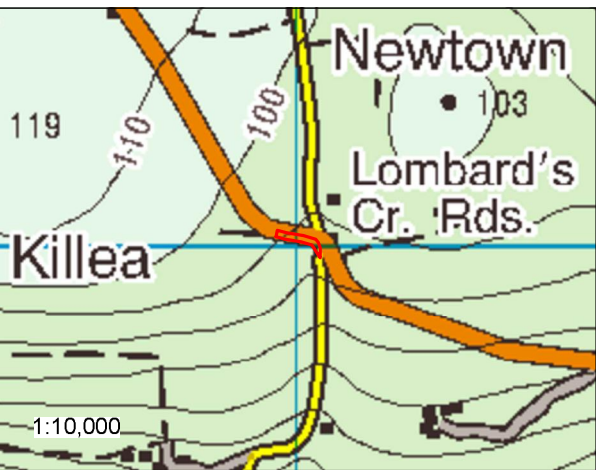


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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.



Drawing Legend

- Planning Application Boundary



Location Context Map

PROJECT TITLE
 Lyrenacarriga Wind Farm,
 Co. Cork & Co. Waterford

DRAWING BY
 Joseph O'Brien Lorraine Meehan

PROJECT No.
 170749

DRAWING No.
 170749 - 01

SCALE:
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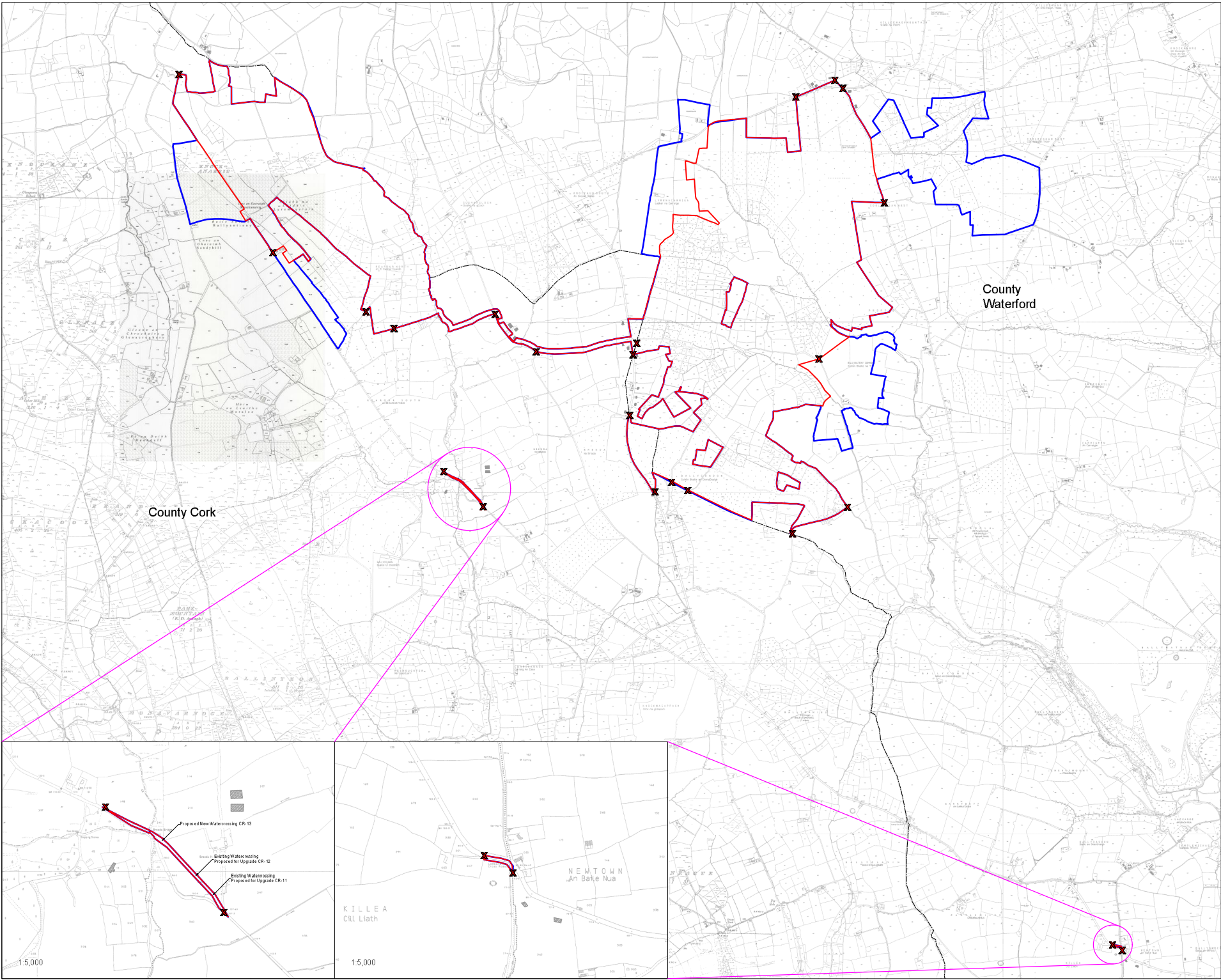
DATE:
 05.01.2021

OS SHEET No.
 OS1808, OS2008

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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.

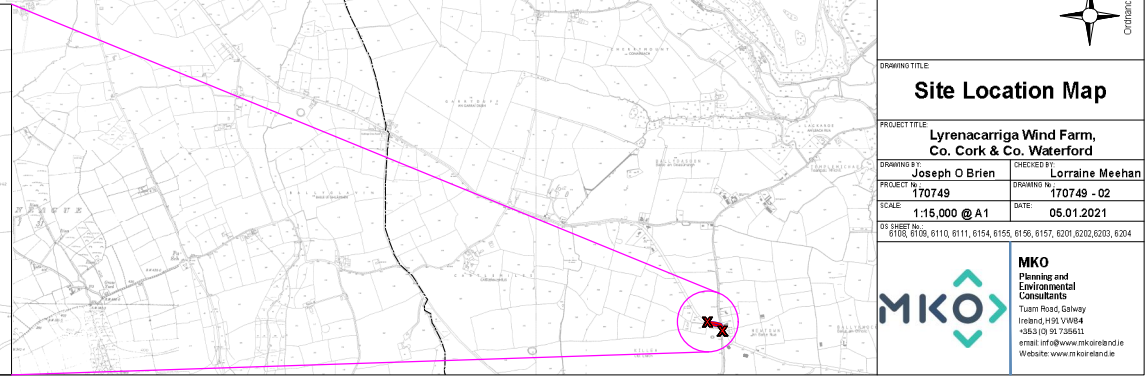
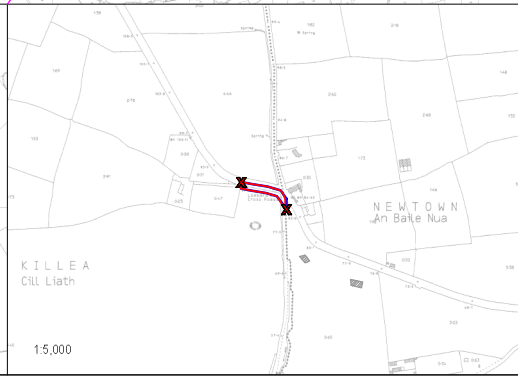
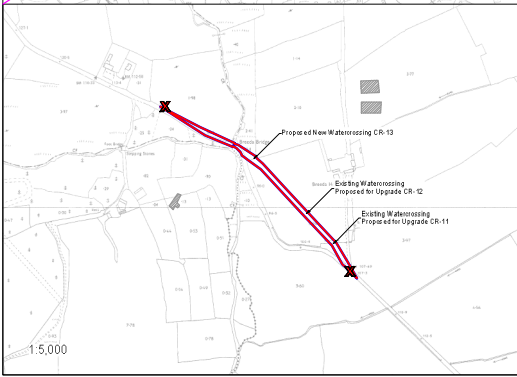
Drainage Design Notes

1. All drainage subject to micro-siting and optimisation on site.
2. The locations of the interceptor drains, check dams, culverts, swales, stilling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stilling pond.
6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
7. Check dam designs to be selected to suit particular topography and hydrological environment.
8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 0%.
9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stilling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
10. Stilling ponds to be sized according to the area they will be receiving water from.
11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
12. Existing drains/ditches to be incorporated or removed during wind farm construction.
13. All drainage system features to be subject of inspection and maintenance plan.
14. The layout shown is slightly off for scale purposes, and all drainage would be installed as close to the road as possible.

Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- X Site Notice
- County Border

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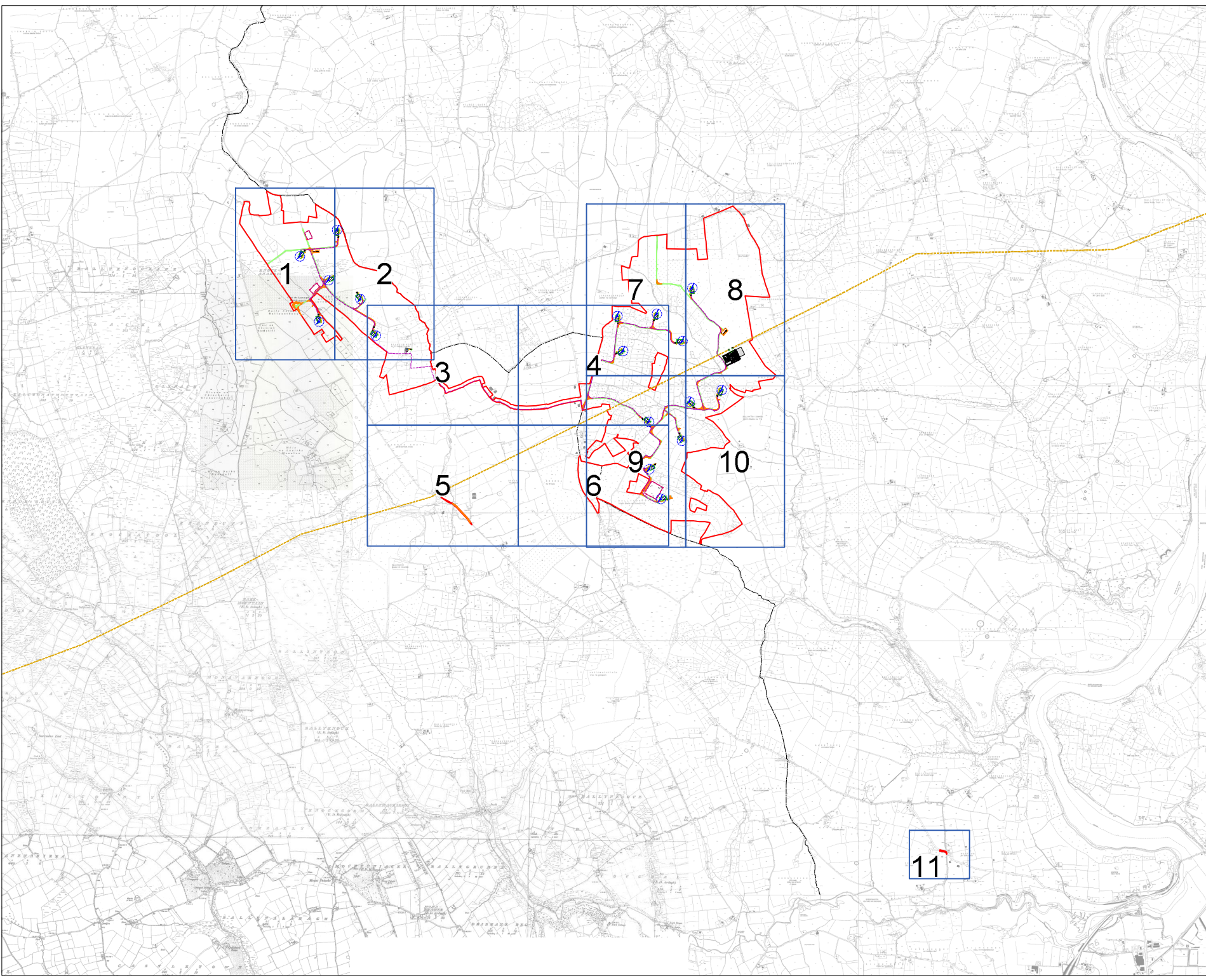
Site Location Map

PROJECT TITLE
Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford

DRAWING BY Joseph O'Brien	CHECKED BY Lorraine Meehan
PROJECT NO. 170749	DRAWING NO. 170749 - 02
SCALE: 1:15,000 @ A1	DATE: 05.01.2021

D0 SHEET NO.:
0105, 0106, 0110, 0111, 0154, 0155, 0156, 0157, 0201, 0202, 0203, 0204

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

- Drainage Design Notes**
1. All drainage subject to micro-siting and optimisation on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, stilling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
 5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stilling pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 5%.
 9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stilling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
 10. Stilling ponds to be sized according to the area they will be receiving water from.
 11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
 12. Existing drains/ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and maintenance plan.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Works Area
 - Soft Levelled Area
 - Crane Pad Handstanding Area
 - Turbine Foundation
 - ⊗ Turbine Sweep Area
 - Borrow Pit
 - Existing 110kV Overhead Line
 - County Border

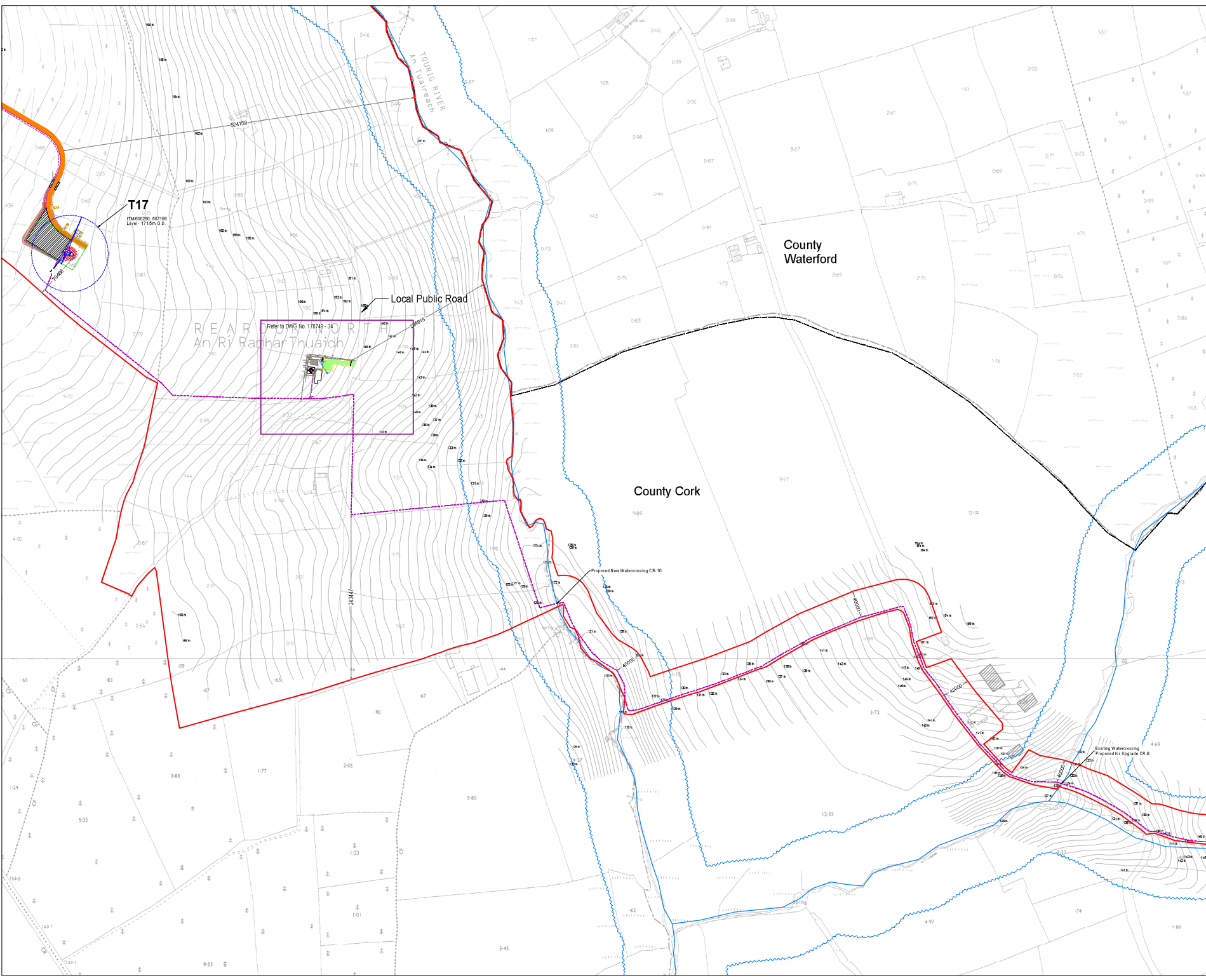


Site Layout Key Plan B

PROJECT TITLE Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford	
DRAWING BY Joseph O'Brien	CHECKED BY Lorraine Meehan
PROJECT NO. 170749	DRAWING NO. 170749 -08
SCALE: 1:20,000 @ A1	DATE: 05.01.2021

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 6. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the use or reliance upon this drawing.
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
- Drainage Design Notes**
1. All drainage subject to micro-siting and optimisation on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, stilling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
 5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stilling pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 5%.
 9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stilling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
 10. Stilling ponds to be sized according to the area they will be receiving water from.
 11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
 12. Existing drains/ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and maintenance plan.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 75m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Handstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Cut
- Fill
- County Border

DRAWING TITLE
Site Layout Plan
Sheet 3 of 11

PROJECT TITLE
Lyencarriga Wind Farm, Co. Cork & Co. Waterford

DRAWING BY: Joseph O'Brien **CHECKED BY:** Lorraine Meehan

PROJECT NO: 170749 **DRAWING NO:** 170749 - 11

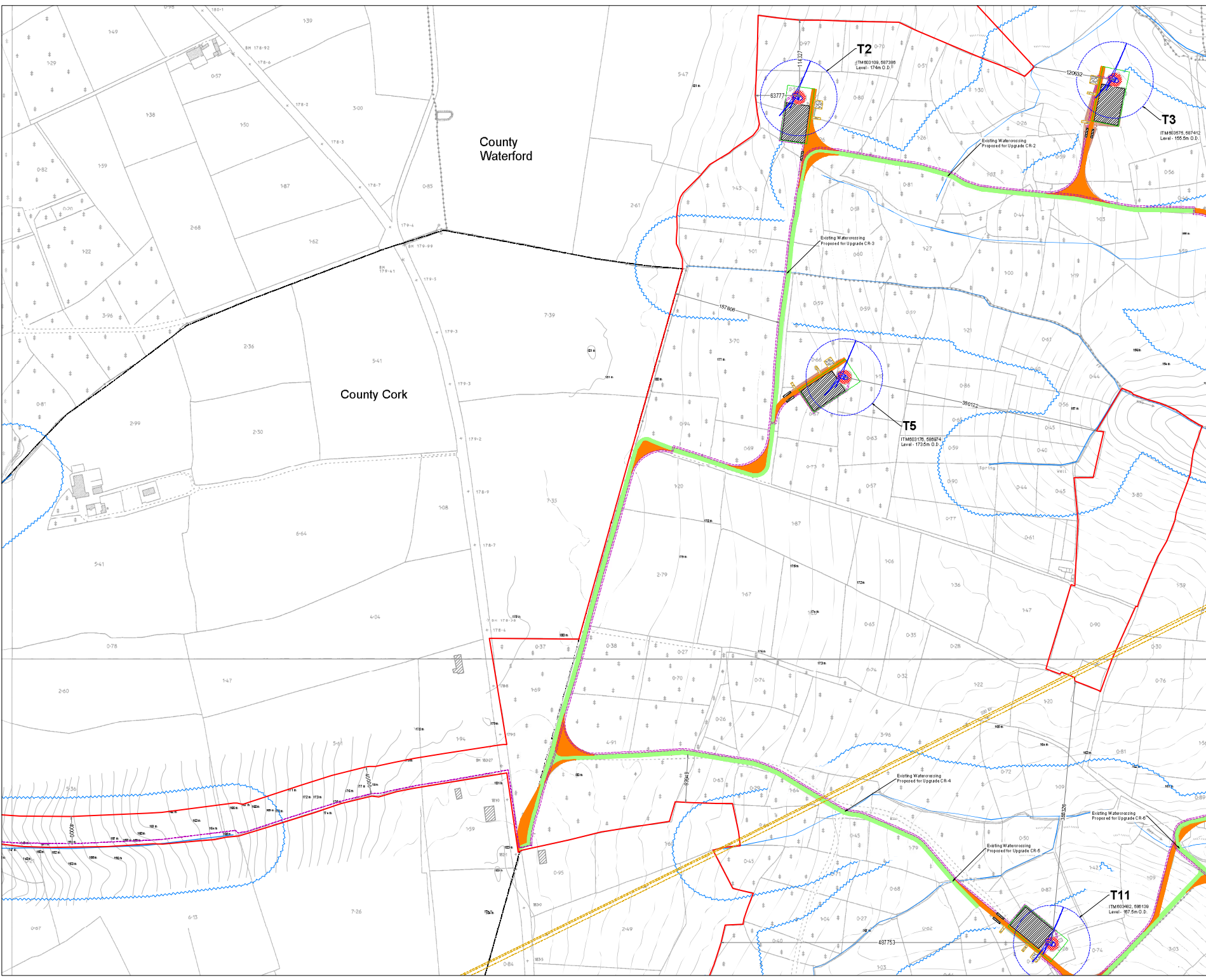
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County Waterford

County Cork

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

- Drainage Design Notes**
1. All drainage subject to micro-siting and optimisation on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, stiling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
 5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stiling pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 5%.
 9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stiling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
 10. Stiling ponds to be sized according to the area they will be receiving water from.
 11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
 12. Existing drains/ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and maintenance plan.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - River/Stream
 - 75m River/Stream Buffer
 - Works Area
 - Soft Levelled Area
 - Crane Pad Handstanding Area
 - Turbine Foundation
 - ⊙ Turbine Sweep Area
 - Cut
 - Fill
 - County Border
 - Existing 110kV Overhead Line



**Site Layout Plan
Sheet 4 of 11**

PROJECT TITLE
Lyrenacarriga Wind Farm,
Co. Cork & Co. Waterford

DRAWING BY
Joseph O'Brien

CHECKED BY
Lorraine Meehan

PROJECT NO.
170749

DRAWING NO.
170749 - 12

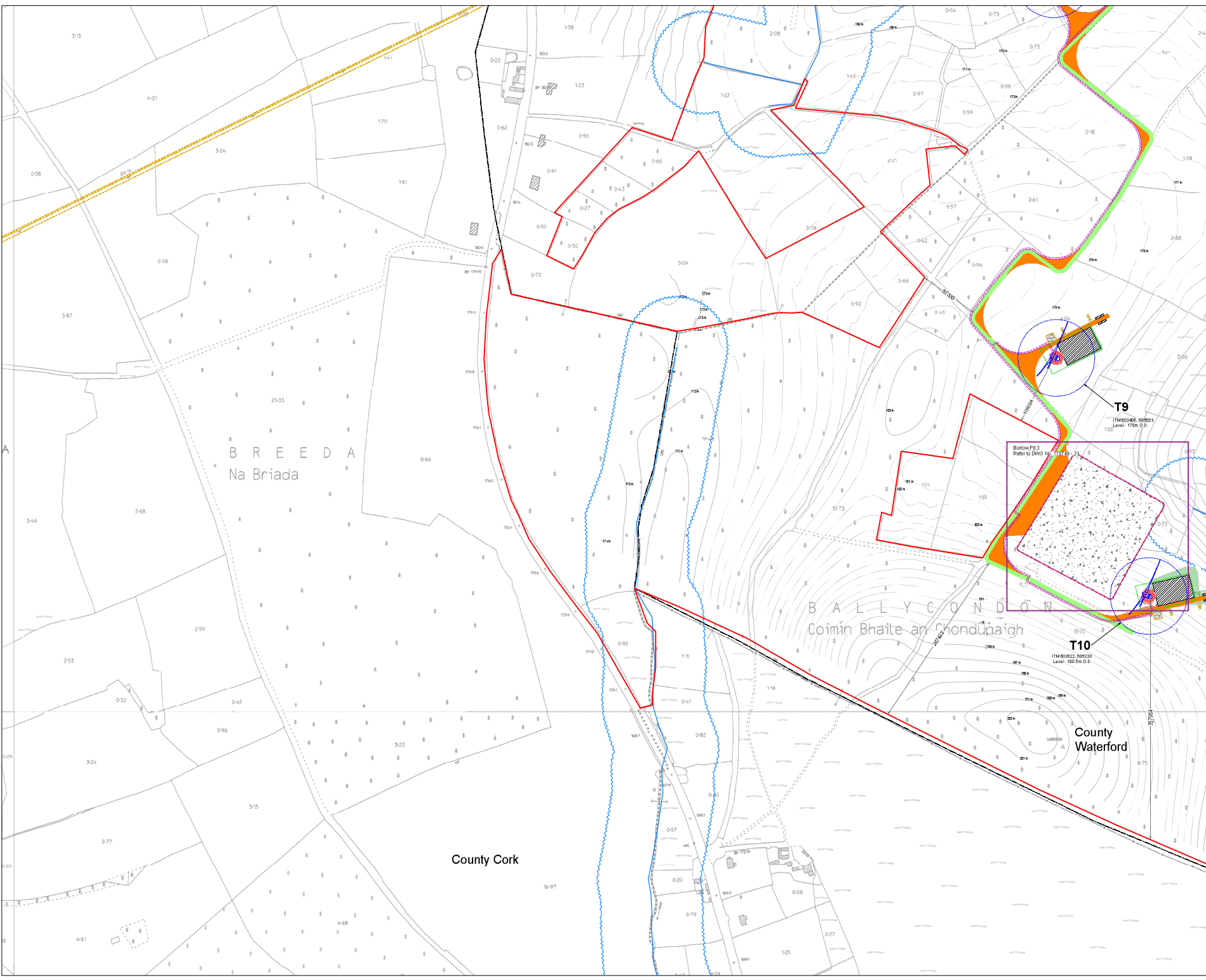
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DATE:
05.01.2021

DWG SHEET NO.:
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6. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the user 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.

Drainage Design Notes

1. All drainage subject to micro-siting and optimisation on site.
2. The locations of the interceptor drains, check dams, culverts, swales, stilling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stilling pond.
6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
7. Check dam designs to be selected best to suit particular topography and hydrological environment.
8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 5%.
9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stilling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
10. Stilling ponds to be sized according to the area they will be receiving water from.
11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
12. Existing drains/ditches to be incorporated or removed during wind farm construction.
13. All drainage system features to be subject of inspection and maintenance plan.
14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 75m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Borrow Pit
- Cut
- Fill
- Existing 110kV Overhead Line
- County Border

Site Layout Plan Sheet 6 of 11

Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Lorraine Meehan**

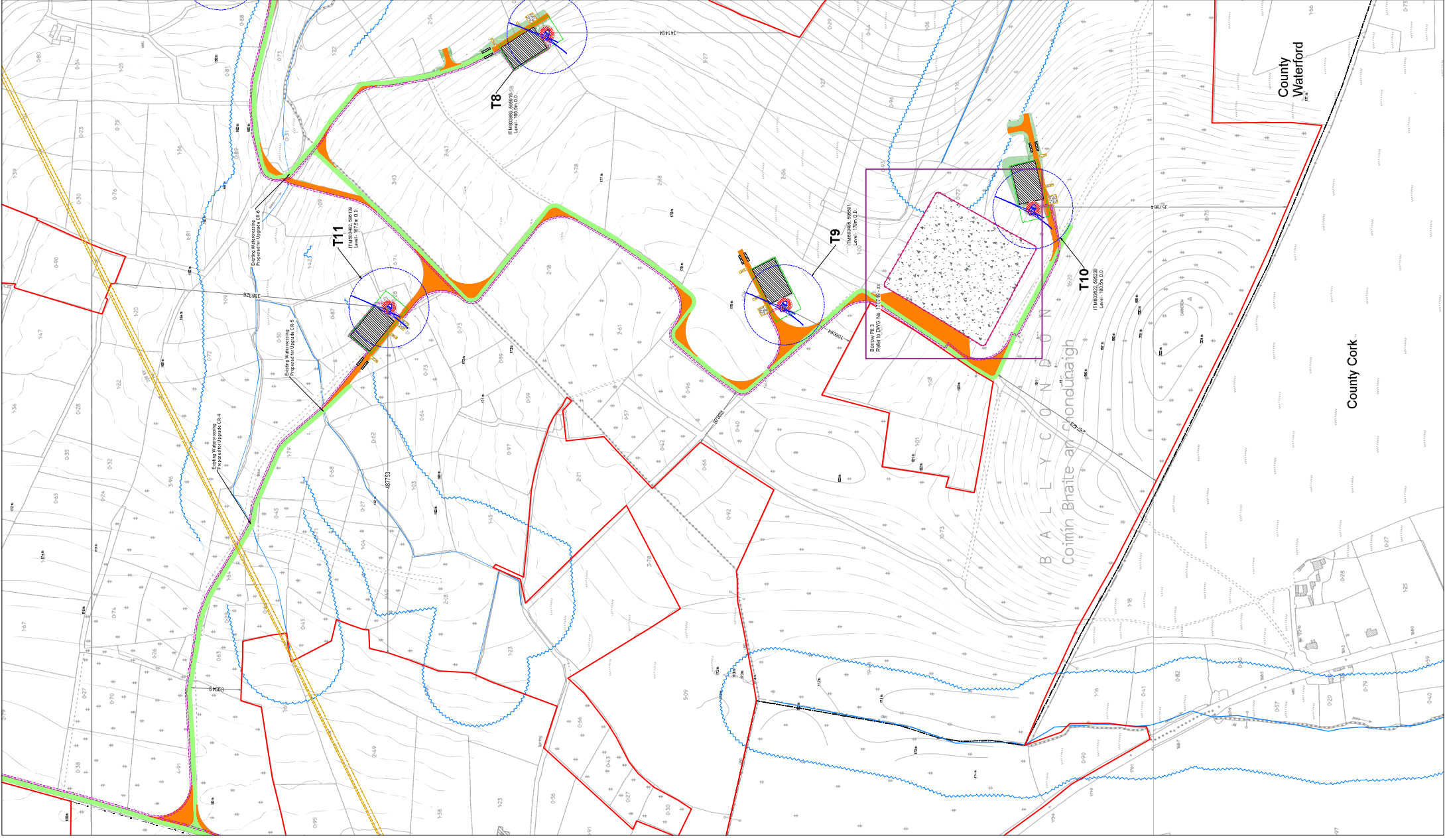
PROJECT NO: **170749** DRAWING NO: **170749 - 14**

SCALE: **1:2,500 @ A1** DATE: **05.01.2021**

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 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for staking and checking any and all levels.
 6. All existing and new trees on site to be protected. It is deemed to be the acceptance of these conditions of use unless otherwise agreed in the contract, such written agreements to be signed from and issued by the contractor.
 7. Layout plans show typical turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. All drainage systems to be installed in accordance with the following:
 1. All drainage subject to micro-siting and optimization on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, silted ponds and level spreaders are shown as indicative, subject to change to suit the requirements of the local topography.
 3. Superficial hydrology or environmental clear or woods are to be protected. The location of drainage features to be installed is shown as indicative, subject to change to suit the requirements of the local topography.
 4. Drainage measures to be installed prior to, or at the same time as, any other works on site.
 5. Interceptor drains or swales will not be lower than the design ground level of the water surface in the outlet at the level spreader or silted pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are installed.
 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader into which the water is discharged to be a minimum of 1:10.
 9. No direct discharge or pumping to watercourses will be permitted. All discharge from level spreaders or silted ponds to be via silted ponds or swales to suitable areas to use as vegetation buffer to the watercourse.
 10. Silted ponds to be sited in accordance with the works of the drainage system.
 11. Direction of drainage ditches will only take place when alternative drainage which has been installed to handle the same volume of water is provided.
 12. Existing drain/ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and approval by the local authority.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.



Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 7.5m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Hoisting Area
- Turbine Foundation
- Turbine Swept Area
- Borrow Pit
- Cut
- Fill
- Existing 10kV Overhead Line
- County Boundary



**Site Layout Plan
Sheet 9 of 11**

PROJECT TITLE
**Lyrencariga Wind Farm,
Co. Cork & Co. Waterford**

DRAWING BY
Joseph O'Brien

CHECKED BY
Lorraine Meehan

SCALE
1:10749

DATE
05.01.2021

DT SHEET No.: **1:2,500 @ A1**

DT SHEET No.: **1:10749**

DT SHEET No.: **1:10749**

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County Cork

