A3 |
| Aoife Butler<br>Ecopower Developments Ltd<br>Zetec House,<br>Purcellsinch Business Park, Kilkenny<br>TEL: +353 66 7750140<br>MOB: +353 83 8805644 |  |                               |                                 |                   |
| ECOPOWER  |  |                               |                                 |                   |

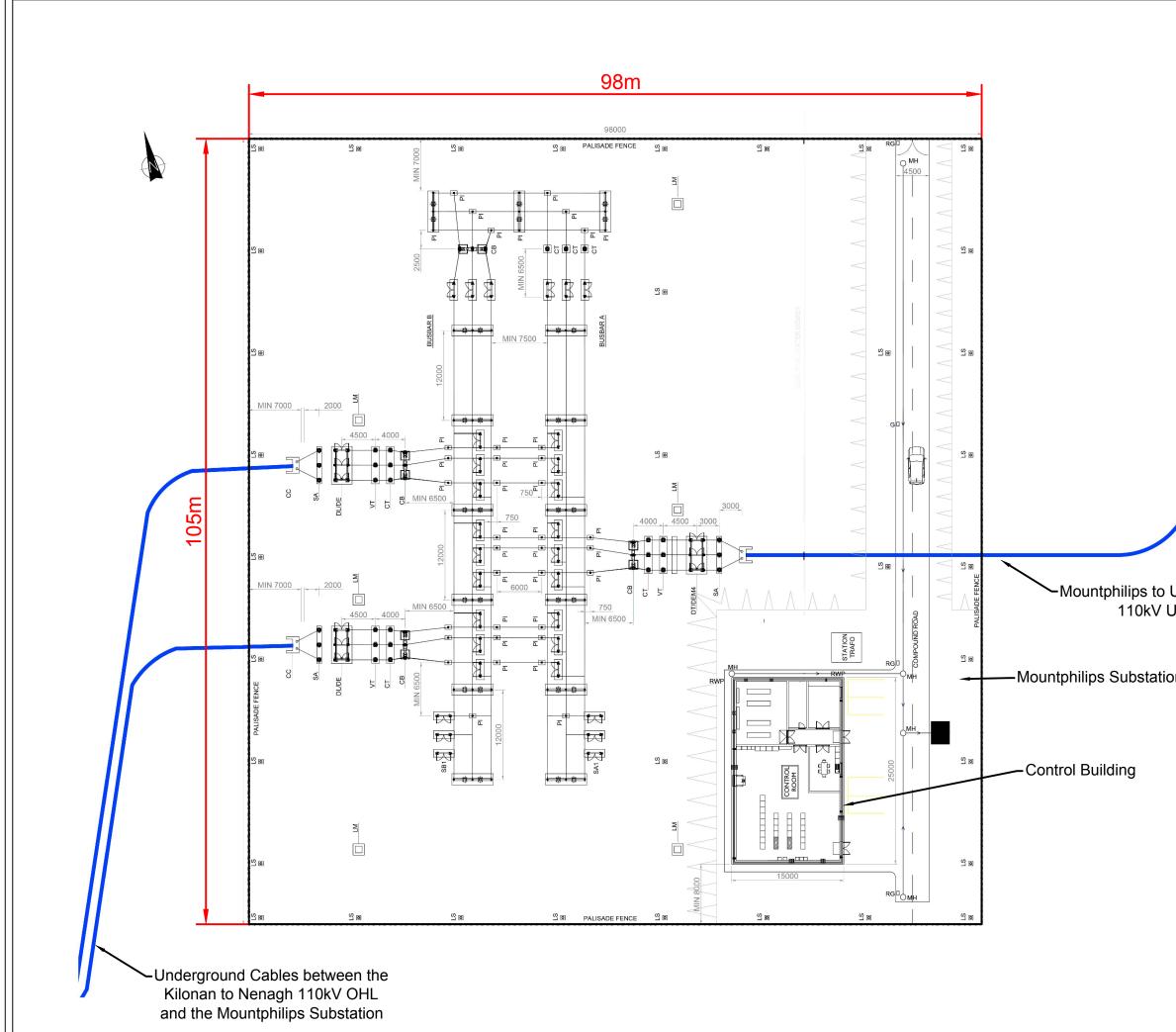




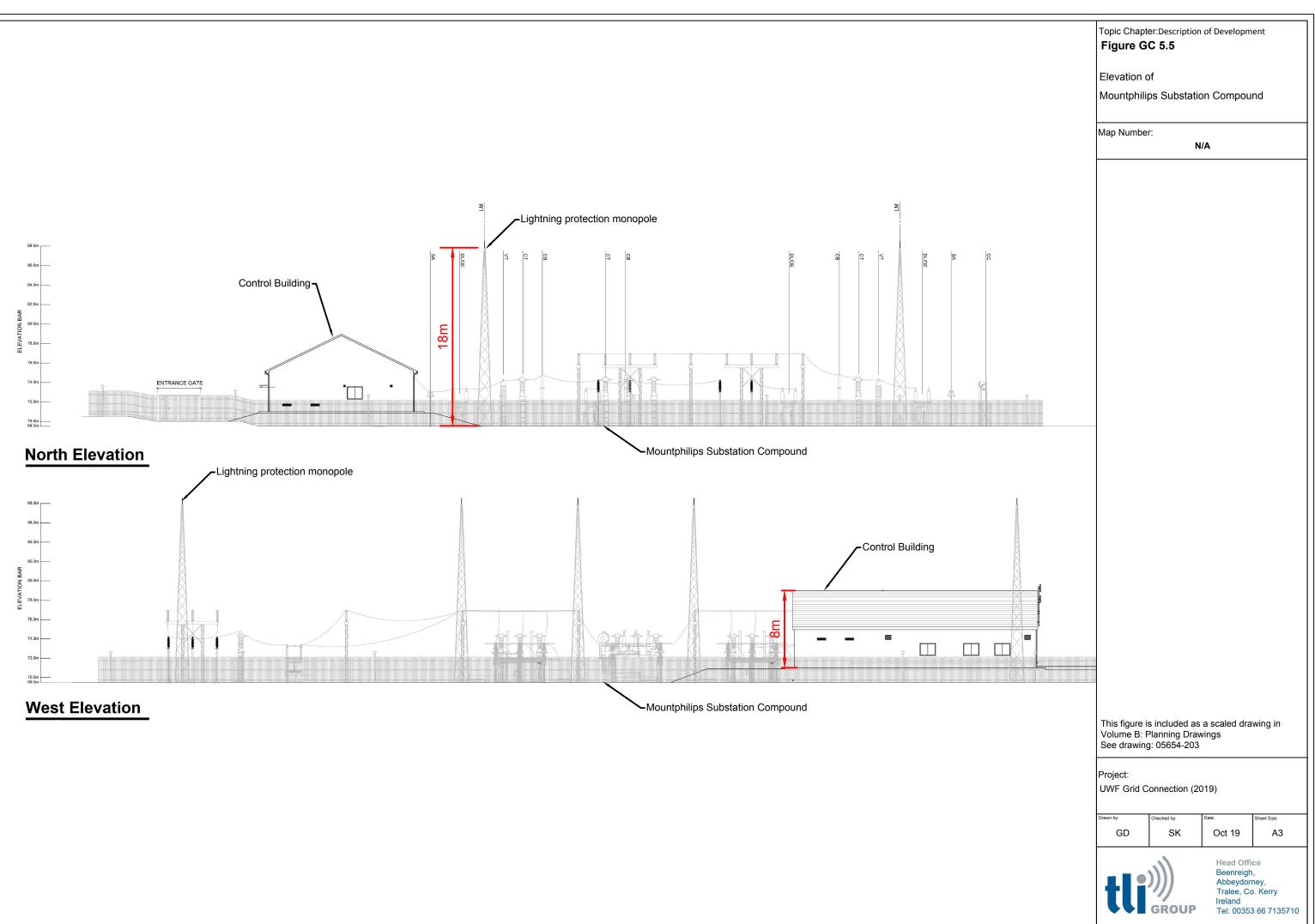


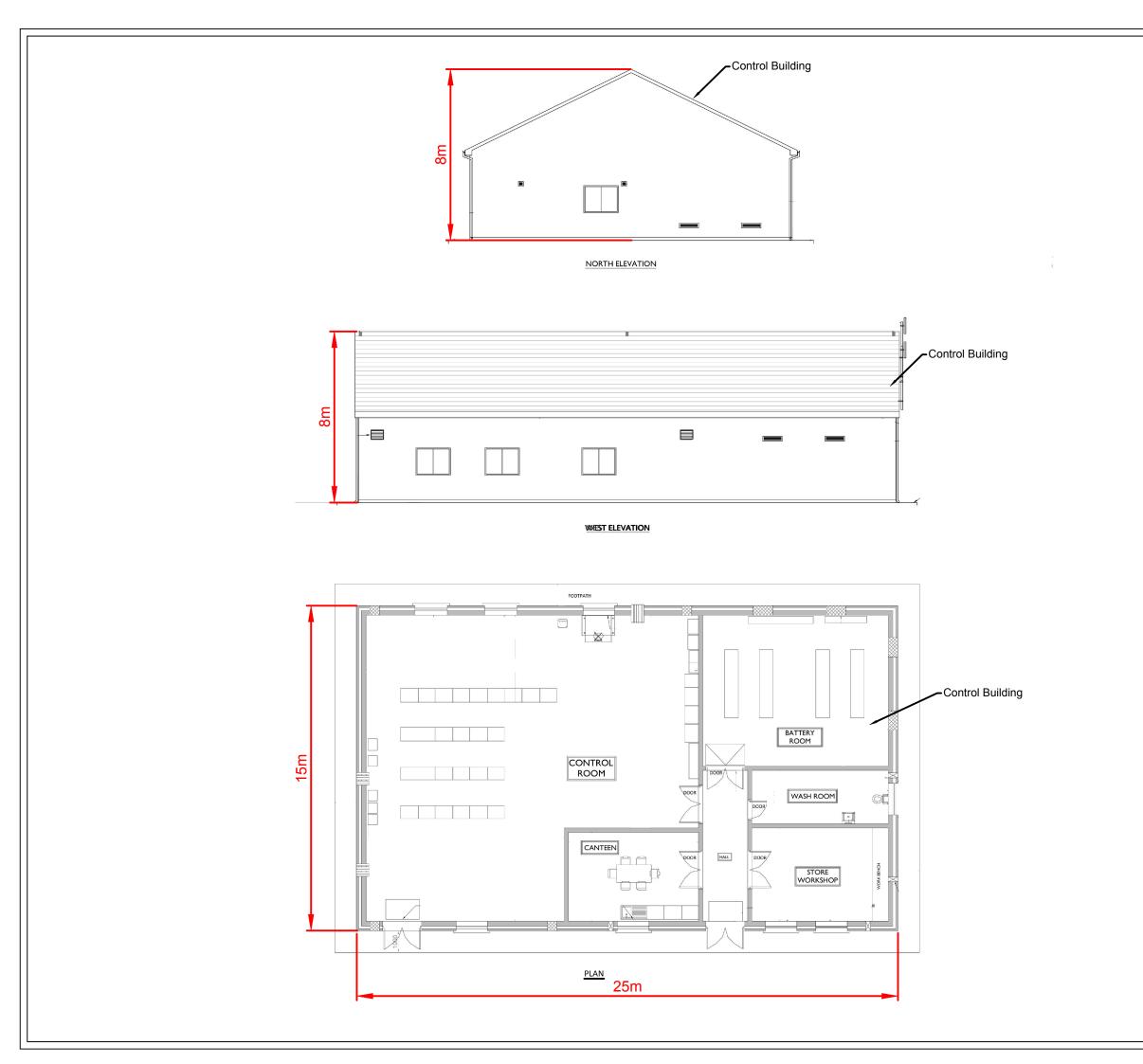






|             | Topic Chapter:Description of Development<br>Figure GC 5.4  |
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|             | Plan of Mountphilips Substation Compound   |
|             | Man Number:  |
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|             | This figure is included as a scaled drawing in<br>Volume B: Planning Drawings                      |
|             | See drawing: 05654-202   |
|             | Project  |
|             | Project:<br>UWF Grid Connection (2019)   |
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|             | GD SK Oct 19 A3  |
|             | Head Office  |
|             | Beenreigh,   |
|             | Abbeydorney,<br>Tralee, Co. Kerry  |
|             | Head Office<br>Beenreigh,<br>Abbeydorney,<br>Tralee, Co. Kerry<br>Ireland<br>Tel: 00353 66 7135710 |
|             |  |





| Topic Chapter:Description of Development |
|--|
| Figure GC 5.6                            |

# Plan and Elevation of the Control Building at Mountphilips Substation

Map Number:

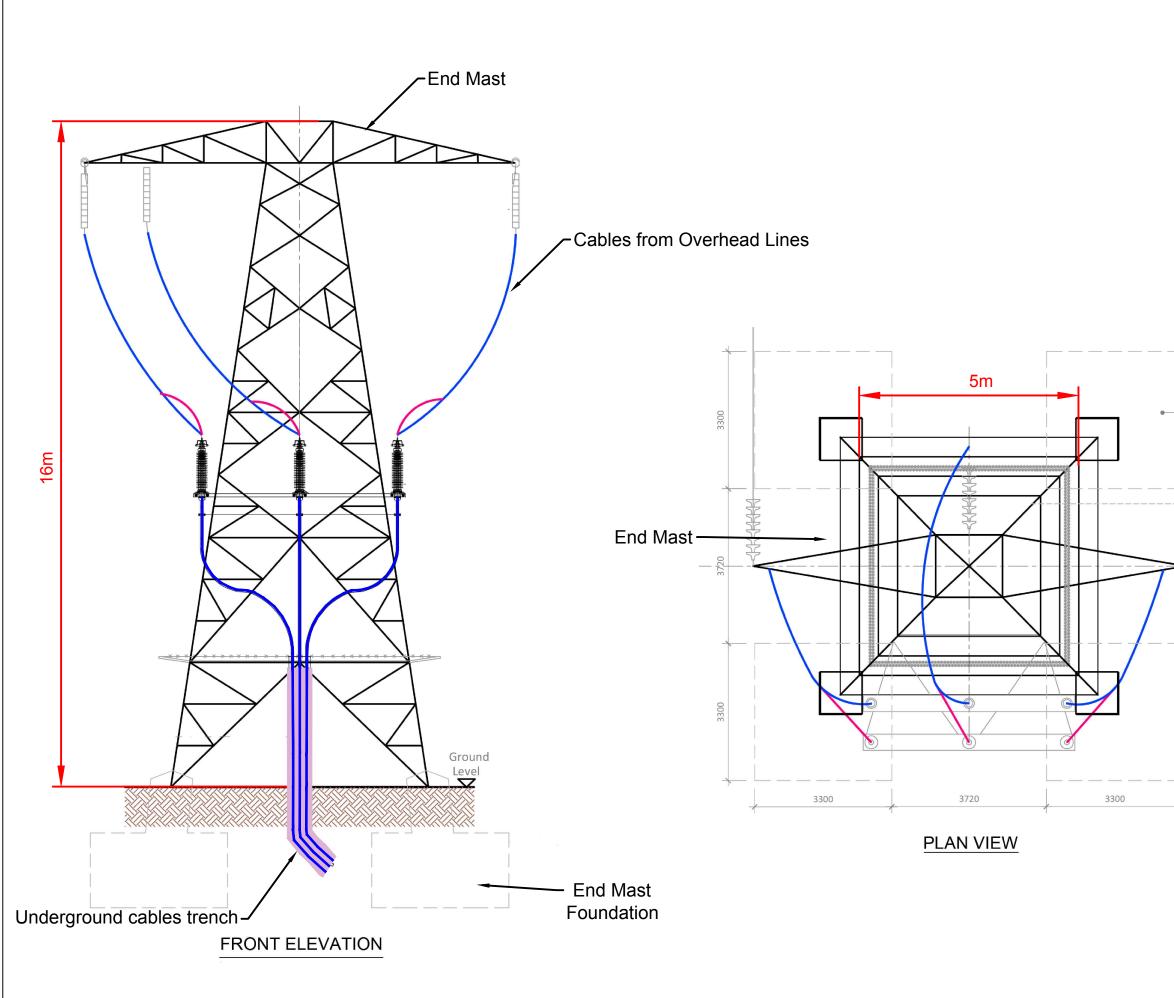
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This figure is included as a scaled drawing in Volume B: Planning Drawings See drawing: 05654-204 & 05654-205

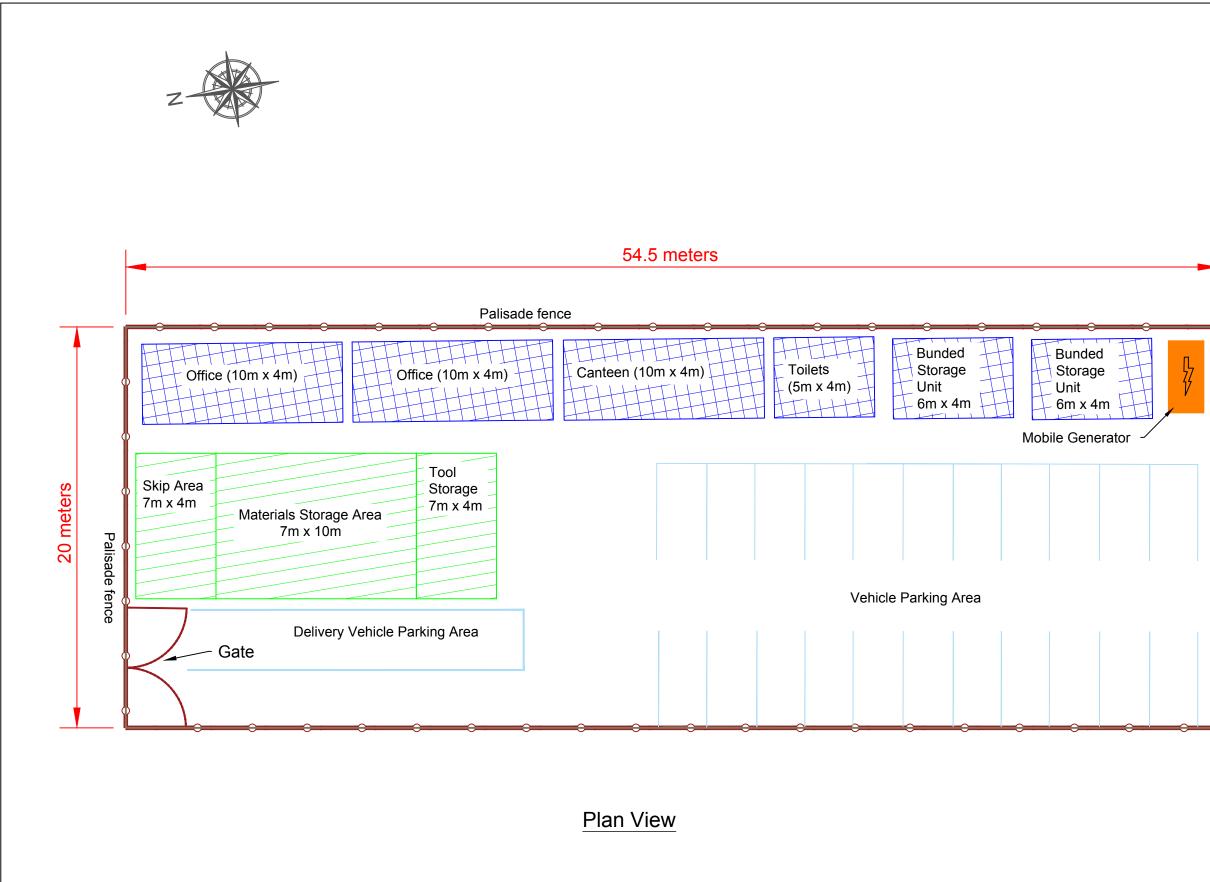
Project:

UWF Grid Connection (2019)

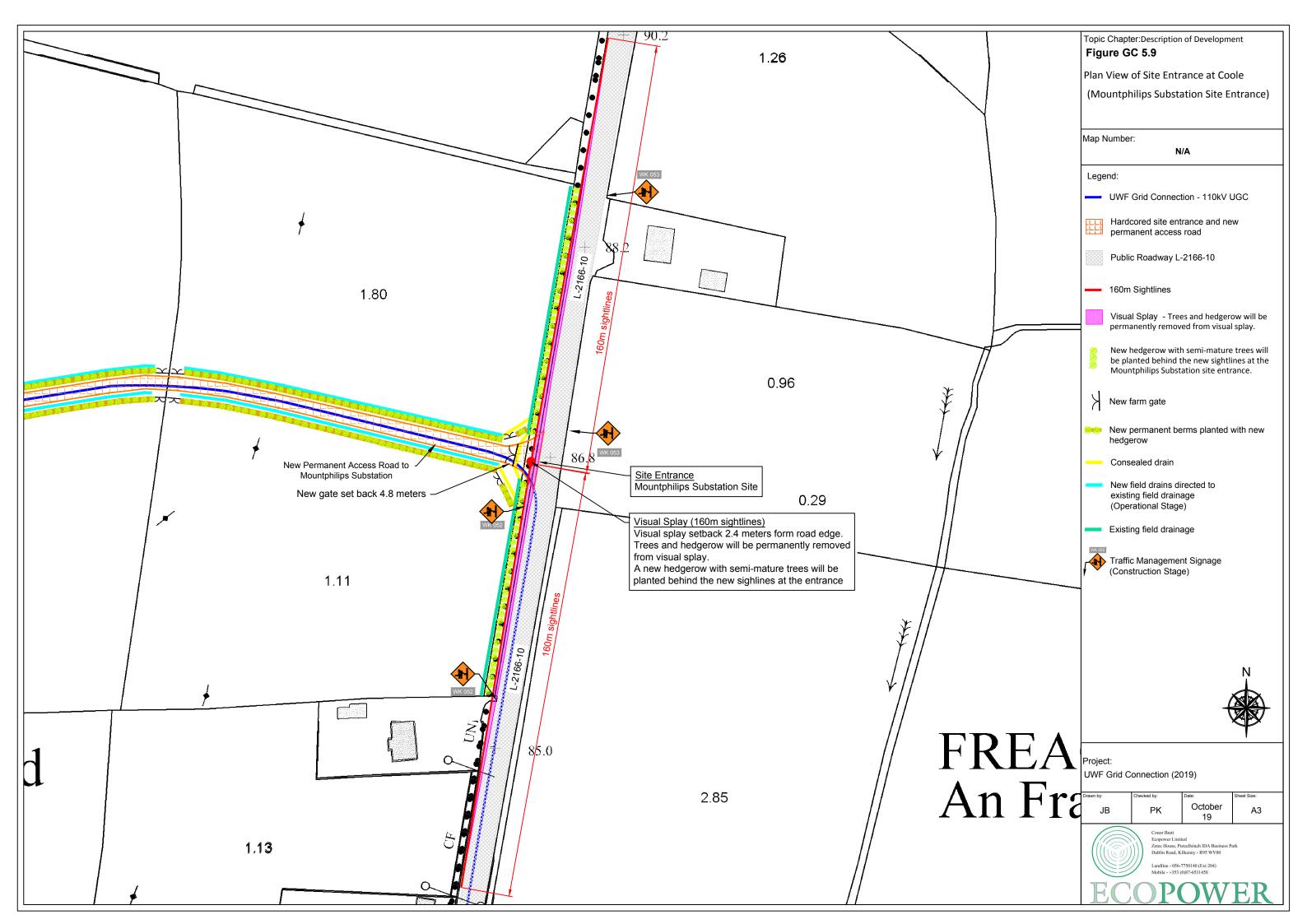
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| tli       | ))))<br>GROUP | Head Offi<br>Beenreigh<br>Abbeydorr<br>Tralee, Co<br>Ireland<br>Tel: 00353 | ,<br>ney,   |

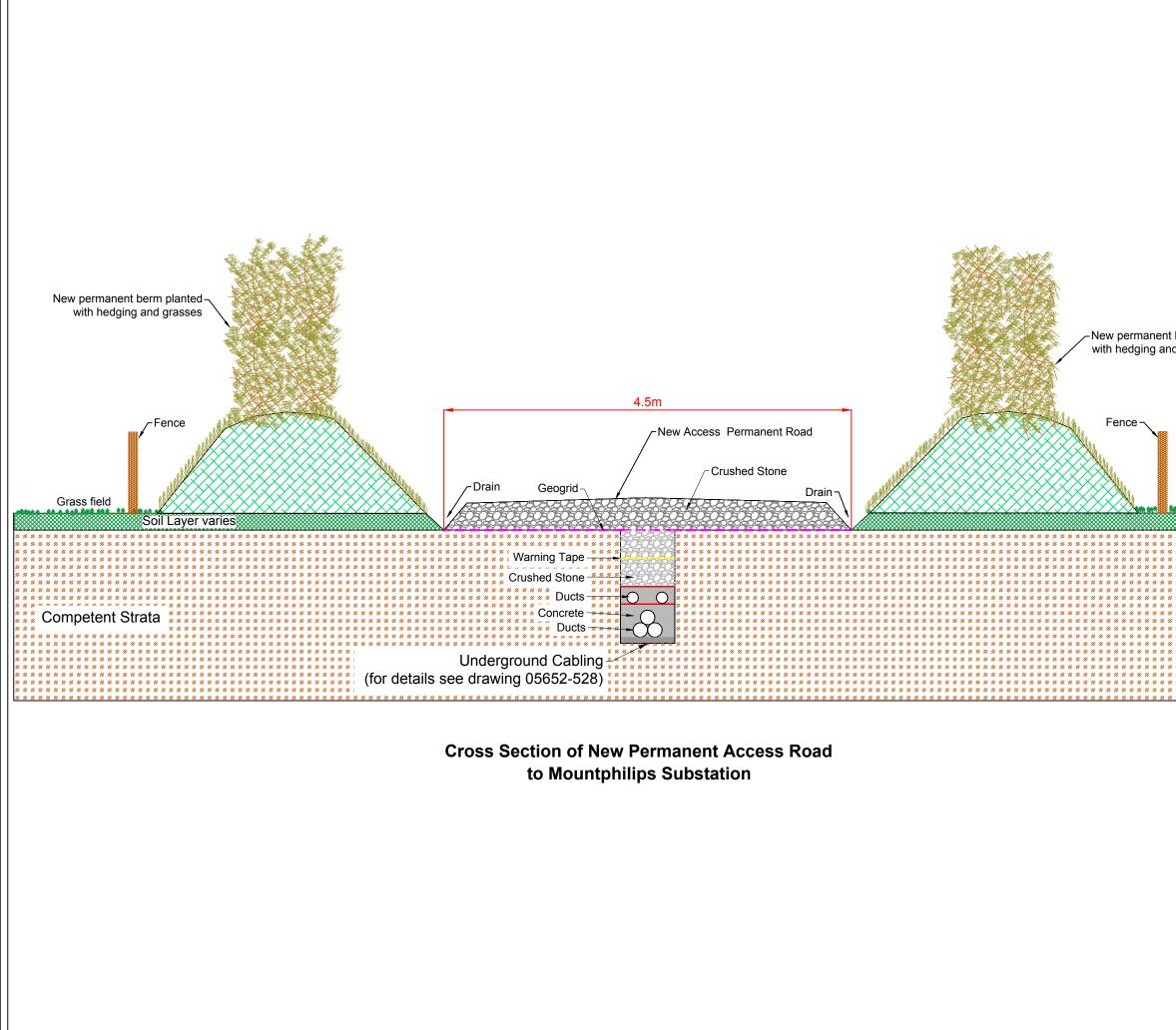


|         | Topic Chapter:Description of Development<br>Figure GC 5.7   |
|---------|---|
|         | Plan and Elevation of the End Masts at  |
|         | Mountphilips Substation   |
|         | Mag Marshar   |
|         | Map Number:<br>N/A  |
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|         | Head Office<br>Beenreigh,<br>Abbeydorney,<br>Tralee, Co. Kerry<br>Ireland<br>Tel: 00353 66 7135710      |
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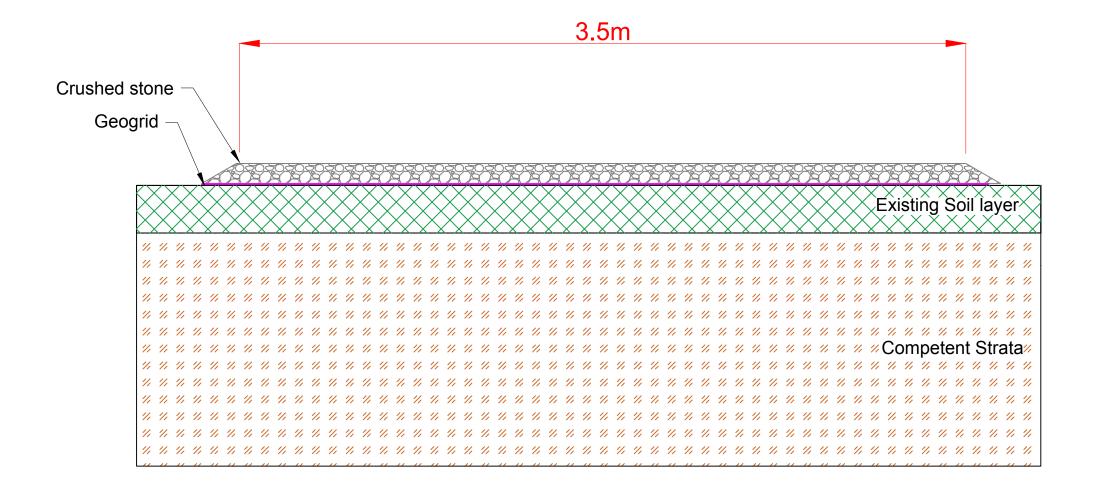


|                | Topic Chapter:Description of Development<br>Figure GC 5.8   |  |  |  |
|----------------|---|--|--|--|
|                | Plan View of the Temporary Construction<br>Compound at Mountphilips Substation  |  |  |  |
|                | Map Number:<br><b>N/A</b>   |  |  |  |
|                | Notes:  |  |  |  |
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|                | CB PK October A3  |  |  |  |
|                | Conor Brett<br>Ecopower Limited<br>Zetec House, Purcellsinch IDA Business Park<br>Dublin Road, Kilkenny - R95 WV80<br>Landline - 056-7750140 (Ext 204)<br>Mobile - #353 (0)87-6531458 |  |  |  |
|                | ECOPOWER  |  |  |  |



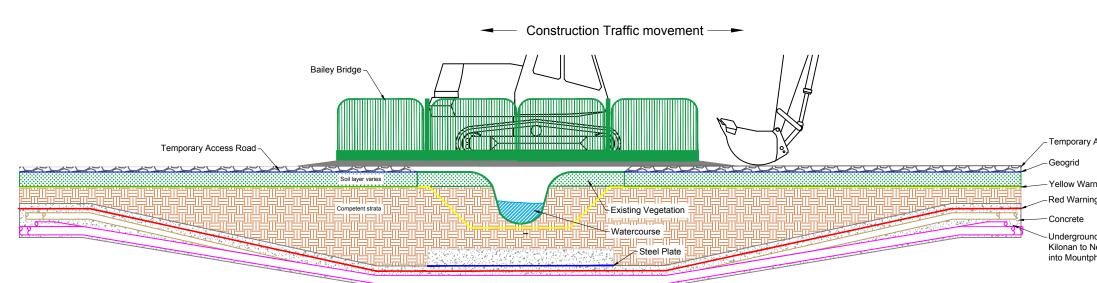


|                                       | Topic Chapte | er:Description<br>C 5.10            | of Developm                             | ent         |
|---------------------------------------|--------------|-------------------------------------|---|-------------|
|                                       | Cross Sect   | ion of New                          | Permanent                               | Access      |
|                                       | Road at Mo   | ountphilips \$                      | Substation                              |             |
|                                       |              |                                     |   |             |
|                                       | Map Number   | :                                   |   |             |
|                                       |              | N                                   | /A                                      |             |
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|                                       | JB           | PK                                  | Oct 19                                  | A3          |
|                                       |              |                                     | rcellsinch IDA Business I               | Park        |
|                                       |              | Dublin Road, Ki<br>Landline - 056-7 | ilkenny - R95 WV80<br>7750140 (Ext 204) |             |
|                                       |              | Mobile - +353 (0                    | 0)87-6531458                            |             |
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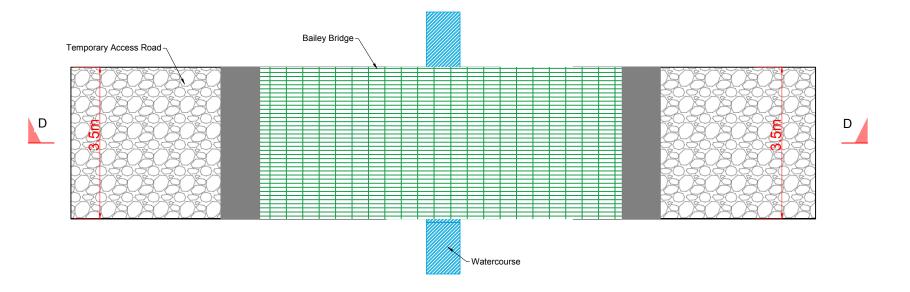


Cross Section of Temporary Access Road

| at Mountph  | ilips Subst  | ation |             |
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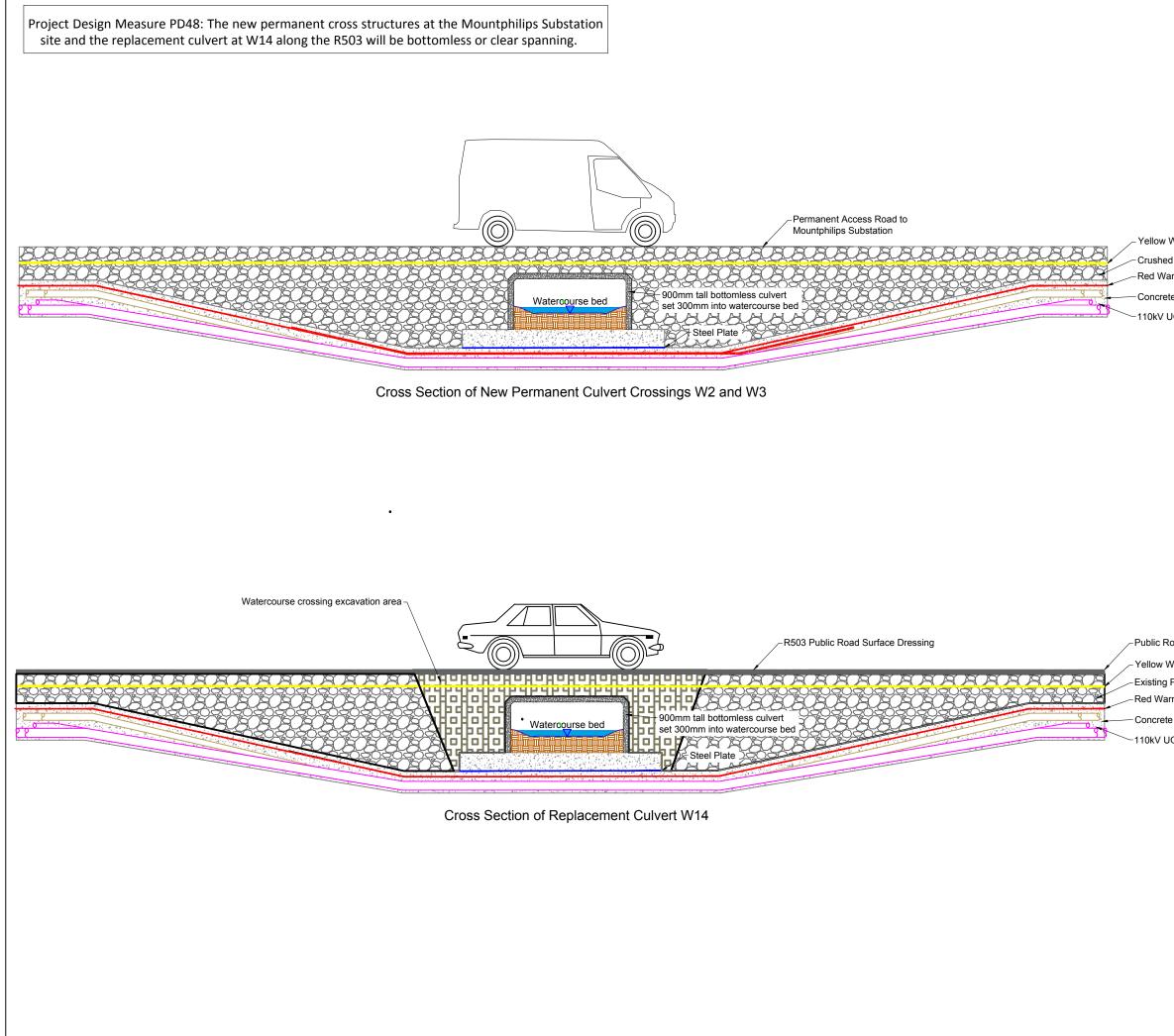


Cross Section D - D

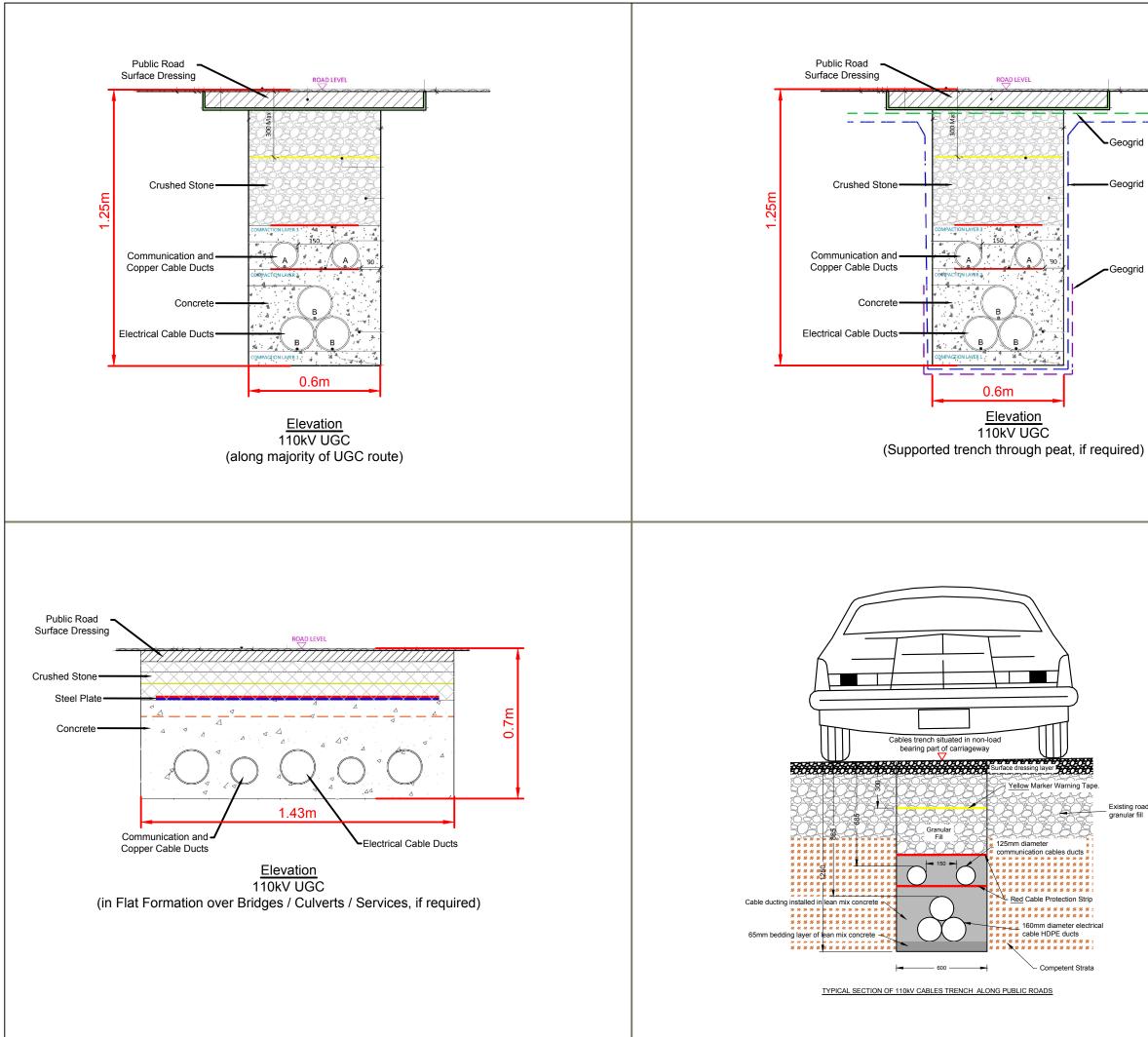


Plan View

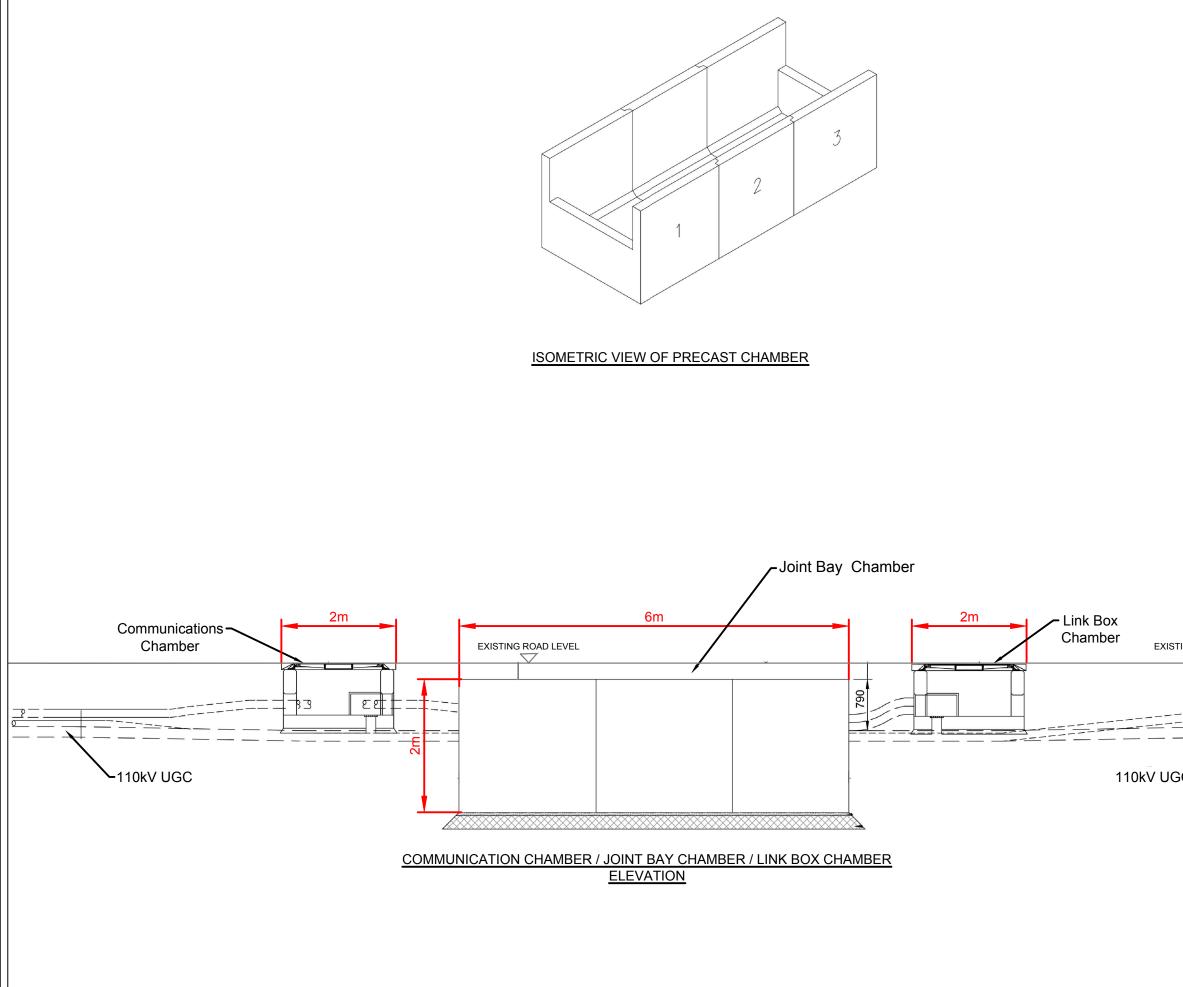
|  | Topic Chapt<br>Figure G | er:Description<br>C 5.12                                   | of Developm  | ent               |
|--|-------------------------|--|--|-------------------|
|  | Cross Sect              | tions of Ten   | nporary Ba   | iley Bridge       |
|  | Crossing a              | it Mountph   | ilips Substa   | ation Site        |
|  |                         | elevant to w<br>Mountphilip                                |  |                   |
|  | the Kilona              | und cables s<br>an to Nenag<br>ips Substati                | h 110kV Ol   |                   |
|  | road used constructi    | y crossing a<br>l to access l<br>on. Once co<br>the tempor | End Masts on<br>Instruction  | during<br>is      |
| Access Road  | temporary               |  |  | moved and         |
| ning Tape<br>g Tape  |                         |  |  |                   |
| d Cables from the<br>lenagh 110kV OHL<br>hilips Substation |                         |  |  |                   |
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|  |                         | Dublin Road, K   | rcellsinch IDA Business I<br>ilkenny - R95 WV80<br>7750140 (Ext 204) | Park              |
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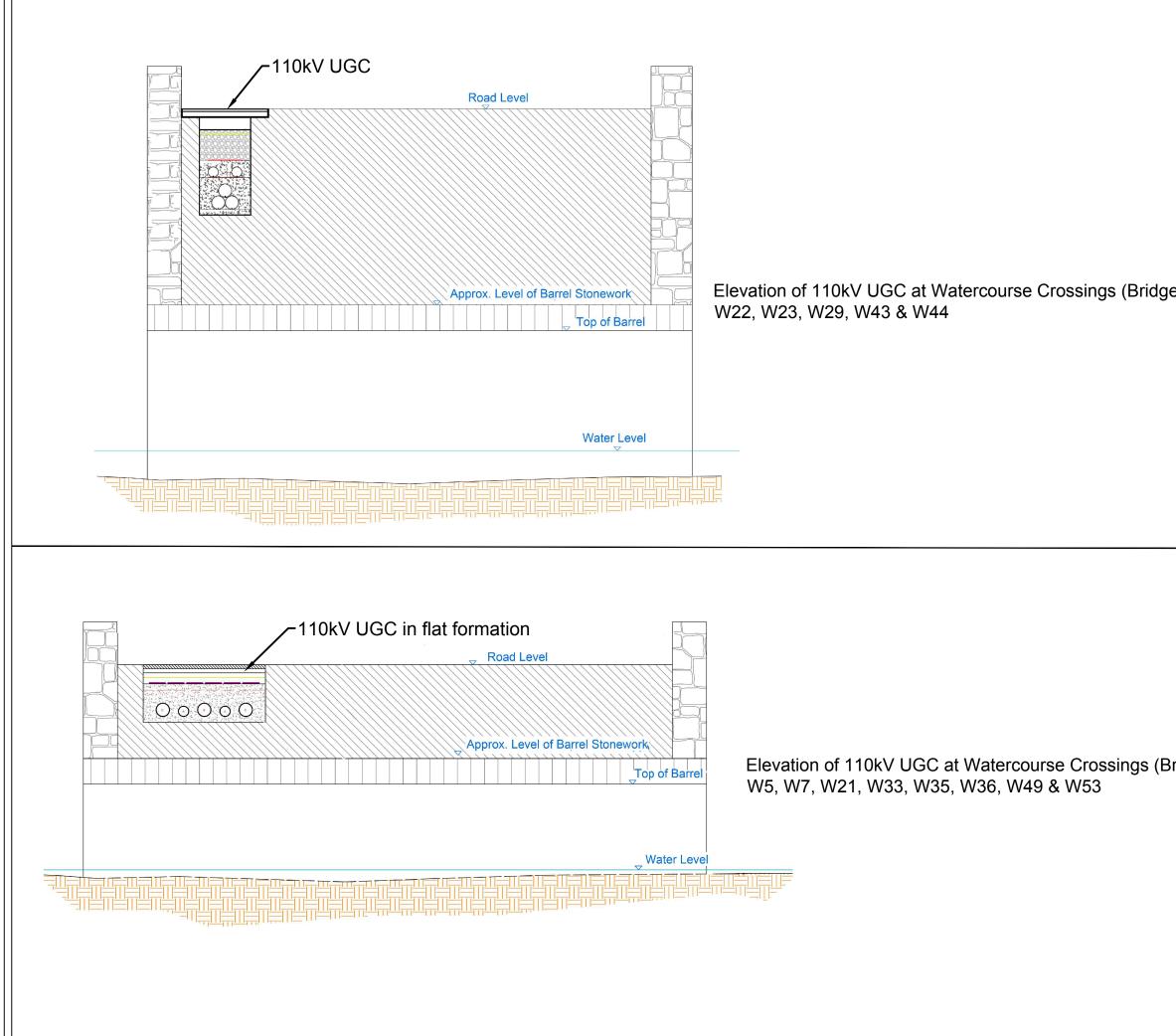
|                          | Topic Chapter:Description of Development<br>Figure GC 5.13  |
|--------------------------|---|
|                          | Cross Sections of New Permanent Culverts  |
|                          | W2 and W3 at Mountphilips Substation  |
|                          | Site and Replacement Culvert W14 along  |
|                          | the 110kV UGC   |
|                          | Note:   |
|                          | Drawing relevant to new permanent culvert<br>crossings W2 and W3 along the new<br>permanent access road to Mountphilips<br>Substation and culvert replacement W14<br>along the public road. |
| Warning Tape<br>d Stone  | At least 900mm tall bottomless culvert to be used, set 300mm into stream bed.   |
| arning Tape<br>te<br>JGC | Road surface at W2 and W3 will be<br>finished in crushed stone, road surface at<br>W14 will be finished with public road<br>surface dressing  |
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| oad Surface Dressing     |   |
| Varning Tape             |   |
| Public Road Build Up     |   |
| rning Tape<br>e          |   |
| IGC                      |   |
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|                          | Project:  |
|                          | UWF Grid Connection (2019)  |
|                          | Drawn by: Checked by: Date: Sheet Size:   |
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|                          | Landune + 0.007/10/100 (EX 200)<br>Mobile - +353 (0)87-6531458  |
|                          | ECOPOWER  |



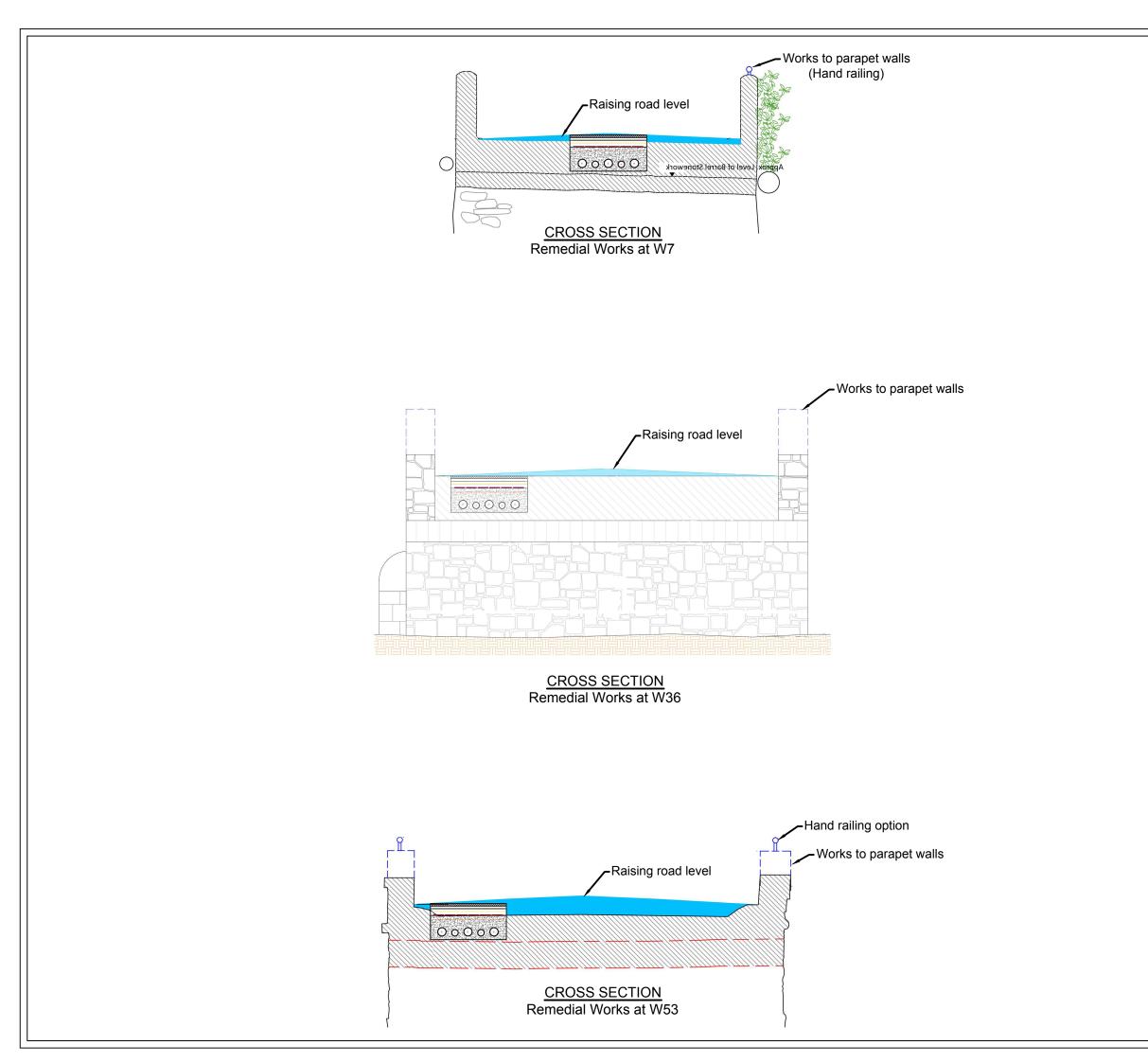
|   | Topic Chapter:Description of Development<br>Figure GC 5.14  |
|---|---|
|   | Cross Sections of 110kV UGC   |
|   | in the Public Road  |
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|   | Map Number:<br><b>N/A</b>   |
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|   | This figure is included as a scaled drawing in  |
| I | Volume B: Planning Drawings<br>See drawings: 05652-529, 05652-530 & 05652-549                                     |
|   |   |
|   | Project:<br>UWF Grid Connection (2019)  |
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|   | Tralee, Co. Kerry<br>Ireland<br>Tel: 00353 66 7135710   |
|   | <b>GROUP</b> Tel: 00353 66 7135710  |



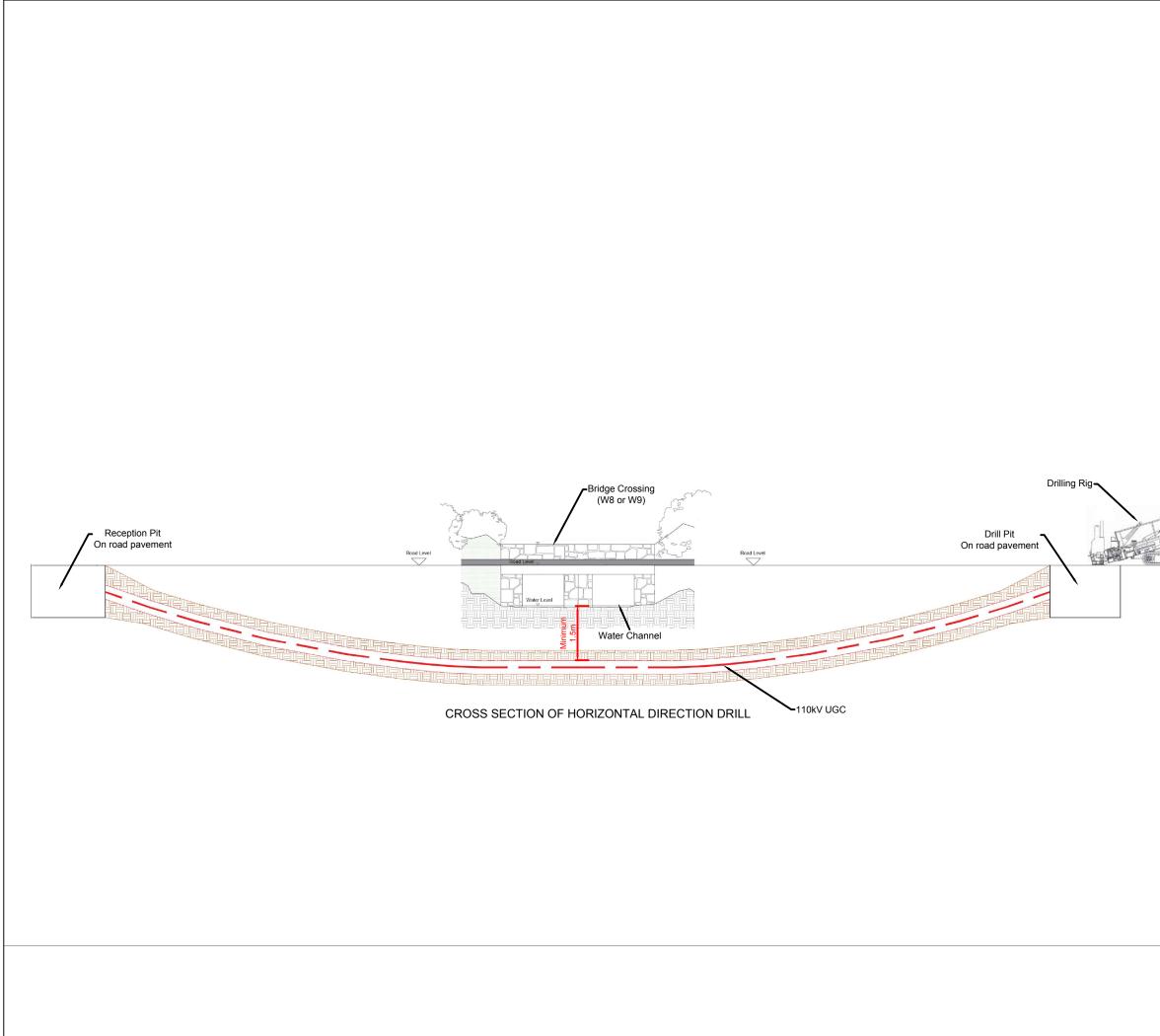
|                 | Topic Chapter:Description of Development<br><b>Figure GC 5.15</b><br>Views of 110kV UGC Joint Bay       |
|-----------------|---|
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|                 | Map Number:<br>N/A  |
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| FING ROAD LEVEL |   |
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| sc-             | This figure is included as a scaled drawing in<br>Volume B: Planning Drawings<br>See drawing: 05652-531 |
|                 | Project:<br>UWF Grid Connection (2019)  |
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|                 | Head Office<br>Beenreigh,<br>Abbeydorney,<br>Tralee, Co. Kerry<br>Ireland<br>Tel: 00353 66 7135710      |



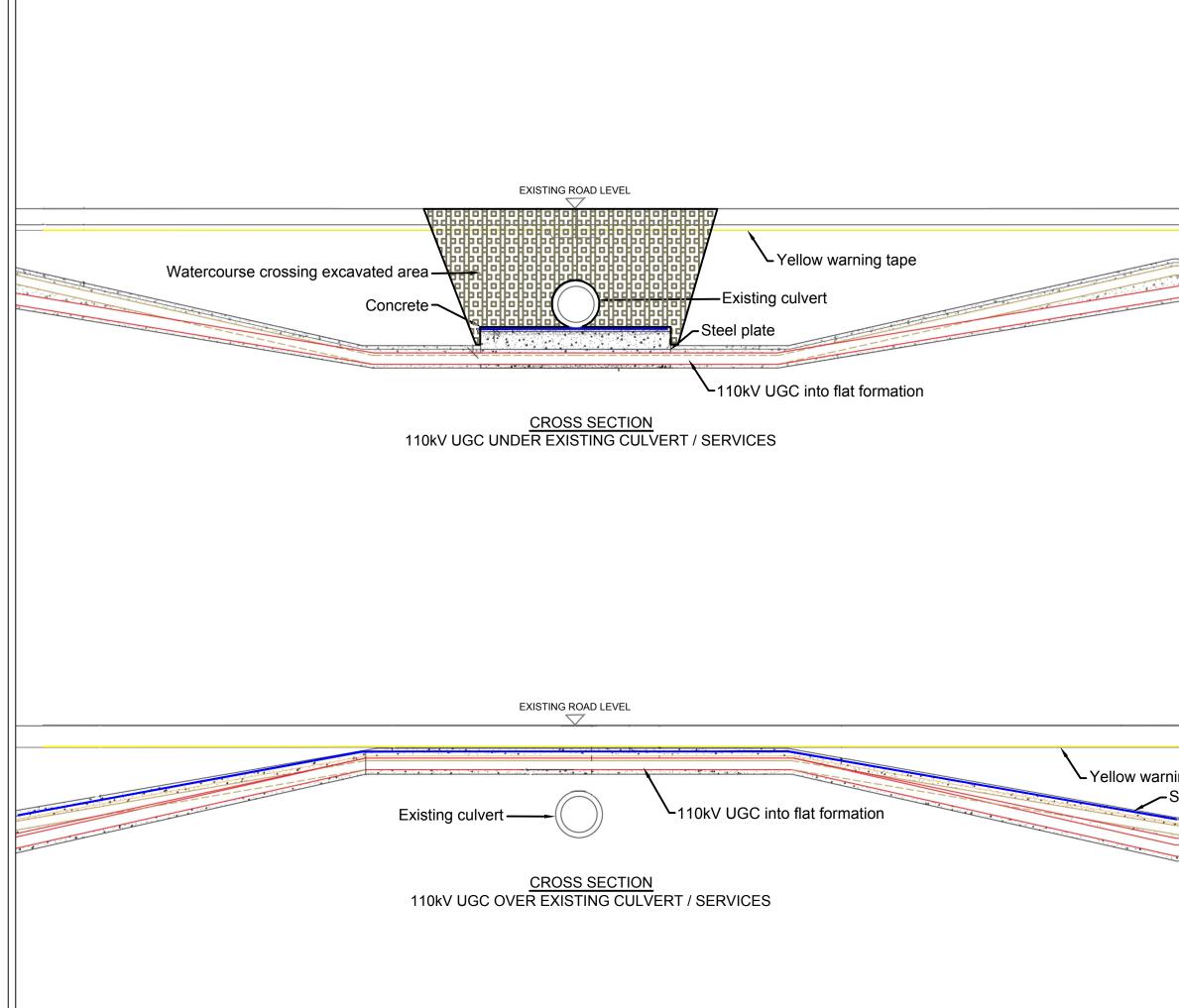
|         | Topic Chapter:Description<br>Figure GC 5.16  | of Developm                       | ent          |  |
|---------|--|-----------------------------------|--------------|--|
|         | Cross Sections of 110kV UGC  |                                   |              |  |
|         | at Bridge Crossing<br>Map Number:  |                                   |              |  |
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|         | This figure is included as a scaled drawing in<br>Volume B: Planning Drawings<br>See drawings: 05652-519 - 05652-527<br>05652-535 - 05652-539<br>05652-544 - 05652-547 |                                   |              |  |
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|         | Project:<br>UWF Grid Connection (2019)   |                                   |              |  |
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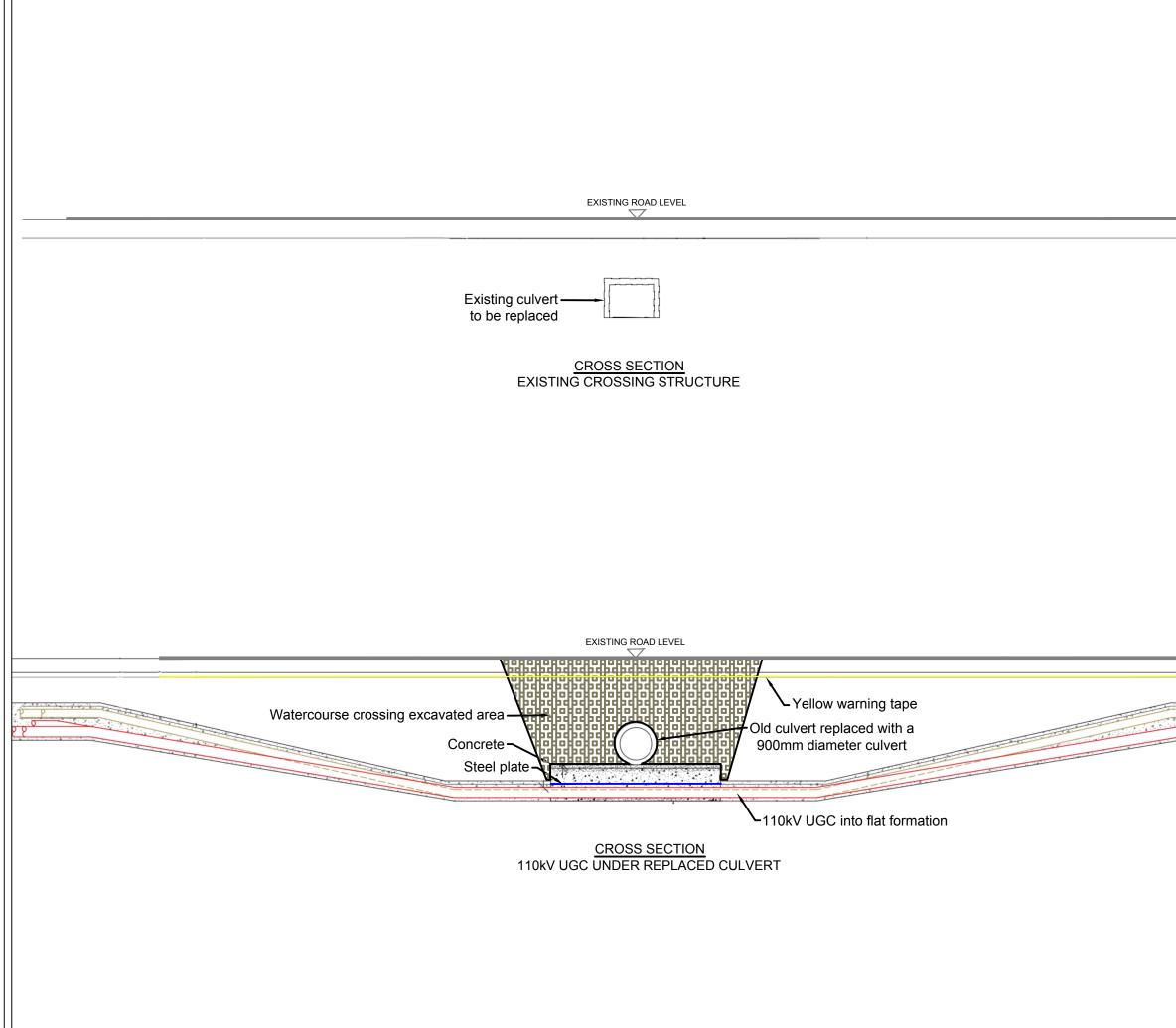
|                          | Works to                      |                                |             |
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| at w/, w                 | 36 and W53                    | 5                              |             |
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|                          |                               |                                |             |
| This figure<br>Volume B: | is included a<br>Planning Dra | s a scaled dra<br>wings        | awing in    |
| See drawir               | 0                             | 52-545 & 0568<br>52-536 - 0565 |             |
| Drojaat:                 |                               |                                |             |
| Project:<br>UWF Grid (   | Connection (2                 | 019)                           |             |
|                          | Checked by:                   | Date:                          | Sheet Size: |
| Drawn by:                | SK                            | Sep 19                         | A3          |
| Drawn by:<br>GD          |                               |                                |             |
|                          |                               | Head Offi<br>Beenreigh         |             |



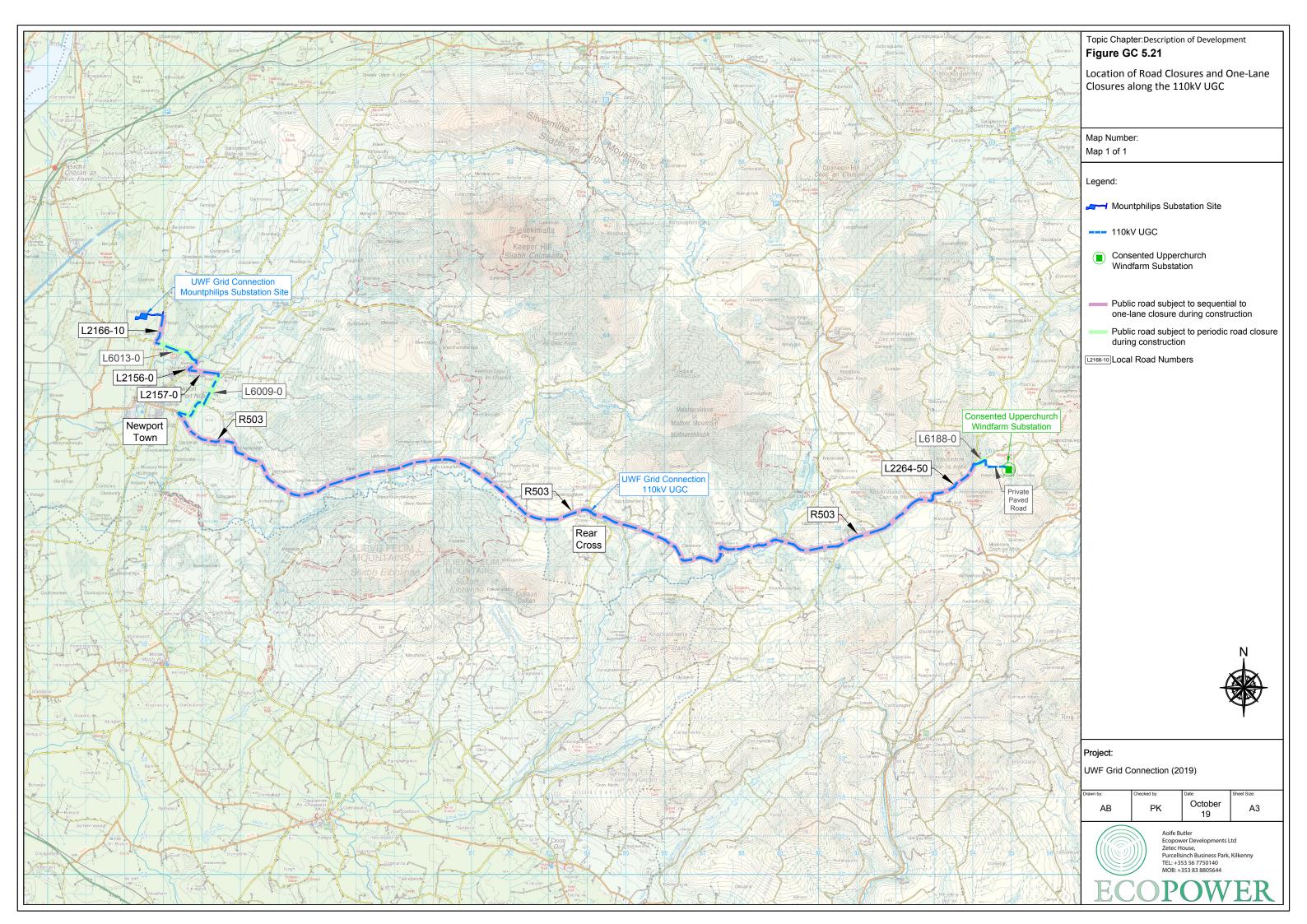
| Topic Chapter:Description of Development<br>Figure GC 5.18   |  |  |
|--|--|--|
| Horizontal Directional Drilling<br>at W8 and W9  |  |  |
| Map Number:<br>N/A   |  |  |
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| This figure is included as a scaled drawing in<br>Volume B: Planning Drawings<br>See drawings: 05652-546 & 05652-547 |  |  |
| Project:<br>UWF Grid Connection (2019)   |  |  |
| <br>Drawn by: Checked by: Date: Sheet Size: GD SK Oct 19 A3  |  |  |
| Head Office<br>Beenreigh,<br>Abbeydorney,<br>Tralee, Co. Kerry<br>Ireland<br>Tel: 00353 66 7135710                   |  |  |

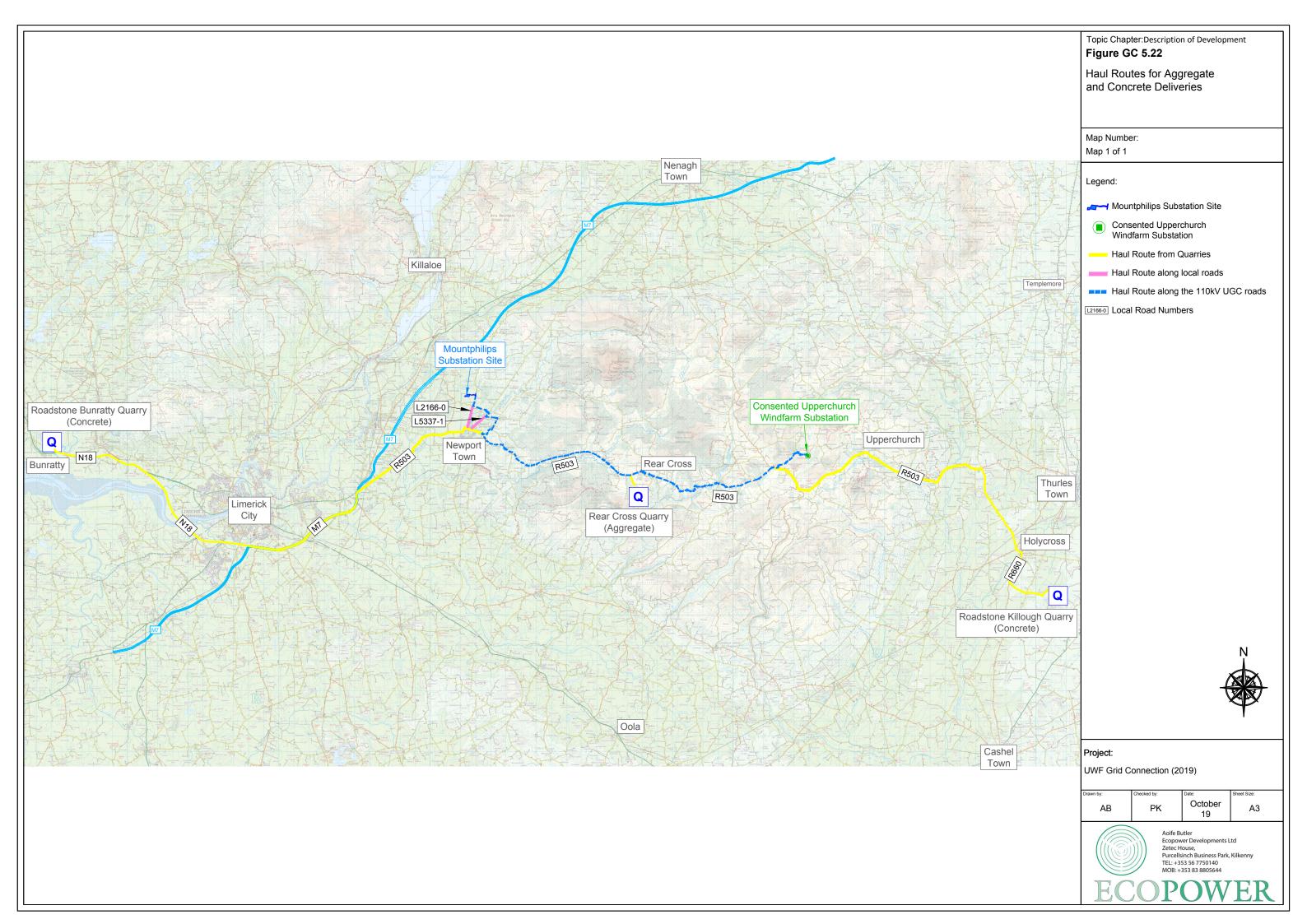


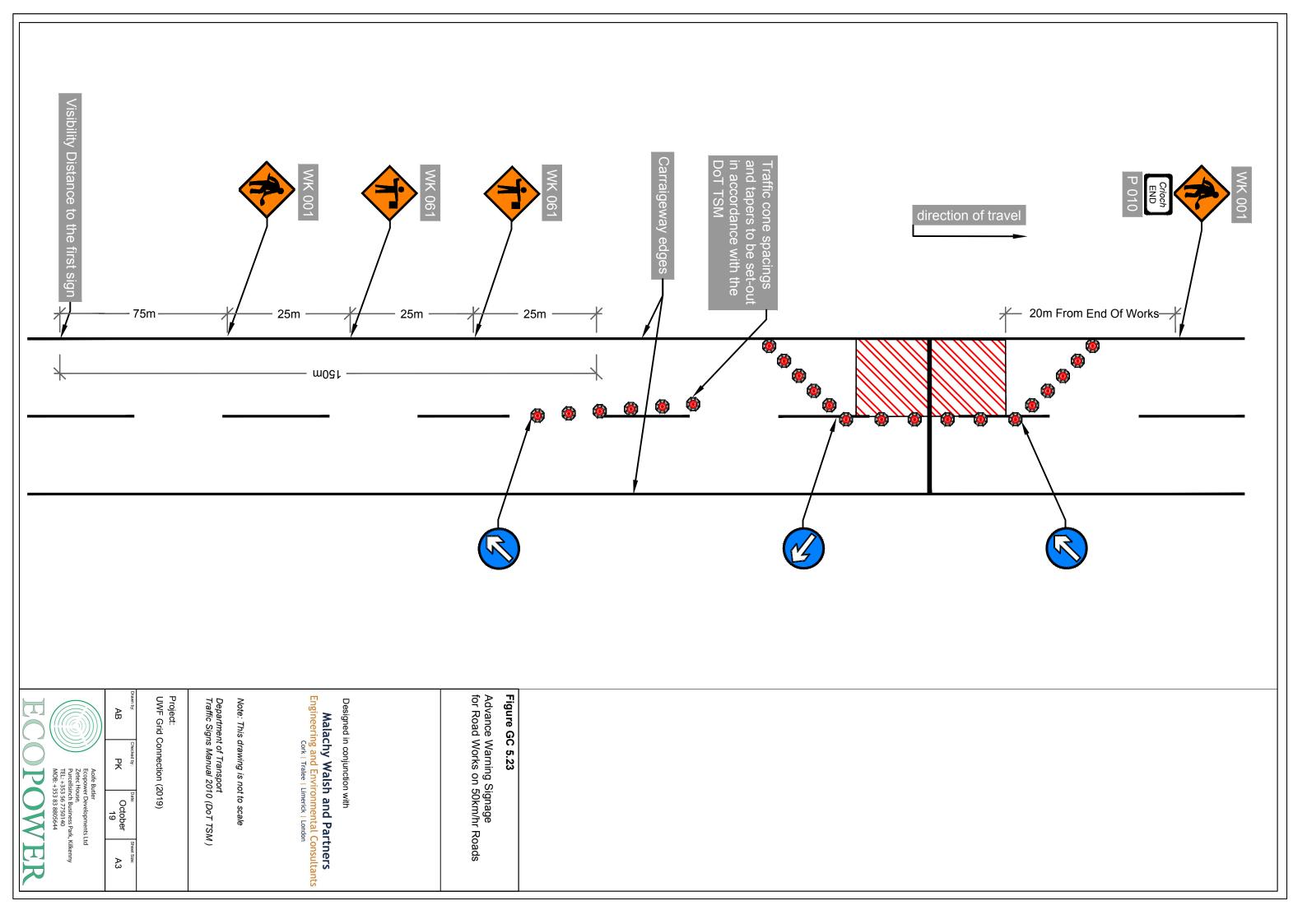
|                         | Topic Chapter:Description of Development<br>Figure GC 5.19   |  |  |
|-------------------------|--|--|--|
|                         | Cross Sections of 110kV UGC over and under existing culverts / services  |  |  |
|                         | Map Number:<br>N/A   |  |  |
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| ing tape<br>Steel plate | This figure is included as a scaled drawing in<br>Volume B: Planning Drawings<br>See drawings: 05652-533 & 05652-534 |  |  |
| <u> </u>                | Project:<br>UWF Grid Connection (2019)   |  |  |
|                         | Drawn by: Checked by: Date: Sheet Size:<br>GD SK Oct 19 A3   |  |  |
|                         | Head Office<br>Beenreigh,<br>Abbeydorney,<br>Tralee, Co. Kerry<br>Ireland<br>Tel: 00353 66 7135710                   |  |  |
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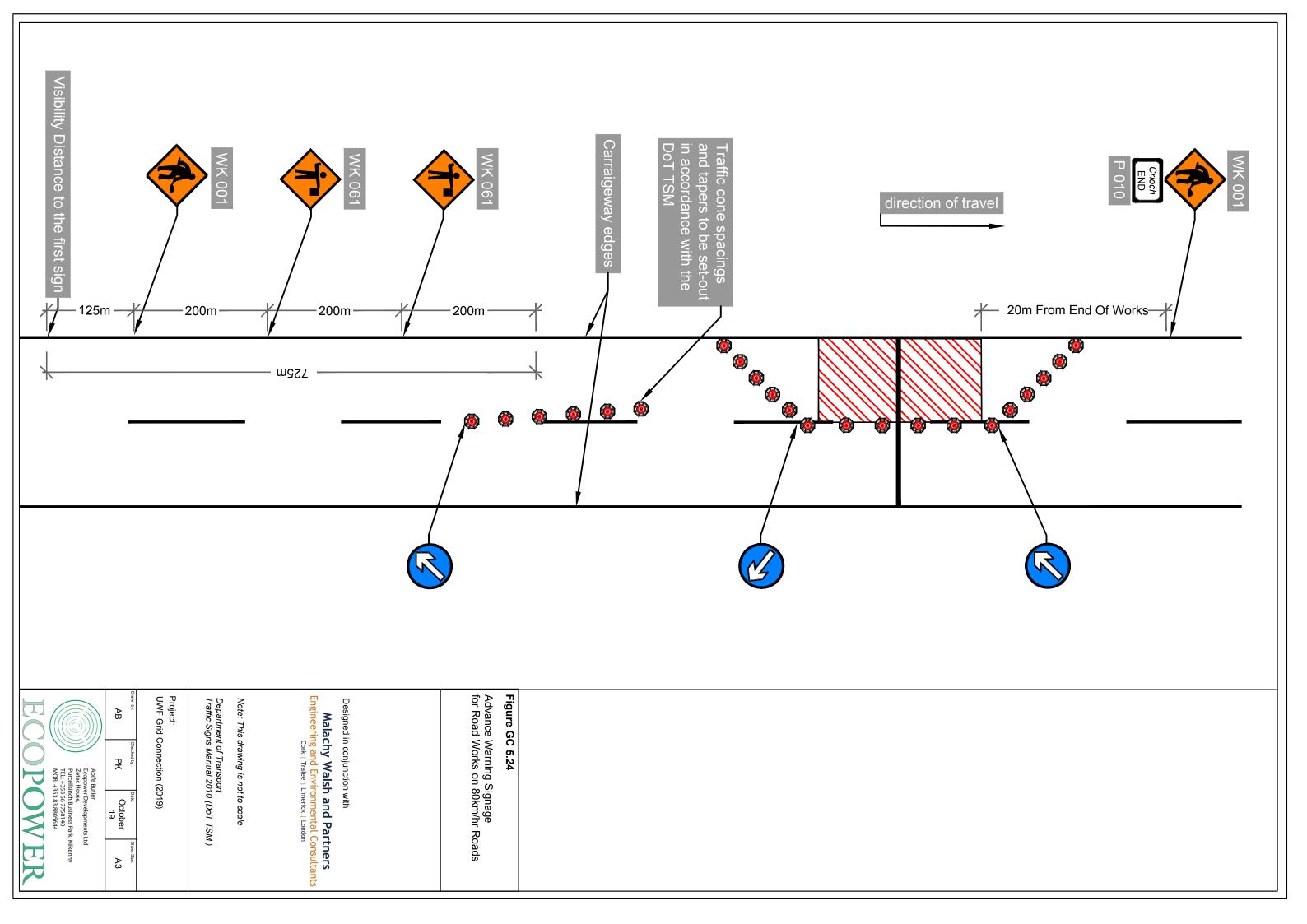


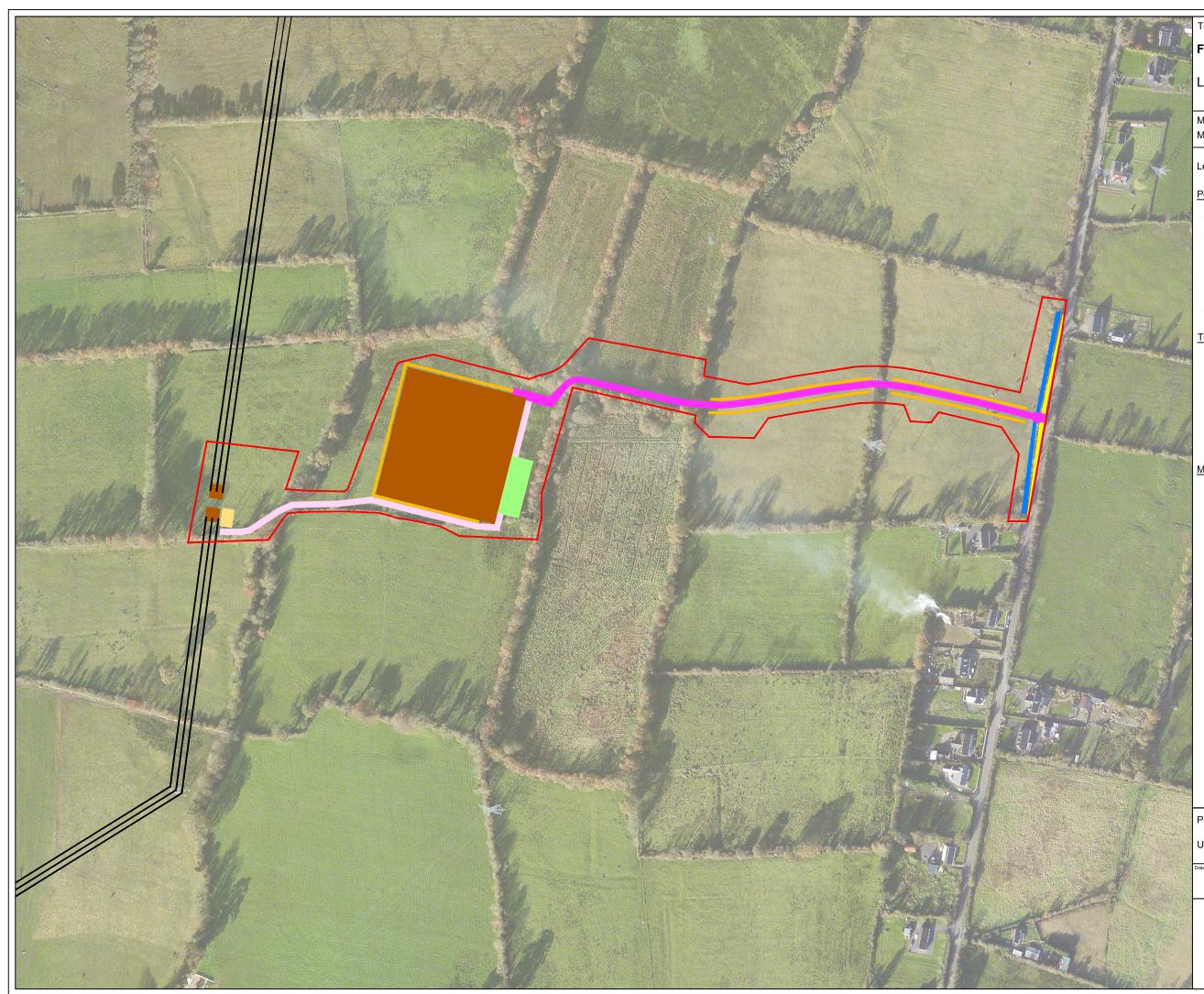
|          |  | er:Description                    | of Developm                           | ent               |
|----------|--|-----------------------------------|---------------------------------------|-------------------|
|          | Figure GC 5.20                         |                                   |                                       |                   |
|          | Cross Section of Replaced Culvert      |                                   |                                       | ert               |
|          | along the                              | 110kV UGC                         | :                                     |                   |
|          |  |                                   |                                       |                   |
|          | Note :                                 |                                   |                                       |                   |
|          | Old crossi<br>diameter d               | ng structure r<br>culvert         | eplaced with                          | a 900mm           |
|          |  |                                   |                                       |                   |
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|          | Designed in conjunction with           |                                   |                                       |                   |
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|          | Project:<br>UWF Grid Connection (2019) |                                   |                                       |                   |
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|          |  | Conor Brett                       | 19                                    |                   |
|          |  | Ecopower Limit<br>Zetec House, Pu | rcellsinch IDA Business I             | Park              |
|          |  | Landline - 056-7                  | lkenny - R95 WV80<br>750140 (Ext 204) |                   |
|          |  | Mobile - +353 (                   |                                       |                   |
|          |  |                                   | )W                                    | <b>H</b> K        |











| Topic Chapter:Description of | <sup>f</sup> Development |
|------------------------------|--------------------------|
|------------------------------|--------------------------|

Figure GC 5.25

Land Use

#### Map Number: Map 1 of 1

Legend:

Permanent Land Use Change:

- Agricultural land to utility
- Agricultural land to permanent road
   Agricultural land to permanent berm with hedge
- Hedge to public road verge
- Agricultural land to hedge

### Temporary Land Use Change:

- Temporary access road and watercourse crossing
- Temporary construction compound
- Temporary crane hardstand

#### Map Information:

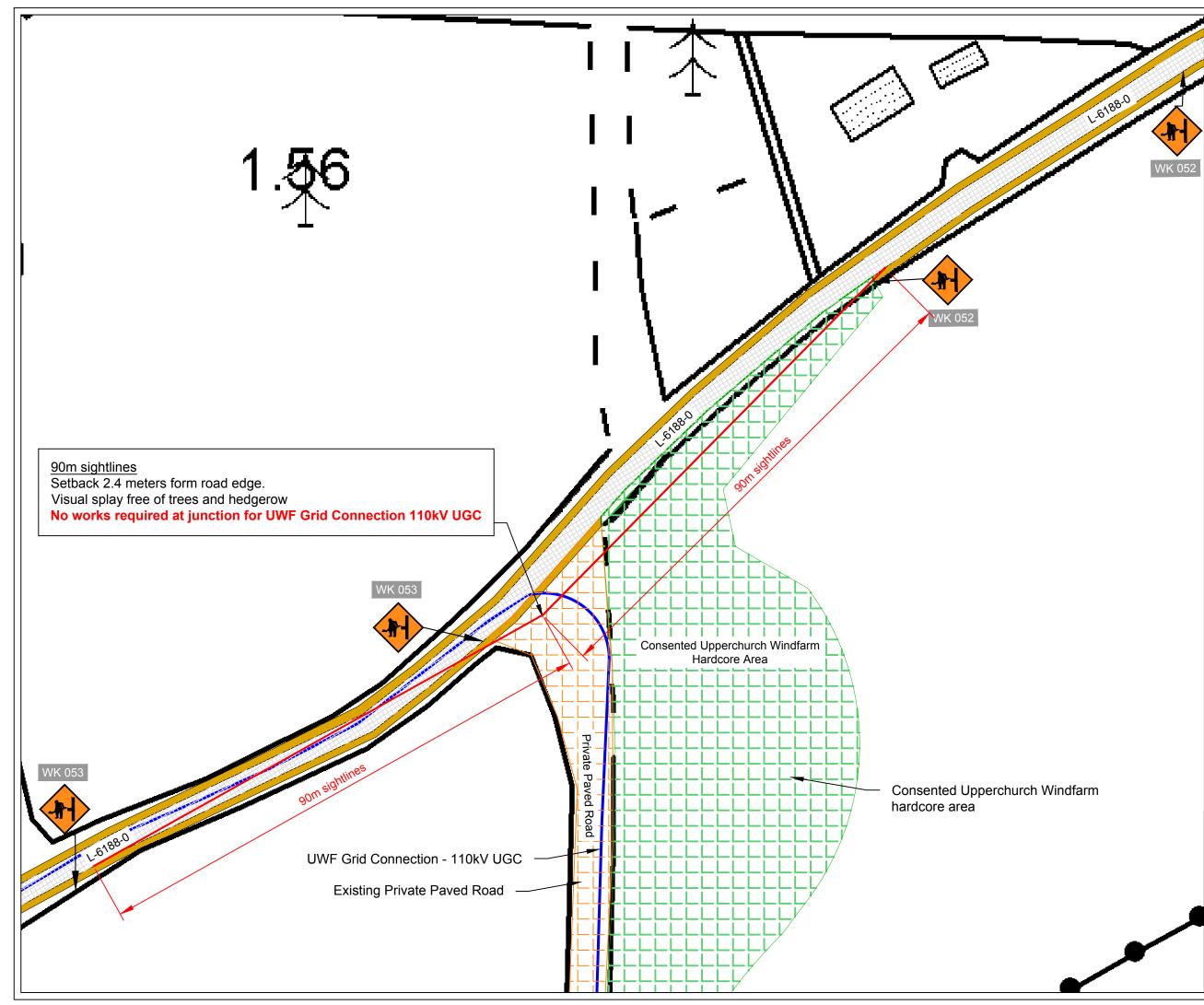
- Mountphilips Substation Site Construction Works Boundary
- Existing Killonan to Nenagh 110kV OHL



#### Project:

## UWF Grid Connection (2019)

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|---|-------------|---------------|-------------|--|
| AB  | PK          | October<br>19 | A3          |  |
| Aoife Butler<br>Ecopower Developments Ltd<br>Zetec House,<br>Purcellsinch Business Park, Kilkenny<br>TEL: +353 56 7750140<br>MOB: +353 83 8805644 |             |               |             |  |
| ECOPOWER  |             |               |             |  |



#### Topic Chapter:Description of Development Figure GC 5.26

Plan View of 110kV UGC at junction of L6188-0 with private paved road in Knockcurraghbola Commons

Map Number: N/A Legend: UWF Grid Connection - 110kV UGC Existing Private Paved Road Public Roadway L-6188-0 Roadside Verge Consented Upperchurch Windfarm Hardcore Area 90m Sightlines Traffic Management Signage (Construction Stage) Project: UWF Grid Connection (2019) October A3 JB ΡK 19 Ecopower Limited Zetec House, Purcellsinch IDA Business Park Dublin Road, Kilkenny - R95 WV80

> Landline - 056-7750140 (Ext 204) Mobile - +353 (0)87-6531458