



FIVE
ESTUARIES
OFFSHORE WIND FARM

FIVE ESTUARIES
OFFSHORE WIND FARM
ENVIRONMENTAL STATEMENT

VOLUME 6, PART 7, ANNEX 2.1:
LANDSCAPE AND VISUAL IMPACT
ASSESSMENT FIGURES

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Application Document Number	6.7.2.1
Revision	A
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Date	March 2024



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Document Title	Volume 6, Part 7, Annex 2.1: Landscape and Visual Impact Assessment Figures
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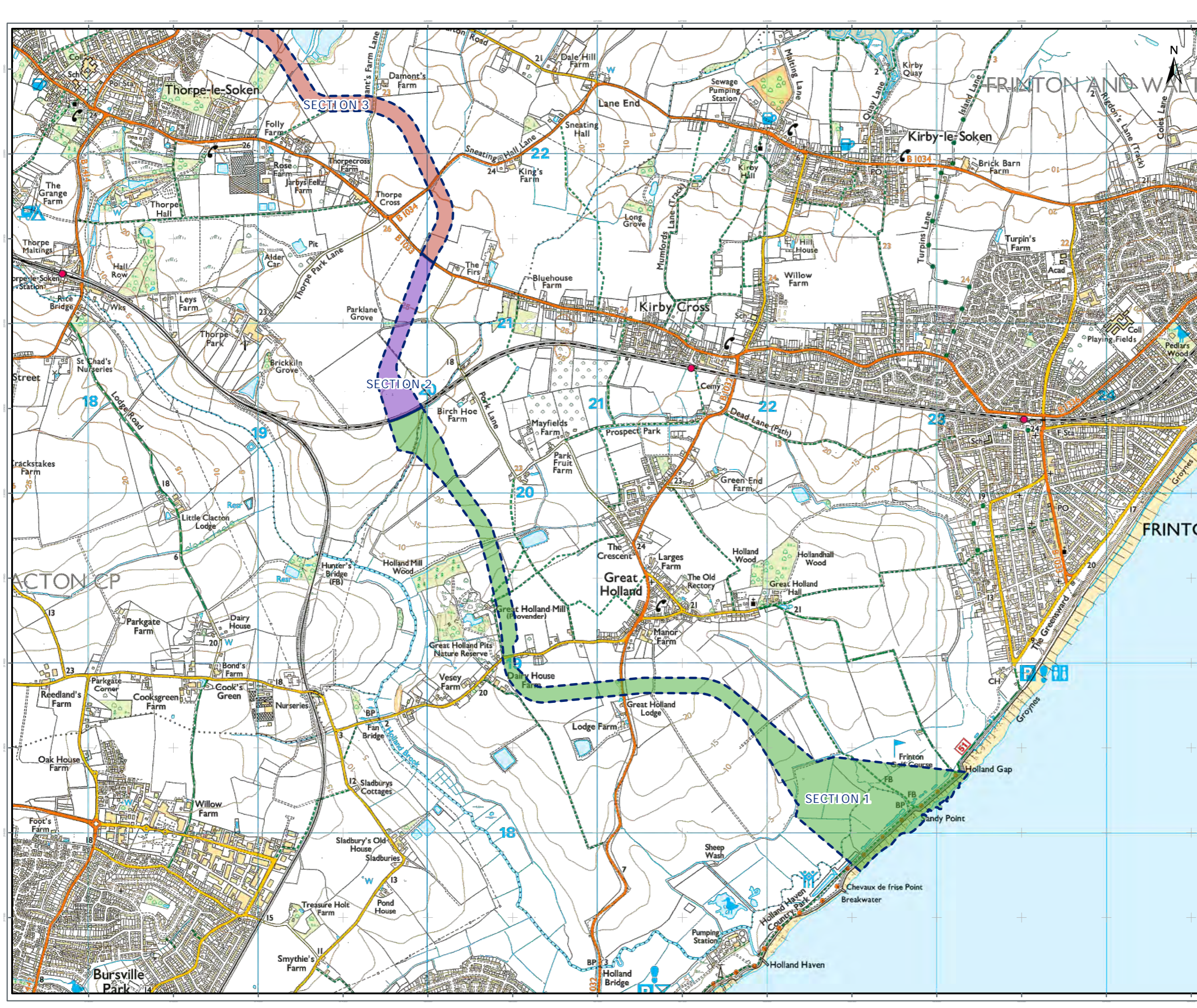
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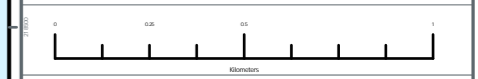
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LEG END

- Onshore Cable Route
- SECTION 1
- SECTION 2
- SECTION 3



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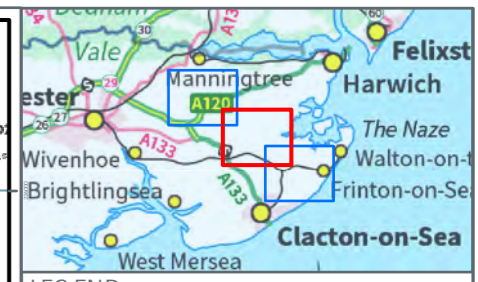
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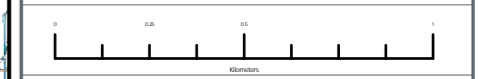
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Sheet No: 1 of 3
 SCALE: 1:2000 PLOT SIZE: A3 DATA: OSGB 1936 PROJECTION: British National Grid





- LEG END**
- Onshore Cable Route
 - SECTION 2
 - SECTION 3
 - SECTION 4A
 - SECTION 4B



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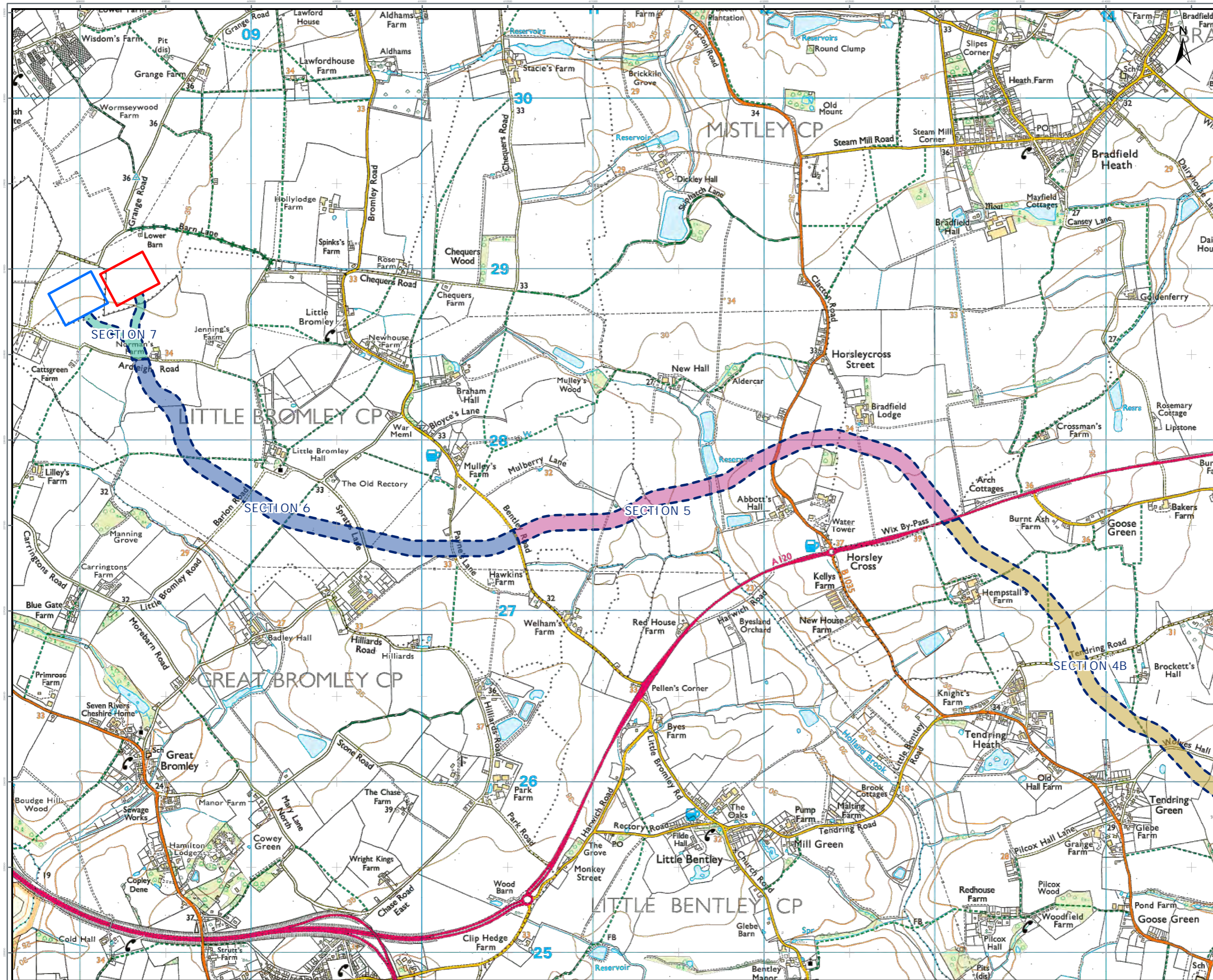
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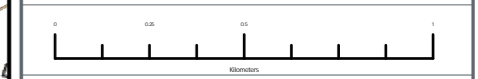
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LEG END

- Substation Operational Boundary
- Project 1 Substation Operational Boundary (Red outline)
- Project 2 Substation Operational Boundary (Blue outline)
- Onshore Cable Route (Dashed blue line)
- SECTION 4B (Yellow shaded area)
- SECTION 5 (Pink shaded area)
- SECTION 6 (Blue shaded area)
- SECTION 7 (Green shaded area)



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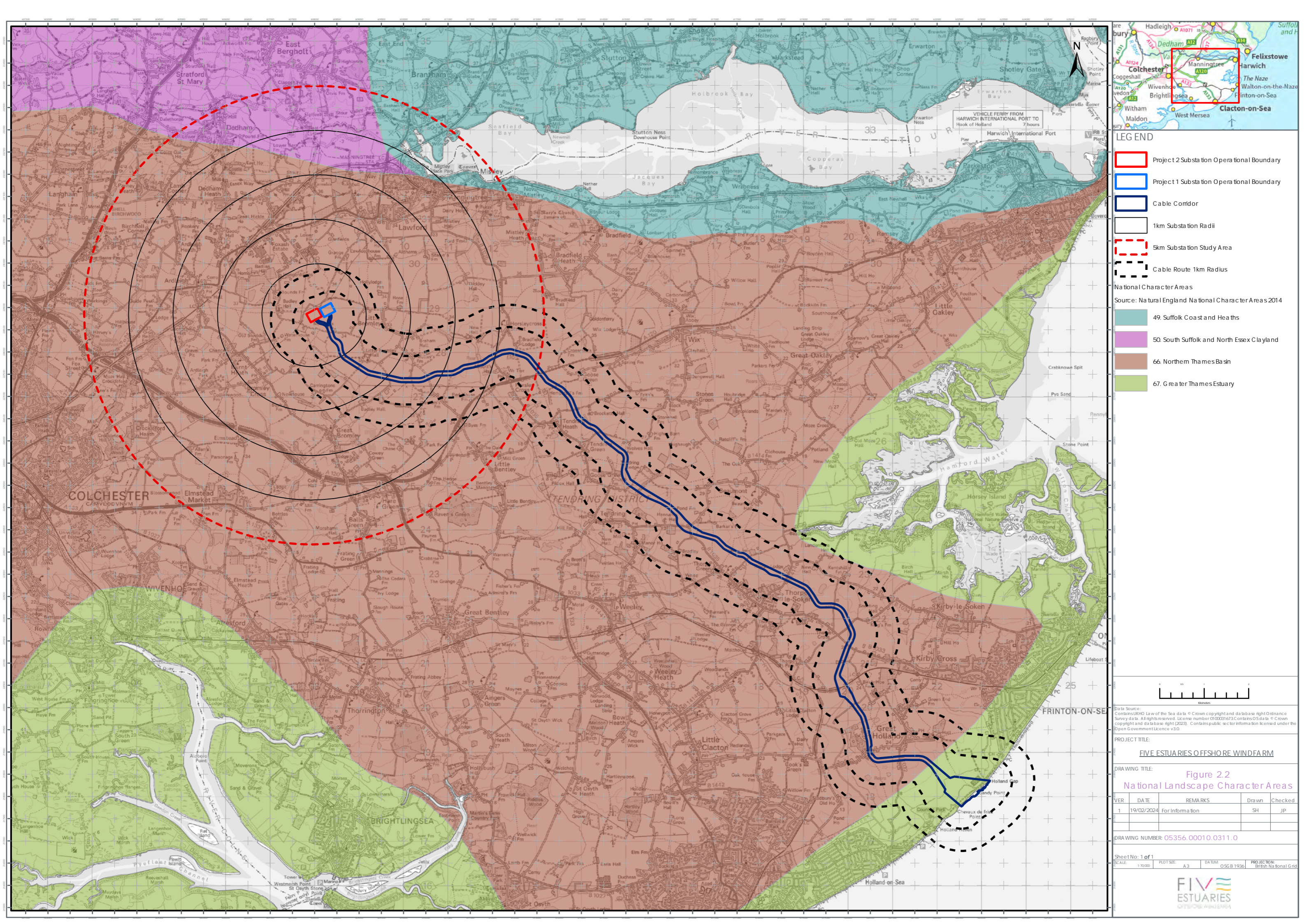
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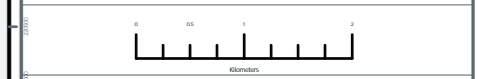
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Sheet No: 3 of 3
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- LEG END**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Cable Corridor
 - 1km Substation Radii
 - 5km Substation Study Area
 - Cable Route 1km Radius
- National Character Areas**
 Source: Natural England National Character Areas 2014
- 49. Suffolk Coast and Heaths
 - 50. South Suffolk and North Essex Clayland
 - 66. Northern Thames Basin
 - 67. Greater Thames Estuary



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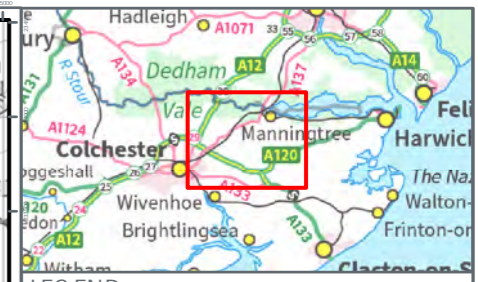
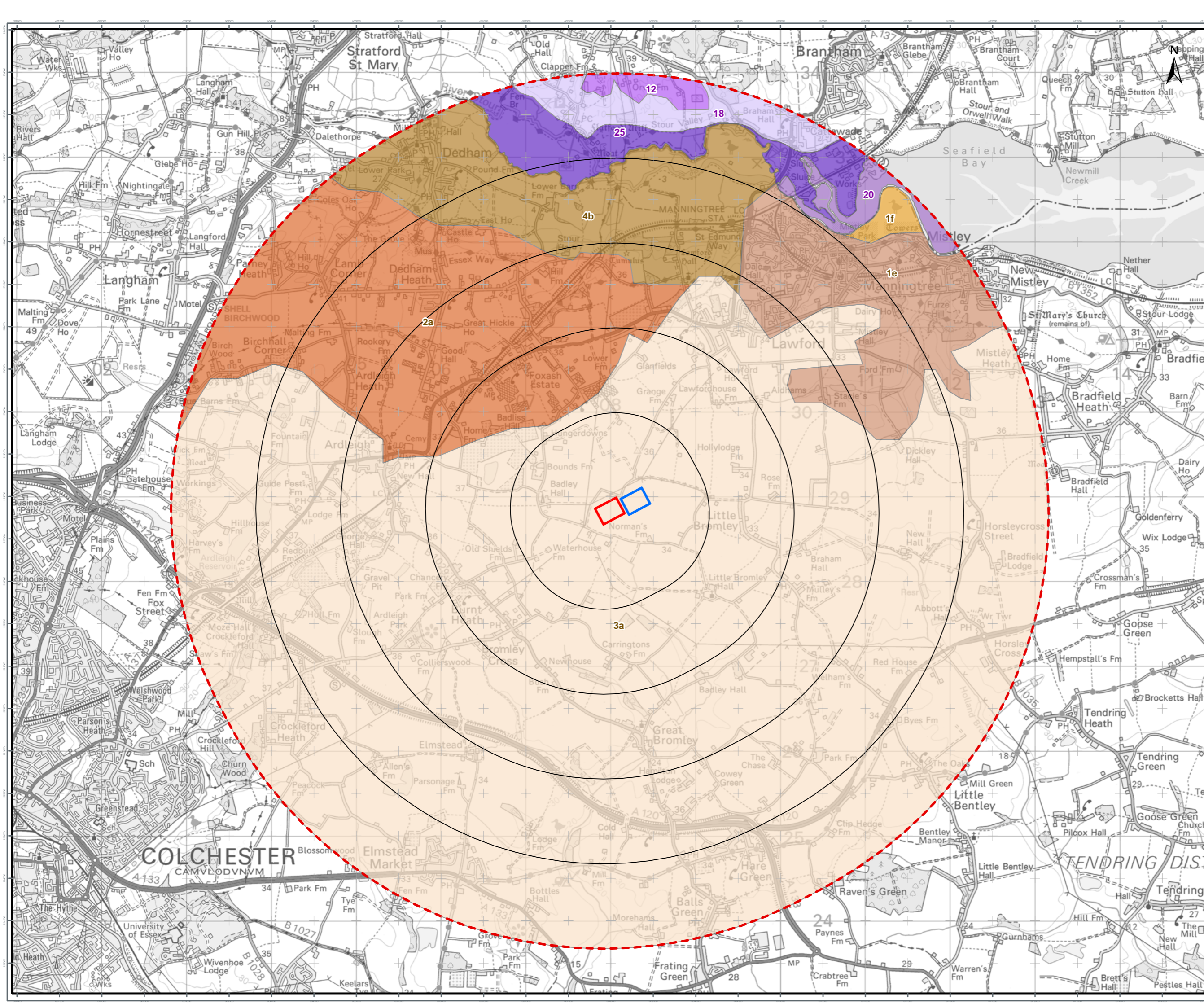
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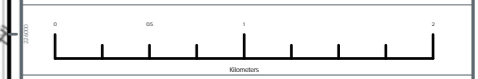
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SCALE: 1:1000 PLOT SIZE: A3 DATE: 05GB 1936 PROJECTION: British National Grid





- LEG END**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
- Essex Landscape Character**
Source: Essex Landscape Character Assessment 2003
- 1e. Coastal Landscape - F9 - Stour Estuary Slopes
 - 1f. Coastal Landscape - F10 - Stour Estuary
 - 2a. Glacial Till Landscape - E4 - North Colchester Farmlands
 - 3a. London Clay Landscape - E2 - South Colchester Farmlands
 - 4b. River Valley Landscape - C8 - Stour Valley
- Suffolk Landscape Character**
Source: Suffolk Landscape Character Assessment 2006
- 12. Plateau Farmlands
 - 18. Rolling Valley Farmlands
 - 20. Saltmarsh and Intertidal Flats
 - 25. Valley Meadowlands



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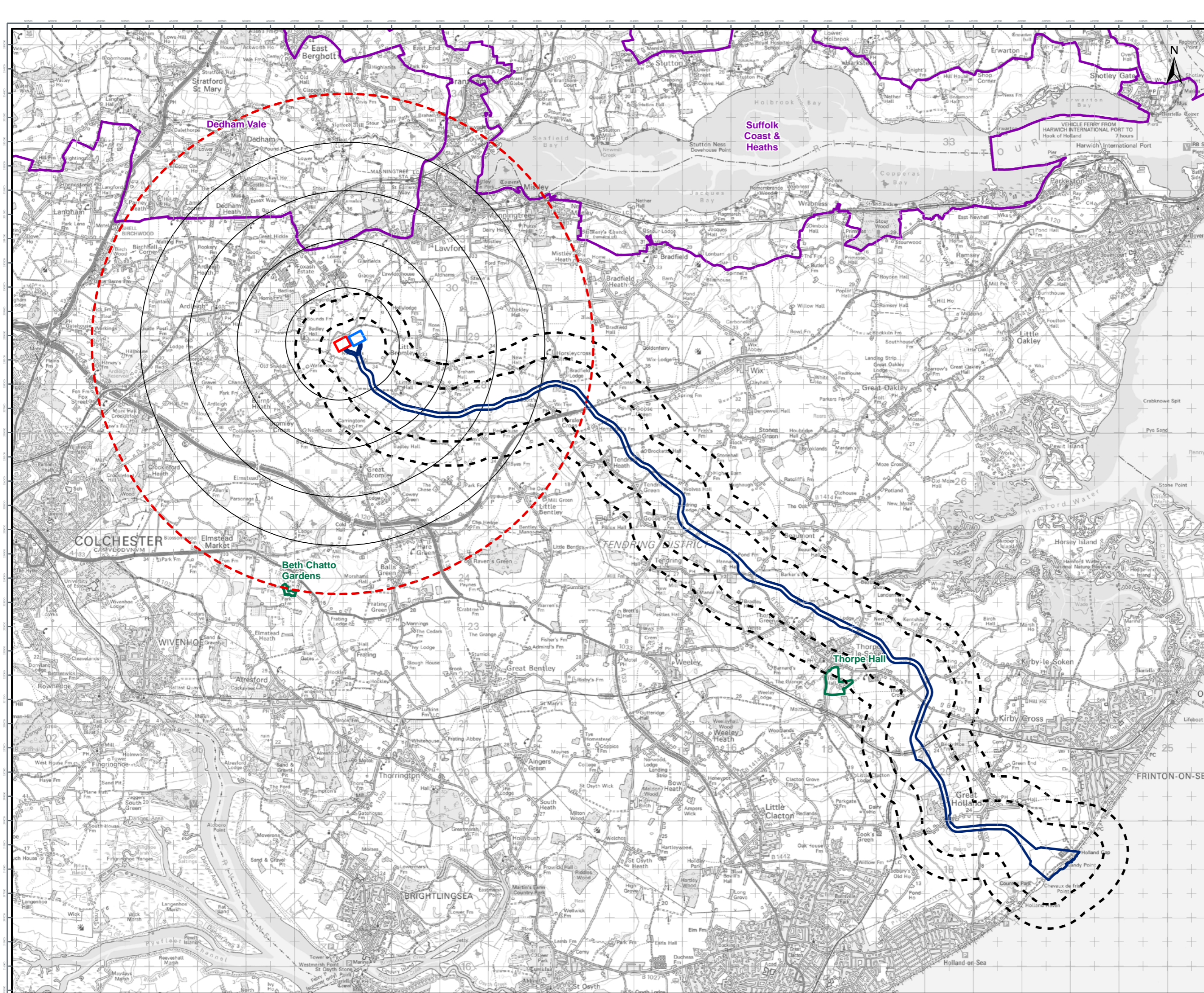
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- LEG END**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Cable Corridor
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
 - Cable Route 1km Radius
 - Area of Natural Beauty
 - Parks and Gardens

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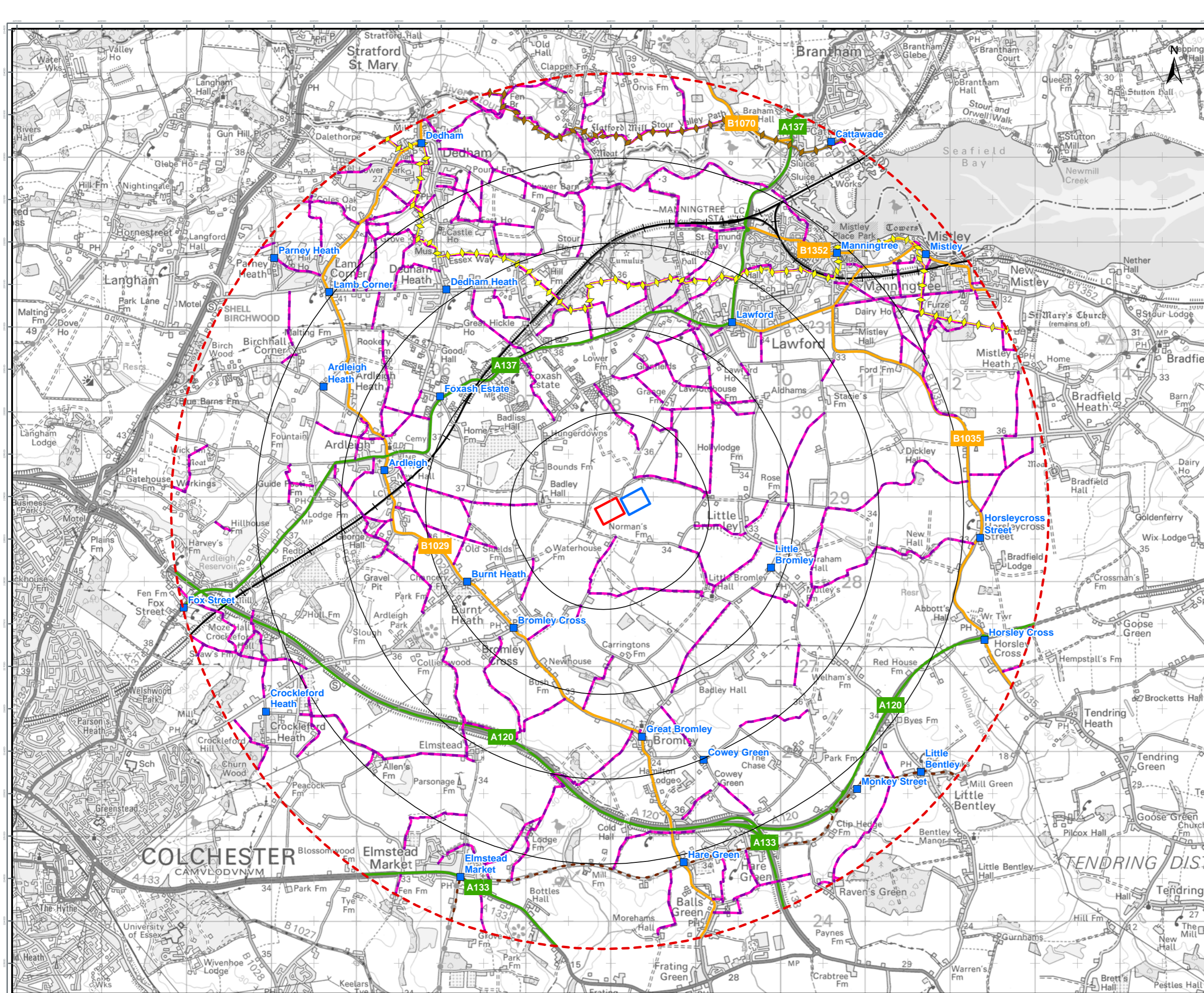
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 Landscape Designations**

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LEGEND

- Project 2 Substation Operational Boundary
- Project 1 Substation Operational Boundary
- Project 2 Substation 1km Radii
- Project 2 Substation 5km Study Area
- Settlement
- Public Right of Way
- Stour Valley Path
- Essex Way
- Reclassified Cycle Route
- Railway
- A Road
- B Road

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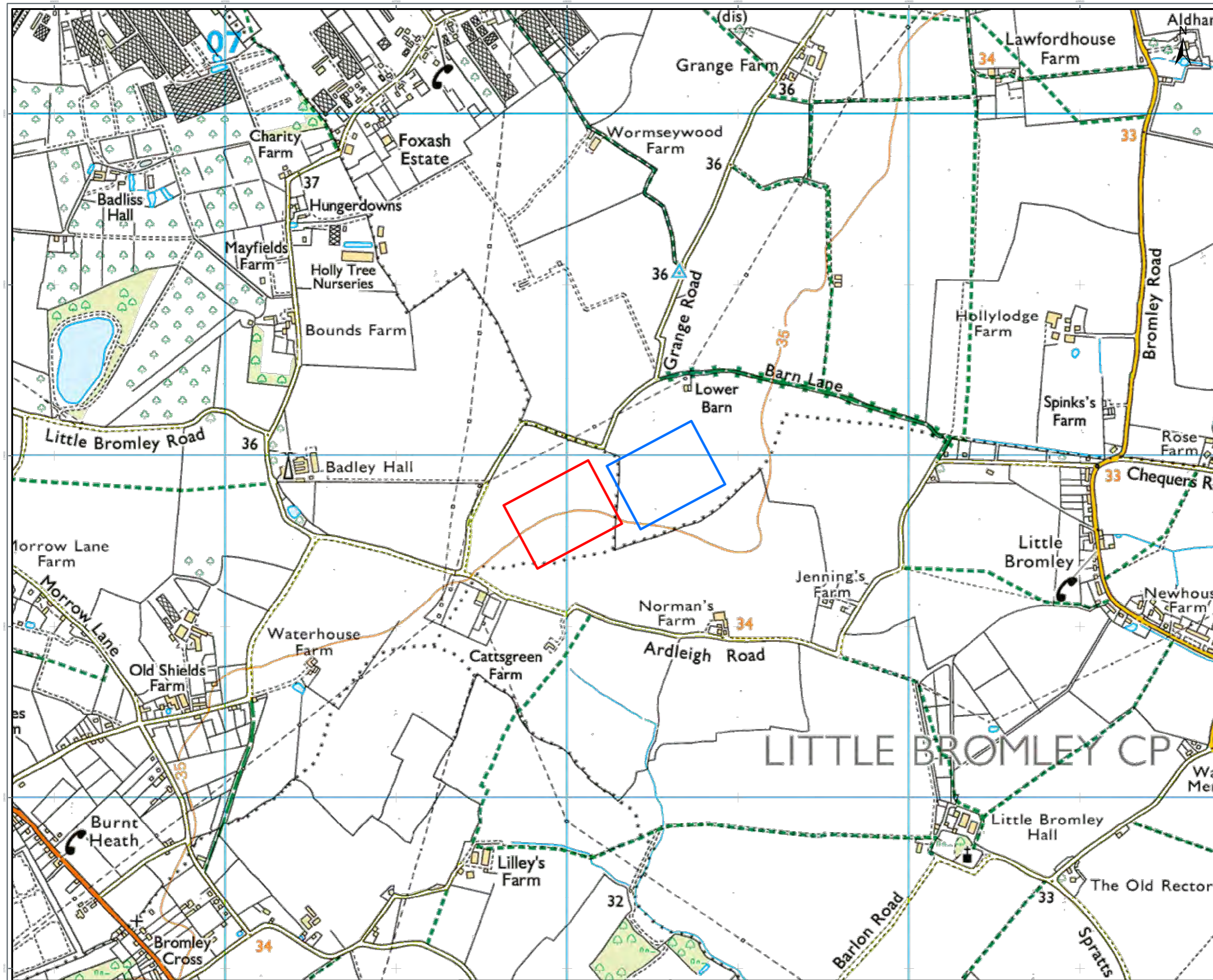
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 Principal Visual Receptors**

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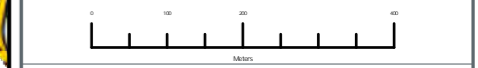
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LEGEND

- Project 2 Substation Operational Boundary
- Project 1 Substation Operational Boundary



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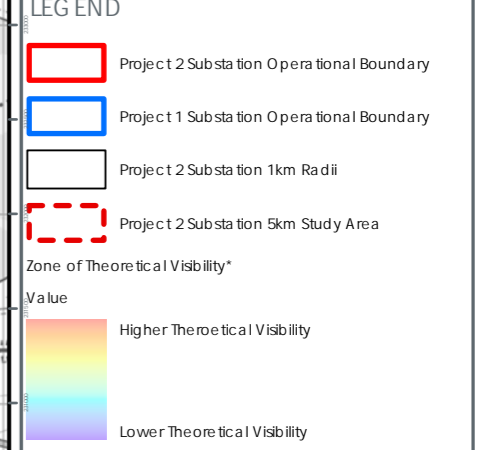
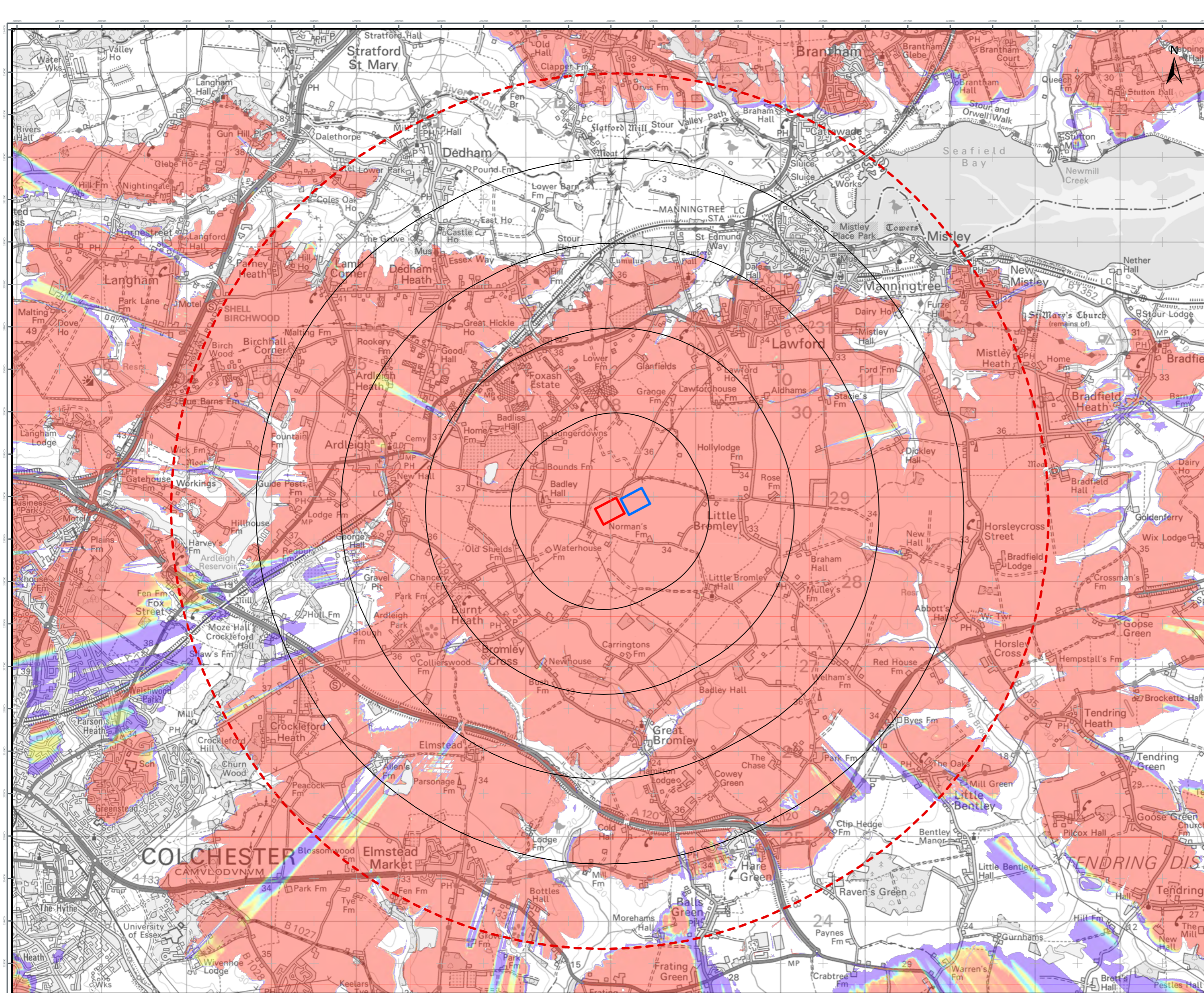
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Proposed Development**

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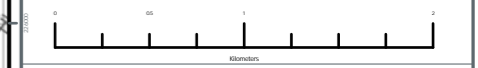
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DTM:	EA LIDAR 1m DTM 2022	Surface features:	Excluded
DTM resolution:	4m	Earth curvature:	Included



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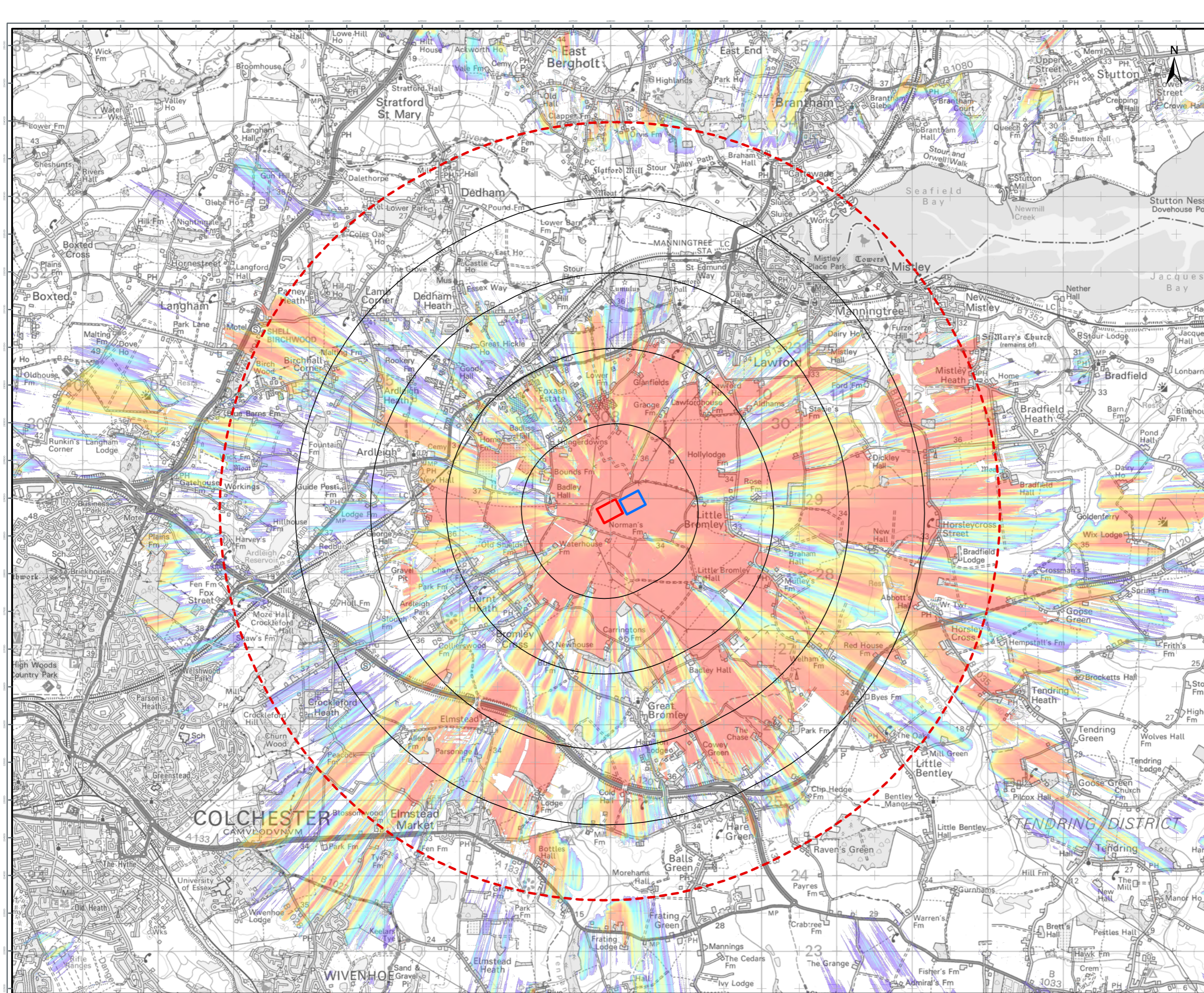
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Bare Ground ZTV**

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Sheet No: 1 of 1
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LEGEND

- Project 2 Substation Operational Boundary
- Project 1 Substation Operational Boundary
- Project 2 Substation 1km Radii
- Project 2 Substation 5km Study Area

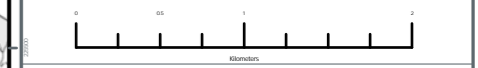
Zone of Theoretical Visibility*

Value

Higher Theoretical Visibility

Lower Theoretical Visibility

*Subst. Height:	15m	Observer height:	2m
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DTM resolution:	4m	Earth curvature:	Included



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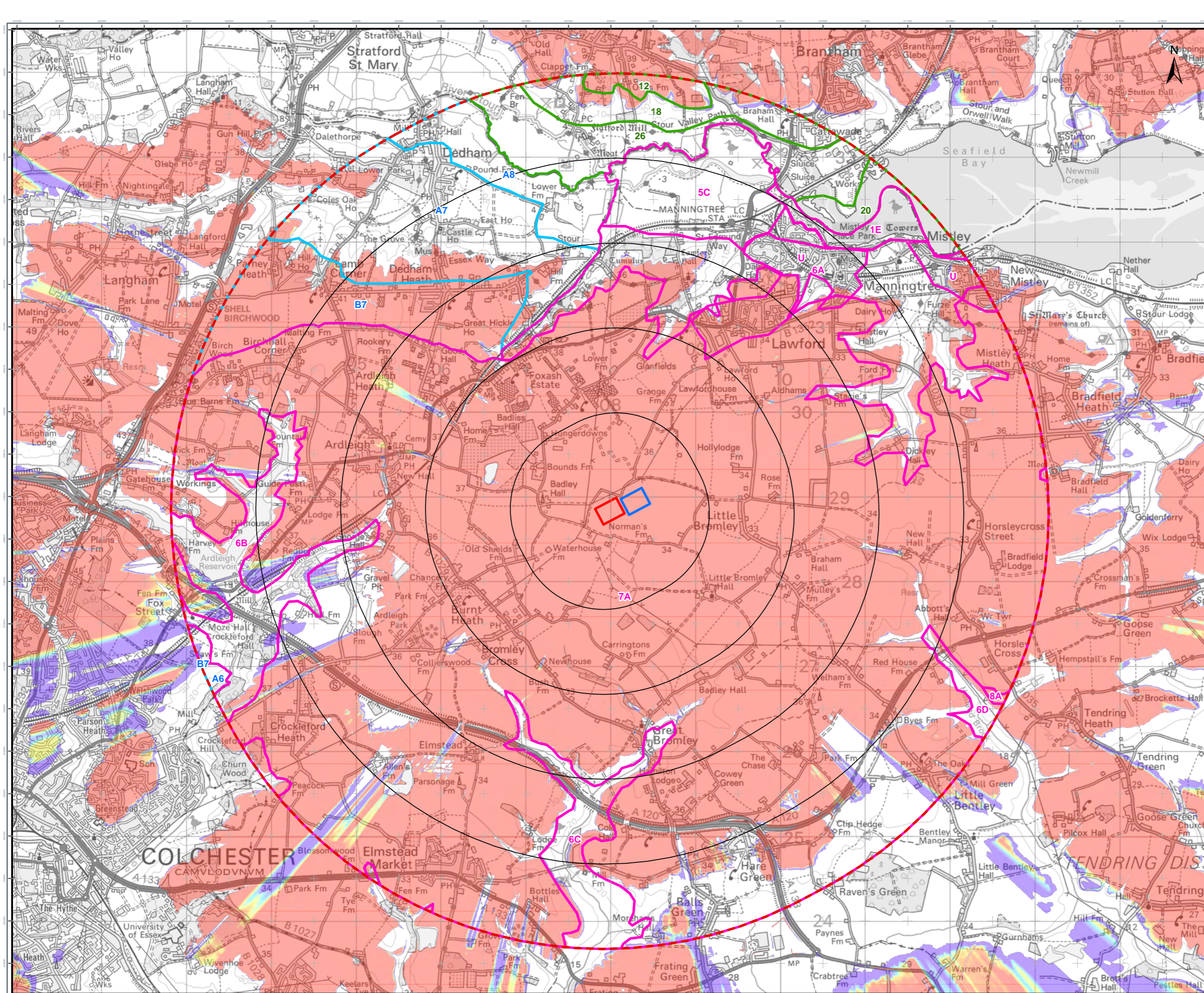
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Screened ZTV**

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Sheet No: 1 of 1
SCALE: 1:40,000 PLOT SIZE: A3 DATE: 05/08/2023 PROJECTION: British National Grid





LEG END

- Project 2 Substation Operational Boundary
- Project 1 Substation Operational Boundary
- Project 2 Substation 1km Radii
- Project 2 Substation 5km Study Area
- Tendring District Landscape Character

Source: Tendring District Landscape Character Assessment 2001

- 1E. Open Estuarine/Coastal Marsh: Stour Estuary Marshes
- 5C. River Floodplains: Catway Marshes
- 6A. Clay Valleys: Stour Valley System
- 6B. Clay Valleys: Ardleigh Valley System
- 6C. Clay Valleys: Alresford Valley System
- 6D. Clay Valleys: Holland Valley System
- 7A. Heathland Plateaux: Bromley Heaths
- 8A. Clay Plateaux: Tendring and Wix Clay Plateau
- U. Urban Area.

Babergh and Mid Suffolk Landscape Character

Joint Babergh and Mid Suffolk District Council Landscape Guidance 2015

- 12. Plateau Farmlands
- 18. Rolling Valley Farmlands
- 20. Saltmarsh & Inter-tidal Flats
- 26. Valley Meadowlands

Colchester Landscape Character

Colchester Borough Landscape Character Assessment 2005

- A6. River Valley - Ardleigh River Valley
- A7. River Valley - Stour River Valley Slopes
- A8. River Valley - Stour River Valley Floor
- B7. Farmland Plateau - Langham Farmland Plateau

Zone of Theoretical Visibility*

Value

Higher Theoretical Visibility

Lower Theoretical Visibility

*Subst. Height: 15m Observer height: 2m
 DTM: EA LIDAR 1m DTM 2022 Surface features: Excluded
 DTM resolution: 4m Earth curvature: Included

Scale: 1:4000

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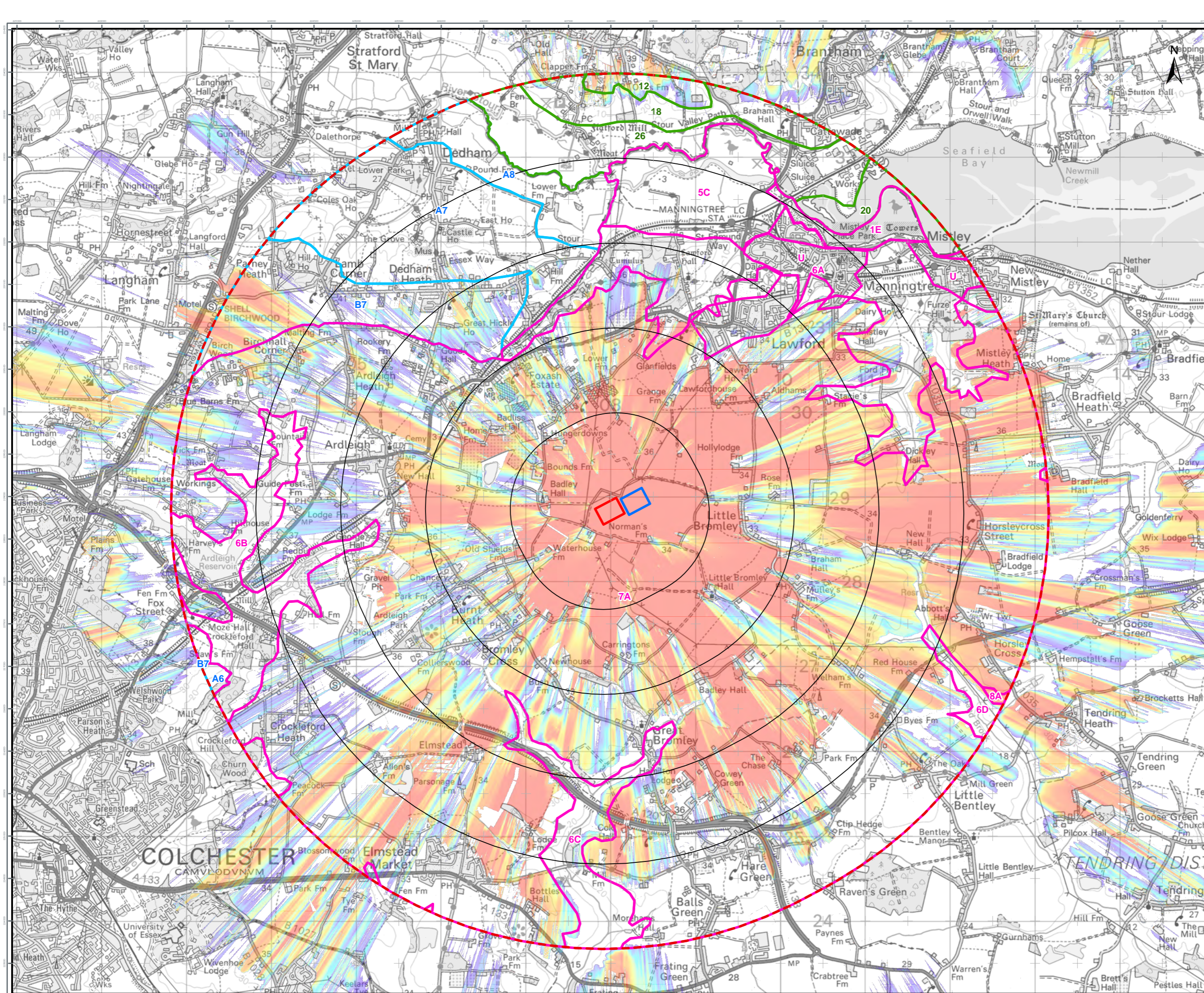
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DRAWING NUMBER: 05356.00010.0325.0

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- LEGEND**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
 - Tendring District Landscape Character

Source: Tendring District Landscape Character Assessment 2001

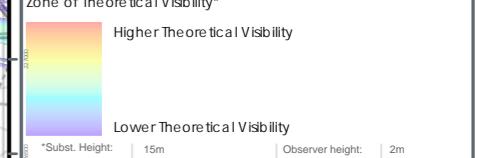
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- 5C. River Floodplains, Cattaway Marshes
- 6A. Clay Valleys, Stour Valley System
- 6B. Clay Valleys, Ardleigh Valley System
- 6C. Clay Valleys, Aireford Valley System
- 6D. Clay Valleys, Holland Valley System
- 7A. Heathland Plateau, Bromley Heaths
- 8A. Clay Plateau, Tendring and Wix Clay Plateau
- U. Urban Area.

Source: Joint Babergh and Mid Suffolk District Council Landscape Guidance 2015

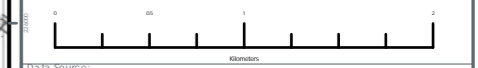
- 12. Plateau Farmlands
- 18. Rolling Valley Farmlands
- 20. Saltmarsh & Inter-tidal Flats
- 26. Valley Meadowlands

Source: Colchester Borough Landscape Character Assessment 2005

- A6. River Valley - Ardleigh River Valley
- A7. River Valley - Stour River Valley Slopes
- A8. River Valley - Stour River Valley Floor
- B7. Farmland Plateau - Langham Farmland Plateau



*Subst. Height:	15m	Observer height:	2m
DTM:	EA LIDAR 1m DSM 2022	Surface features:	Included
DTM resolution:	4m	Earth curvature:	Included



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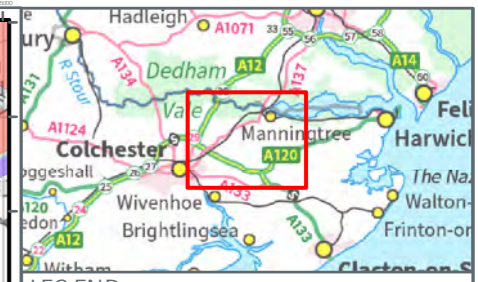
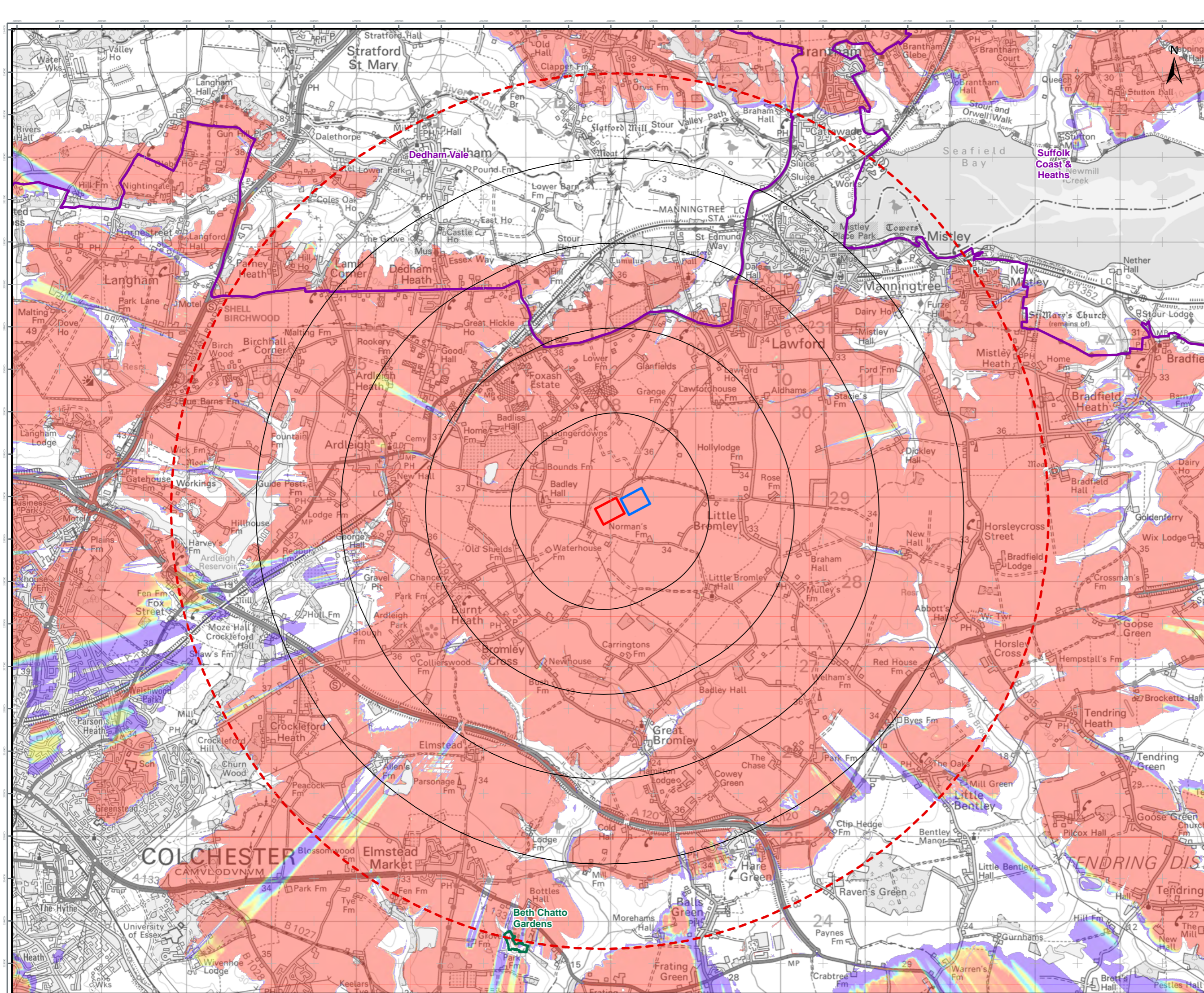
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Landscape Character Areas
and Screened ZTV**

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DRAWING NUMBER: 05356.00010.0328.0

Sheet No: 1 of 1
SCALE: 1:4000 PLOT SIZE: A3 DATE: 05/08/2023 PROJECTION: British National Grid





LEGEND

- Project 2 Substation Operational Boundary
- Project 1 Substation Operational Boundary
- Project 2 Substation 1km Radii
- Project 2 Substation 5km Study Area
- Area of Natural Beauty
- Parks and Gardens

Zone of Theoretical Visibility*

Value

*Subst. Height:	15m	Observer height:	2m
DTM:	EA LIDAR 1m DTM 2022	Surface features:	Excluded
DTM resolution:	4m	Earth curvature:	Included



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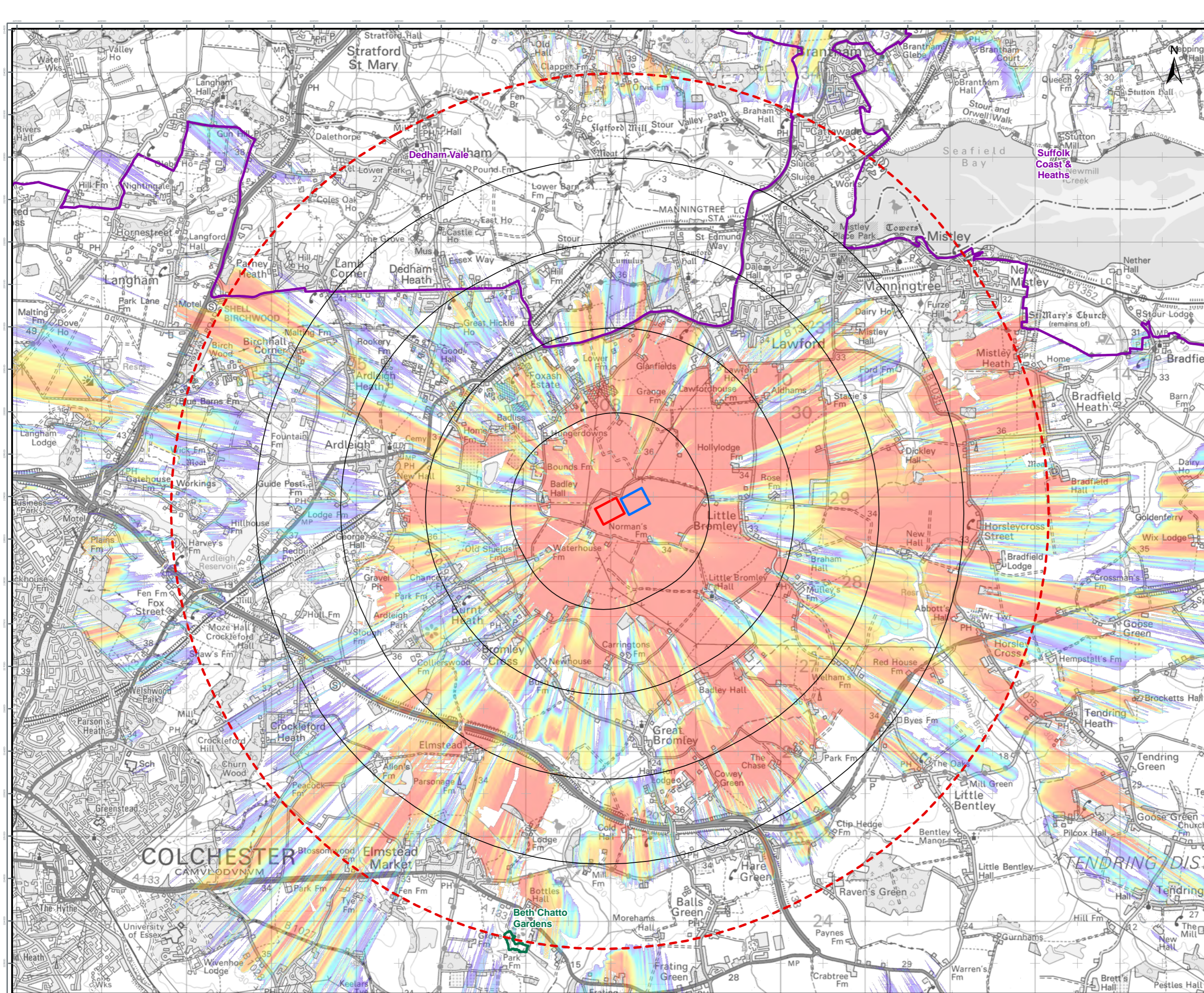
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Landscape Designations
and Screened ZTV**

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Sheet No: 1 of 1
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LEGEND

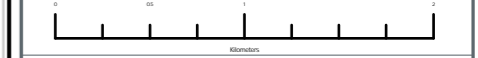
- Project 2 Substation Operational Boundary
- Project 1 Substation Operational Boundary
- Project 2 Substation 1km Radii
- Project 2 Substation 5km Study Area
- Area of Natural Beauty
- Parks and Gardens

Zone of Theoretical Visibility*

Higher Theoretical Visibility

Lower Theoretical Visibility

*Subst. Height:	15m	Observer height:	2m
DTM:	EA LIDAR 1m DTM 2022	Surface features:	Included
DTM resolution:	4m	Earth curvature:	Included



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FIVE ESTUARIES OFFSHORE WINDFARM

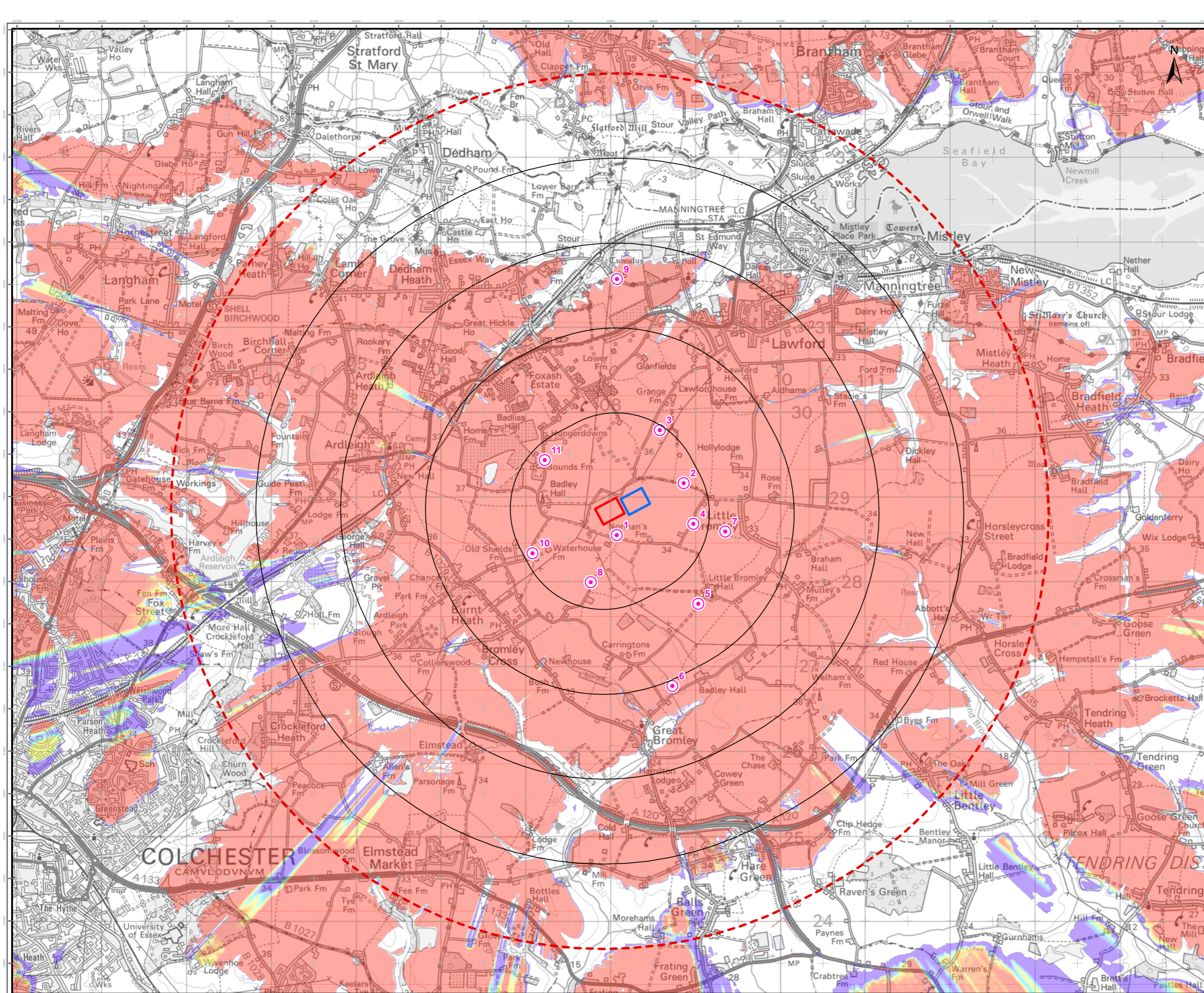
DRAWING TITLE:
**Figure 2.10b
Landscape Designations
and Screened ZTV**

VER	DATE	REMARKS	Drawn	Checked
1	19/02/2024	For Information	SH	JP

DRAWING NUMBER: 05356.00010.0330.0

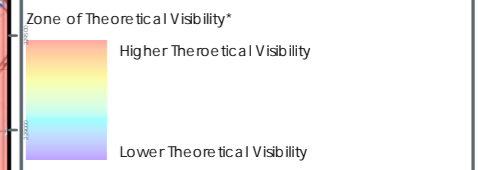
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SCALE: 1:4000 PLOT SIZE: A3 DATE: 05/08/2024 PROJECTION: British National Grid



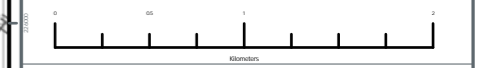


- LEG END**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
 - Viewpoint

1. Ardleigh Road near Noman's Farm
2. Barn Lane PRoW
3. Grange Road PRoW
4. Ardleigh Road near Jenning's Farm
5. Barton Road near Little Bromley
6. Badley Hall Road
7. Little Bromley Henge PRoW
8. Lilley's Farm
9. Essex Way, Dedham road
10. Waterhouse Lane
11. Bounds Farm, Hungerdown Lane



*Subst. Height:	15m	Observer height:	2m
DTM:	EA LIDAR 1m DTM 2022	Surface features:	Excluded
DTM resolution:	4m	Earth curvature:	Included



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PROJECT TITLE:
FIVE ESTUARIES OFFSHORE WINDFARM

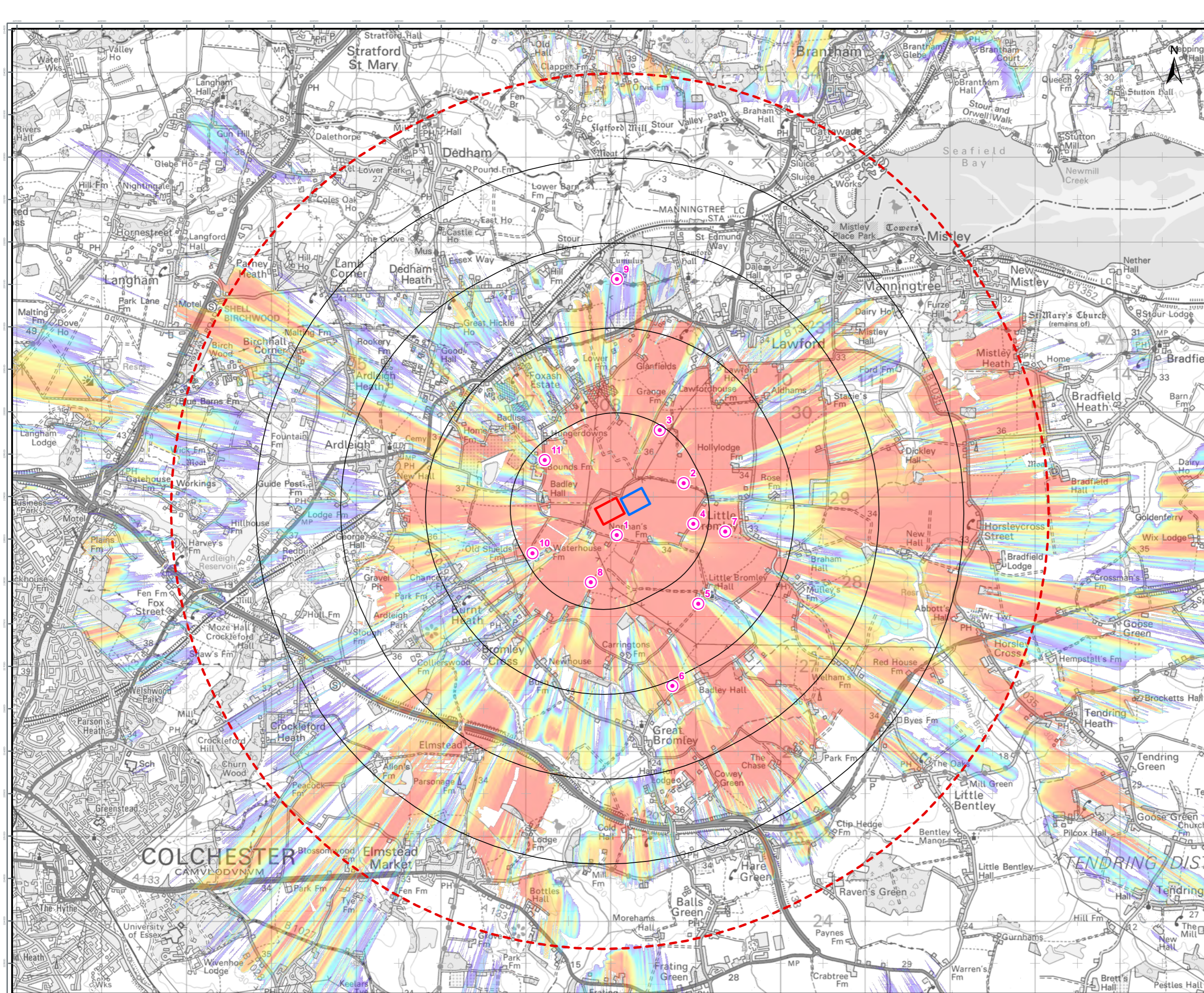
DRAWING TITLE:
Figure 2.11a Viewpoints and Bare Ground ZTV

VER	DATE	REMARKS	Drawn	Checked
1	19/02/2024	For Information	SH	JP

DRAWING NUMBER: 05356.00010.0331.0

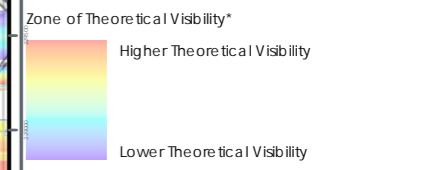
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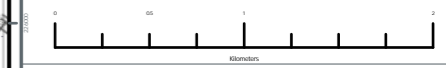


- LEG END**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
 - Viewpoint

1. Ardleigh Road near Noman's Farm
2. Barn Lane PRoW
3. G range Road PRoW
4. Ardleigh Road near Jenning's Farm
5. Barton Road near Little Bromley
6. Badley Hall Road
7. Little Bromley Henge PRoW
8. Lilley's Farm
9. Essex Way, Dedham road
10. Waterhouse Lane
11. Bounds Farm, Hungerdown Lane



*Subst. Height:	15m	Observer height:	2m
DTM:	EA LIDAR 1m DSM 2022	Surface features:	Included
DTM resolution:	4m	Earth curvature:	Included



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PROJECT TITLE:
FIVE ESTUARIES OFFSHORE WINDFARM

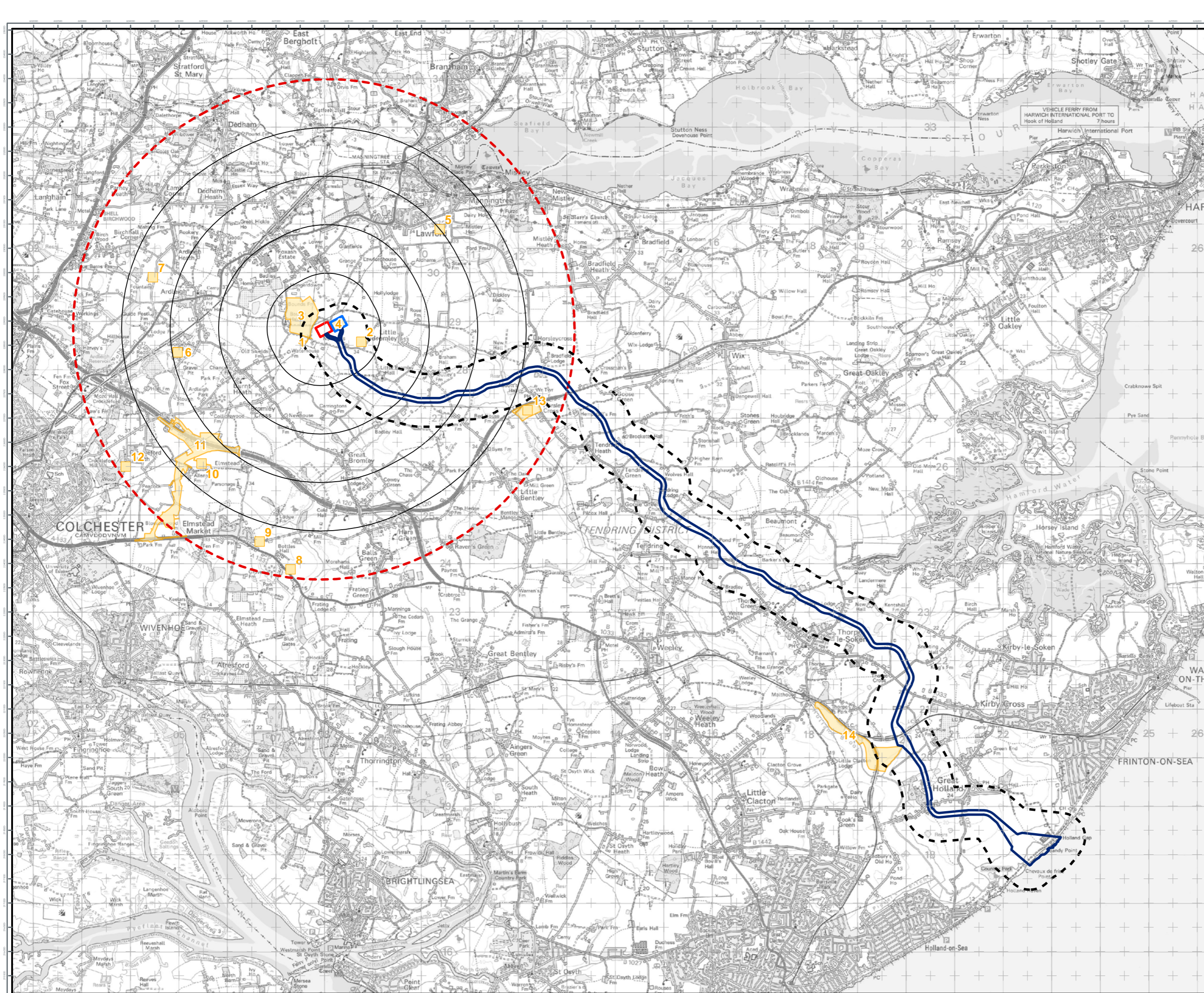
DRAWING TITLE:
Figure 2.11b Viewpoints and Screened ZTV

VER	DATE	REMARKS	Drawn	Checked
1	19/02/2024	For Information	SH	JP

DRAWING NUMBER: 05356.00010.0332.0

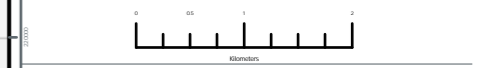
Sheet No: 1 of 1
SCALE: 1:4000 PLOT SIZE: A3 DATE: 05/03/2024 PROJECTION: British National Grid





- LEG END**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
 - Cable Corridor
 - Cable Route 500m Radius
 - Cumulative Development
 - Cumulative Development Area

1. 21/02070/FUL - 50MW Battery Energy Storage System, Ardleigh Road
2. 18/00832/OHL - 132kV Overhead Line Modifications
3. National Grid EACN Substation
4. North Fals O'nSS
5. 22/0142/DETAIL - Industrial Park, Horsycross Roundabout, A120
6. 21/00197/DETAIL - 485 Dwellings, La wford
7. ESS/42/22/TEN, ESS/19/18/TEN, ESS/29/20/TEN - Land fill Gas Fuelled Electricity Generating Station
8. 21/01184/LUEX - Motorhomes / Caravans Storage, near Ardleigh
9. 22/02076/FUL - 86 Dwellings, Clacton Road
10. 19/00497/OHL - Diversion and Relocation of Overhead Line 1022/01782/FUL - B8 Storage and Distribution Centre
11. CC/TEN/31/21 - A120 and A133 Road Link
12. Tendring Colchester Garden Community
13. 22/01047/FUL - Land south-west of Horsley Cross Roundabout, Clacton Road
14. 21/00393/EIA SCR - Solar Farm



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PROJECT TITLE:
FIVE ESTUARIES OFFSHORE WIND FARM

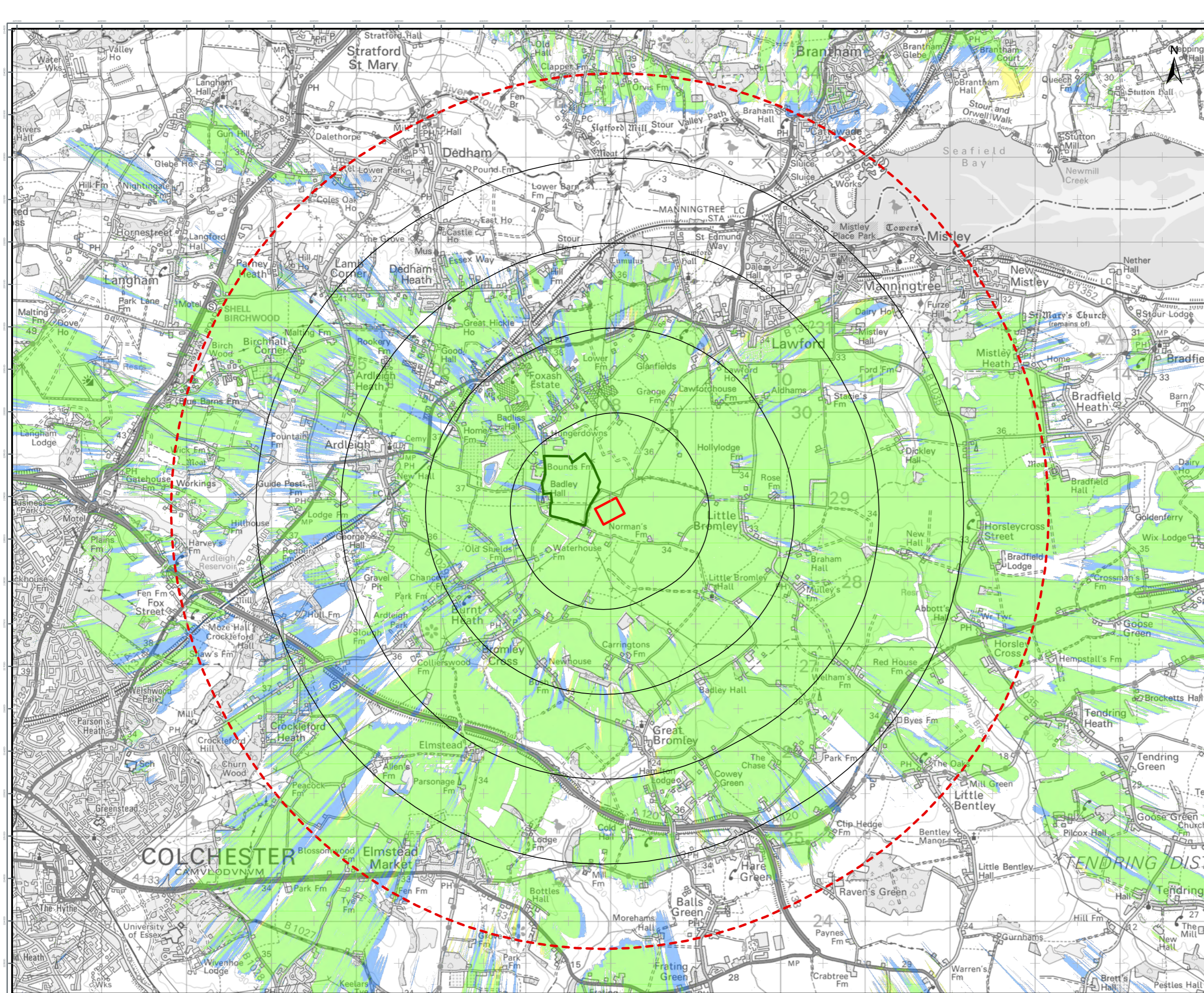
DRAWING TITLE:
**Figure 2.13
Cumulative Developments**

VER	DATE	REMARKS	Drawn	Checked
1	23/02/2024	For Information	SH	JP

DRAWING NUMBER: 05356.00010.0336.0

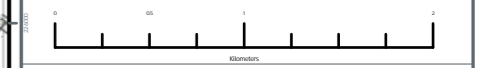
Sheet No: 1 of 1
SCALE: 1:1000 PLOT SIZE: A3 DATE: 05/02/2024 PROJECTION: British National Grid





- LEG END**
- Project 2 Substation Operational Boundary
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
 - National Grid Substation Zone
- Cumulative ZTV***
- Project 1 Substation Theoretically Visible
 - National Grid Substation Zone Theoretically Visible
 - Combined Theoretical Visibility

*NG Subst. Height:	15m	Observer height:	2m
VE Subst. Height:	15m	Surface features:	Included
DTM:	EA LIDAR 1m DTM 2022	Earth curvature:	Included
DTM resolution:	4m		



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PROJECT TITLE:
FIVE ESTUARIES OFFSHORE WINDFARM

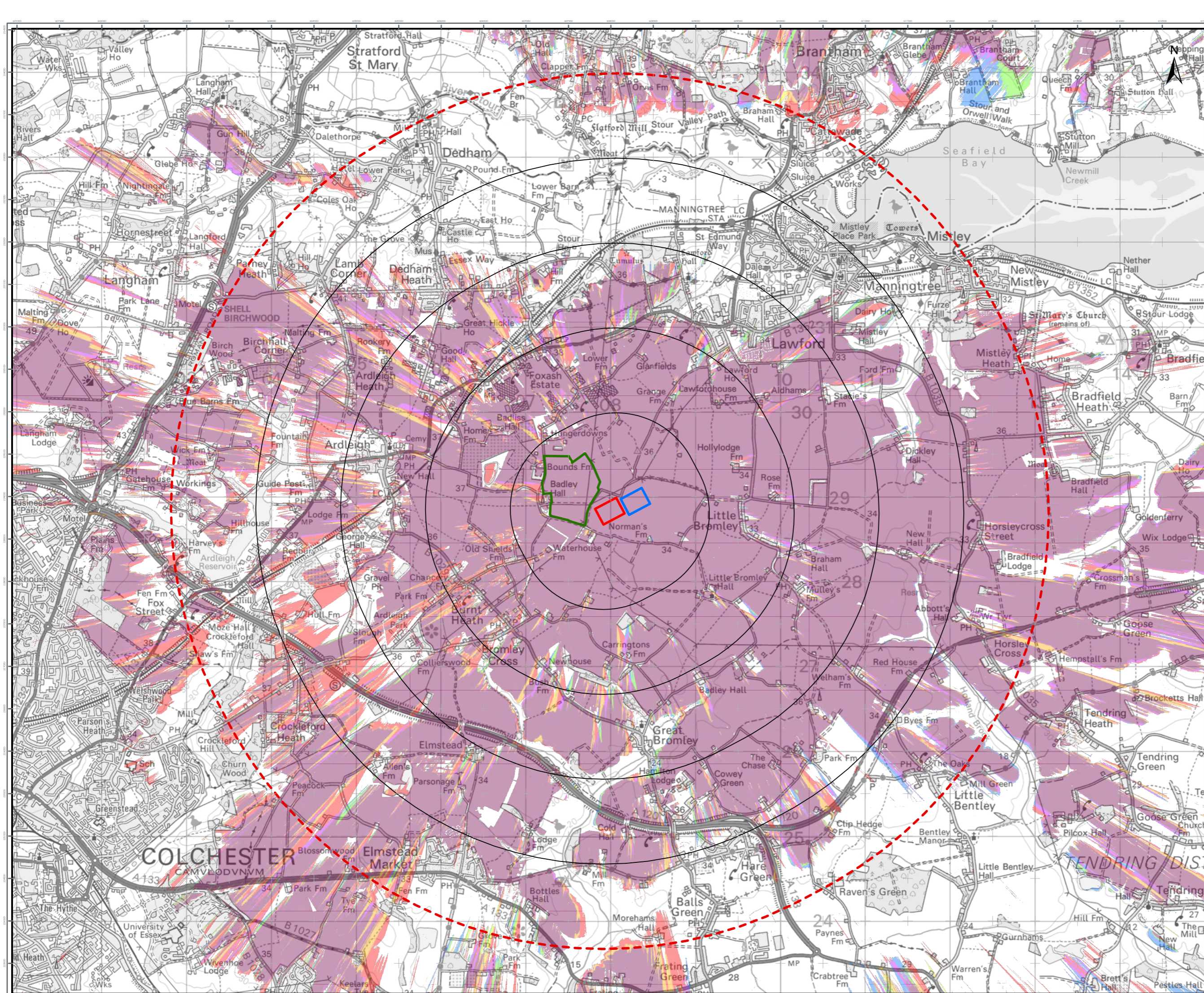
DRAWING TITLE:
**Figure 2.14
Cumulative ZTV with National Grid**

VER	DATE	REMARKS	Drawn	Checked
1	19/02/2024	For Information	SH	JP

DRAWING NUMBER: 05356.00010.0337.0

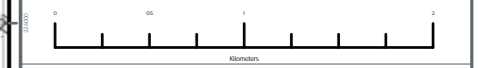
Sheet No: 1 of 1
SCALE: 1:4000 PLOT SIZE: A3 DATE: 05/08/2024 PROJECTION: British National Grid





- LEGEND**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - Project 2 Substation 1km Radii
 - Project 2 Substation 5km Study Area
 - National Grid Substation Zone
- Cumulative ZTV***
- Project 1 Substation Theoretically Visible
 - Project 2 Substation Theoretically Visible
 - National Grid Substation Zone Theoretically Visible
 - Project 1 Substation and Project 2 Substation Theoretically Visible
 - Project 1 Substation and National Grid Substation Zone Theoretically Visible
 - Project 2 Substation and National Grid Substation Zone Theoretically Visible
 - Combined Theoretical Visibility

*NF Subst. Height:	15m	Observer height:	2m
NG Subst. Height:	15m		
VE Subst. Height:	15m		
DTM:	EA LIDAR 1m DSM 2022	Surface features:	Included
DTM resolution:	4m	Earth curvature:	Included



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PROJECT TITLE:
FIVE ESTUARIES OFFSHORE WINDFARM

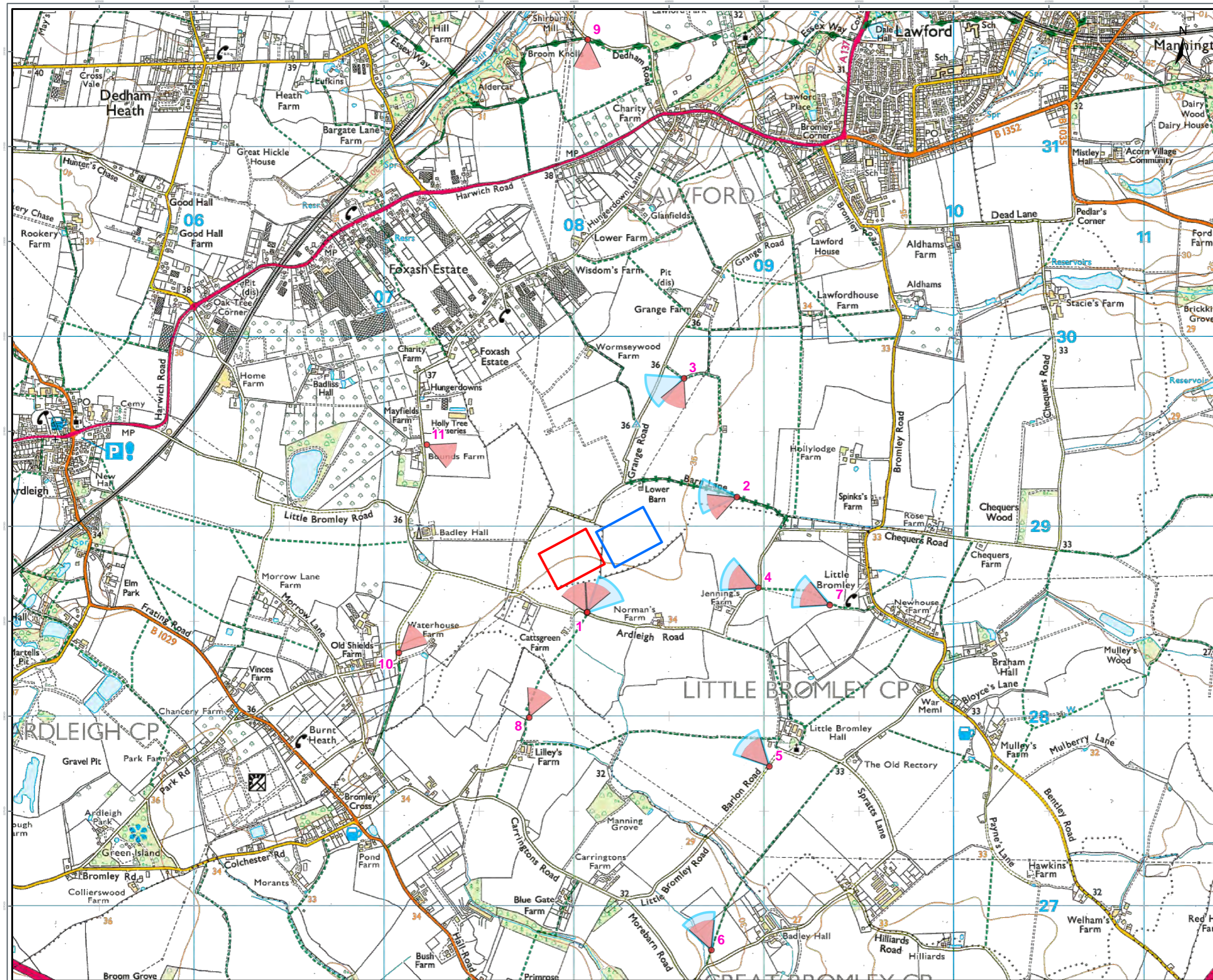
DRAWING TITLE:
**Figure 2.15
Cumulative ZTV with
National Grid and North Falls**

REV	DATE	REMARKS	Drawn	Checked
1	19/02/2024	For Information	SH	JP

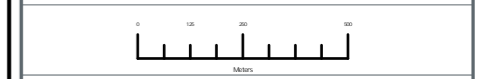
DRAWING NUMBER: 05356.00010.0338.0

Sheet No: 1 of 1
SCALE: 1:4000 PLOT SIZE: A3 DATE: 05/08/2024 PROJECTION: British National Grid





- LEG END**
- Project 2 Substation Operational Boundary
 - Project 1 Substation Operational Boundary
 - ▼ Viewpoint
1. Ardleigh Road near Norman's Farm
 2. Barn Lane PRoW
 3. Grange Road PRoW
 4. Ardleigh Road near Jennings's Farm
 5. Barton Road near Little Bromley
 6. Badley Hall Road
 7. Little Bromley Henge PRoW
 8. Lilley's Farm
 9. Essex Way, Dedham road
 10. Waterhouse Lane
 11. Bounds Farm, Hungerdown Lane
- Cumulative View



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PROJECT TITLE:
FIVE ESTUARIES OFFSHORE WIND FARM

DRAWING TITLE:
Figure 2.16 Viewpoints Location Plan

VER	DATE	REMARKS	Drawn	Checked
1	23/02/2024	For Information	SH	JP

DRAWING NUMBER: 05356.00010.0341.0

Sheet No: 1 of 1
SCALE: 1:10000 PLOT SIZE: A3 DATE: 05/08/2024 PROJECTION: British National Grid





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