

**Project Design Drawing Notes**

1. Drawings issued are for planning application purposes only.
2. Drawings not to be used for construction/contract conditions.
3. Copyright, all rights reserved. No part hereof may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Kenille O'Sullivan.
4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
6. The use of or reliance upon this drawing shall be deemed to be the responsibility of the user. The user shall be responsible for ensuring that any 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, etc. shall be indicated on the drawing. The locations 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 dependant 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 the 6%.
9. No direct discharge or dumping to watercourses will be permitted. All discharges from level spreaders or stilling ponds to be via vegetated filters. Selection or 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 drain/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
- Electrical Cable Trench
- Cable Route
- Cable Route (Alternate)
- Cut
- Fill
- Existing Cahermurphy Wind Farm Planning Ref: 14/551



**Site Layout Sheet  
8 of 17**

ORdnance Survey Ireland Licence No. AR00218200

|               |  |             |                 |
|---------------|--|-------------|-----------------|
| PROJECT TITLE | <b>Cahermurphy Two Wind Farm, Co. Clare</b>  |             |                 |
| DRAWING BY    | Joseph O'Brien   | CHECKED BY  | Eoin O'Sullivan |
| PROJECT NO.   | 170238   | DRAWING NO. | 170238 - 11     |
| SCALE         | 1:2,500 @ A3   | DATE        | 02.09.2020      |
| OS SHEET NO.  | 4315, 4316, 4317, 4318, 4374, 4375, 4376, 4377, 4378, 4333, 4334, 4335, 4401, 4402, 4492, 4493 |             |                 |

**MKO**  
Planning and Environmental Consultants  
Team Road, Galway  
Ireland, H91 VW84  
+353 (0) 91 759511  
email: info@www.mkoireland.ie  
Website: www.mkoireland.ie