

Project Name: **Crofts Farm Wind Turbines**
 Document Title: **Cumulative ZTV to Tip Height for 35km Radii - Balhousie (Planning)**
 Scale: **1:250,000 @ A3**

- Key:
- Proposed Turbines Location
 - Other Project Location
 - 5, 10, 15, 20, 25 & 30km Radii from Wind Turbines Centre
 - Landscape and Visual Study Area (35km)

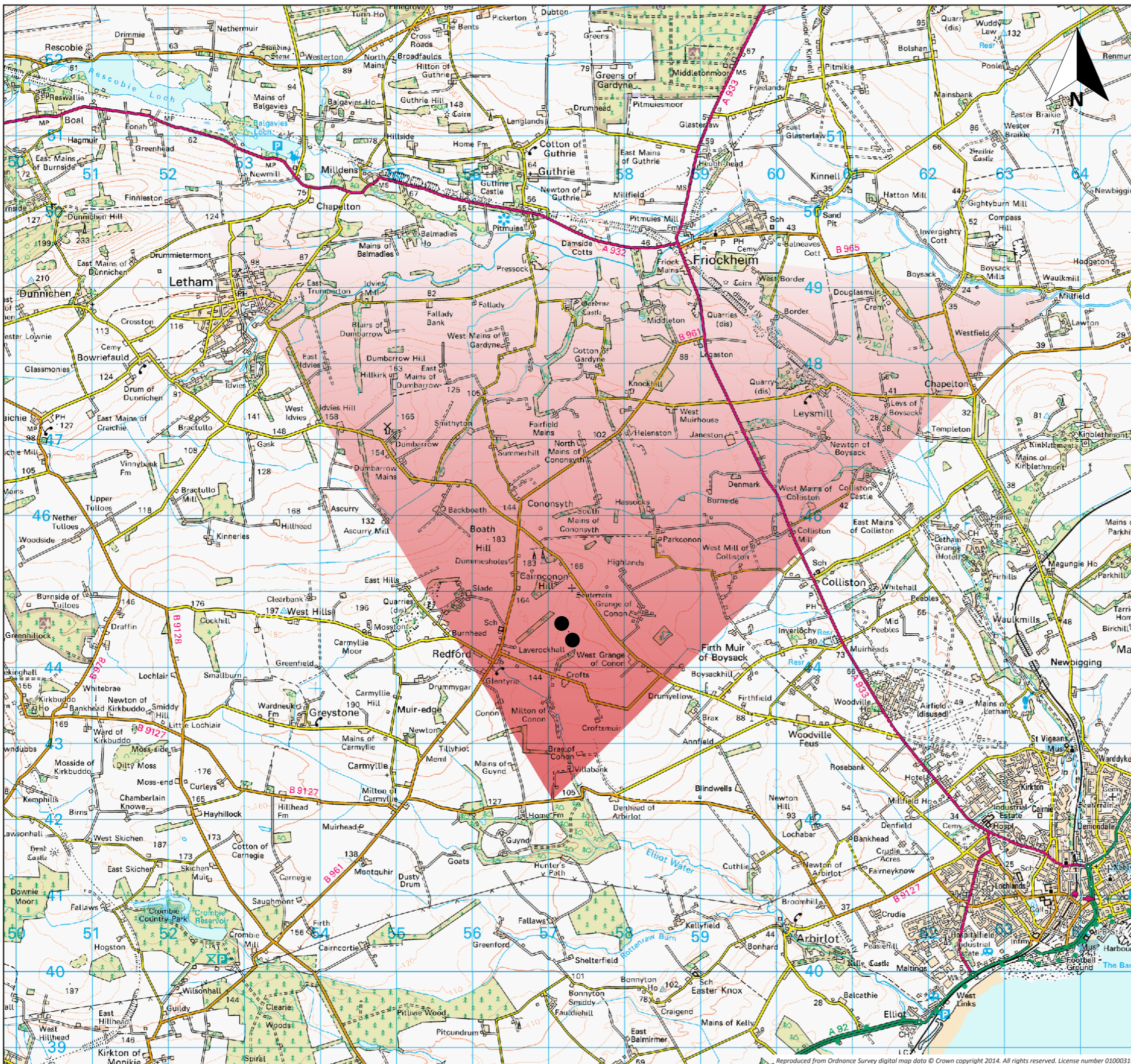
- Crofts Farm Visible
- Balhousie Visible
- Crofts Farm & Balhousie Visible

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Client: **Crofts Farm Renewables Ltd.**
 Drawing by: **Green Cat Renewables Ltd**

Document Number: **CO118-183/Fig 7.11i**
 Version: **1.0**
 Author: **SS**
 Checked by: **RC**
 Approved By: **GM**
 Date: **10/01/2014**







Project Name: **Crofts Farm Wind Turbines**

Document Title: **VP01 - The Guynd**

Scale: **1:50,000 @ A3**

Key:
 Proposed Turbine Locations

 76° Field of View

Viewpoint Information

Viewpoint Location: **E356680 N742221**

Viewpoint Elevation: **119m (A.O.D)**

View Direction: **24°**

Distance to Turbine: **2.3km**

Visibility: **2 Hubs**

Camera Type: **Nikon D3100**

Focal Length: **35mm**

Effective Focal Length: **54.6mm**

Date Taken: **30/01/2013**

Time Taken: **15:48**

Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**

Magnitude: **Low**

Overall: **Moderate**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: **Crofts Farm Renewables Ltd.**

Drawing by: **Green Cat Renewables Ltd**

Document Number: **CO118-183/Fig 7.12**

Version: **1.0**

Author: **SS**

Checked by: **RC**

Approved By: **GM**

Date: **10/01/2014**



VP01 THE GUYND - PHOTOGRAPH OF EXISTING VIEW



VP01 THE GUYND - WIRELINE DRAWING

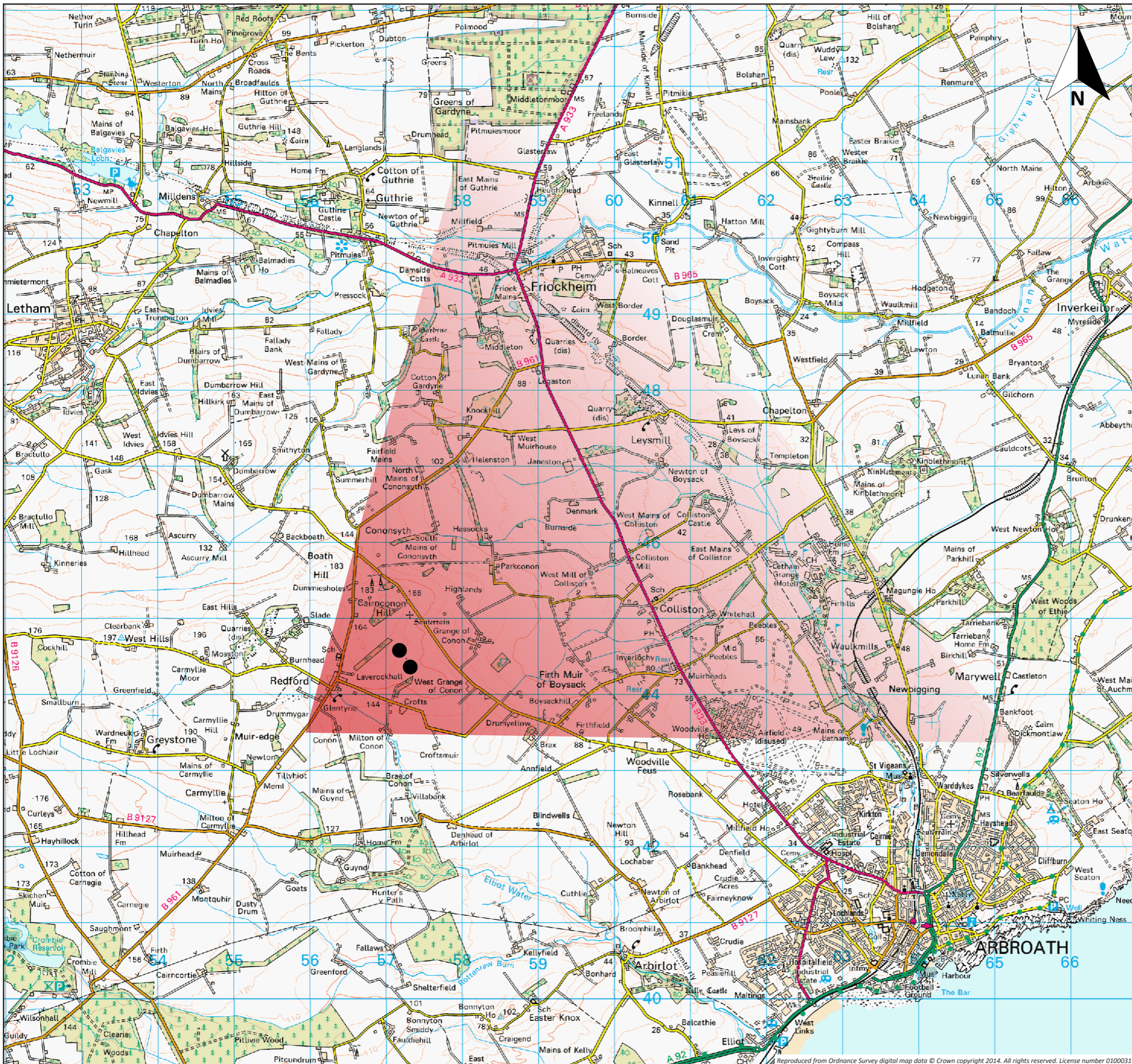




VP01 THE GUYND – 70MM PHOTOMONTAGE OF PROPOSAL




26° VIEWING ANGLE 500MM VIEWING DISTANCE




Project Name: **Crofts Farm Wind Turbines**

Document Title: **VP02 - B961 near Newton**

Scale: **1:50,000 @ A3**

Key:
 Proposed Turbine Locations

 76° Field of View

Viewpoint Information

Viewpoint Location: **E355915 N743506**

Viewpoint Elevation: **170m (A.O.D)**

View Direction: **76°**

Distance to Turbine: **1.6km**

Visibility: **3 Projects**

Camera Type: **Nikon D3000**

Focal Length: **35mm**

Effective Focal Length: **53.4mm**

Date Taken: **05/08/2011**

Time Taken: **13:17**

Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**

Magnitude: **Low**

Overall: **Moderate**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: **Crofts Farm Renewables Ltd.**

Drawing by: **Green Cat Renewables Ltd**

Document Number: **CO118-183/Fig 7.13**

Version: **1.0**

Author: **SS**

Checked by: **RC**

Approved By: **GM**

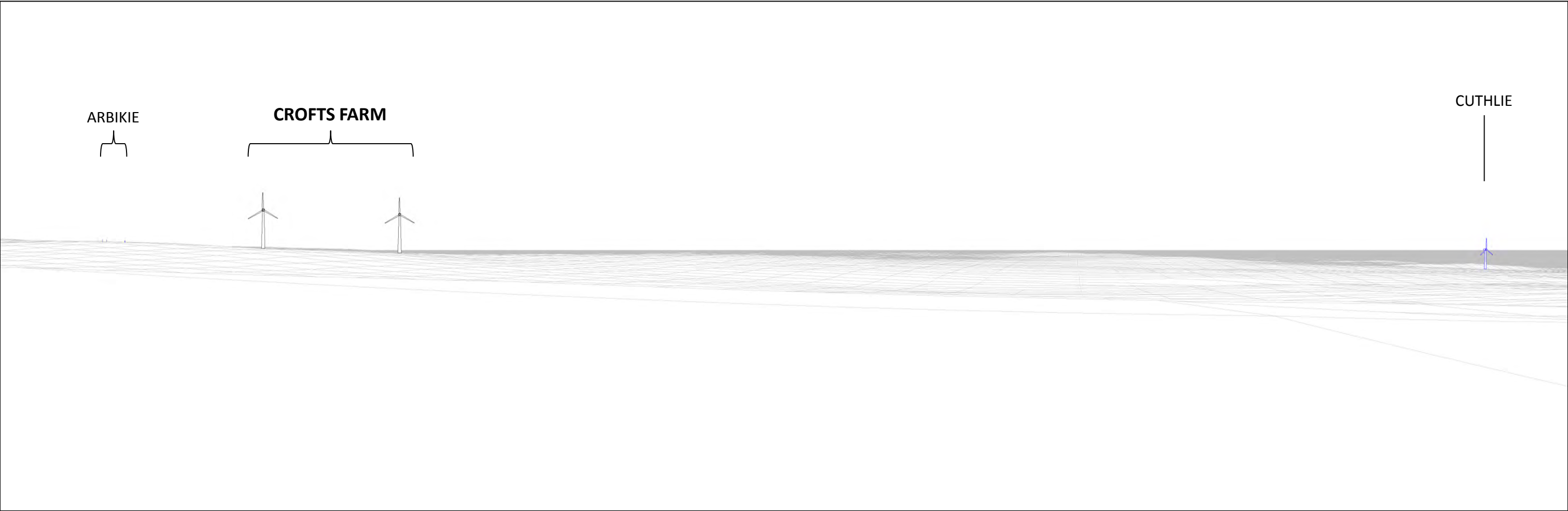
Date: **10/01/2014**



VP02 B961 NEAR NEWTON - PHOTOGRAPH OF EXISTING VIEW



VP02 B961 NEAR NEWTON - WIRELINE DRAWING



VP02 B961 NEAR NEWTON - PHOTOMONTAGE OF PROPOSAL

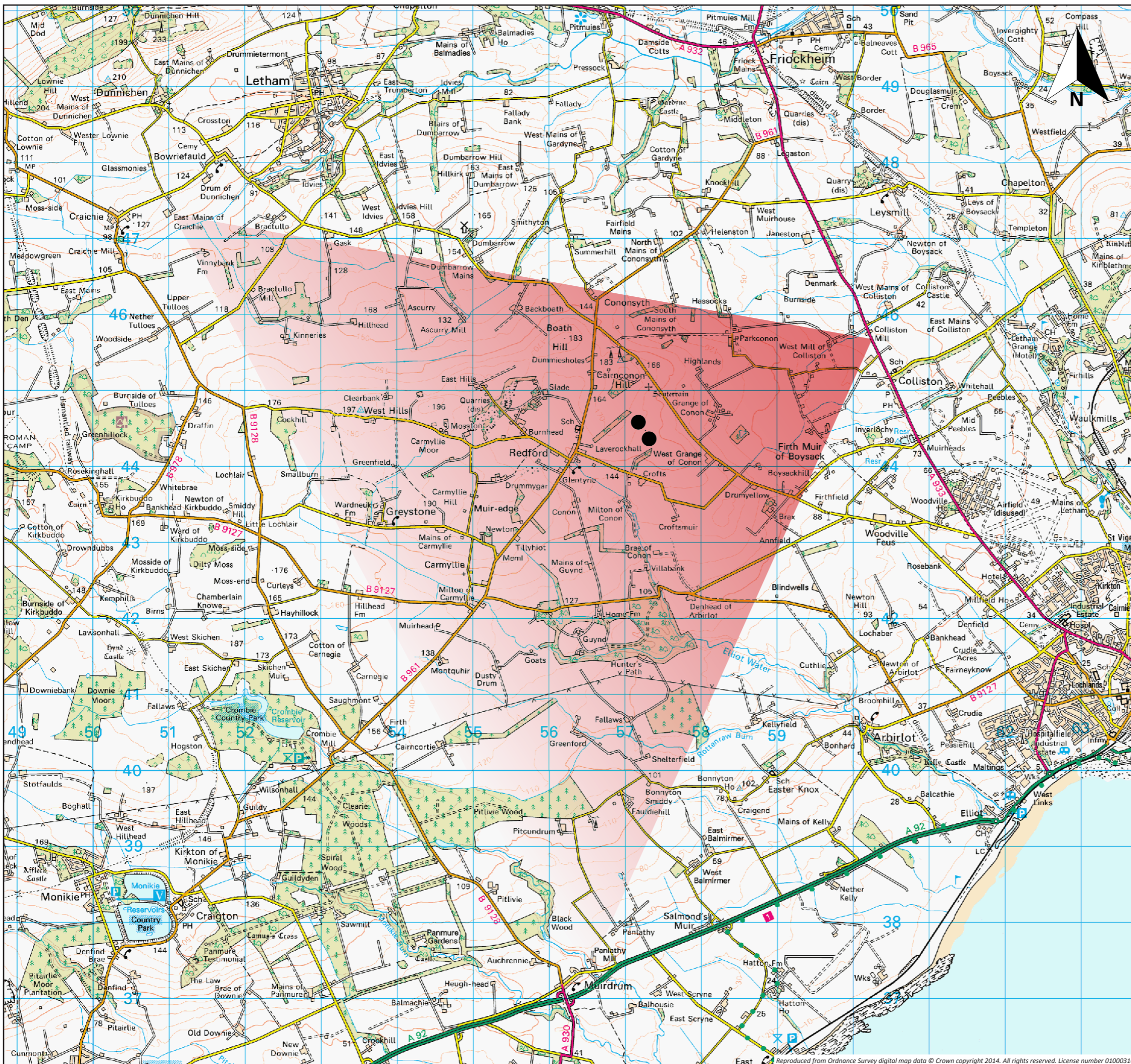
**76° VIEWING ANGLE
300MM VIEWING DISTANCE**



VP02 B961 NEAR NEWTON – 70MM PHOTOMONTAGE OF PROPOSAL



26° VIEWING ANGLE 500MM VIEWING DISTANCE

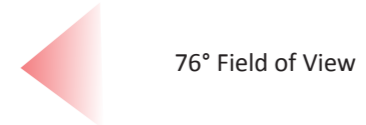


Project Name: Crofts Farm Wind Turbines

Document Title: VP03 - A933 near Colliston

Scale: 1:50,000 @ A3

Key: ● Proposed Turbine Locations



76° Field of View

Viewpoint Information

Viewpoint Location: E360213 N745713

Viewpoint Elevation: 63m (A.O.D)

View Direction: 243°

Distance to Turbine: 3.2km

Visibility: 2 Projects

Camera Type: Nikon D3100

Focal Length: 35mm

Effective Focal Length: 54.6mm

Date Taken: 04/04/2013

Time Taken: 10:44

Height above elevation: 1.5m

Visual Impact

Sensitivity: Medium

Magnitude: Low

Overall: Moderate/Minor

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: Crofts Farm Renewables Ltd.

Drawing by: Green Cat Renewables Ltd

Document Number: CO118-183/Fig 7.14

Version: 1.0

Author: SS

Checked by: RC

Approved By: GM

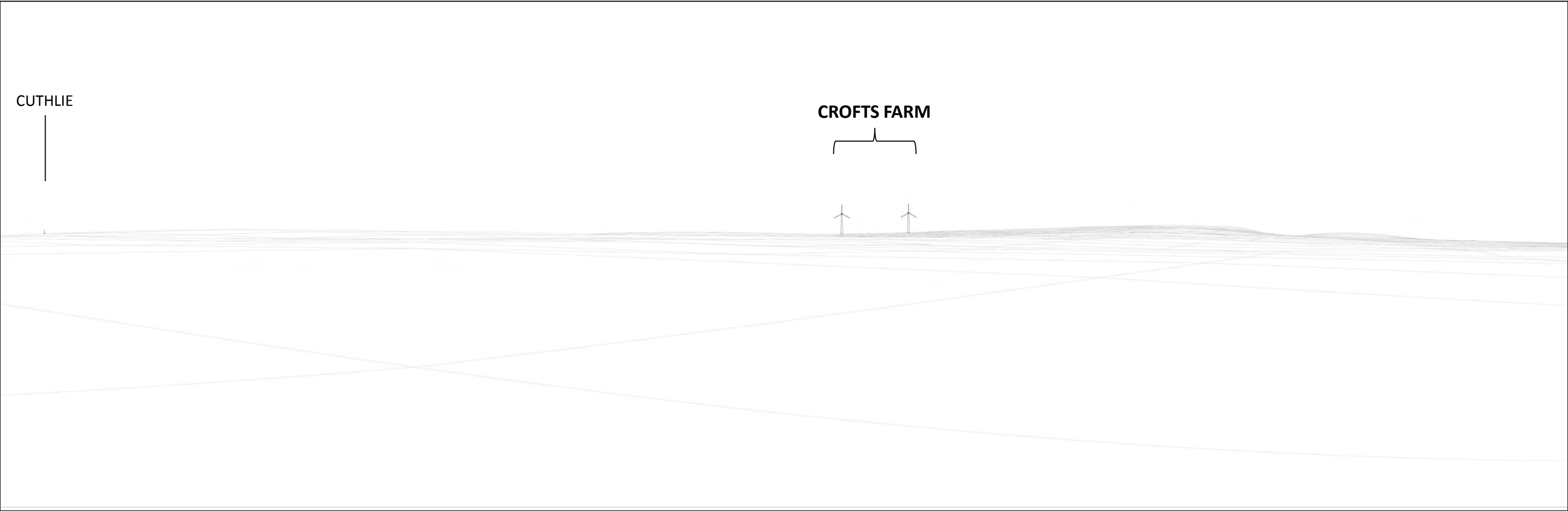
Date: 10/01/2014



VP03 A933 NEAR COLLISTON - PHOTOGRAPH OF EXISTING VIEW



VP03 A933 NEAR COLLISTON - WIRELINE DRAWING



VP03 A933 NEAR COLLISTON - PHOTOMONTAGE OF PROPOSAL

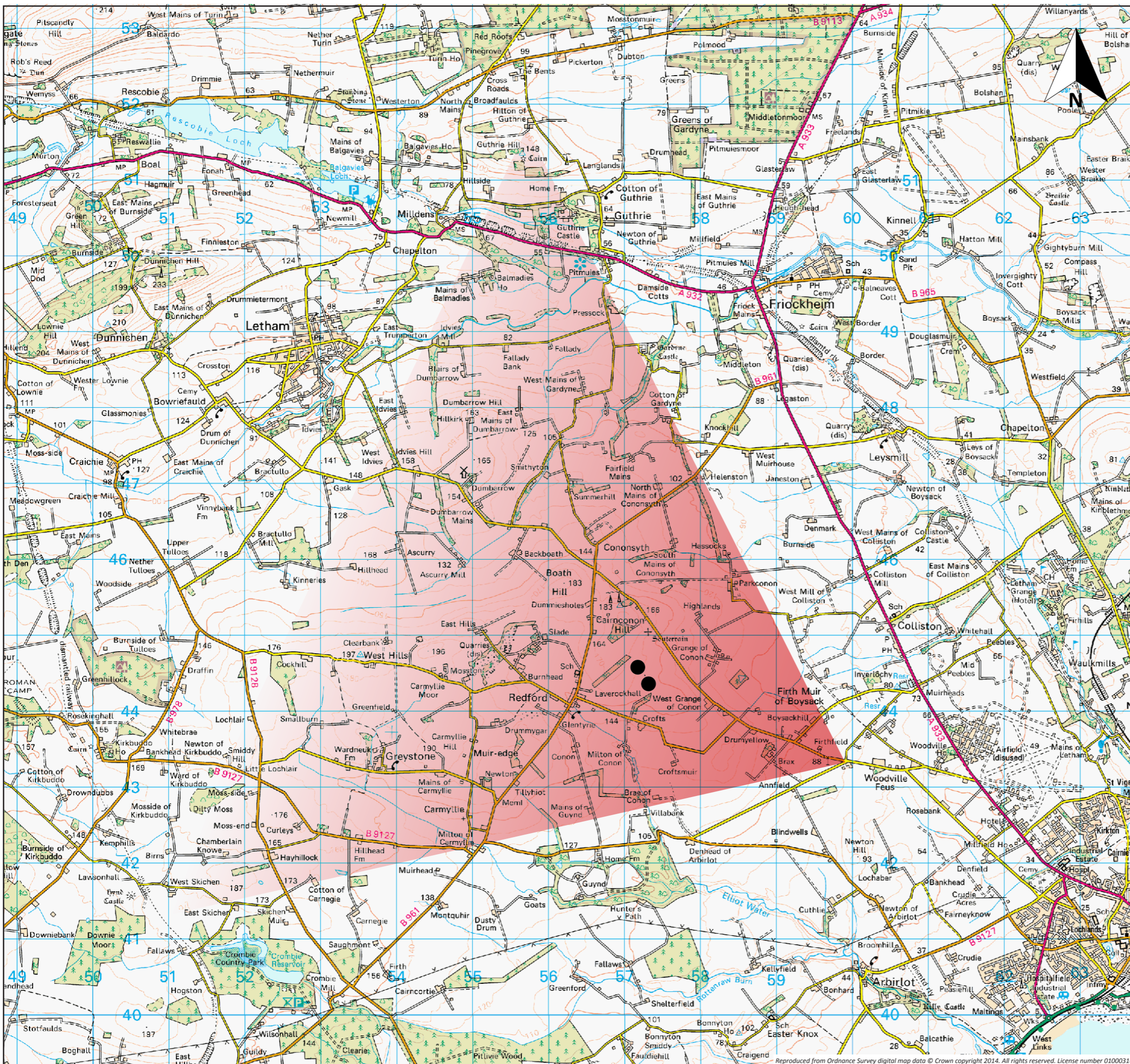
76° VIEWING ANGLE
300MM VIEWING DISTANCE



VP03 A933 NEAR COLLISTON – 70MM PHOTOMONTAGE OF PROPOSAL



26° VIEWING ANGLE 500MM VIEWING DISTANCE



Project Name: **Crofts Farm Wind Turbines**
 Document Title: **VP04 - Minor Road near Woodville**
 Scale: **1:50,000 @ A3**

Key:
 ● Proposed Turbine Locations
 ◀ 76° Field of View

Viewpoint Information

Viewpoint Location: **E359897 N743342**
 Viewpoint Elevation: **82m (A.O.D)**
 View Direction: **270°**
 Distance to Turbine: **2.3km**
 Visibility: **2 Hubs**
 Camera Type: **Nikon D3100**
 Focal Length: **35mm**
 Effective Focal Length: **54.6mm**
 Date Taken: **19/07/2013**
 Time Taken: **15:54**
 Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**
 Magnitude: **Low**
 Overall: **Moderate**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: **Crofts Farm Renewables Ltd.**
 Drawing by: **Green Cat Renewables Ltd**

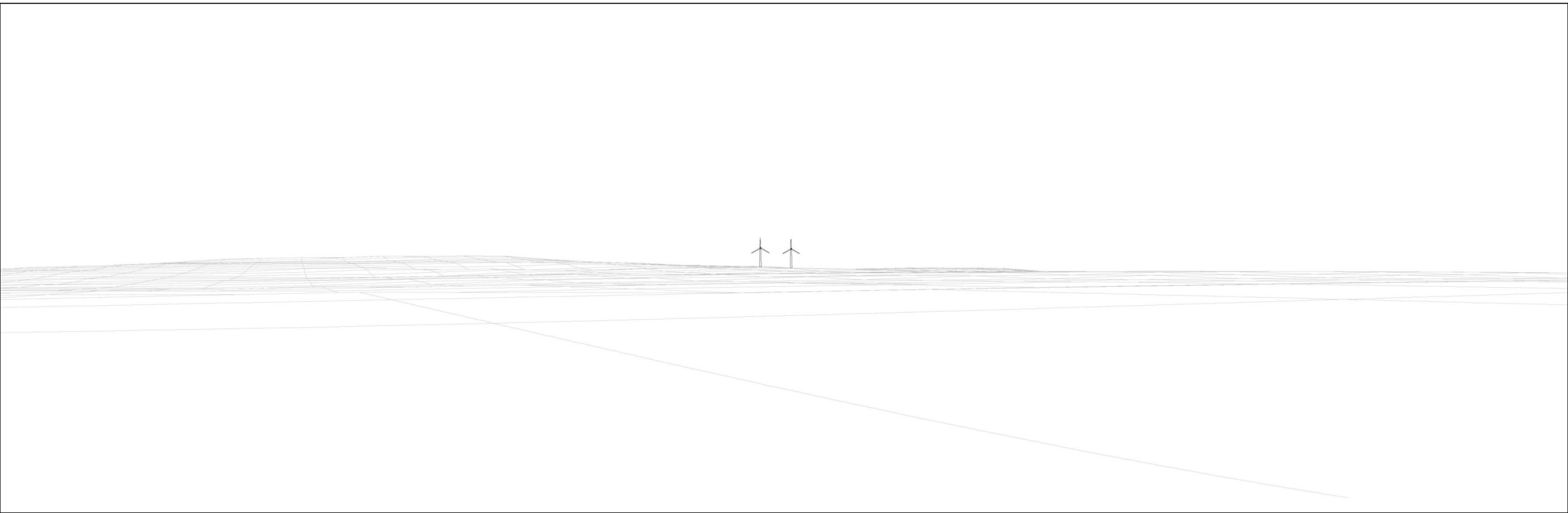
Document Number: **CO118-183/Fig 7.15**
 Version: **1.0**
 Author: **SS**
 Checked by: **RC**
 Approved By: **GM**
 Date: **10/01/2014**



VP04 MINOR ROAD NEAR WOODVILLE - PHOTOGRAPH OF EXISTING VIEW



VP04 MINOR ROAD NEAR WOODVILLE - WIRELINE DRAWING



VP04 MINOR ROAD NEAR WOODVILLE - PHOTOMONTAGE OF PROPOSAL

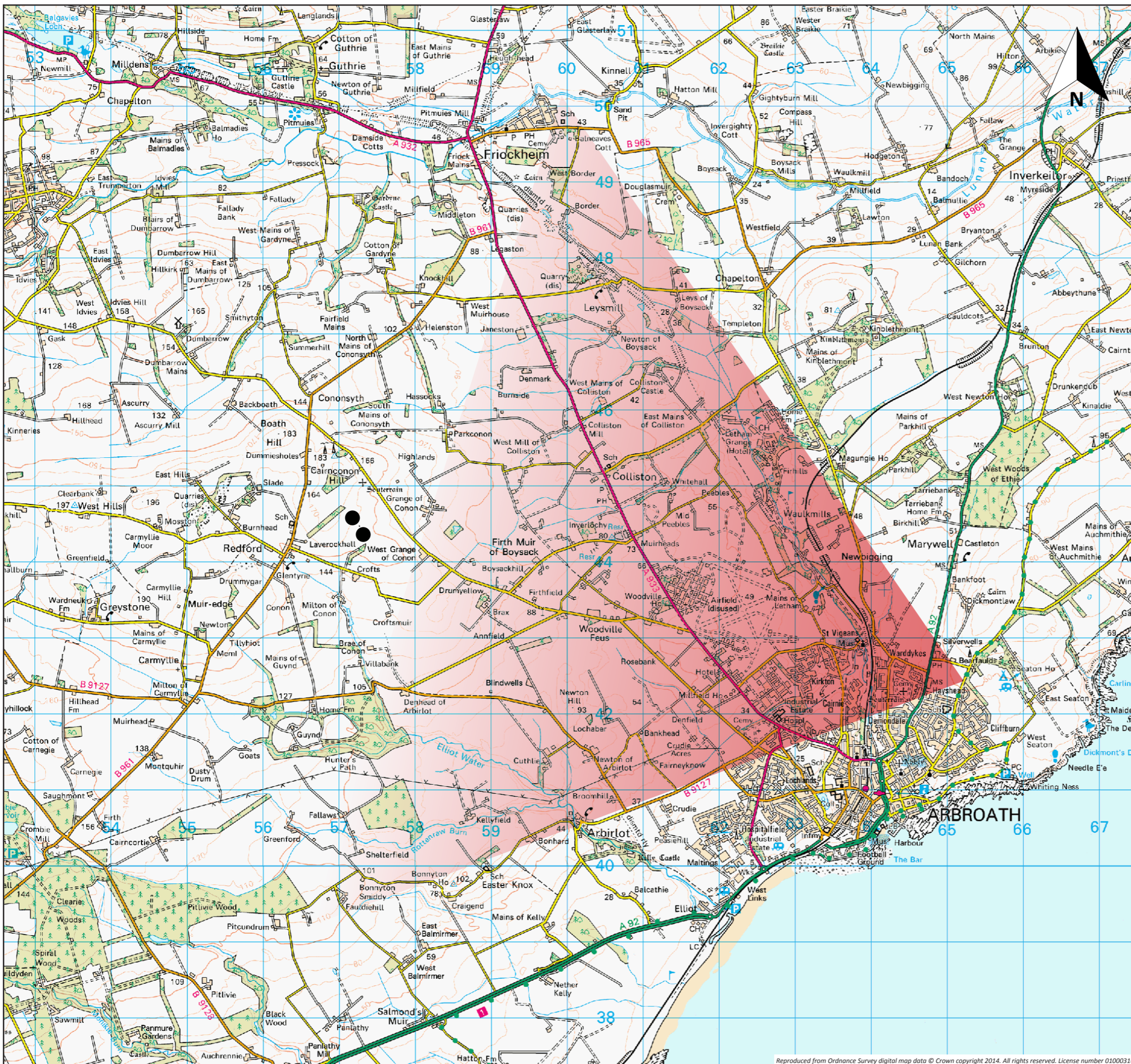
**76° VIEWING ANGLE
300MM VIEWING DISTANCE**



VP04 MINOR ROAD NEAR WOODVILLE – 70MM PHOTOMONTAGE OF PROPOSAL



26° VIEWING ANGLE 500MM VIEWING DISTANCE




Project Name: **Crofts Farm Wind Turbines**

Document Title: **VP05 - Arbroath**

Scale: **1:50,000 @ A3**

Key:
 Proposed Turbine Locations

 76° Field of View

Viewpoint Information

Viewpoint Location: **E365197 N742431**
 Viewpoint Elevation: **51m (A.O.D)**
 View Direction: **281°**
 Distance to Turbine: **8.1km**

Visibility: **11 Projects**

Camera Type: **Nikon D3100**
 Focal Length: **35mm**
 Effective Focal Length: **54.6mm**
 Date Taken: **30/01/2013**
 Time Taken: **14:11**
 Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**
 Magnitude: **Low**
 Overall: **Moderate**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: **Crofts Farm Renewables Ltd.**

Drawing by: **Green Cat Renewables Ltd**

Document Number: **CO118-183/Fig 7.16**
 Version: **1.0**
 Author: **SS**
 Checked by: **RC**
 Approved By: **GM**
 Date: **10/01/2014**



VP05 ARBROATH - PHOTOGRAPH OF EXISTING VIEW



VP05 ARBROATH - WIRELINE DRAWING

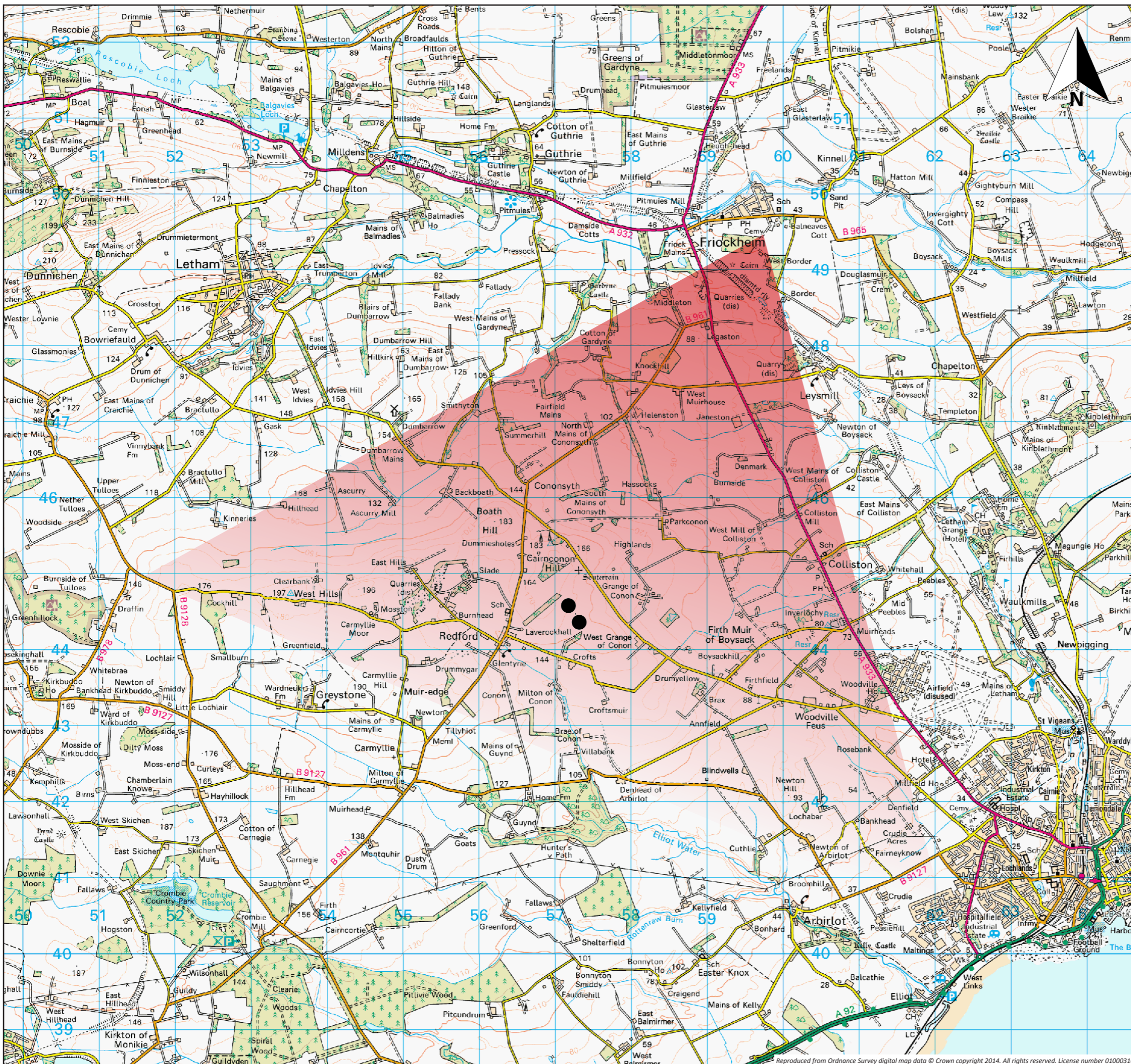




VP05 ARBROATH – 70MM PHOTOMONTAGE OF PROPOSAL



26° VIEWING ANGLE 500MM VIEWING DISTANCE




Project Name: Crofts Farm Wind Turbines

Document Title: VP06 - Frioekheim

Scale: 1:50,000 @ A3

Key:
 Proposed Turbine Locations

 76° Field of View

Viewpoint Information

Viewpoint Location: **E359814 N749591**
 Viewpoint Elevation: **46m (A.O.D)**
 View Direction: **206°**
 Distance to Turbine: **5.7km**

Visibility: **3 Projects**

Camera Type: **Nikon D3100**
 Focal Length: **35mm**
 Effective Focal Length: **54.6mm**
 Date Taken: **16/08/2013**
 Time Taken: **12:29**
 Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**
 Magnitude: **Low**
 Overall: **Moderate**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: Crofts Farm Renewables Ltd.

Drawing by: Green Cat Renewables Ltd

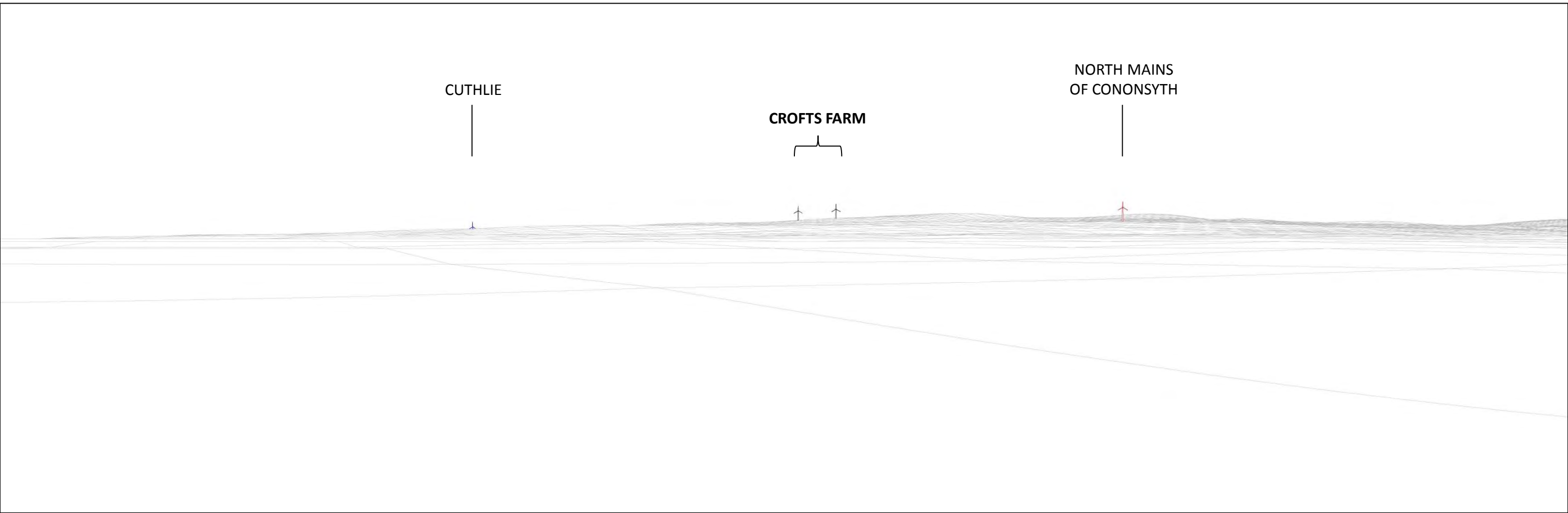
Document Number: **CO118-183/Fig 7.17**
 Version: **1.0**
 Author: **SS**
 Checked by: **RC**
 Approved By: **GM**
 Date: **10/01/2014**



VP06 FRIOCKHEIM - PHOTOGRAPH OF EXISTING VIEW

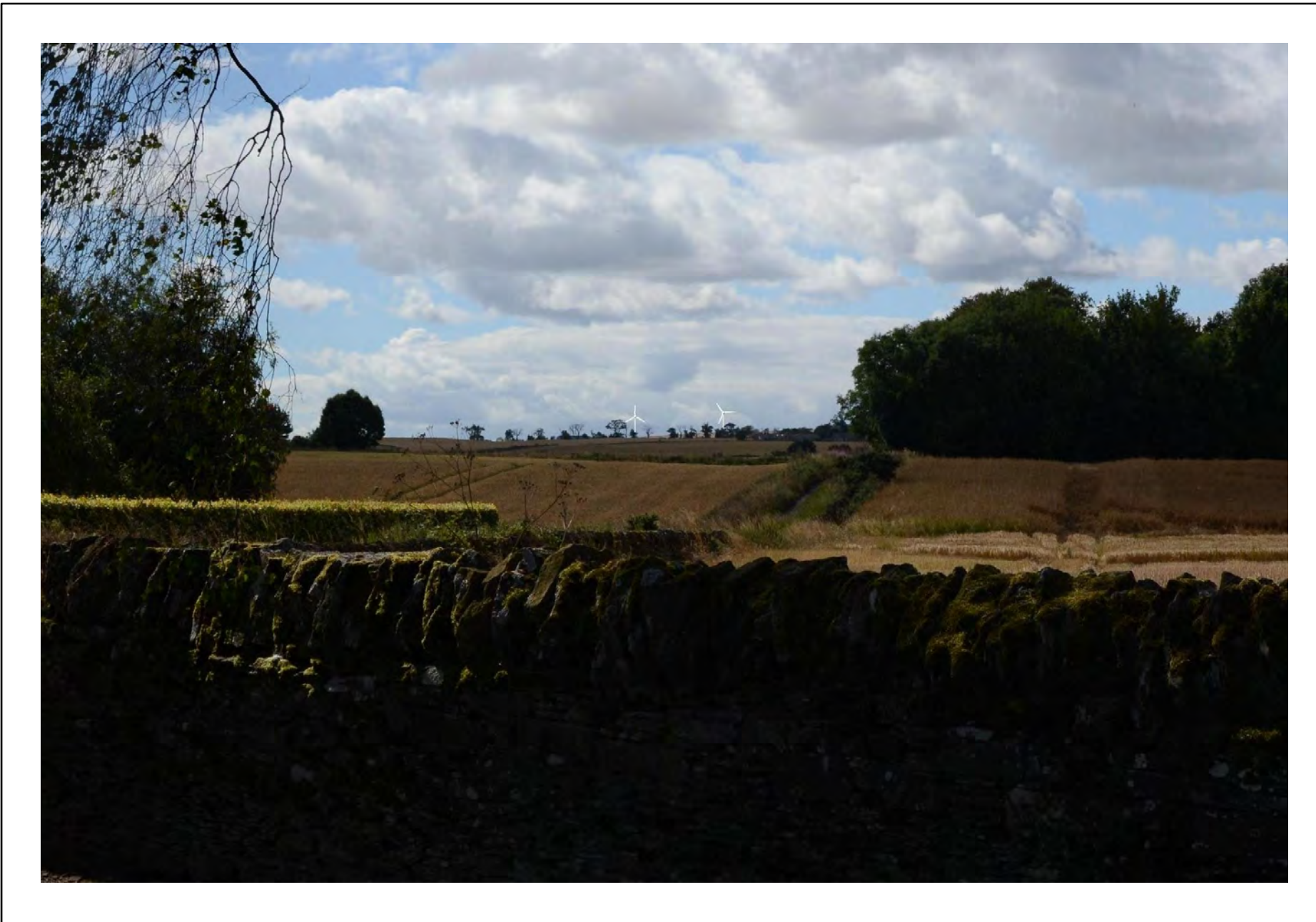


VP06 FRIOCKHEIM - WIRELINE DRAWING

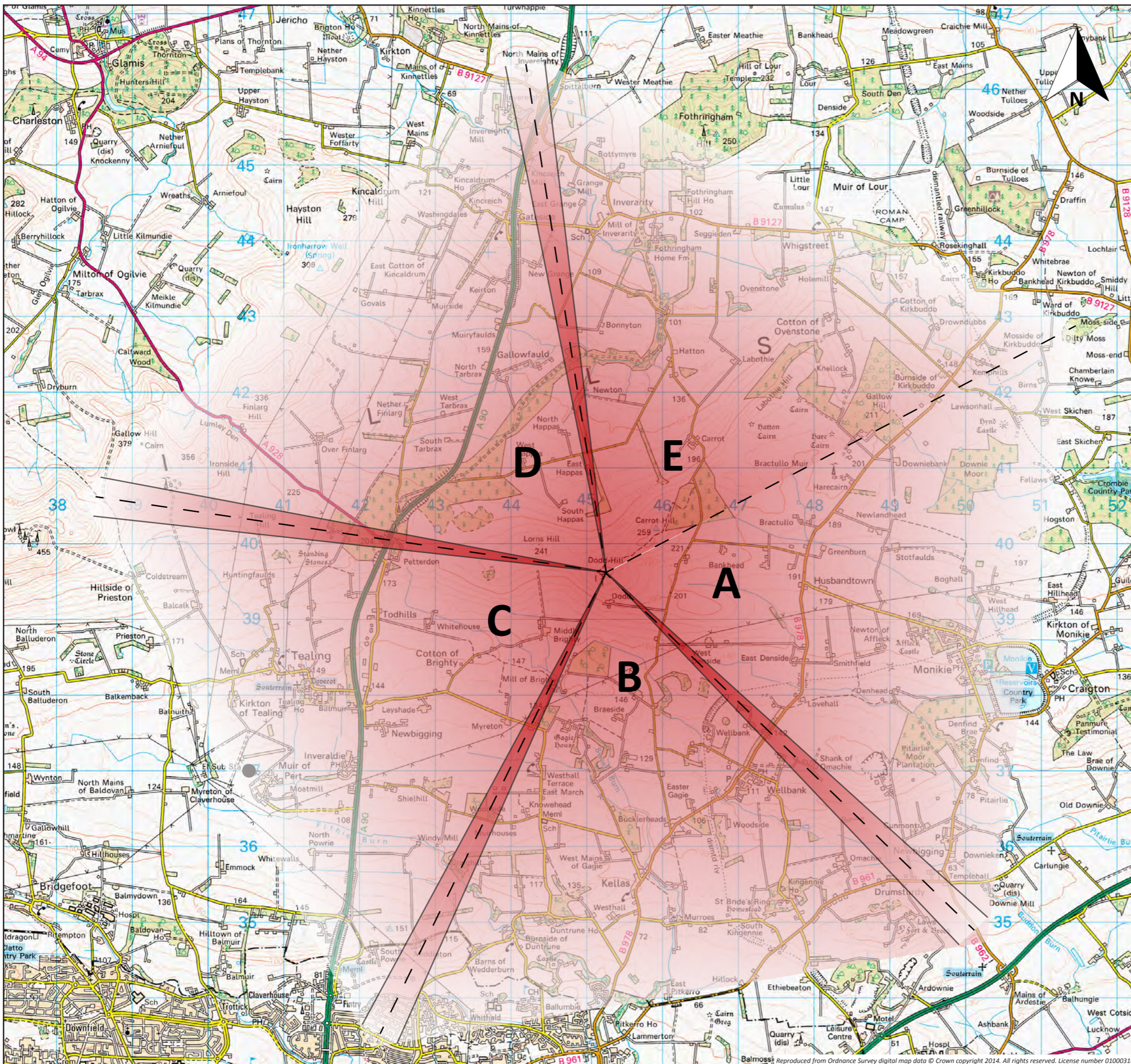




VP06 FRIOCKHEIM – 70MM PHOTOMONTAGE OF PROPOSAL



26° VIEWING ANGLE 500MM VIEWING DISTANCE


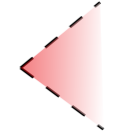



Project Name: Crofts Farm Wind Turbines

Document Title: VP07 - Dodd Hill

Scale: 1:50,000 @ A3

Key:

-  Proposed Turbine Locations
-  76° Field of View
-  5° Overlap

Viewpoint Information

Viewpoint Location: **E345256 N739618**
 Viewpoint Elevation: **251m (A.O.D)**
 View Direction: **A. 93° B. 164° C. 235°
 D. 306° E. 17°**
 Distance to Turbine: **12.9km**
 Visibility: **A. 8 Projects B. 1 Project
 C. 4 Projects D. 2 Projects
 E. 16 Projects**

Camera Type: **Nikon D70s**
 Focal Length: **35mm**
 Effective Focal Length: **53.4 mm**
 Date Taken: **01/11/2008**
 Time Taken: **14:00**
 Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**
 Magnitude: **Negligible**
 Overall: **Moderate/Minor**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: **Crofts Farm Renewables Ltd.**

Drawing by: **Green Cat Renewables Ltd**

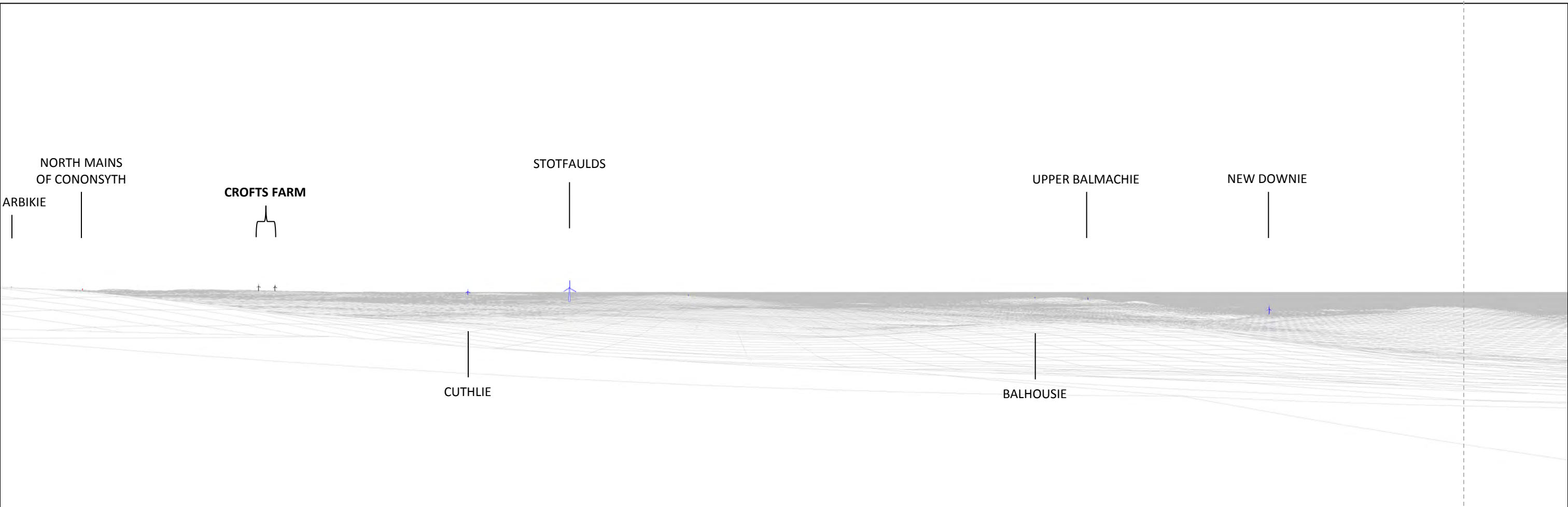
Document Number: **CO118-183/Fig 7.18**
 Version: **1.0**
 Author: **SS**
 Checked by: **RC**
 Approved By: **GM**
 Date: **10/01/2014**



VP07A DODD HILL - PHOTOGRAPH OF EXISTING VIEW



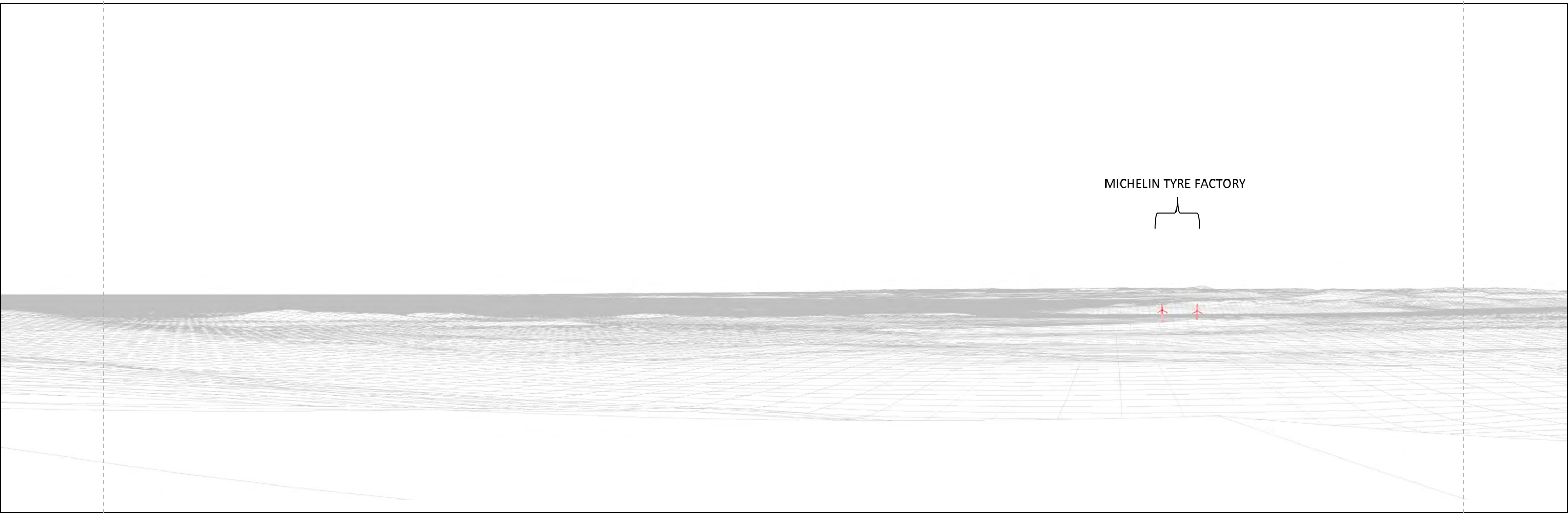
VP07A DODD HILL - WIRELINE DRAWING



VP07B DODD HILL - PHOTOGRAPH OF EXISTING VIEW



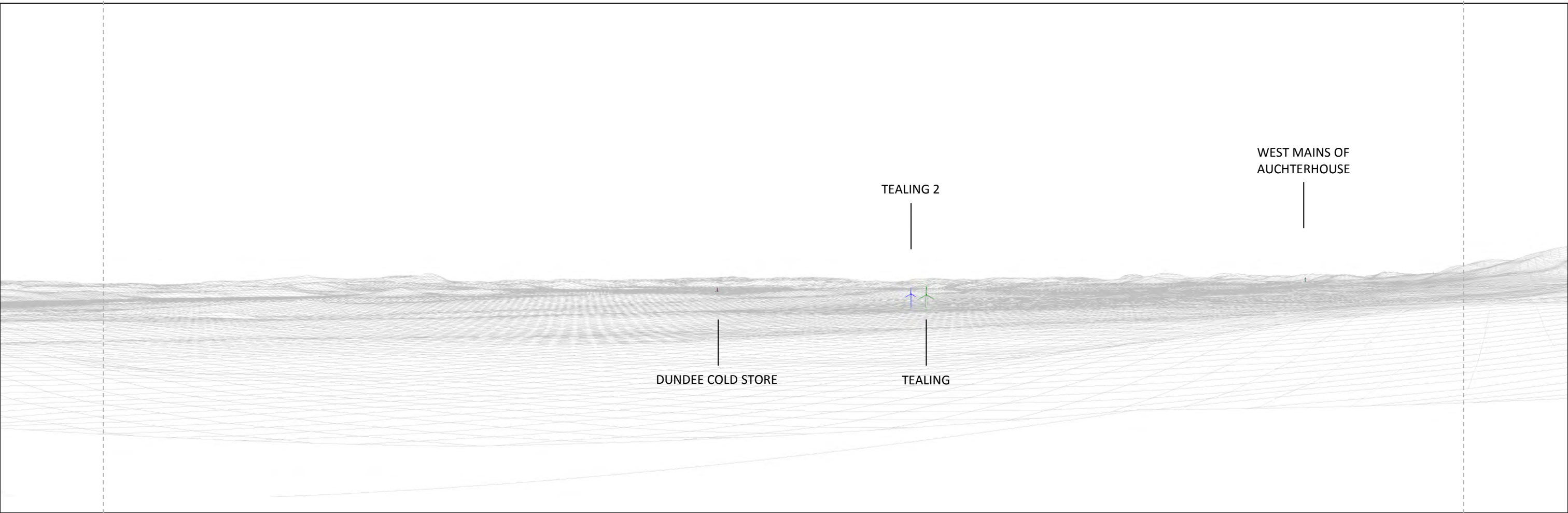
VP07B DODD HILL - WIRELINE DRAWING



VP07C DODD HILL - PHOTOGRAPH OF EXISTING VIEW



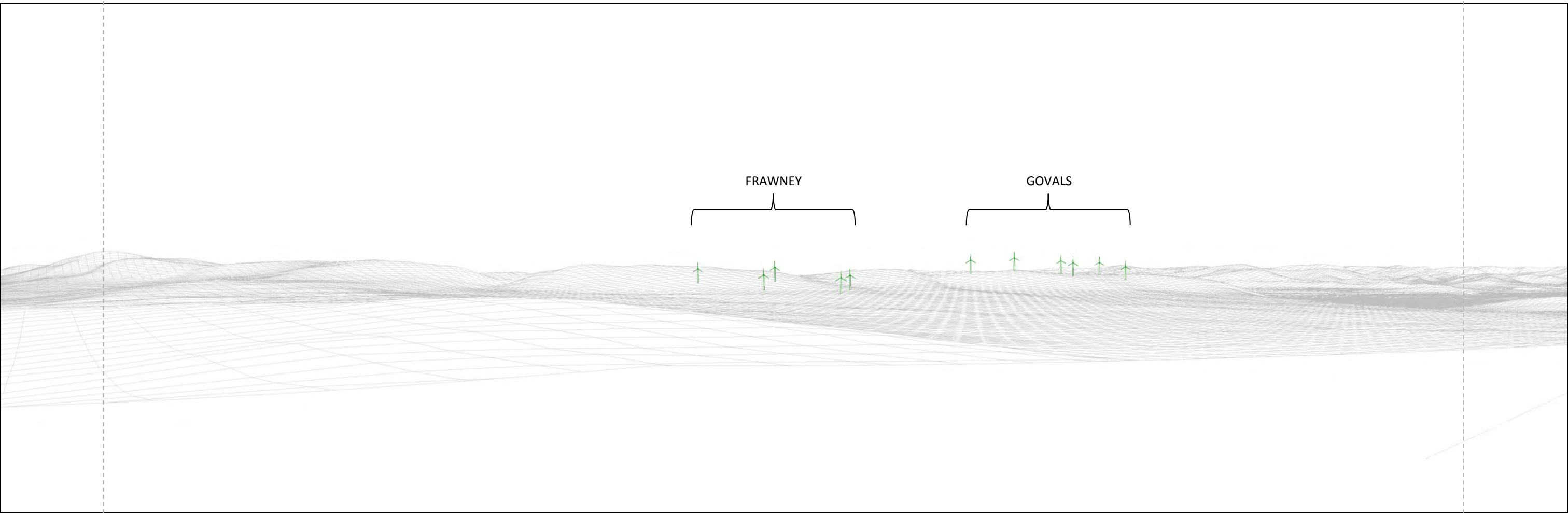
VP07C DODD HILL - WIRELINE DRAWING



VP07D DODD HILL - PHOTOGRAPH OF EXISTING VIEW



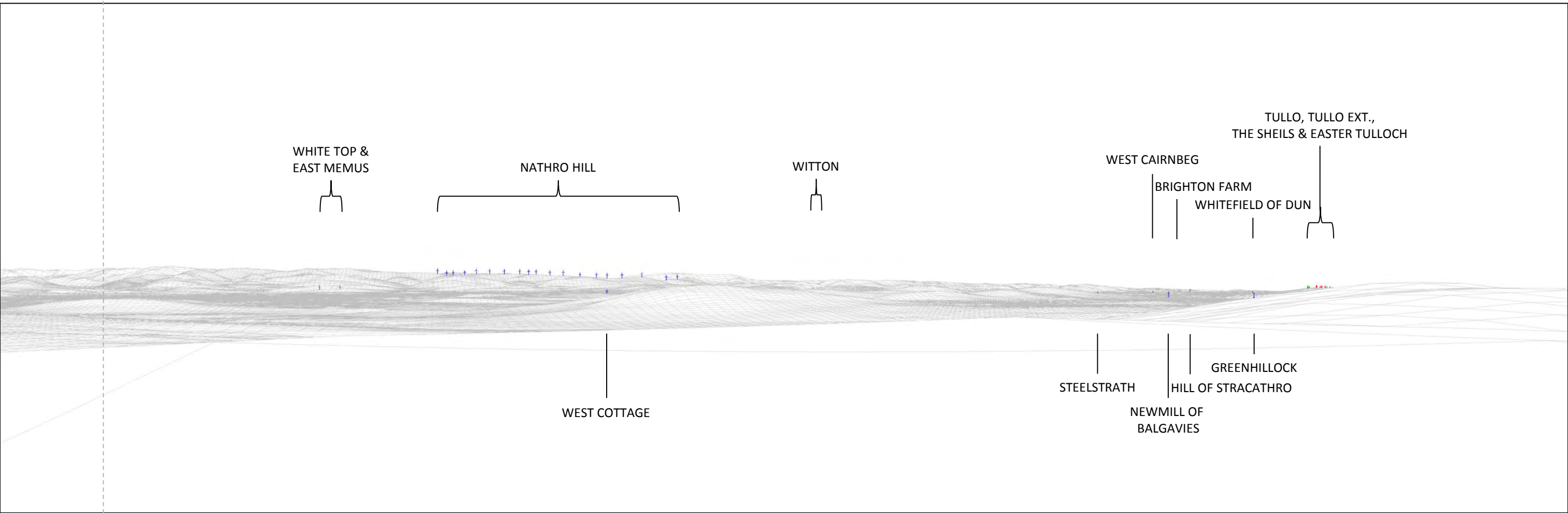
VP07D DODD HILL - WIRELINE DRAWING

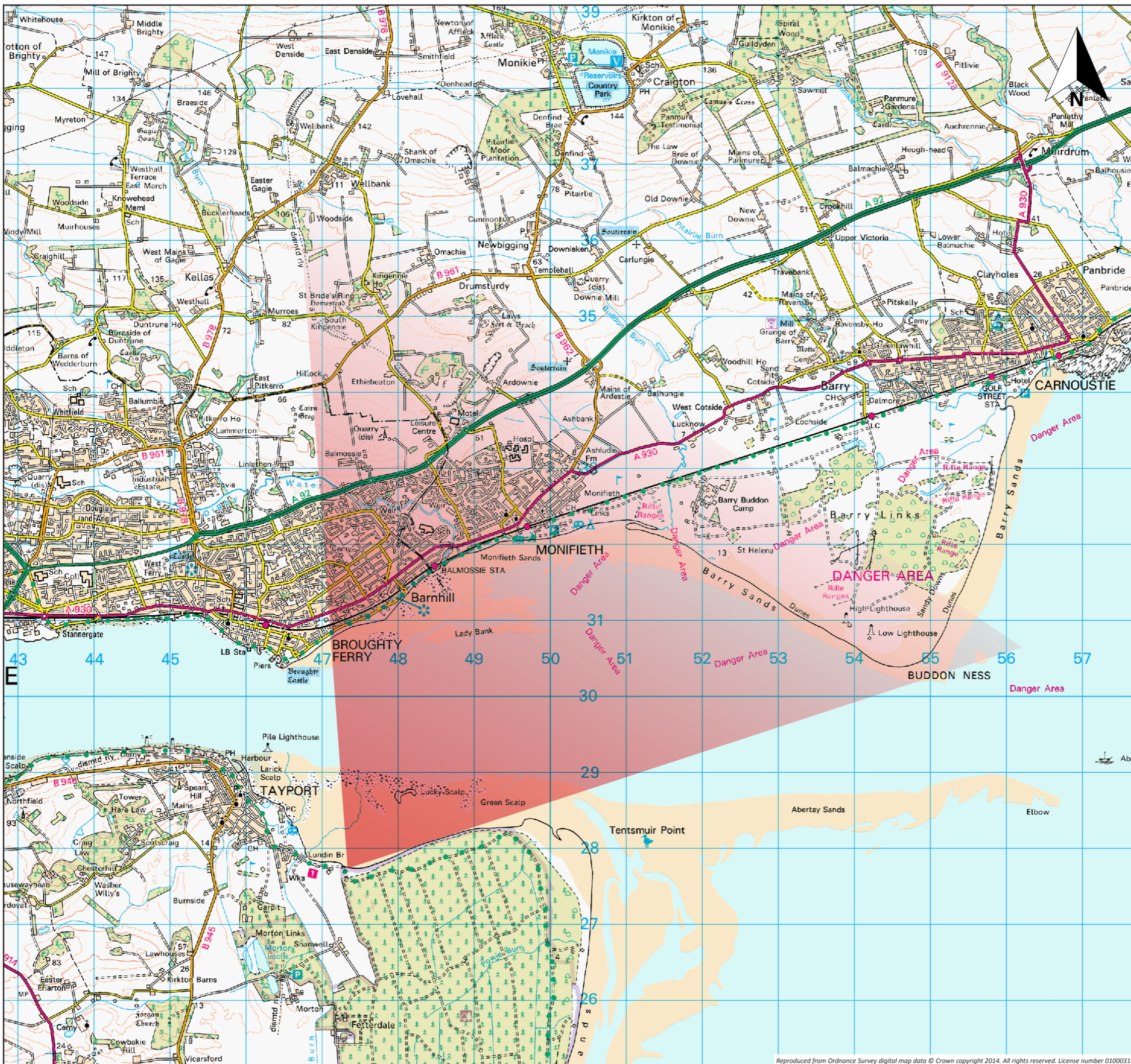


VP07E DODD HILL - PHOTOGRAPH OF EXISTING VIEW



VP07E DODD HILL - WIRELINE DRAWING






Project Name: **Crofts Farm Wind Turbines**

Document Title: **VP08 - Tentsmuir**

Scale: **1:50,000 @ A3**

Key:
 Proposed Turbine Locations

 76° Field of View

Viewpoint Information

Viewpoint Location: **E347170 N727786**

Viewpoint Elevation: **1m (A.O.D)**

View Direction: **34°**

Distance to Turbine: **19.5km**

Visibility: **6 Projects**

Camera Type: **Pentax K100D**

Focal Length: **35mm**

Effective Focal Length: **53.4mm**

Date Taken: **29/10/2009**

Time Taken: **14:53**

Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**

Magnitude: **Negligible**

Overall: **Moderate/Minor**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: **Crofts Farm Renewables Ltd.**

Drawing by: **Green Cat Renewables Ltd**

Document Number: **CO118-183/Fig 7.19**

Version: **1.0**

Author: **SS**

Checked by: **RC**

Approved By: **GM**

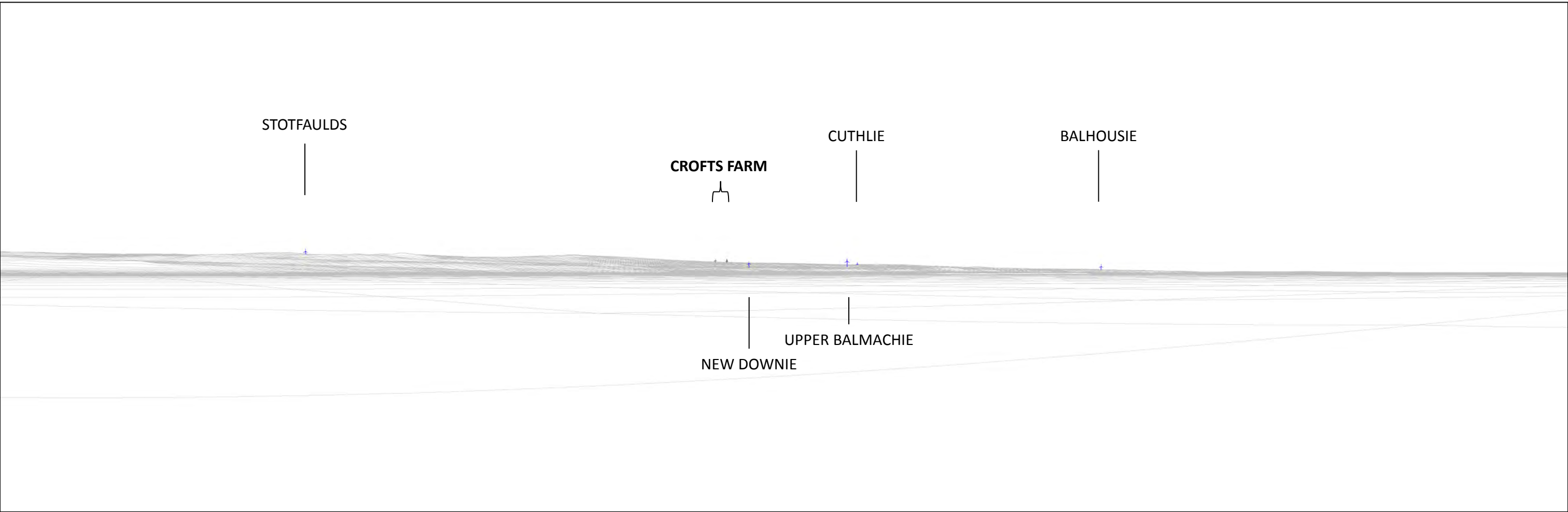
Date: **10/01/2014**

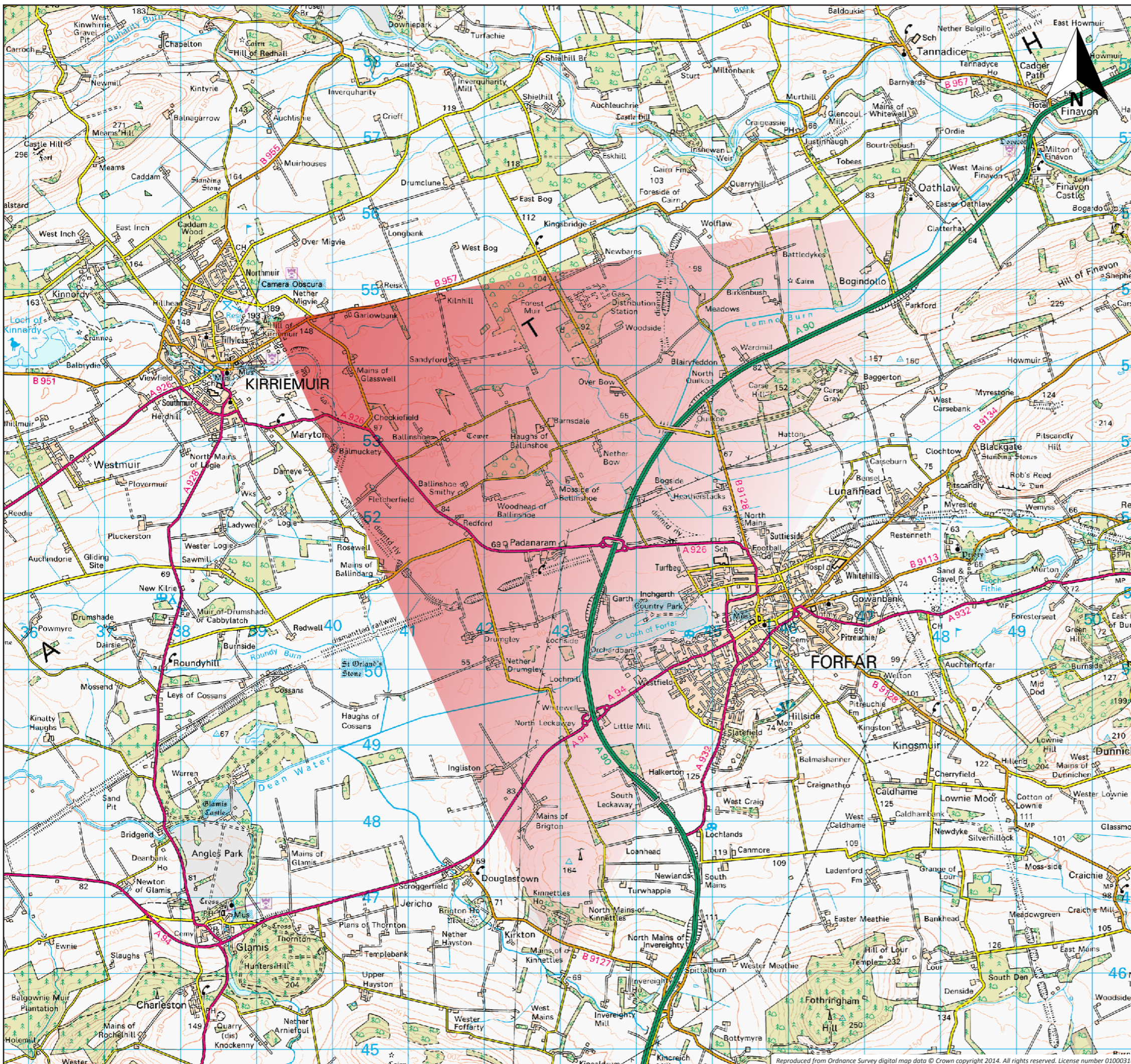


VP08 TENTSMUIR - PHOTOGRAPH OF EXISTING VIEW



VP08 TENTSMUIR - WIRELINE DRAWING






Project Name: **Crofts Farm Wind Turbines**

Document Title: **VP09 - Kirriemuir Hill**

Scale: **1:50,000 @ A3**

Key:
 Proposed Turbine Locations

 76° Field of View

Viewpoint Information

Viewpoint Location: **E339173 N754591**
 Viewpoint Elevation: **174m (A.O.D)**
 View Direction: **109°**
 Distance to Turbine: **20.6km**

Visibility: **12 Projects**

Camera Type: **Nikon D70S**
 Focal Length: **35mm**
 Effective Focal Length: **53.4mm**
 Date Taken: **26/07/2011**
 Time Taken: **13:08**
 Height above elevation: **1.5m**

Visual Impact

Sensitivity: **High**
 Magnitude: **Negligible**
 Overall: **Moderate/Minor**

Please note for a 76° field of view, a viewing distance of 300mm is recommended.

Client: **Crofts Farm Renewables Ltd.**

Drawing by: **Green Cat Renewables Ltd**

Document Number: **CO118-183/Fig 7.20**
 Version: **1.0**
 Author: **SS**
 Checked by: **RC**
 Approved By: **GM**
 Date: **10/01/2014**



VP09 KIRRIEMUIR HILL - PHOTOGRAPH OF EXISTING VIEW



VP09 KIRRIEMUIR HILL - WIRELINE DRAWING

