

Cumulative Wind Energy Schemes:

- 1 - Bicker Fen
- 2 - Billingborough
- 3 - Neslam's Farm
- 4 - Ings Lane
- 5 - Holbeach Marsh
- 6 - Baumber
- 7 - Gedney Marsh (Red House)
- 8 - Vine House Farm
- 9 - Deeping St Nicholas
- 10 - Noble Foods Beckingham
- 11 - The Hollies
- 12 - The Grange
- 13 - Orby Marsh (3rd Application)
- 14 - Orby Marsh (2nd Application)
- 15 - Treading
- 16 - French Farm
- 17 - Orby Marsh (Resubmission)
- 18 - Thackson's Well Farm
- 19 - Palmers Hollow
- 20 - Morris Fen
- 21 - Woolfox Airfield
- 22 - Wryde Croft (Resubmission)
- 23 - Nutsgrove Farm
- 24 - Langham
- 25 - Grange Farm
- 26 - Bambers Farm I
- 27 - Bambers Farm II
- 28 - Mablethorpe
- 29 - WW Steadfold Lane
- 30 - Third Drove Sewage Works (Flag Fen)
- 31 - Lyn & Inner Dowsing
- 32 - McCains Foods
- 33 - Whittlesey
- 34 - Marshland St James
- 35 - Lincs
- 36 - Long Hill Road
- 37 - Coldham Extension
- 38 - Hockerton Community Turbine
- 39 - Foundry Way
- 40 - March Landfill Site
- 41 - Conisholme Fen (Resubmission)
- 42 - Queen Elizabeth Hospital
- 43 - Coldham
- 44 - March Sewage Works
- 45 - Stags Holt
- 46 - Stags Holt (Extension)
- 47 - Floods Ferry
- 48 - Burnthouse Farm
- 49 - Cottam
- 50 - Glass Moor
- 51 - Walker & Sons (Hauliers)
- 52 - Asfordby
- 53 - Old Bilsthorpe Colliery (Resubmission)
- 54 - Boardinghouse Farm
- 55 - Crow Holt
- 56 - Ransomoor Farm
- 57 - Stoke Bardolph Farm
- 58 - Stonish Hill
- 59 - Newton Marsh Treatment Works
- 60 - Dalby
- 61 - Ramsey Repowering
- 62 - Ellands Farm
- 63 - Chiplow
- 64 - Laughton (Resubmission)
- 65 - Red Tile
- 66 - Novartis Renewable Energy Project
- 67 - Lindhurst
- 68 - Hallaton
- 69 - Queniborough
- 70 - Stallingborough
- 71 - Barnwell Manor
- 72 - B&Q Manton Wood
- 73 - N. Elsham Industrial Estate
- 74 - Docking Shoal
- 75 - Elsham Wold
- 76 - Severn Trent Sewage Treatment Works
- 77 - Brush Falcon Works (DeWind)
- 78 - Eco Tech Centre

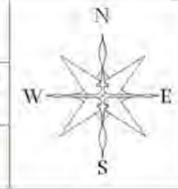
Legend

- Site Location
- 10km Distance Bands
- UK Wind Farms**
- Consented
- In Planning
- Withdrawn
- Operational
- At Appeal
- Refused
- Pre-Planning
- Mast

Drawn by

Checked by

Approved by



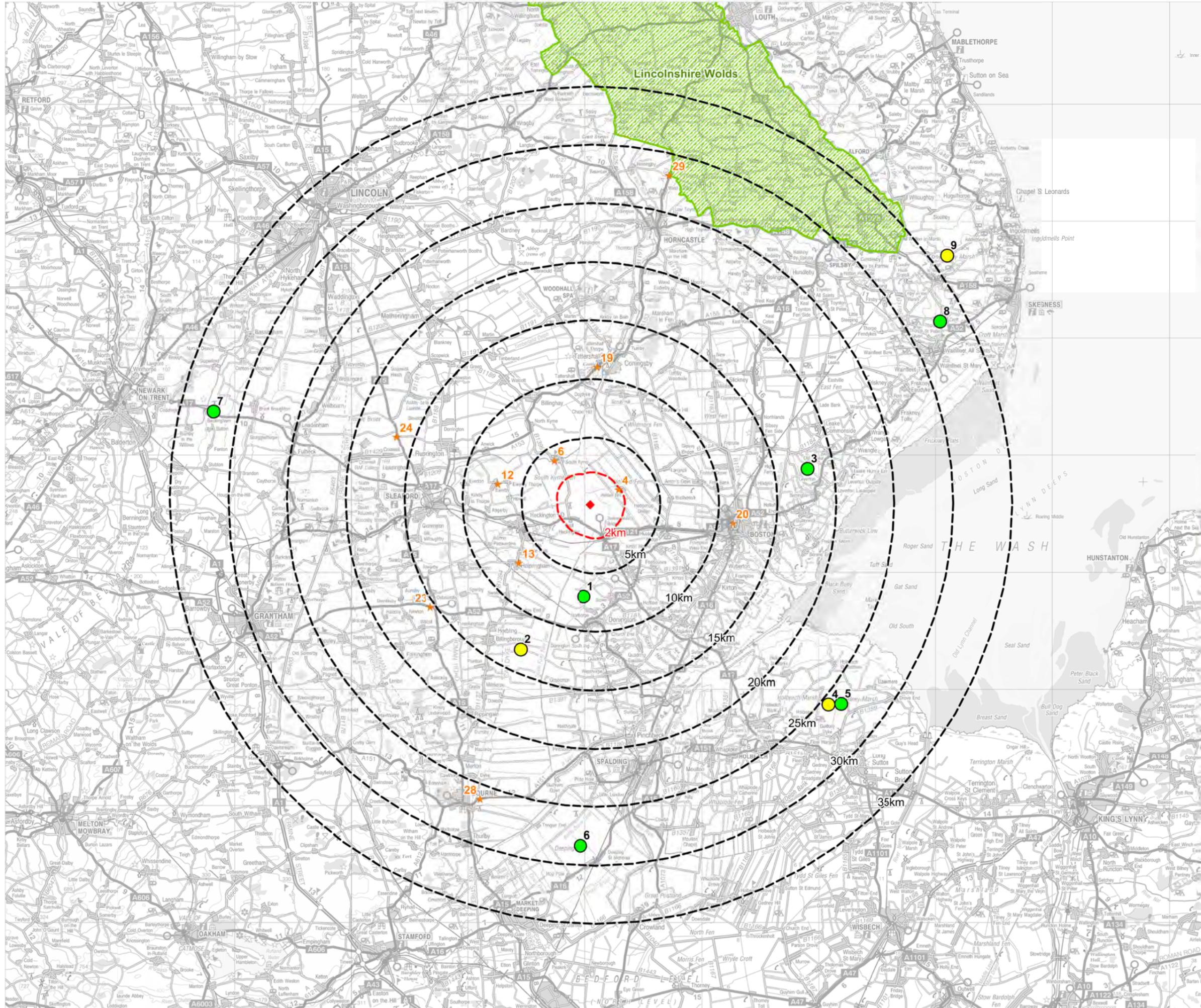
Document Number: 4038_T0255_02

Date: June 2011

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Figure: 5.12a
Title: Cumulative Assessment
Area of Search (70km)

Heckington Fen Wind Park
Environmental Statement



Legend

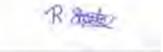
-  Site Location
-  2km Distance Band
-  5km Distance Bands
-  Cumulative Wireline Location:
- 4 - Amber Hill, Sutterton Drive
- 6 - South Kyme
- 12 - Ewerby, Clay Pit Lane (junction with Thorpe Road)
- 13 - Helpringham, B1394
- 19 - Tattershall Castle, Tattershall
- 20 - Boston Stump, (St Botolph's Church)
- 23 - A52, approaching A15 intersection near Osbourneby
- 24 - A15 near Cranwel (junction with Westcliffe Road)
- 28 - A151, Bourne
- 29 - A153, Foxendale Hill

 Area of Outstanding Natural Beauty

Wind Farm:

-  Operational
-  In Planning
- 1 - Bicker Fen
- 2 - Billingborough
- 3 - Ings Lane
- 4 - Holbeach Marsh
- 5 - Gedney Marsh (Red House)
- 6 - Deeping St Nicholas (Vine House Farm)
- 7 - Noble Foods Beckingham
- 8 - The Hollies
- 9 - Orby Marsh (Resubmission)

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Approved by 



Document Number: 4038_T0353_01

Date: July 2011

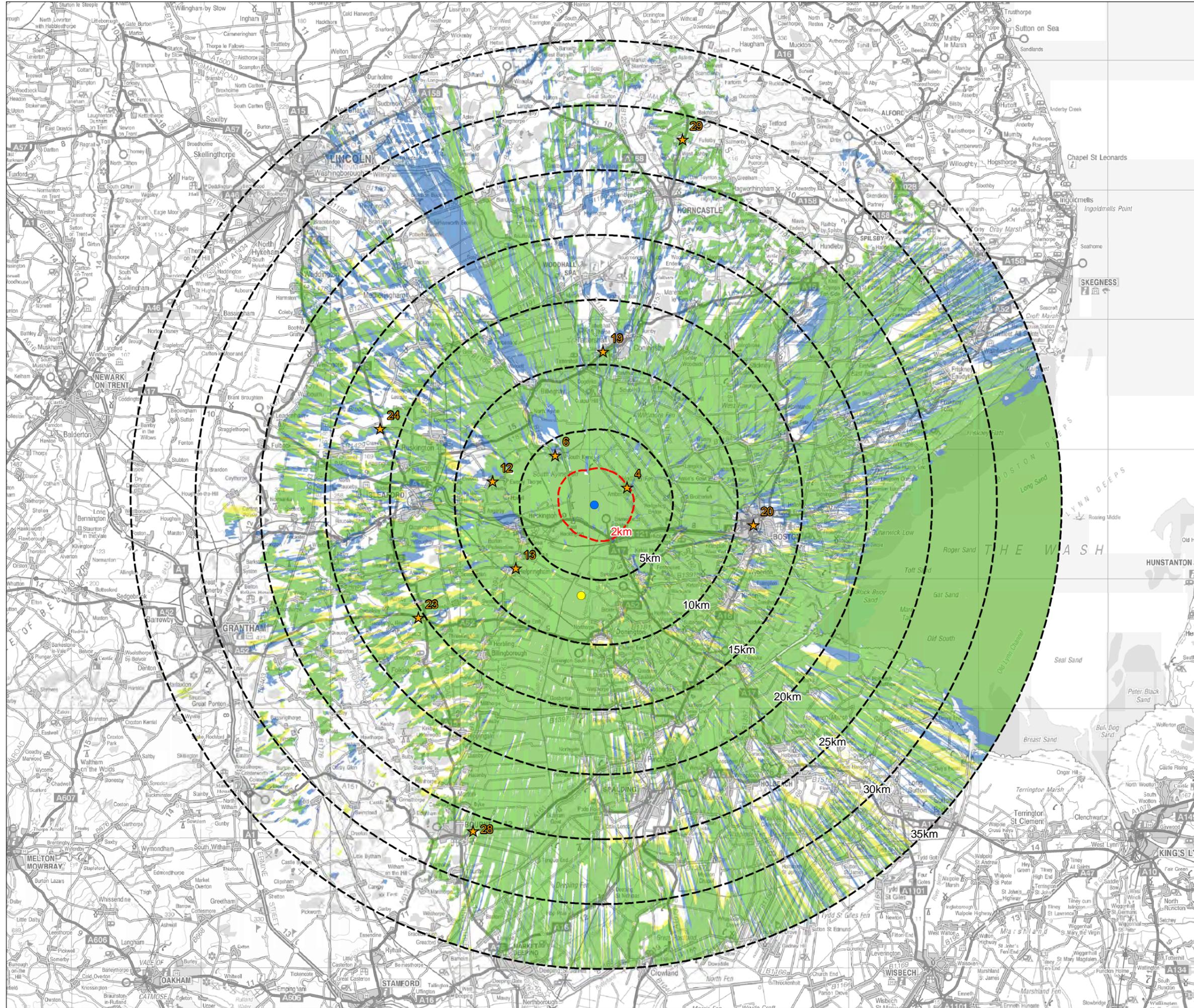
Scale: 1: 300,000 @ A3

Figure: 5.12b
Title: Cumulative Assessment Schemes
Study Area (35km)

Heckington Fen Wind Park
Environmental Statement

Legend

- Heckington Fen Wind Park
- Bicker Fen Wind Farm
- 2km Distance Band
- 5km Distance Bands
- Visibility to Heckington Fen
- Visibility to Bicker Fen
- Visibility to Heckington Fen and Bicker Fen
- ★ Cumulative Wireline Location



Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

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Checked by		
Approved by		

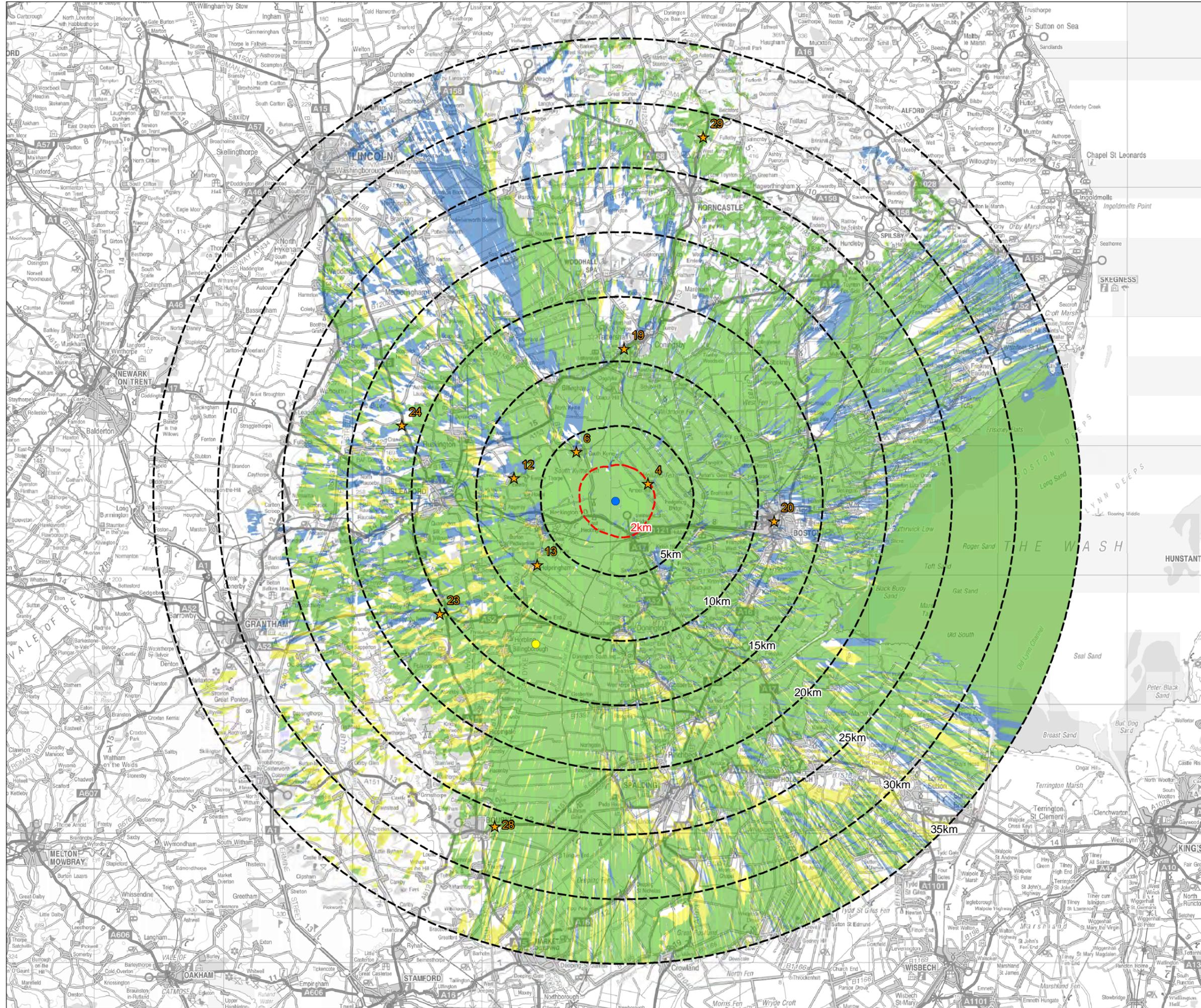
Document Number: 4038_T0287_01

Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13a
Title: Cumulative ZTV Assessment to Blade Tip Bicker Fen Wind Farm - Including Screening

Heckington Fen Wind Park
Environmental Statement

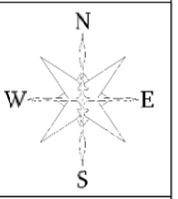


- Legend**
- Heckington Fen Wind Park
 - Billingborough Wind Farm
 - 2km Distance Band
 - 5km Distance Bands
 - Visibility to Heckington Fen
 - Visibility to Billingborough
 - Visibility to Heckington Fen and Billingborough
 - ★ Cumulative Wireline Location

Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

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Approved by



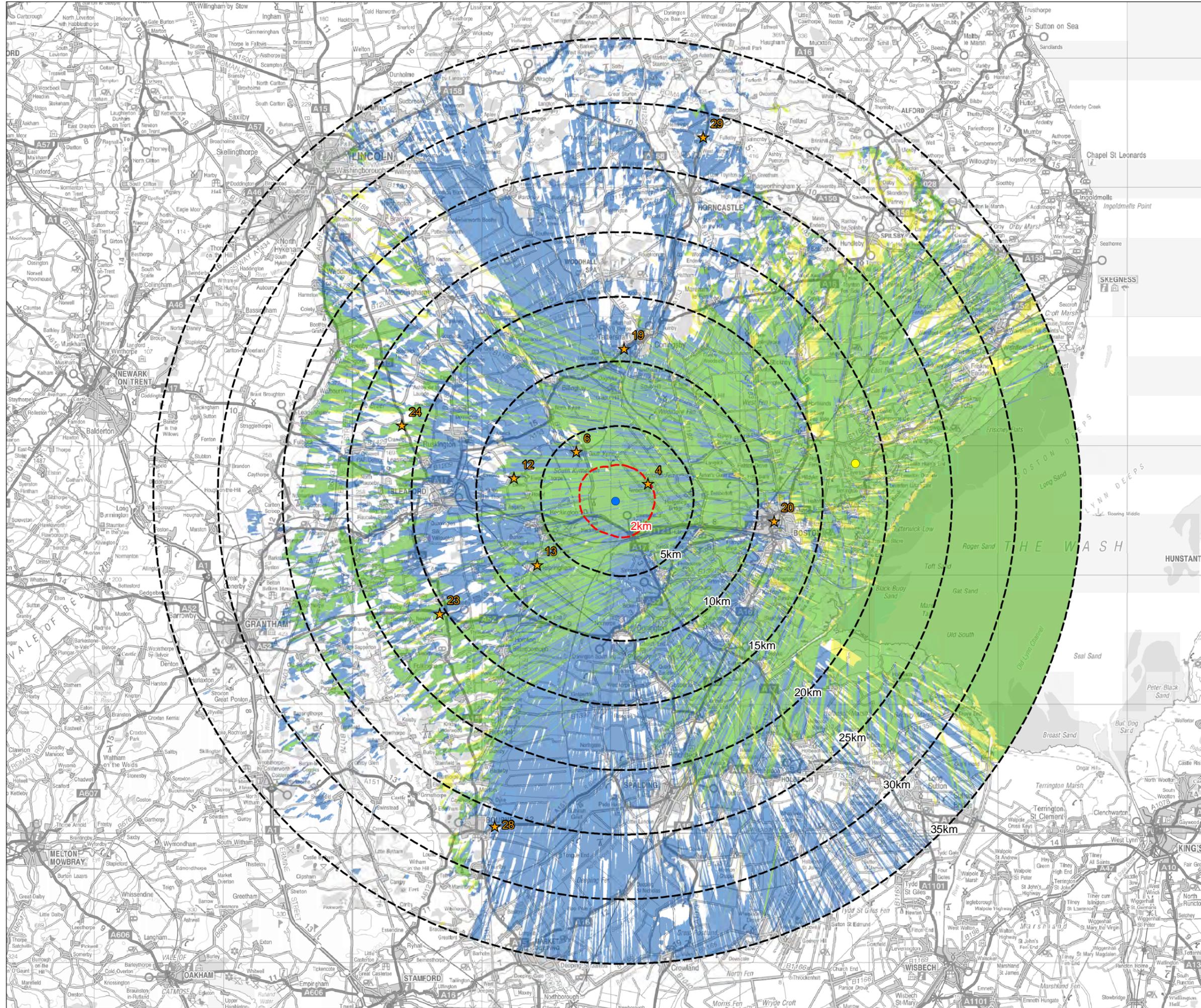
Document Number: 4038_T0288_01

Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13b
Title: Cumulative ZTV Assessment to Blade Tip Billingborough Wind Farm - Including Screening

Heckington Fen Wind Park
Environmental Statement



- Legend**
- Heckington Fen Wind Park
 - Ings Lane Wind Farm
 - 2km Distance Band
 - 5km Distance Bands
 - Visibility to Heckington Fen
 - Visibility to Ings Lane
 - Visibility to Heckington Fen and Ings Lane
 - ★ Cumulative Wireline Location

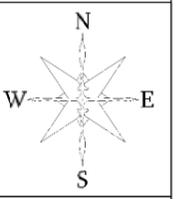
Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

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Document Number: 4038_T0289_01

Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13c
Title: Cumulative ZTV Assessment to Blade Tip Ings Lane Wind Farm - Including Screening

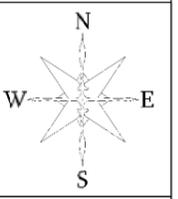
Heckington Fen Wind Park
Environmental Statement

- Legend**
- Heckington Fen Wind Park
 - Gedney Marsh (Red House) and Holbeach Wind Farms
 - 2km Distance Band
 - 5km Distance Bands
 - Visibility to Heckington Fen
 - Visibility to Gedney Marsh (Red House) and Holbeach
 - Visibility to Heckington Fen and Gedney Marsh (Red House) and Holbeach
 - ★ Cumulative Wireline Location

Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

Drawn by
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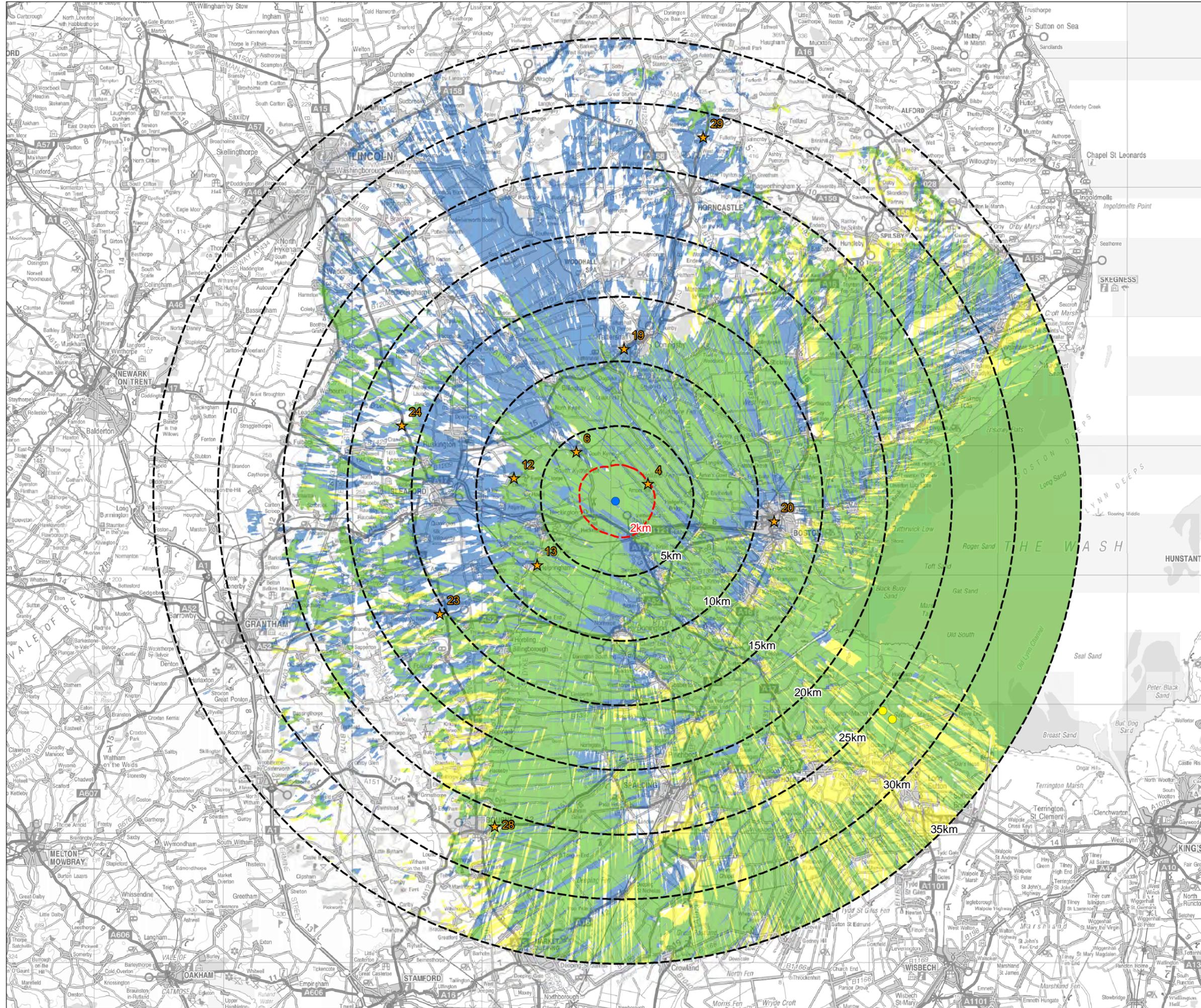
Document Number: 4038_T0290_01

Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13d
Title: Cumulative ZTV Assessment to Blade Tip Gedney Marsh (Red House) and Holbeach Wind Farms - Including Screening

Heckington Fen Wind Park
Environmental Statement



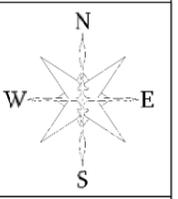
Legend

- Heckington Fen Wind Park
- Deeping St Nicholas Wind Farm (Vine House Farm)
- 2km Distance Band
- 5km Distance Bands
- Visibility to Heckington Fen
- Visibility to Deeping St Nicholas (Vine House Farm)
- Visibility to Heckington Fen and Deeping St Nicholas (Vine House Farm)
- ★ Cumulative Wireline Location

Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

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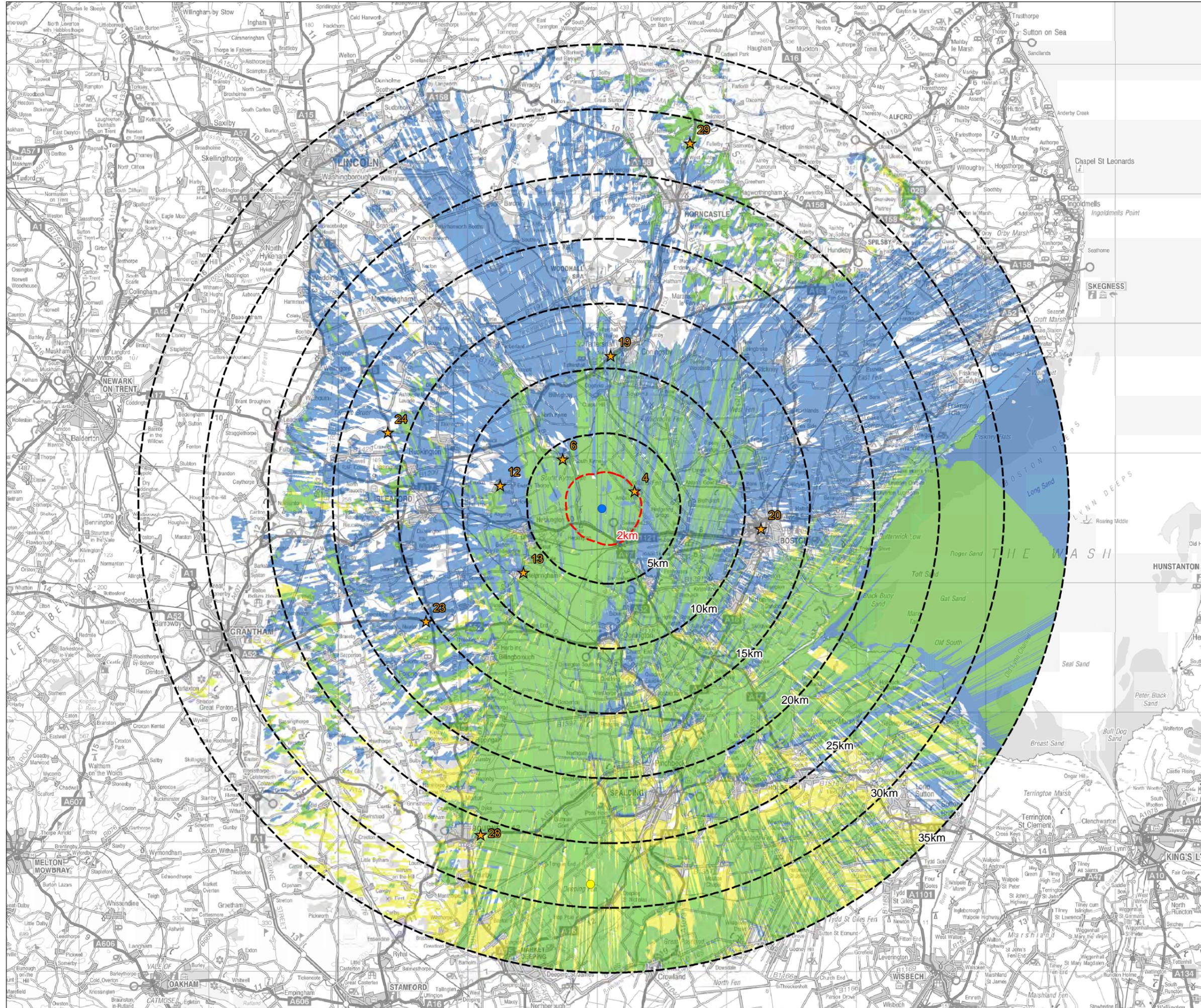
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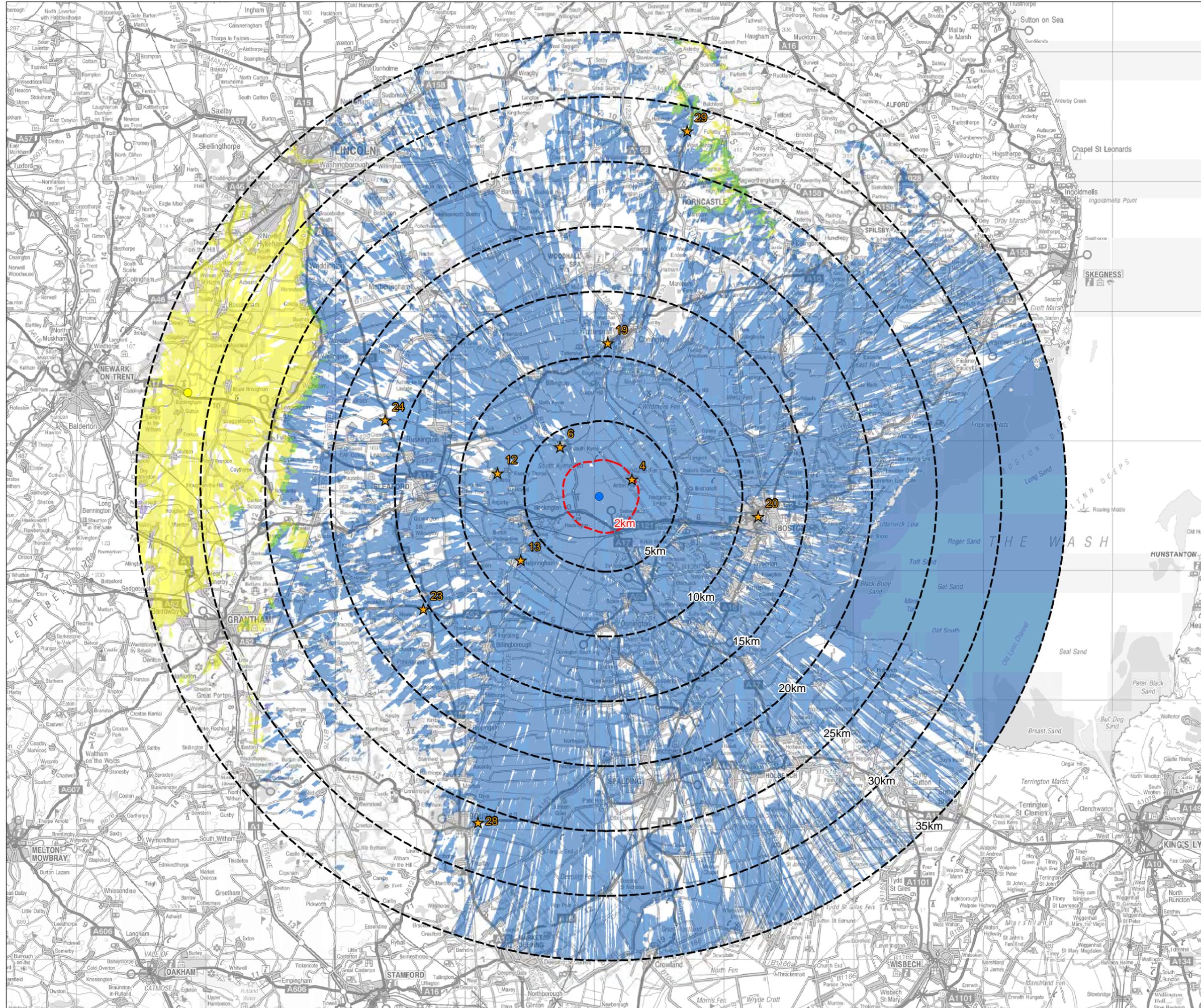
Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13e
Title: Cumulative ZTV Assessment to Blade Tip Deeping St Nicholas Wind Farm (Vine House Farm) - Including Screening

Heckington Fen Wind Park
Environmental Statement





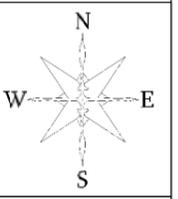
Legend

- Heckington Fen Wind Park
- Noble Foods (Beckingham) Wind Turbines
- 2km Distance Band
- 5km Distance Bands
- Visibility to Heckington Fen
- Visibility to Noble Foods (Beckingham)
- Visibility to Heckington Fen and Noble Foods (Beckingham)
- ★ Cumulative Wireline Location

Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

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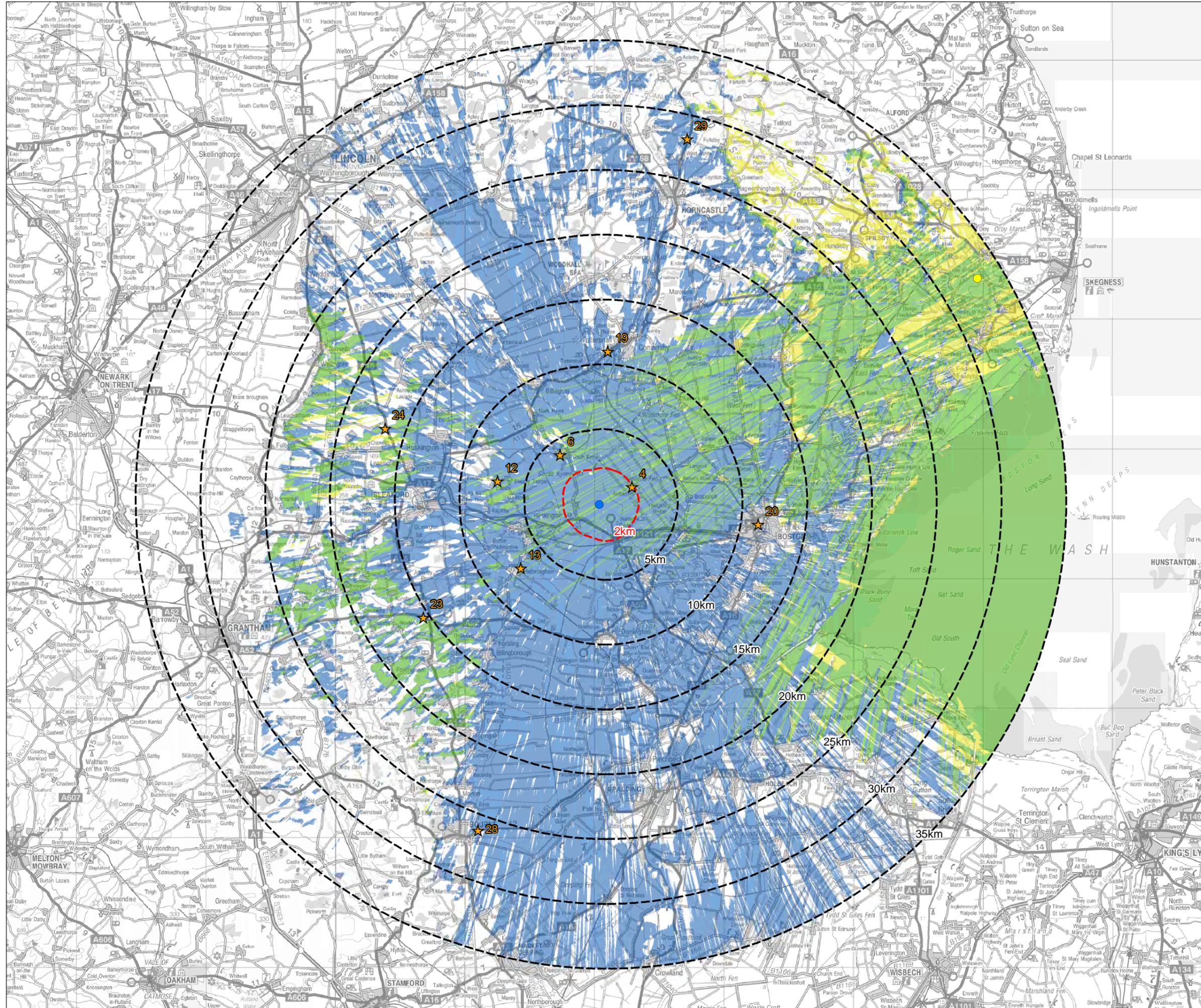
Document Number: 4038_T0292_01

Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13f
Title: Cumulative ZTV Assessment to Blade Tip Noble Foods (Beckingham) Wind Turbines - Including Screening

Heckington Fen Wind Park Environmental Statement



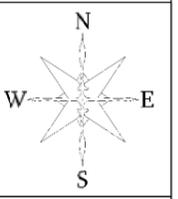
Legend

- Heckington Fen Wind Park
- The Hollies Wind Farm
- 2km Distance Band
- 5km Distance Bands
- Visibility to Heckington Fen
- Visibility to The Hollies
- Visibility to Heckington Fen and The Hollies
- ★ Cumulative Wireline Location

Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

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Document Number: 4038_T0293_01

Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13g
Title: Cumulative ZTV Assessment to Blade Tip The Hollies Wind Farm - Including Screening

Heckington Fen Wind Park
Environmental Statement

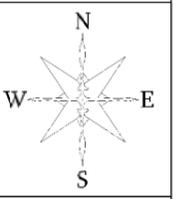
Legend

- Heckington Fen Wind Park
- Orby Marsh (Resubmission) Wind Farm
- 2km Distance Band
- 5km Distance Bands
- Visibility to Heckington Fen
- Visibility to Orby Marsh (Resubmission)
- Visibility to Heckington Fen and Orby Marsh (Resubmission)
- ★ Cumulative Wireline Location

Note:
The ZTV shows those areas of open space, water bodies and transport corridors from where the proposed turbines are likely to be visible at ground level. It does not take into account views from upper storeys of residential and other properties in the study area.

This ZTV takes into account screening effects of some intervening elements such as woodland and buildings. Each of these are given assumed heights of 15m and 8m respectively. It does not take into account screening effects of incidental vegetation and roadside planting, including hedges, hedgerow trees and tree belts.

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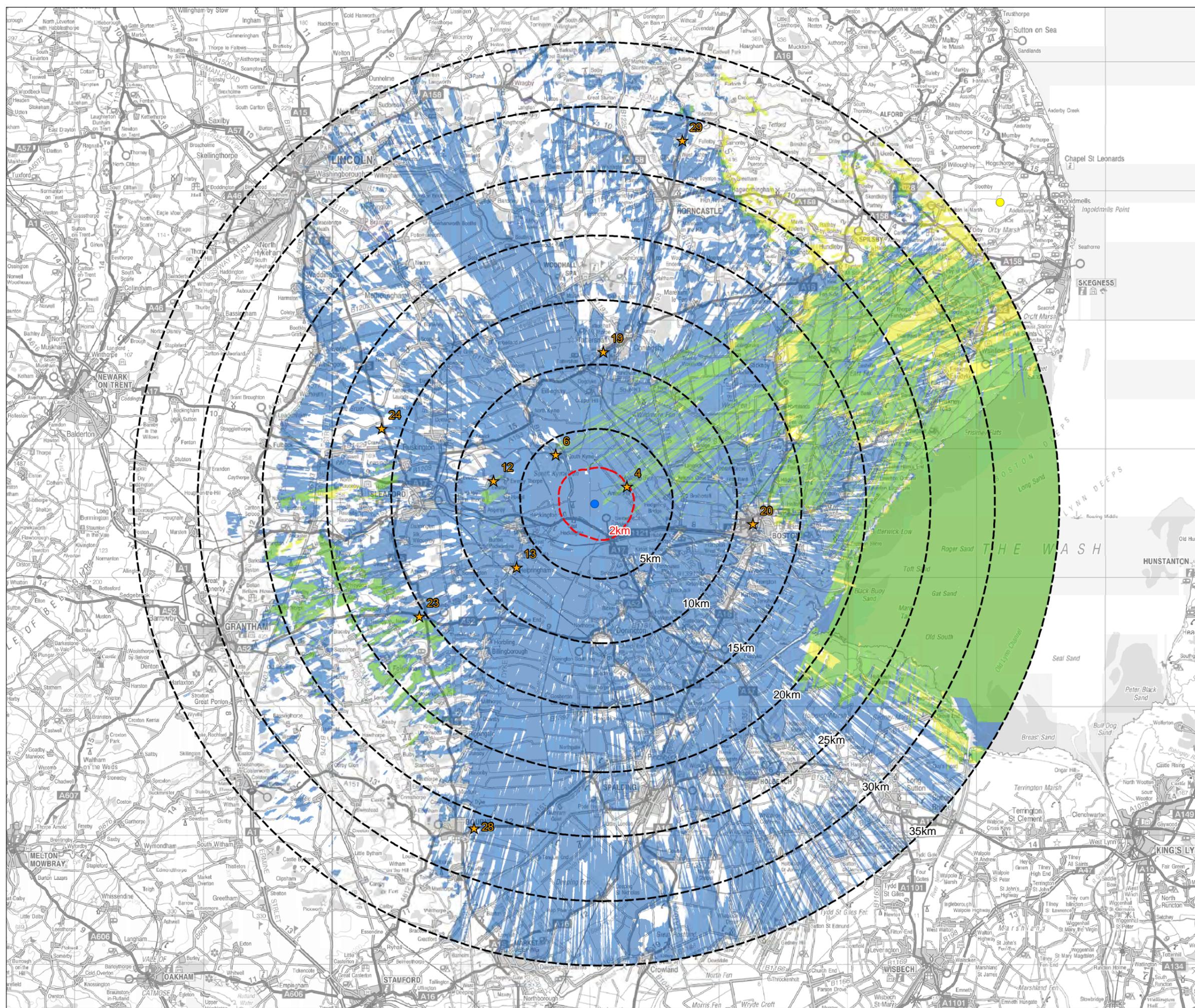
Document Number: 4038_T0294_01

Date: July 2011

Scale: 1: 275,000 @ A3

Figure: 5.13h
Title: Cumulative ZTV Assessment to Blade Tip Orby Marsh (Resubmission) Wind Farm - Including Screening

Heckington Fen Wind Park Environmental Statement



Heckington Fen Wind Park
 Distance to Turbine: 1.90km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

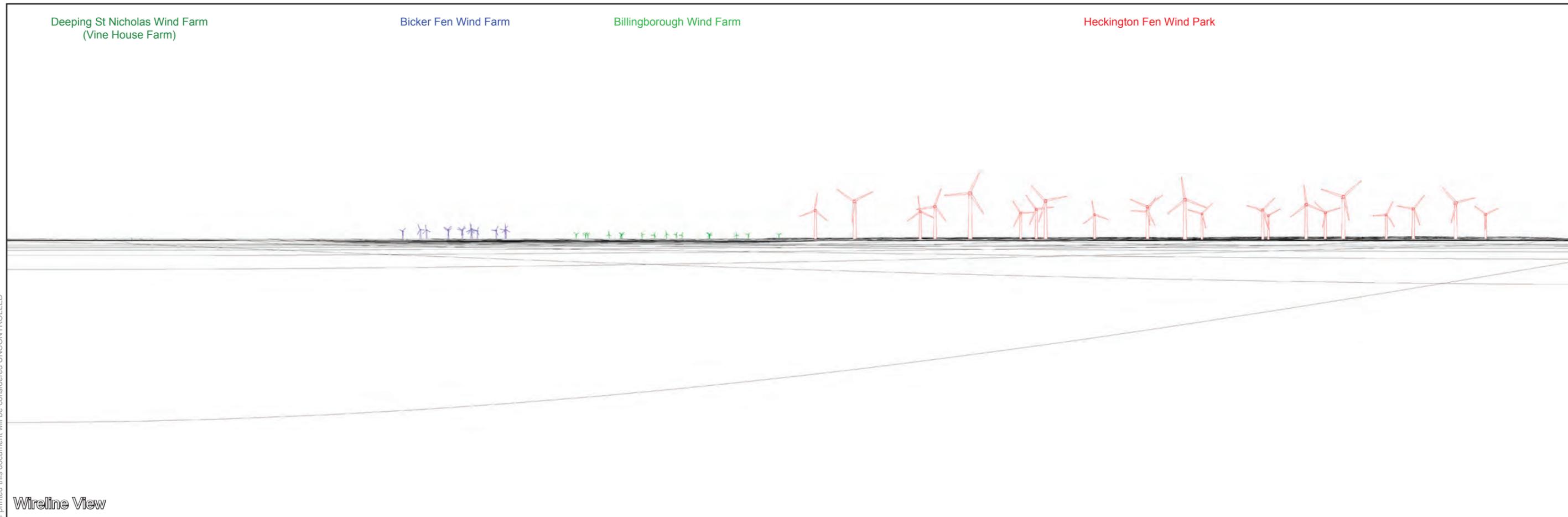
Bicker Fen Wind Farm
 Distance to Turbine: 8.18km
 No. of Turbines: 13
 Hub Height: 59m
 Maximum Tip Height: 100m

Billingborough Wind Farm
 Distance to Turbine: 14.28km
 No. of Turbines: 17
 Hub Height: 80m
 Maximum Tip Height: 126.5m

Deeping St Nicholas Wind Farm (Vine House Farm)
 Distance to Turbine: 29.63km
 No. of Turbines: 8
 Hub Height: 60m
 Maximum Tip Height: 100m



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Wireline View

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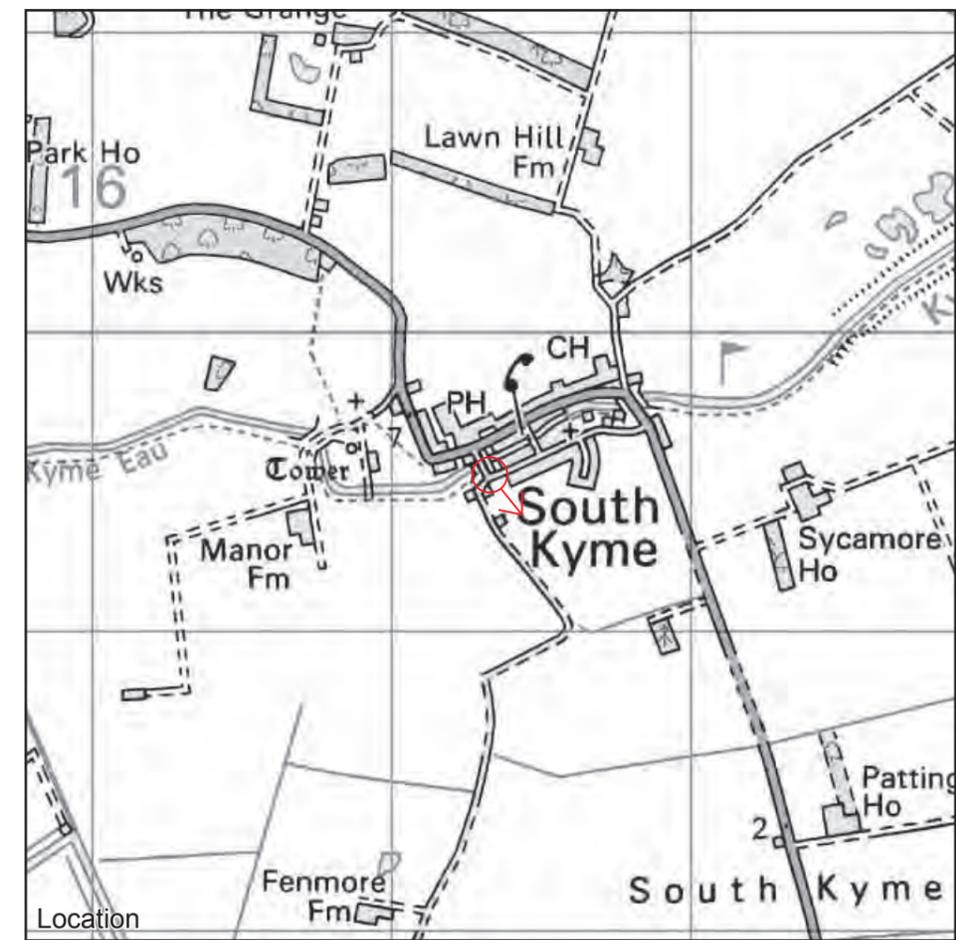


Drawn by:
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 Approved by:

OS Reference: 522890, 347060
 Ground Level Elevation: 2m AOD
 Bearing to Site Centre: 242° (WSW)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 4 - Amber Hill, Sutterton Drove

Project: Heckington Fen Wind Park



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Heckington Fen Wind Park
 Distance to Turbine: 3.88km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

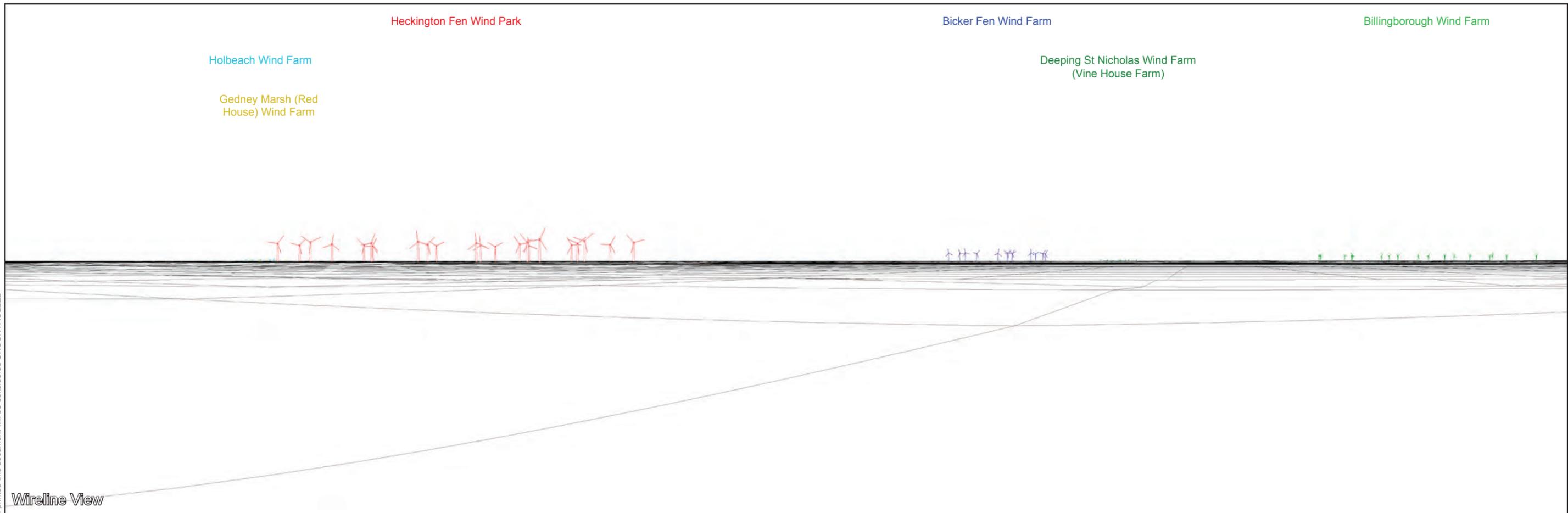
Bicker Fen Wind Farm
 Distance to Turbine: 10.17km
 No. of Turbines: 13
 Hub Height: 59m
 Maximum Tip Height: 100m

Billingborough Wind Farm
 Distance to Turbine: 14.73km
 No. of Turbines: 17
 Hub Height: 80m
 Maximum Tip Height: 126.5m

Holbeach Wind Farm
 Distance to Turbine: 30.83km
 No. of Turbines: 8
 Hub Height: 67m
 Maximum Tip Height: 110m

Gedney Marsh (Red House) Wind Farm
 Distance to Turbine: 31.87km
 No. of Turbines: 6
 Hub Height: 60m
 Maximum Tip Height: 100m

Deeping St Nicholas Wind Farm (Vine House Farm)
 Distance to Turbine: 31.92km
 No. of Turbines: 8
 Hub Height: 60m
 Maximum Tip Height: 100m



Wireline View



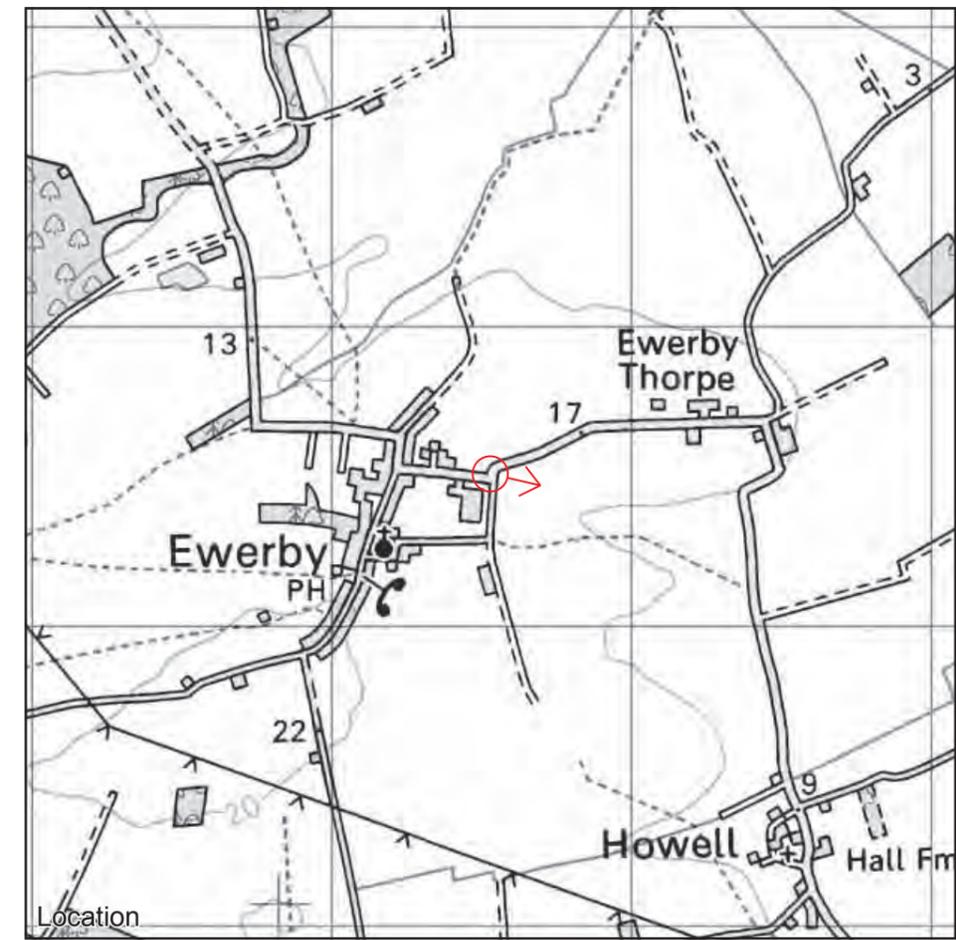
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 Approved by:

OS Reference: 517343, 349541
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 Bearing to Site Centre: 141° (SE)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

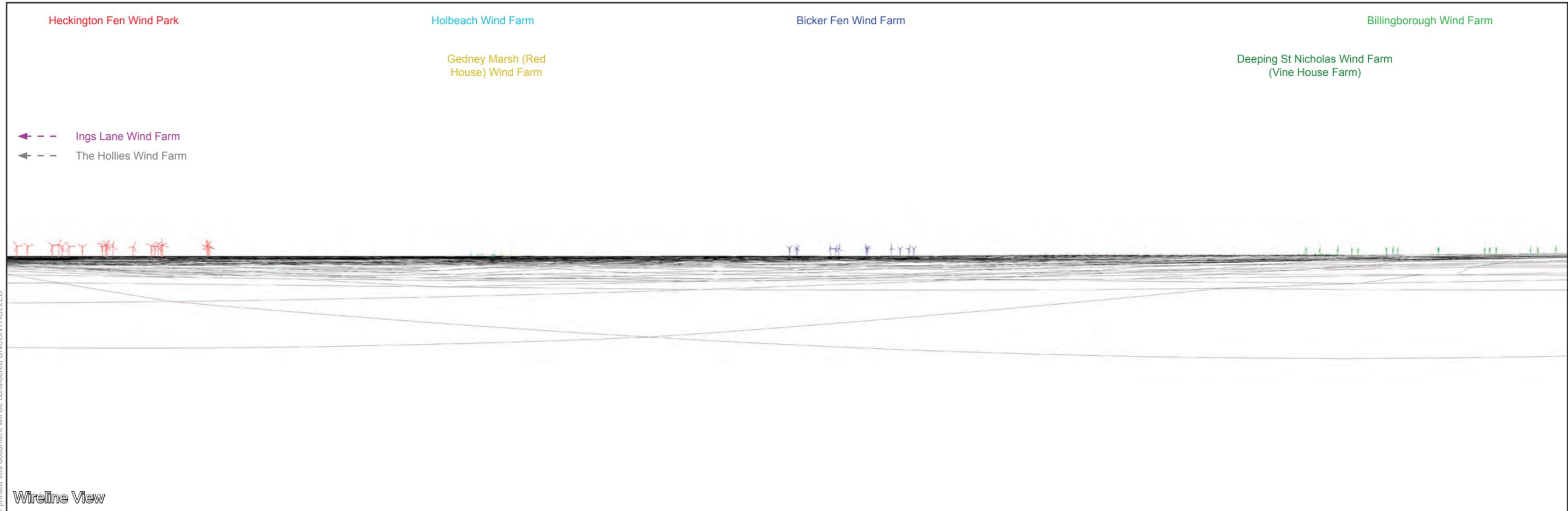
Figure 5.14: Cumulative Wireline Viewpoint 6 - South Kyme
 Project: Heckington Fen Wind Park

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<p>Heckington Fen Wind Park Distance to Turbine: 7.14km No. of Turbines: 22 Hub Height: 80m Maximum Tip Height: 125m</p>	<p>Bicker Fen Wind Farm Distance to Turbine: 10.45km No. of Turbines: 13 Hub Height: 59m Maximum Tip Height: 100m</p>	<p>Billingborough Wind Farm Distance to Turbine: 12.33km No. of Turbines: 17 Hub Height: 80m Maximum Tip Height: 126.5m</p>
<p>Holbeach Wind Farm Distance to Turbine: 33.55km No. of Turbines: 8 Hub Height: 67m Maximum Tip Height: 110m</p>	<p>Gedney Marsh (Red House) Wind Farm Distance to Turbine: 34.54km No. of Turbines: 6 Hub Height: 60m Maximum Tip Height: 100m</p>	<p>Deeping St Nicholas Wind Farm (Vine House Farm) Distance to Turbine: 30.57km No. of Turbines: 8 Hub Height: 60m Maximum Tip Height: 100m</p>



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Wireline View

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OS Reference: 512527, 347520
Ground Level Elevation: 16m AOD
Bearing to Site Centre: 103° (ESE)
Horizontal Field of View: 70°
Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 12 - Ewerby, Clay Pit Lane (junction with Thorpe Road)
Project: Heckington Fen Wind Park

Heckington Fen Wind Park
 Distance to Turbine: 7.16km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

Bicker Fen Wind Farm
 Distance to Turbine: 4.98km
 No. of Turbines: 13
 Hub Height: 59m
 Maximum Tip Height: 100m

Ings Lane Wind Farm
 Distance to Turbine: 26.03km
 No. of Turbines: 2
 Hub Height: 55m
 Maximum Tip Height: 76m

Holbeach Wind Farm
 Distance to Turbine: 28.83km
 No. of Turbines: 8
 Hub Height: 67m
 Maximum Tip Height: 110m

Gedney Marsh (Red House) Wind Farm
 Distance to Turbine: 29.85km
 No. of Turbines: 6
 Hub Height: 60m
 Maximum Tip Height: 100m

The Hollies Wind Farm
 Distance to Turbine: 41.64km
 No. of Turbines: 2
 Hub Height: 60m
 Maximum Tip Height: 91m

Orby Marsh (Resubmission) Wind Farm
 Distance to Turbine: 46.57km
 No. of Turbines: 9
 Hub Height: 54m
 Maximum Tip Height: 81m



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Wireline View



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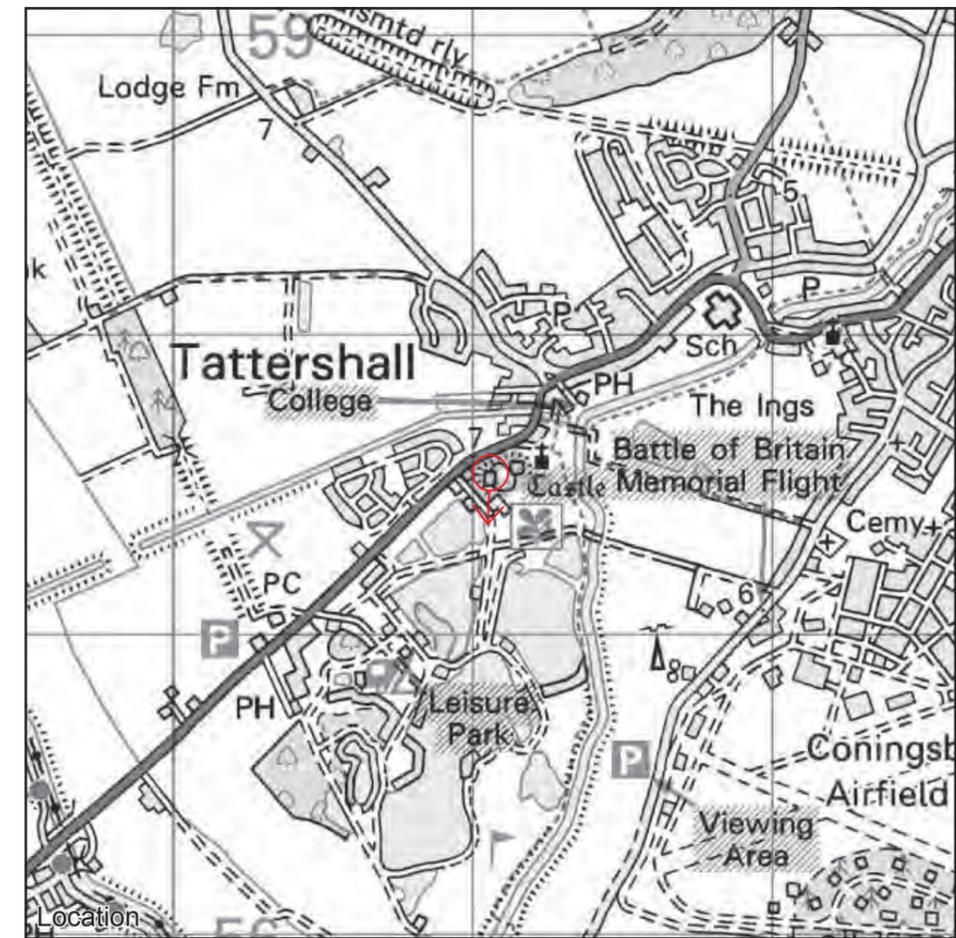
OS Reference: 514310, 340814
 Ground Level Elevation: 7m AOD
 Bearing to Site Centre: 51° (NE)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 13 - Helpringham, B1394

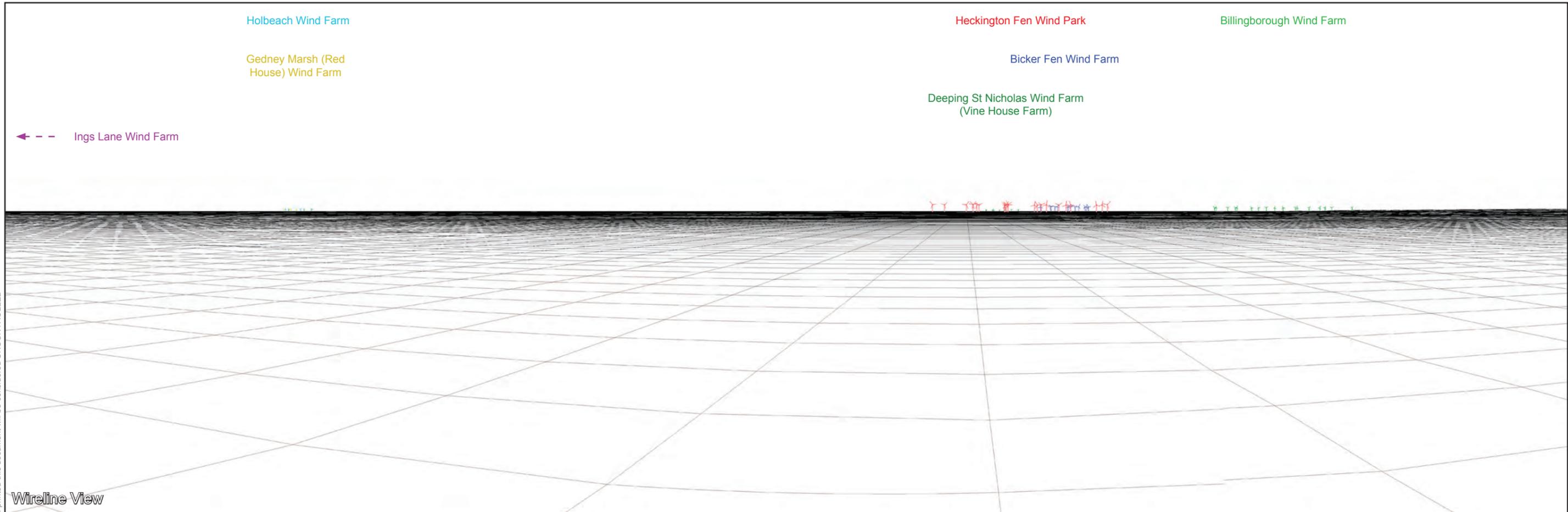
Project: Heckington Fen Wind Park

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<p>Heckington Fen Wind Park Distance to Turbine: 11.01km No. of Turbines: 22 Hub Height: 80m Maximum Tip Height: 125m</p>	<p>Bicker Fen Wind Farm Distance to Turbine: 17.99km No. of Turbines: 13 Hub Height: 59m Maximum Tip Height: 100m</p>	<p>Billingborough Wind Farm Distance to Turbine: 23.36km No. of Turbines: 17 Hub Height: 80m Maximum Tip Height: 126.5m</p>
<p>Holbeach Wind Farm Distance to Turbine: 34.20km No. of Turbines: 8 Hub Height: 67m Maximum Tip Height: 110m</p>	<p>Gedney Marsh (Red House) Wind Farm Distance to Turbine: 35.12km No. of Turbines: 6 Hub Height: 60m Maximum Tip Height: 100m</p>	<p>Deeping St Nicholas Wind Farm (Vine House Farm) Distance to Turbine: 39.91km No. of Turbines: 8 Hub Height: 60m Maximum Tip Height: 100m</p>



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Wireline View



Drawn by:	
Checked by:	
Approved by:	

OS Reference: 521054, 357532
Ground Level Elevation: 35m AOD
Bearing to Site Centre: 183° (S)
Horizontal Field of View: 70°
Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 19 - Tattershall Castle, Tattershall

Project: Heckington Fen Wind Park

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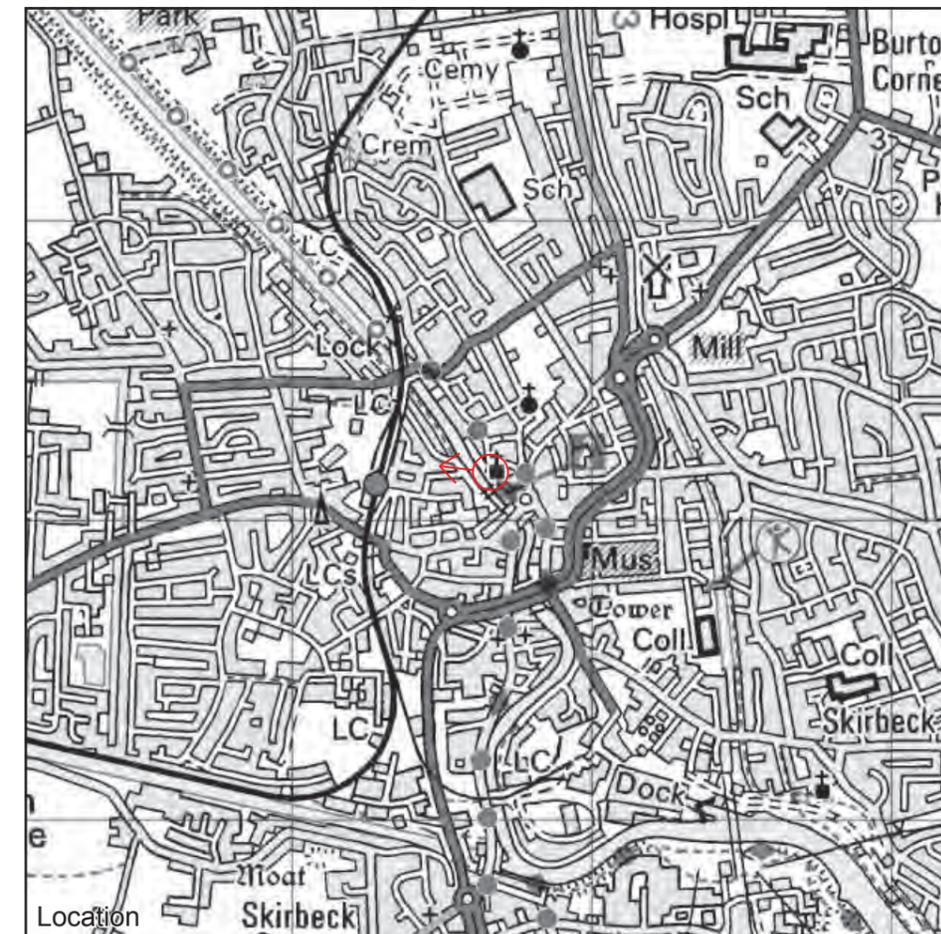
Heckington Fen Wind Park
 Distance to Turbine: 11.36km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

Bicker Fen Wind Farm
 Distance to Turbine: 13.80km
 No. of Turbines: 13
 Hub Height: 59m
 Maximum Tip Height: 100m

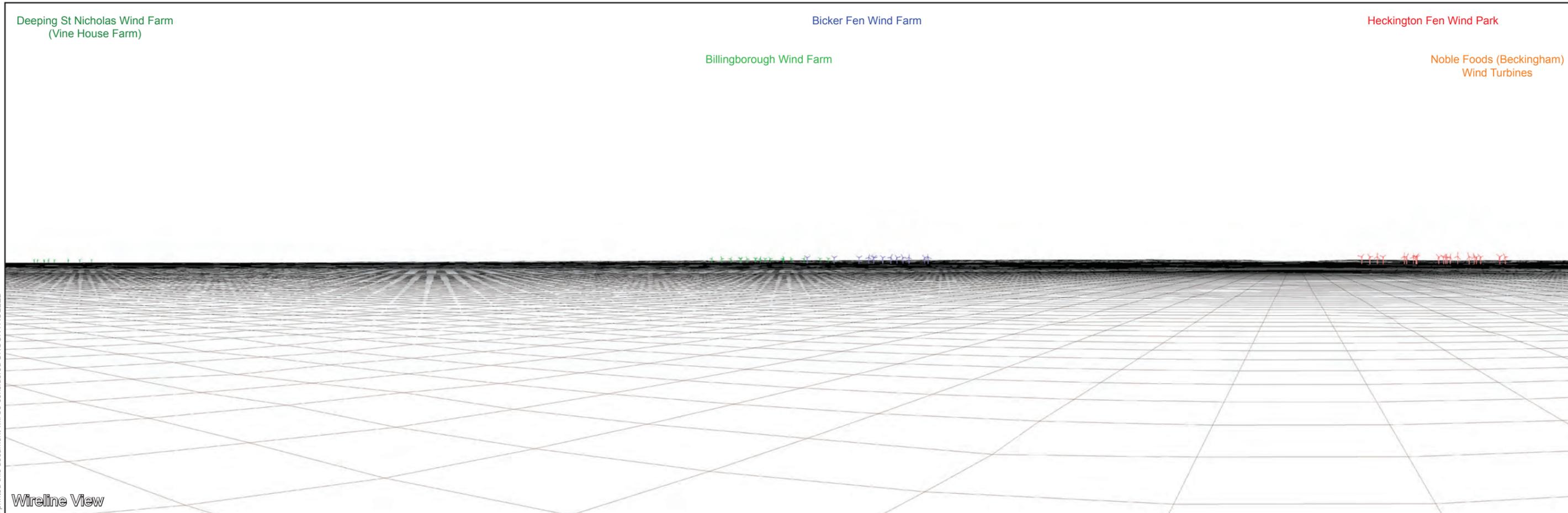
Billingham Wind Farm
 Distance to Turbine: 19.45km
 No. of Turbines: 17
 Hub Height: 80m
 Maximum Tip Height: 126.5m

Deeping St Nicholas Wind Farm (Vine House Farm)
 Distance to Turbine: 29.77km
 No. of Turbines: 8
 Hub Height: 60m
 Maximum Tip Height: 100m

Noble Foods (Beckingham) Wind Turbines
 Distance to Turbine: 44.57km
 No. of Turbines: 3
 Hub Height: 60m
 Maximum Tip Height: 90m



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Wireline View

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Drawn by:	
Checked by:	
Approved by:	

OS Reference: 532658, 344173
 Ground Level Elevation: 45.7m AOD
 Bearing to Site Centre: 277° (W)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 20(i) - Boston Stump (St Botolph's Church)

Project: Heckington Fen Wind Park



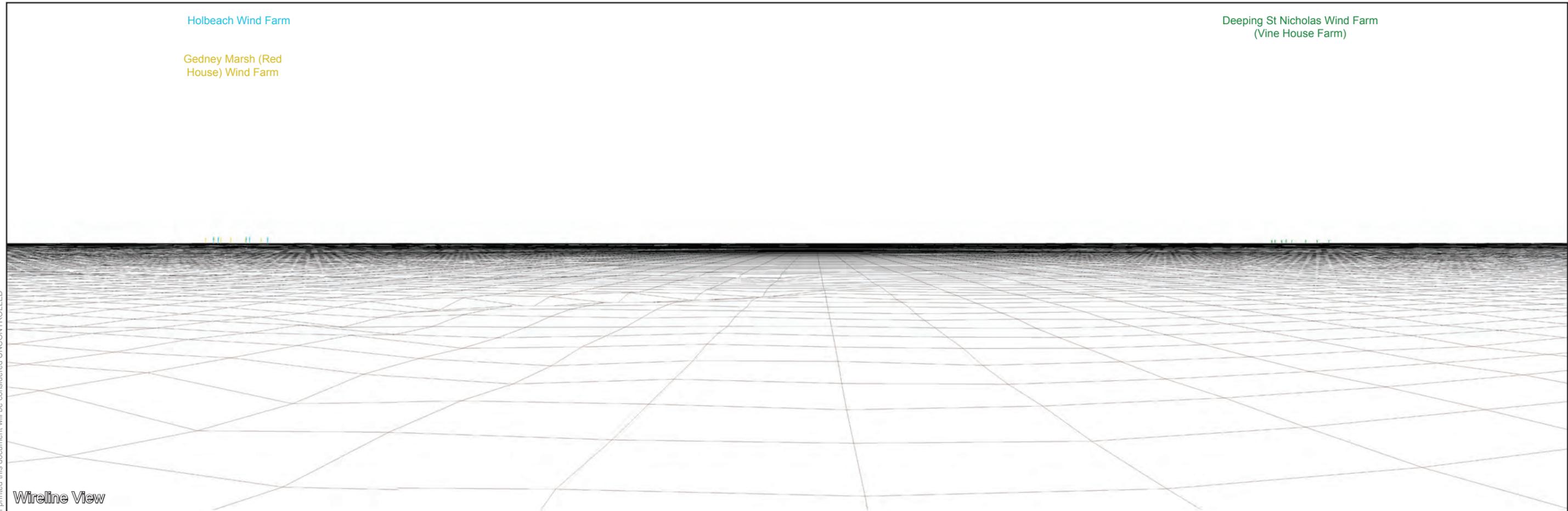
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Heckington Fen Wind Park
 Distance to Turbine: 11.36km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

Holbeach Wind Farm
 Distance to Turbine: 16.66km
 No. of Turbines: 8
 Hub Height: 67m
 Maximum Tip Height: 110m

Gedney Marsh (Red House) Wind Farm
 Distance to Turbine: 17.54km
 No. of Turbines: 6
 Hub Height: 60m
 Maximum Tip Height: 100m

Deeping St Nicholas Wind Farm (Vine House Farm)
 Distance to Turbine: 29.77km
 No. of Turbines: 8
 Hub Height: 60m
 Maximum Tip Height: 100m



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OS Reference: 532658, 344173
 Ground Level Elevation: 45.7m AOD
 Bearing to Centre of View: 180° (S)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

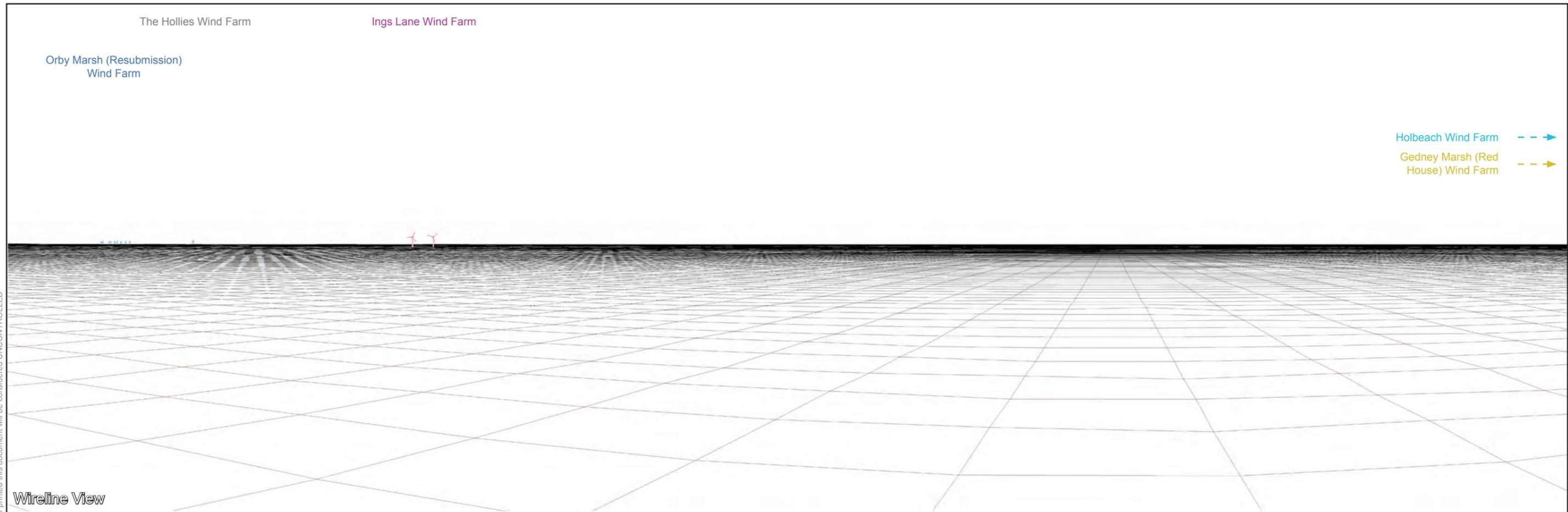
Figure 5.14: Cumulative Wireline Viewpoint 20(ii) - Boston Stump (St Botolph's Church)

Project: **Heckington Fen Wind Park**



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Heckington Fen Wind Park Distance to Turbine: 11.36km No. of Turbines: 22 Hub Height: 80m Maximum Tip Height: 125m	Ings Lane Wind Farm Distance to Turbine: 7.96km No. of Turbines: 2 Hub Height: 55m Maximum Tip Height: 76m	The Hollies Wind Farm Distance to Turbine: 25.31km No. of Turbines: 2 Hub Height: 60m Maximum Tip Height: 91m	Orby Marsh (Resubmission) Wind Farm Distance to Turbine: 31.01km No. of Turbines: 9 Hub Height: 54m Maximum Tip Height: 81m
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Wireline View

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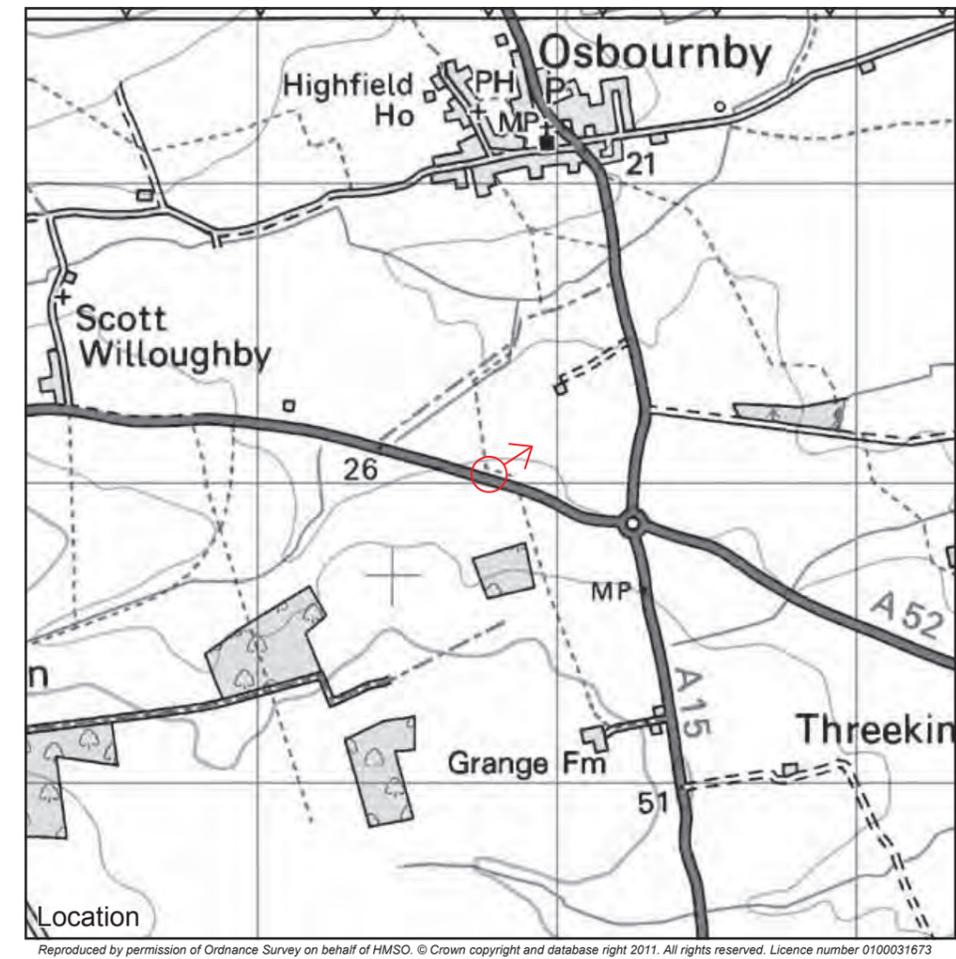
Drawn by:	
Checked by:	
Approved by:	

OS Reference: 532658, 344173
Ground Level Elevation: 45.7m AOD
Bearing to Centre of View: 70° (E)
Horizontal Field of View: 70°
Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 20(iii) - Boston Stump (St Botolph's Church)

Project: **Heckington Fen Wind Park**

<p>Heckington Fen Wind Park Distance to Turbine: 15.45km No. of Turbines: 22 Hub Height: 80m Maximum Tip Height: 125m</p>	<p>Bicker Fen Wind Farm Distance to Turbine: 12.22km No. of Turbines: 13 Hub Height: 59m Maximum Tip Height: 100m</p>	<p>Billingborough Wind Farm Distance to Turbine: 6.13km No. of Turbines: 17 Hub Height: 80m Maximum Tip Height: 126.5m</p>	<p>Ings Lane Wind Farm Distance to Turbine: 34.39km No. of Turbines: 2 Hub Height: 55m Maximum Tip Height: 76m</p>
<p>Holbeach Wind Farm Distance to Turbine: 34.85km No. of Turbines: 8 Hub Height: 67m Maximum Tip Height: 110m</p>	<p>Gedney Marsh (Red House) Wind Farm Distance to Turbine: 35.81km No. of Turbines: 6 Hub Height: 60m Maximum Tip Height: 100m</p>	<p>The Hollies Wind Farm Distance to Turbine: 50.04km No. of Turbines: 2 Hub Height: 60m Maximum Tip Height: 91m</p>	<p>Orby Marsh (Resubmission) Wind Farm Distance to Turbine: 54.89km No. of Turbines: 9 Hub Height: 54m Maximum Tip Height: 81m</p>



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Wireline View

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Drawn by:	
Checked by:	
Approved by:	

OS Reference: 506776, 337020
Ground Level Elevation: 33m AOD
Bearing to Site Centre: 57° (ENE)
Horizontal Field of View: 70°
Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 23 - A52 approaching A15 intersection near Osbournby
Project: **Heckington Fen Wind Park**

Heckington Fen Wind Park
 Distance to Turbine: 16.58km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

Bicker Fen Wind Farm
 Distance to Turbine: 19.55km
 No. of Turbines: 13
 Hub Height: 59m
 Maximum Tip Height: 100m

Billingborough Wind Farm
 Distance to Turbine: 18.69km
 No. of Turbines: 17
 Hub Height: 80m
 Maximum Tip Height: 126.5m

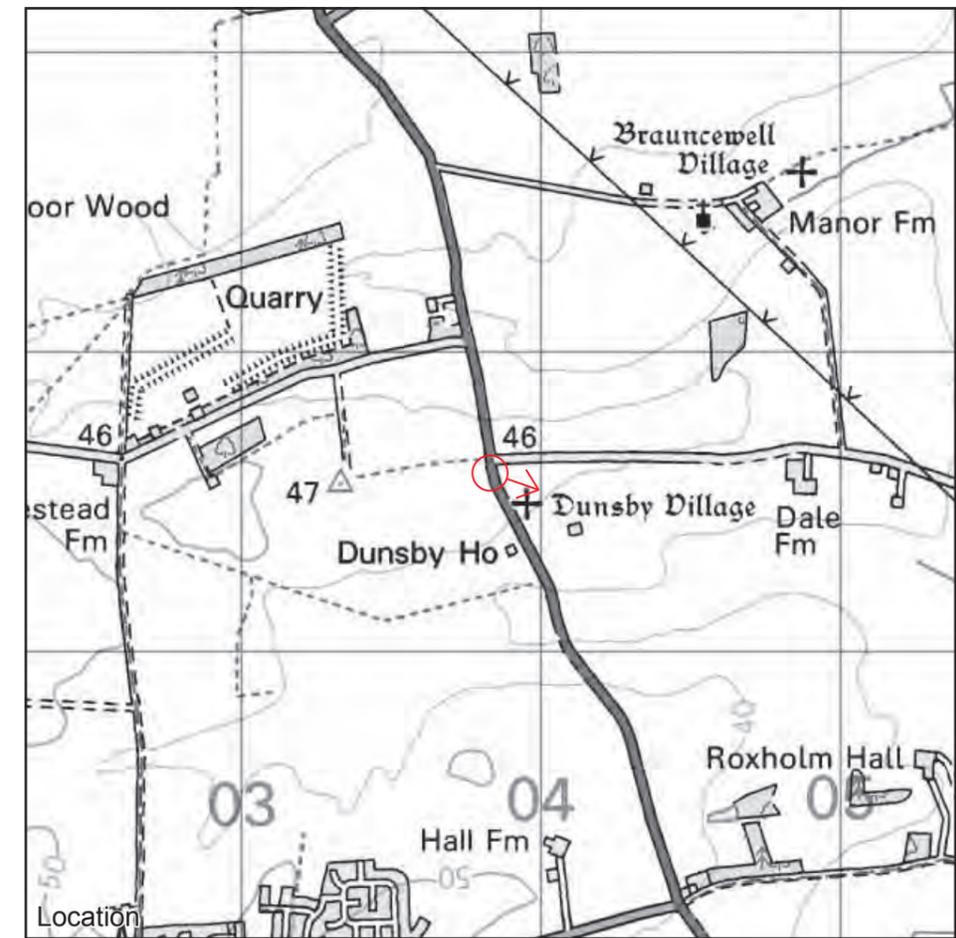
Ings Lane Wind Farm
 Distance to Turbine: 35.30km
 No. of Turbines: 2
 Hub Height: 55m
 Maximum Tip Height: 76m

Holbeach Wind Farm
 Distance to Turbine: 43.09km
 No. of Turbines: 8
 Hub Height: 67m
 Maximum Tip Height: 110m

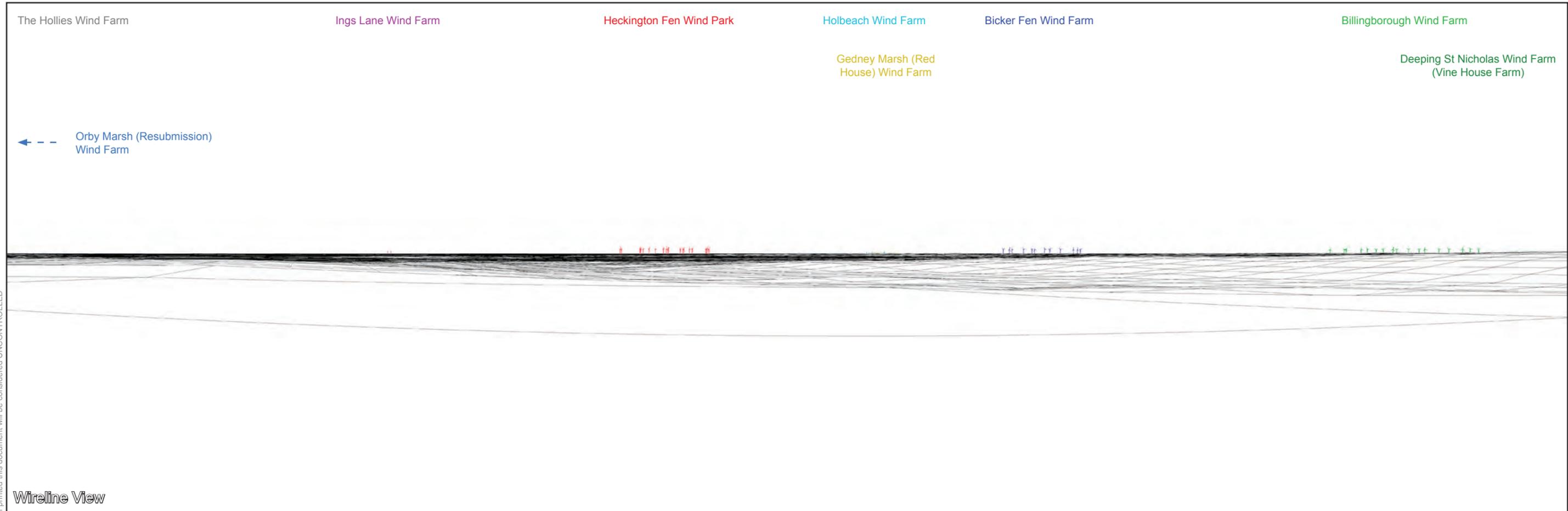
Gedney Marsh (Red House) Wind Farm
 Distance to Turbine: 44.08km
 No. of Turbines: 6
 Hub Height: 60m
 Maximum Tip Height: 100m

Deeping St Nicholas Wind Farm (Vine House Farm)
 Distance to Turbine: 37.20km
 No. of Turbines: 8
 Hub Height: 60m
 Maximum Tip Height: 100m

The Hollies Wind Farm
 Distance to Turbine: 47.09km
 No. of Turbines: 2
 Hub Height: 60m
 Maximum Tip Height: 91m



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Drawn by:	
Checked by:	
Approved by:	

OS Reference: 503834, 351590
 Ground Level Elevation: 46m AOD
 Bearing to Site Centre: 109° (ESE)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

Figure 5.14: **Cumulative Wireline Viewpoint 24 - A15 near Cranwell (junction with Westcliffe Road)**
 Project: **Heckington Fen Wind Park**

Heckington Fen Wind Park
 Distance to Turbine: 26.22km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

Bicker Fen Wind Farm
 Distance to Turbine: 19.23km
 No. of Turbines: 13
 Hub Height: 59m
 Maximum Tip Height: 100m

Billingborough Wind Farm
 Distance to Turbine: 13.38km
 No. of Turbines: 17
 Hub Height: 80m
 Maximum Tip Height: 126.5m

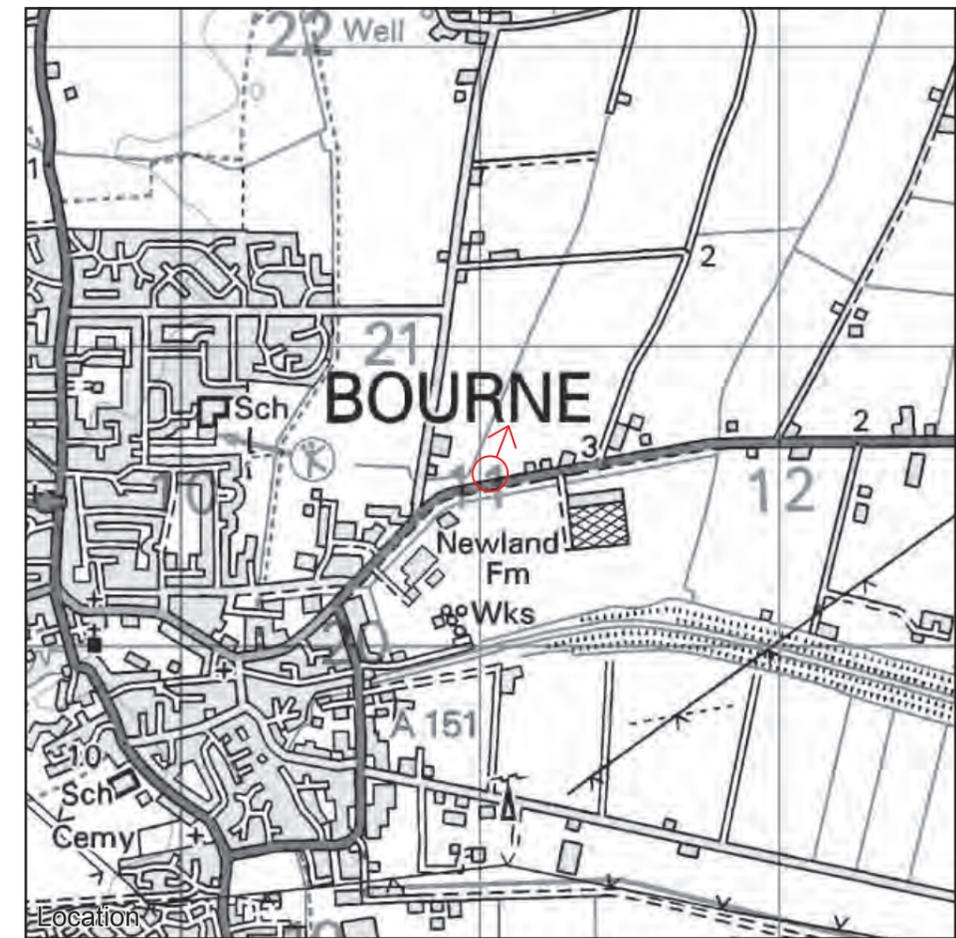
Ings Lane Wind Farm
 Distance to Turbine: 39.86km
 No. of Turbines: 2
 Hub Height: 55m
 Maximum Tip Height: 76m

Holbeach Wind Farm
 Distance to Turbine: 31.04km
 No. of Turbines: 8
 Hub Height: 67m
 Maximum Tip Height: 110m

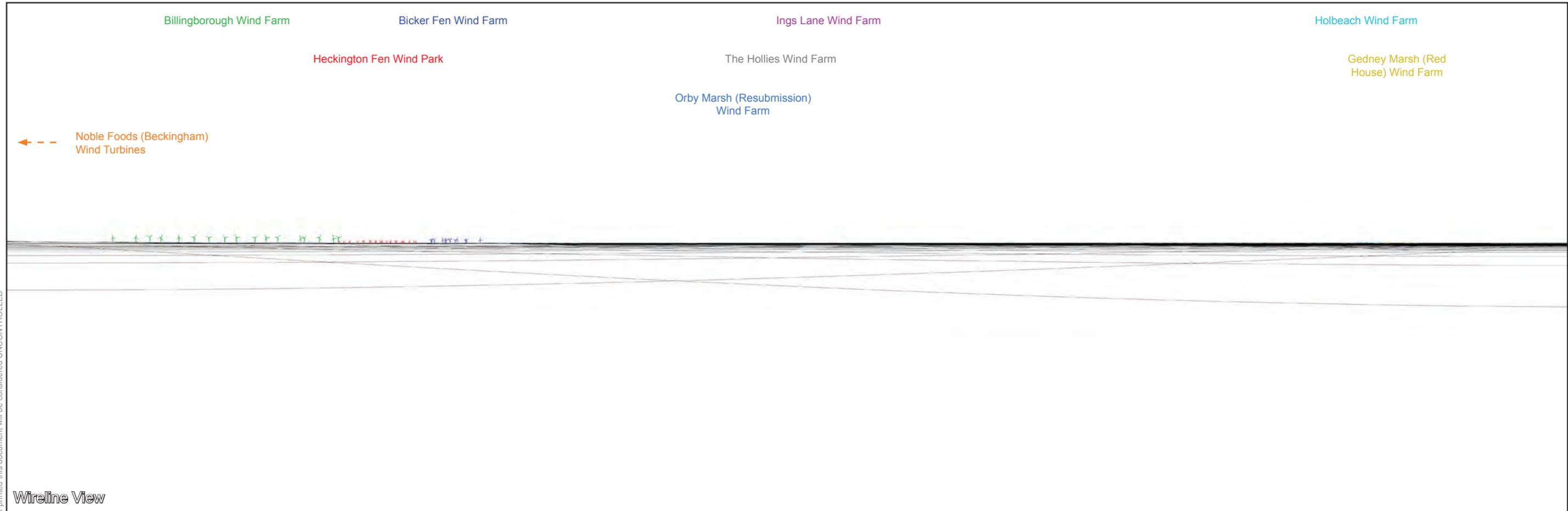
Gedney Marsh (Red House) Wind Farm
 Distance to Turbine: 31.45km
 No. of Turbines: 6
 Hub Height: 60m
 Maximum Tip Height: 100m

The Hollies Wind Farm
 Distance to Turbine: 57.34km
 No. of Turbines: 2
 Hub Height: 60m
 Maximum Tip Height: 91m

Orby Marsh (Resubmission) Wind Farm
 Distance to Turbine: 62.97km
 No. of Turbines: 9
 Hub Height: 54m
 Maximum Tip Height: 81m



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Wireline View



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 Approved by: [Signature]

OS Reference: 511022, 320562
 Ground Level Elevation: 3m AOD
 Bearing to Site Centre: 21° (NNE)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 28 - A151, Bourne

Project: Heckington Fen Wind Park

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Heckington Fen Wind Park
 Distance to Turbine: 28.16km
 No. of Turbines: 22
 Hub Height: 80m
 Maximum Tip Height: 125m

Bicker Fen Wind Farm
 Distance to Turbine: 35.15km
 No. of Turbines: 13
 Hub Height: 59m
 Maximum Tip Height: 100m

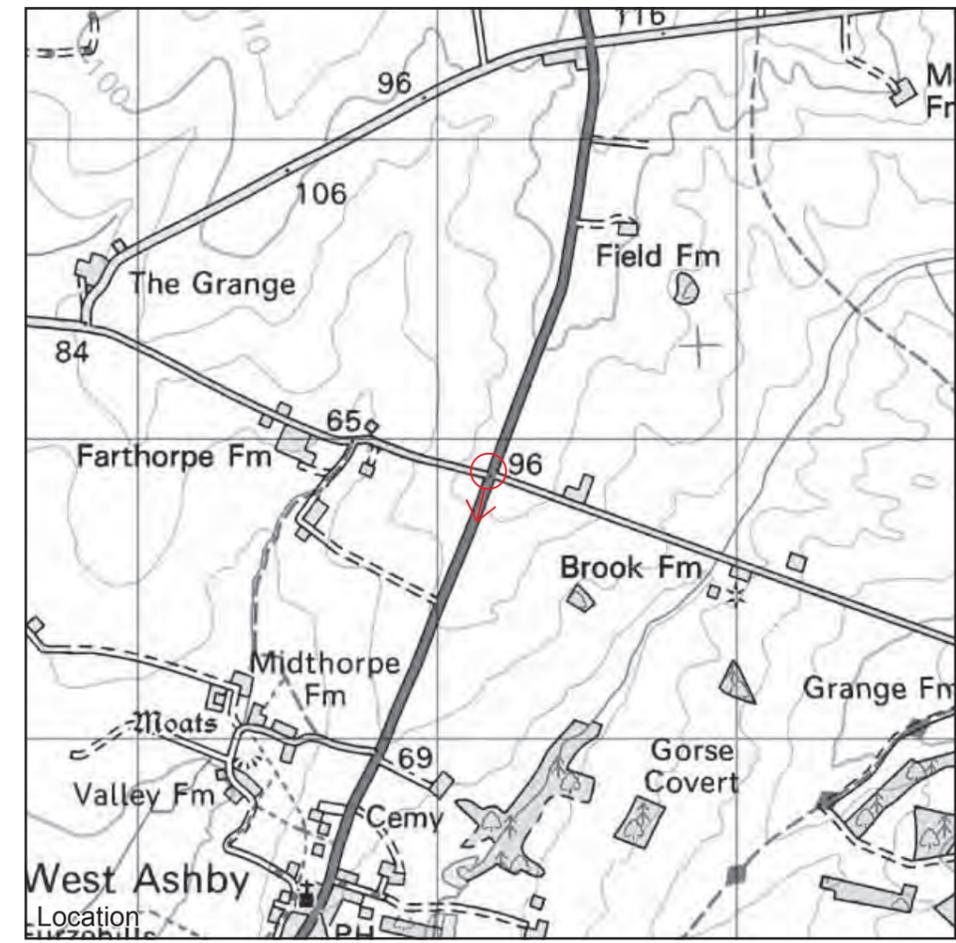
Billingborough Wind Farm
 Distance to Turbine: 40.79km
 No. of Turbines: 17
 Hub Height: 80m
 Maximum Tip Height: 126.5m

Holbeach Wind Farm
 Distance to Turbine: 46.28km
 No. of Turbines: 8
 Hub Height: 67m
 Maximum Tip Height: 110m

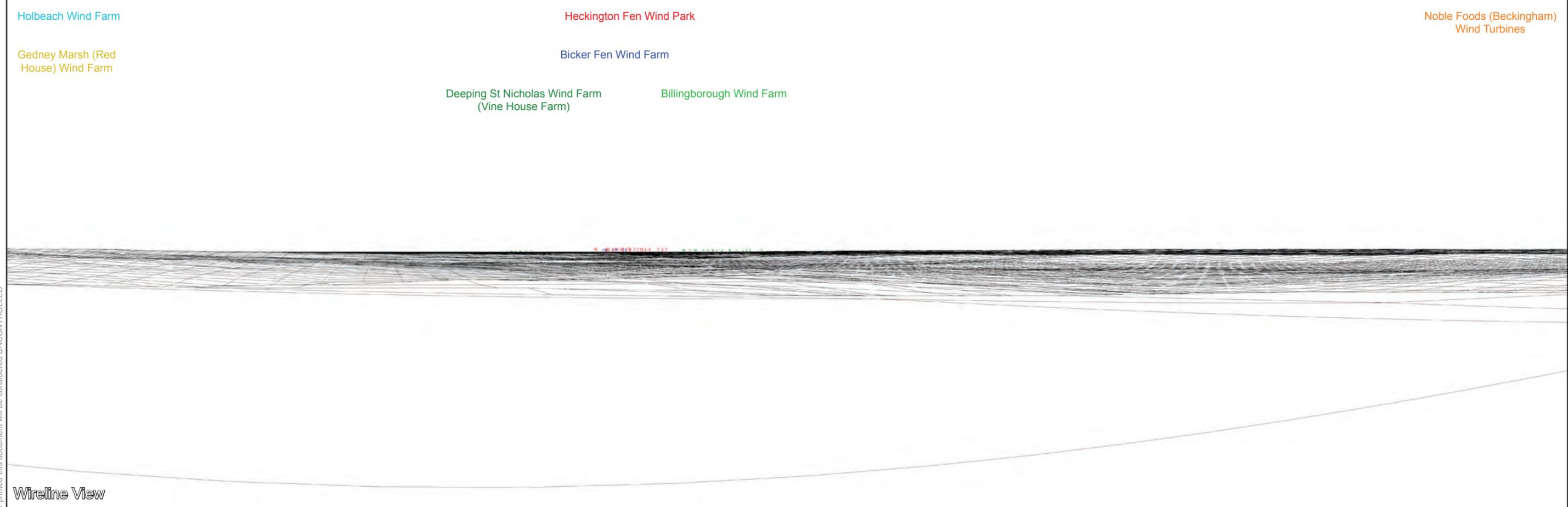
Gedney Marsh (Red House) Wind Farm
 Distance to Turbine: 47.04km
 No. of Turbines: 6
 Hub Height: 60m
 Maximum Tip Height: 100m

Deeping St Nicholas Wind Farm (Vine House Farm)
 Distance to Turbine: 56.82km
 No. of Turbines: 8
 Hub Height: 60m
 Maximum Tip Height: 100m

Noble Foods (Beckingham) Wind Turbines
 Distance to Turbine: 43.01km
 No. of Turbines: 3
 Hub Height: 60m
 Maximum Tip Height: 90m



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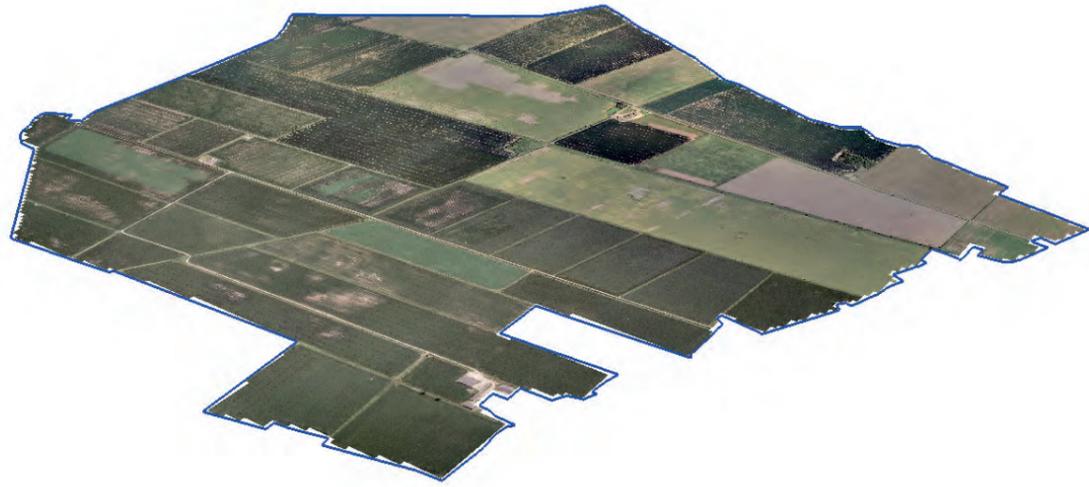
OS Reference: 527179, 373907
 Ground Level Elevation: 95m AOD
 Bearing to Site Centre: 193° (SSW)
 Horizontal Field of View: 70°
 Viewing Distance: 330mm @ A3

Figure 5.14: Cumulative Wireline Viewpoint 29 - A153, Foxendale Hill

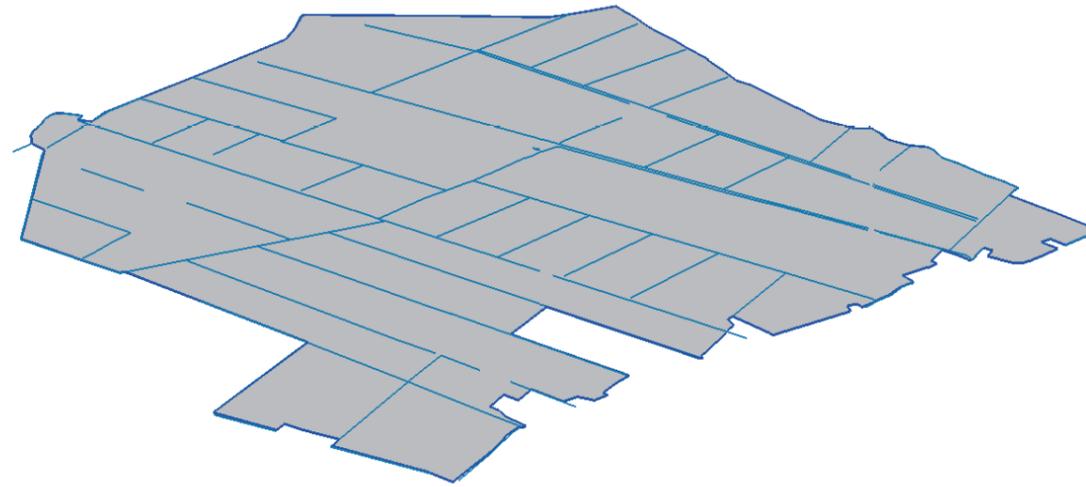
Project: Heckington Fen Wind Park

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1: Man-made landscape - rectilinear pattern of arable fields.



2: Geometric network of drainage channels aligned approximately N-S and WNW-ESE.



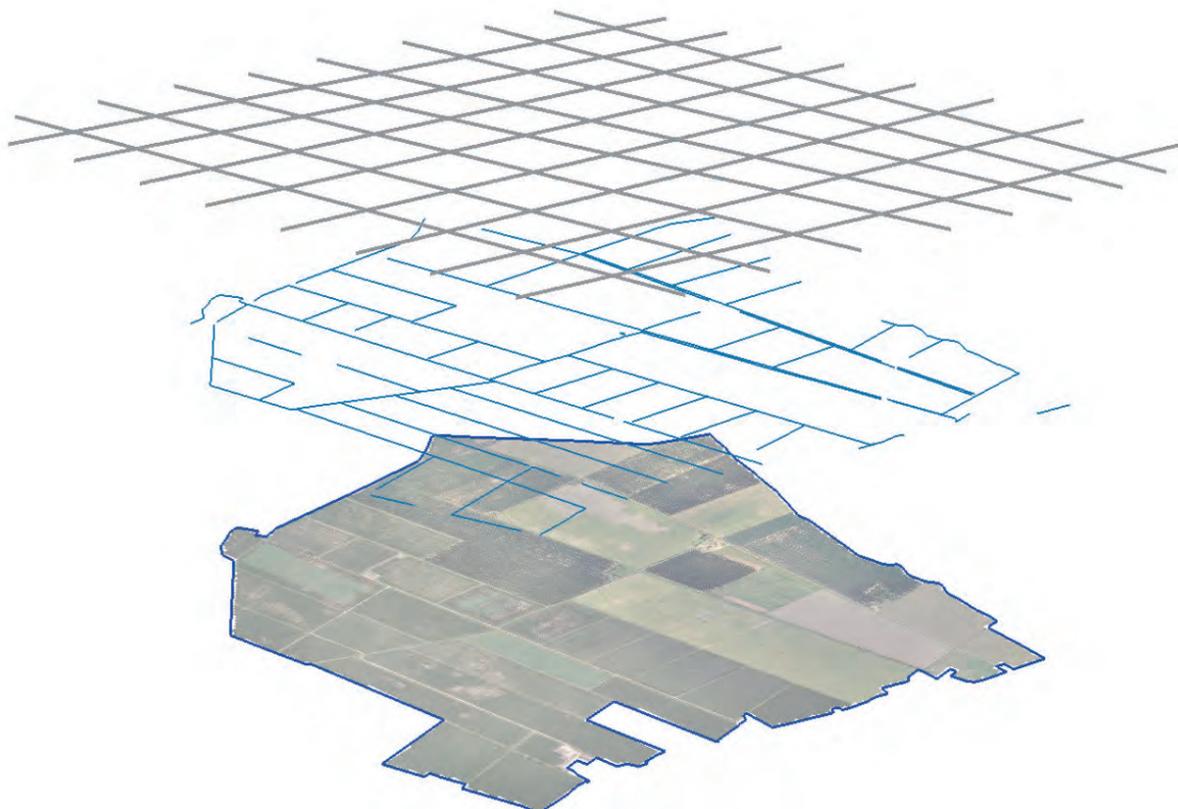
Legend

-  Site Boundary
-  Drainage Channels
-  Design Grid
-  Turbine Location
-  Turbine Oval (V90 - 450m x 270m)

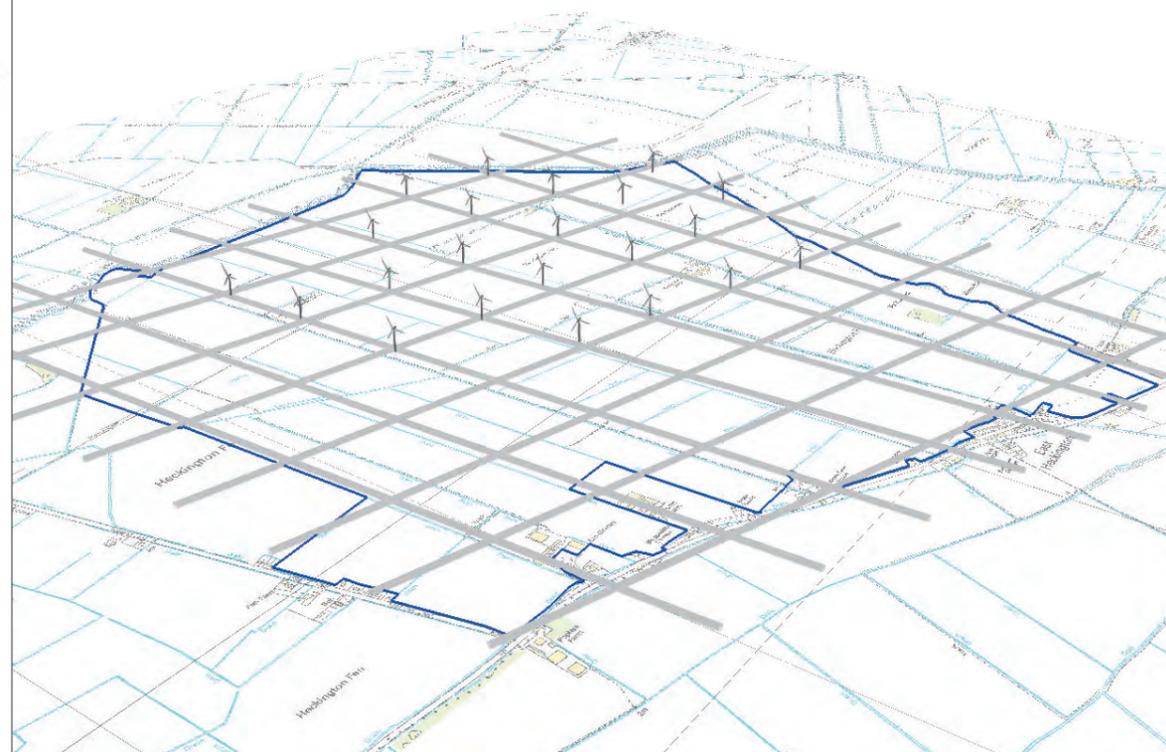
Note on Design Grid:

The design grid dimensions are based on a combination of underlying landscape pattern and the minimum separating distance for efficient and safe operation of the wind turbines based on the 'oval' (5 X 3 rotor diameters) which for the proposed V90 turbine is described by an oval measuring 450m by 270m as illustrated in the diagram below.

3: Design Grid derived from landscape character and minimum turbine spacing.



4: Optimised turbine layout based on Design Grid.



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Checked by:		
Approved by:		

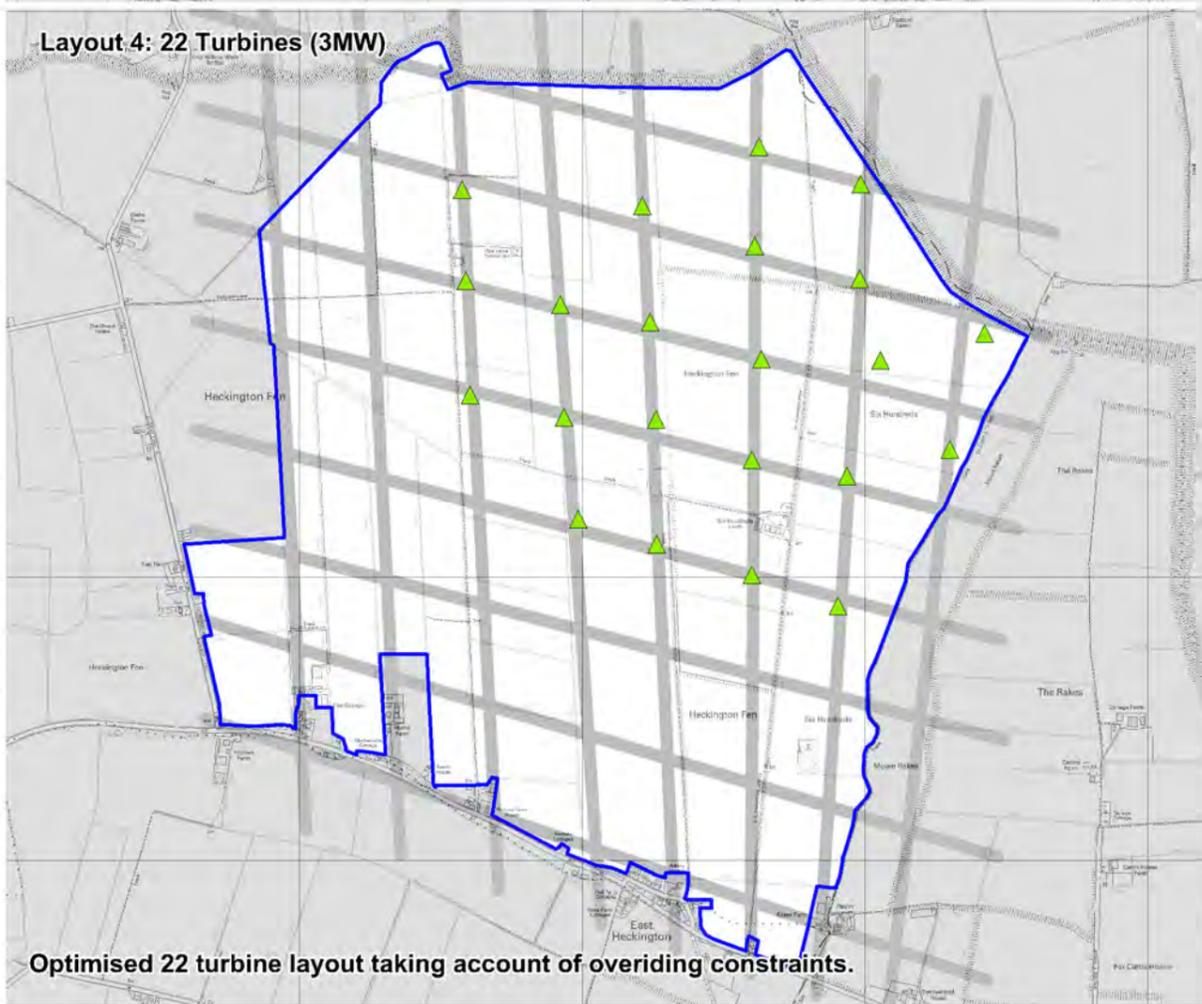
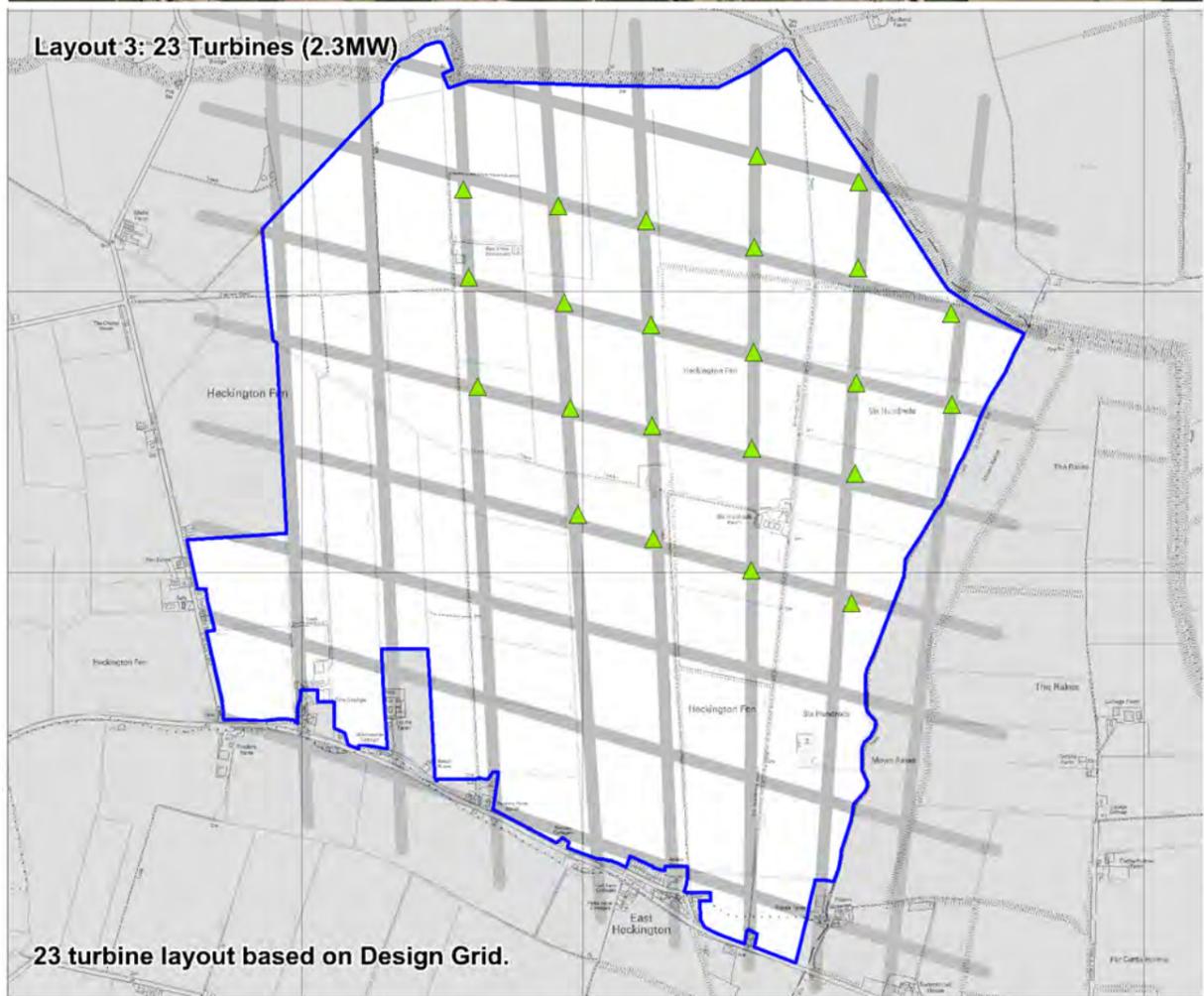
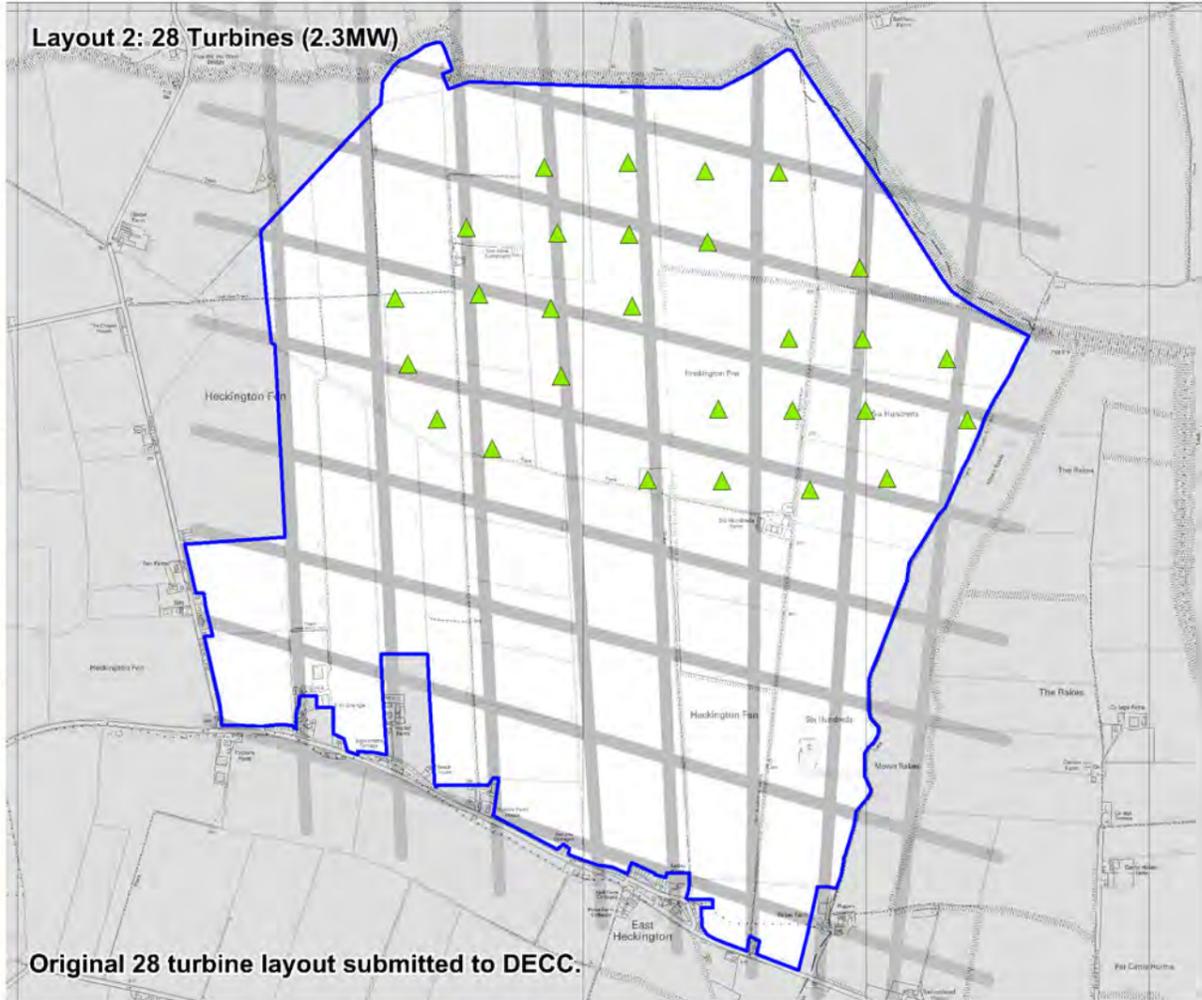
Document Number: 4030_T0342_01

Date: June 2011

Scale: N/A

Figure: 5.15a
Title: Landscape Mitigation in Site Layout - Design Process

Heckington Fen Wind Park
Environmental Statement



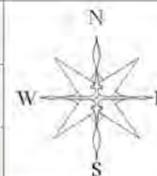
Legend

-  Turbine Location
-  Site Boundary
-  Design Grid

Drawn by 

Checked by 

Approved by 



Document Number: 4038_T0343_01

Date: June 2011

Scale: 1: 25,000 @ A3

Figure: 5.15b
Title: Landscape Mitigation in Site Layout
- Design Evolution

Heckington Fen Wind Park
Environmental Statement