

East Anglia ONE North Offshore Windfarm

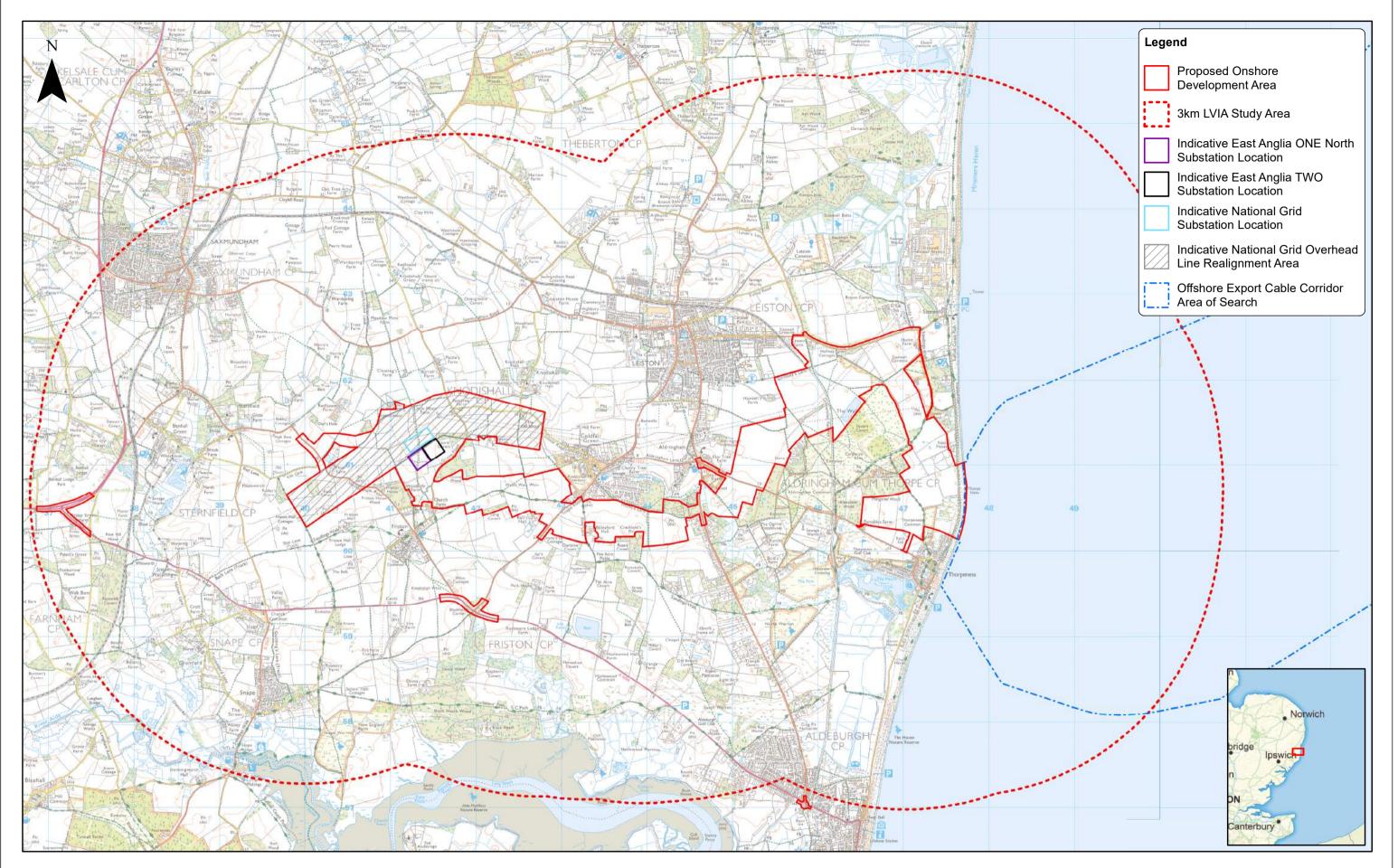
Chapter 29 Landscape and Visual Impact

Figures

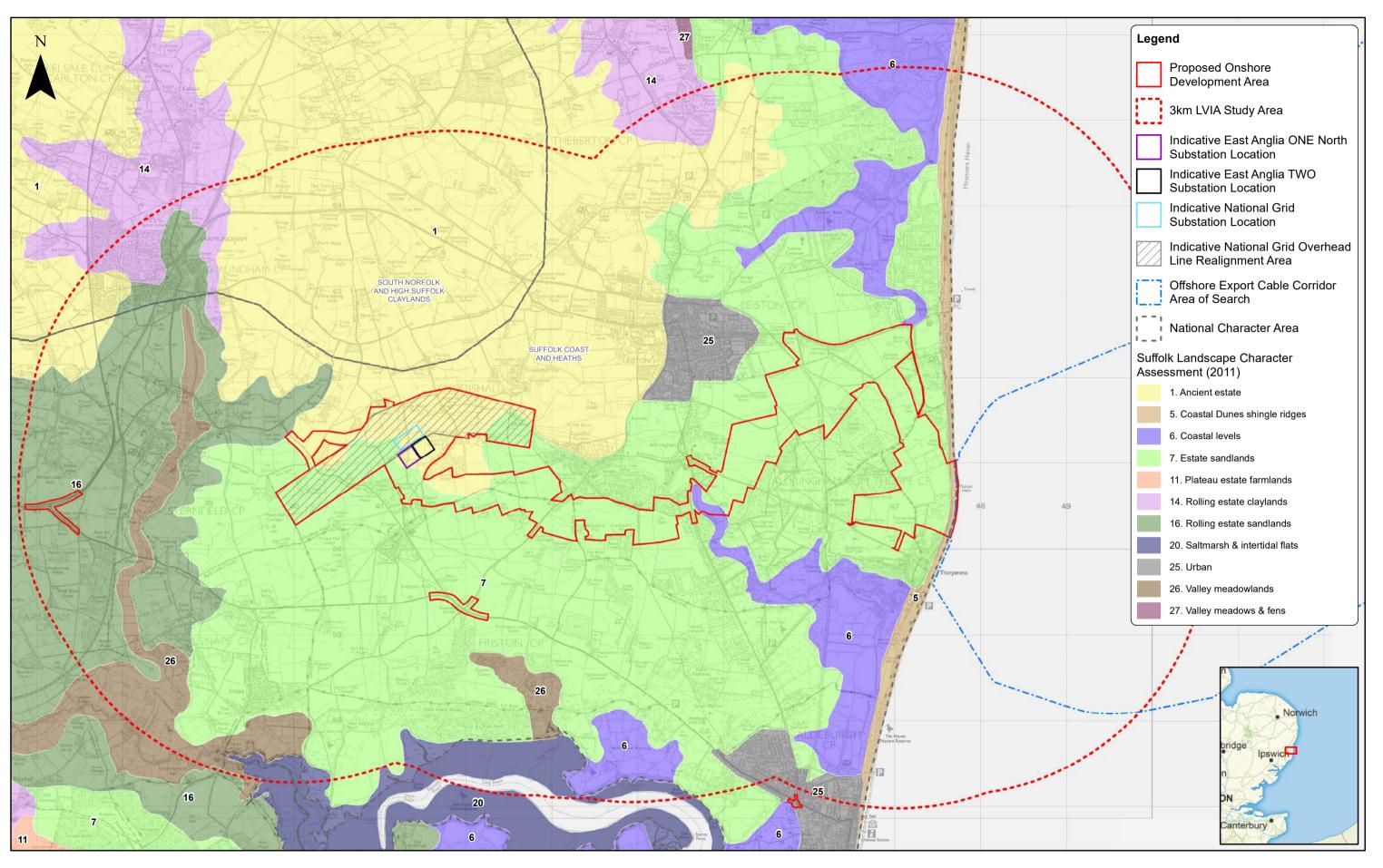
Preliminary Environmental Information Volume 2

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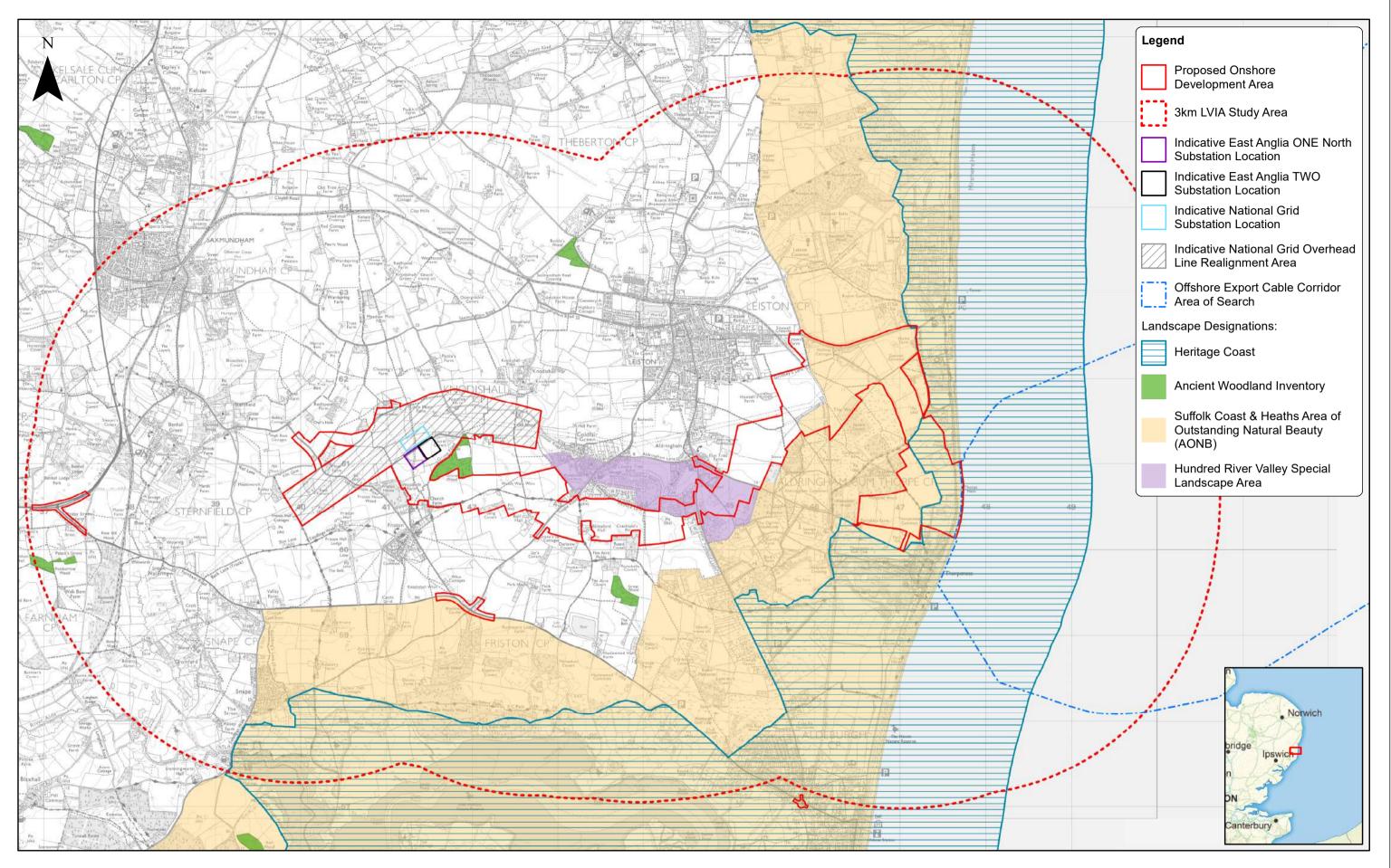
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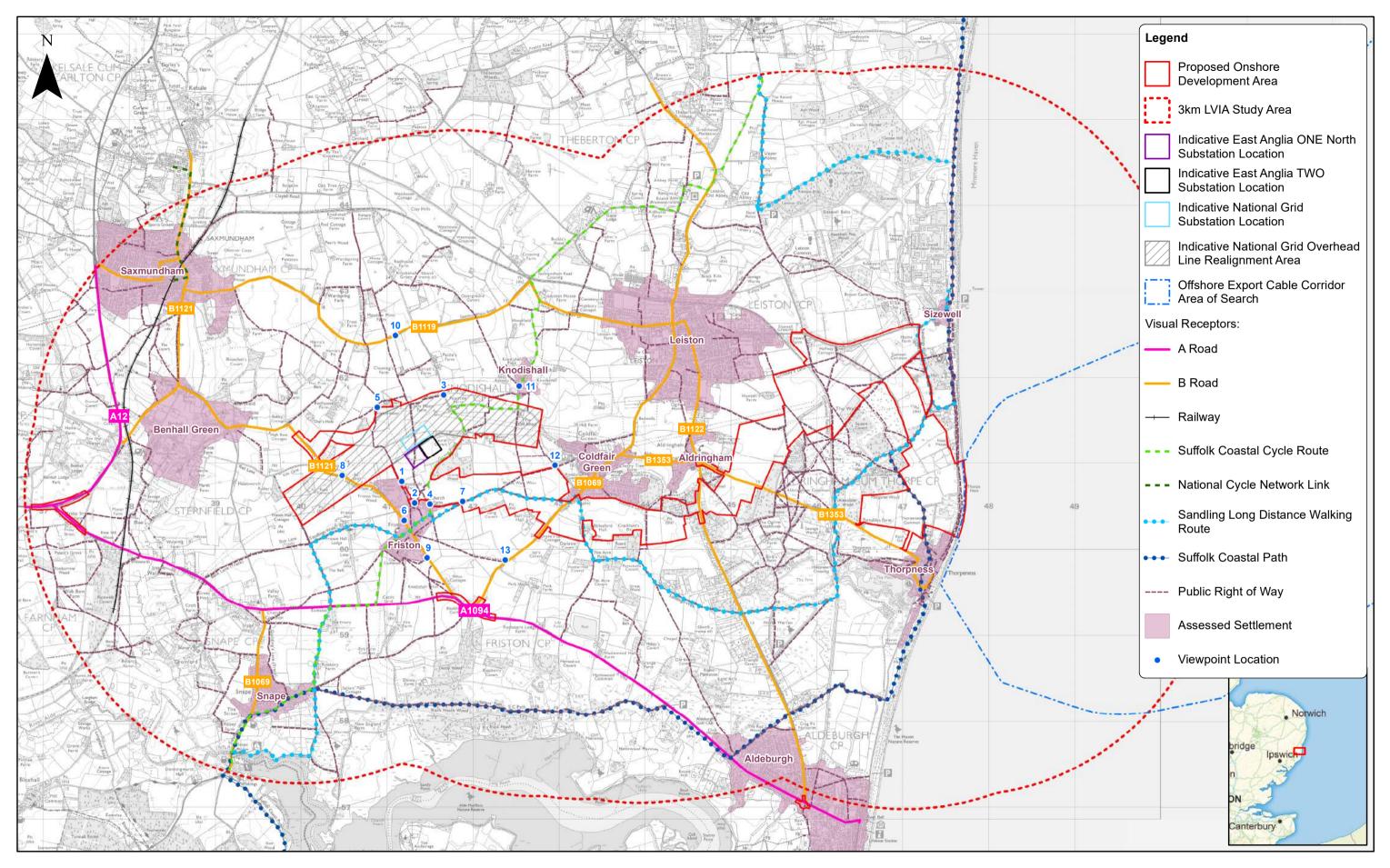


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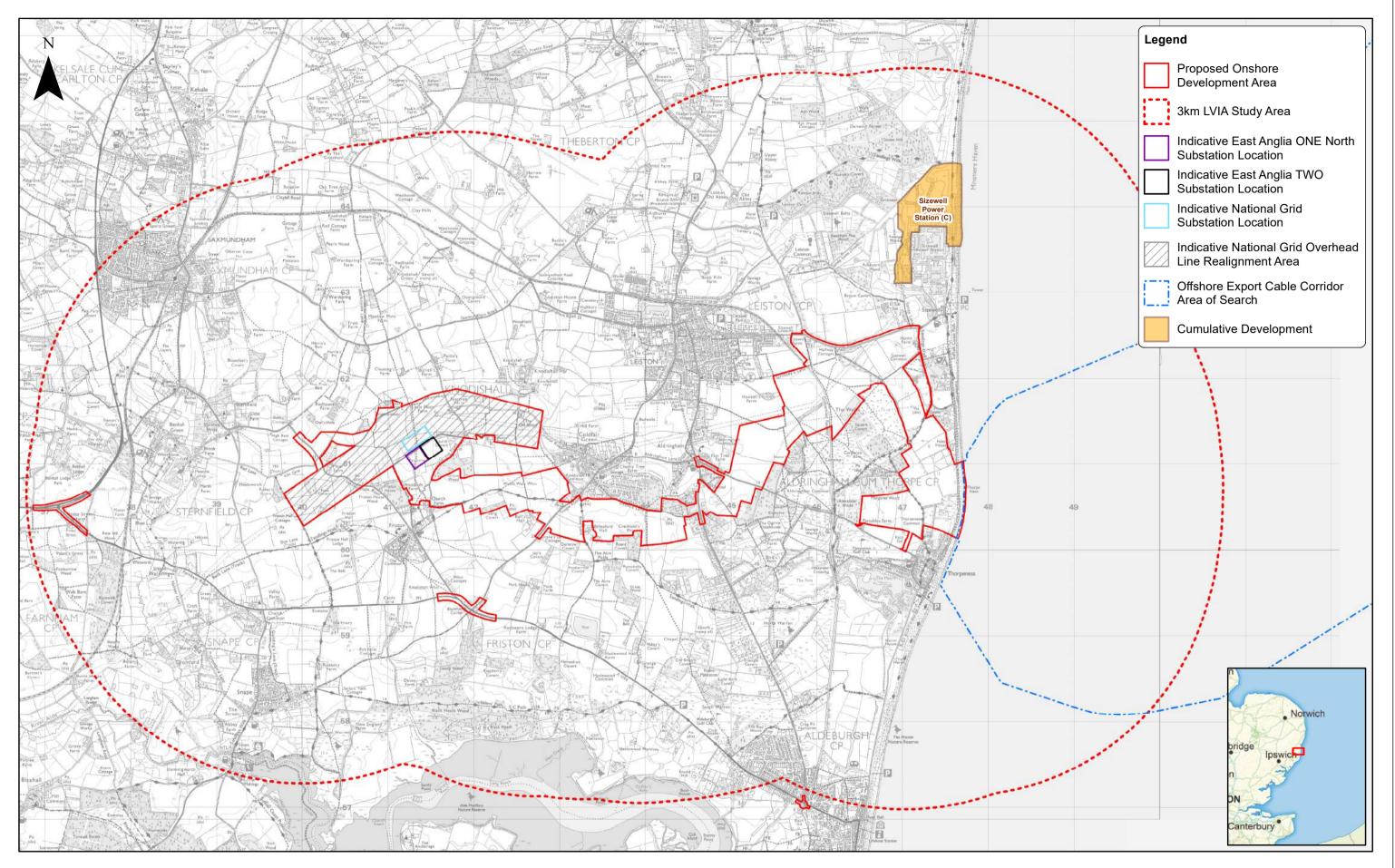


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Proposed Onshore Development Area

Assessed Settlement

— B Road

Sandling Long Distance Walking Route

Public Right of Way

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| | 0 | Offshore Export Cable Corridor Area of Search |
| | | Site of Special Scientific Interest (SSSI) |
| | | Special Protection Area (SPA) |
| 1 | ••• | Sandling Long Distance Walking Route |
| | ••• | Suffolk Coastal Path |
| | | Public Right of Way |
| | <u>.</u> | |
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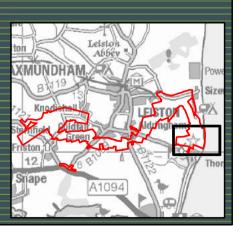
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| osed | Onshore | Develo | pment Area |
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- 3km LVIA Study Area
 - Indicative East Anglia ONE North Substation Location
 - Indicative East Anglia TWO Substation Location
 - Indicative National Grid Substation Location
 - Indicative National Grid Overhead Line Realignment Area
- Offshore Export Cable Corridor Area of Search
- Existing Woodland (OS Vectormap District)
- Suffolk Landscape Character Assessment (2011)

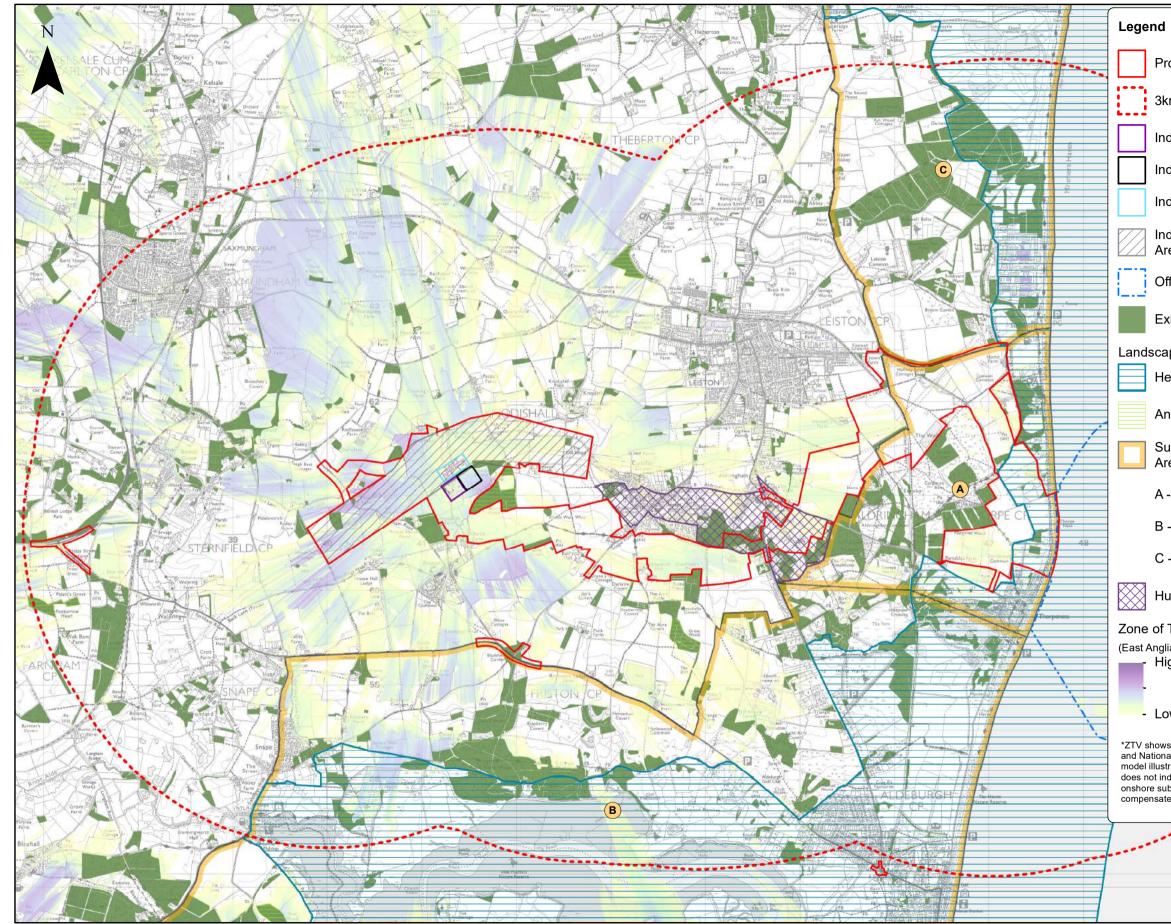
 - 1. Ancient estate claylands
 - 5. Coastal Dunes shingle ridges
 - 6. Coastal levels
 - 7. Estate sandlands
- Areas outwith OPEN sub-divisions
 - 14. Rolling estate claylands
 - 16. Rolling estate sandlands
 - 20. Saltmarsh & intertidal flats
 - 25. Urban
 - 26. Valley meadowlands

Zone of Theoretical Visibility* (East Anglia ONE North & National Grid) Higher Theoretical Visibility

| Substation Height: | Various |
|--------------------|----------|
| DSM: | Lidar 2m |
| DSM resolution: | 2m |
| Observer height: | 2m |
| Surface features: | Included |
| Earth curvature: | Included |

· Lower Theoretical Visibility

*ZTV shows higher to lower visibility based on the amount of the onshore substation and National Grid substation visible as represented by a grid of points across a 3D model representing the Rochdale Envelope of the onshore substation site. The ZTV does not indicate the decrease in scale that occurs with increased distance from the onshore substation. Areas of existing woodland have been masked out to compenste for limitations in the ZTV production process.



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Proposed Onshore Development

3km LVIA Study Area

Indicative East Anglia ONE North Substation Location

Indicative East Anglia TWO Substation Location

Indicative National Grid Substation Location

Indicative National Grid Overhead Line Realignment Area

Offshore Export Cable Corridor Area of Search

Existing Woodland (OS Vectormap District)

Landscape Designations:

Heritage Coast

Ancient Woodland Inventory

Suffolk Coast & Heaths Area of Outstanding Natural Beauty (AONB)

A - AONB between Thorpeness, Sizewell and Leiston

B - AONB between Thorpeness, Aldeburgh and Snape

C - AONB Sizewell and Dunwich Forest

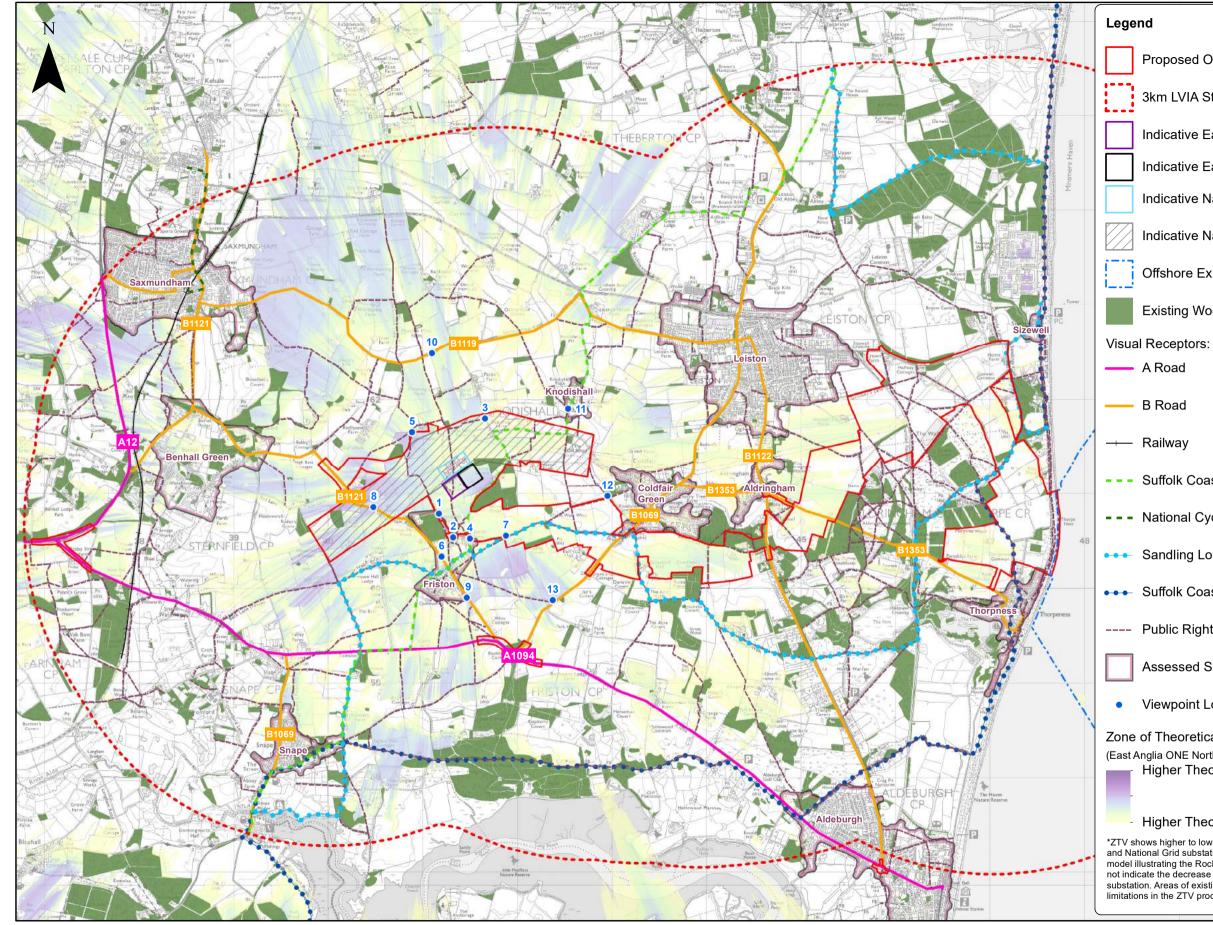
Hundred River Valley Special Landscape Area

Zone of Theoretical Visibility* (East Anglia ONE North & National Grid) Higher Theoretical Visibility

| wer | Theoretical | Visibility |
|-----|-------------|------------|
| | | |

| Substation Height: | Various | | | | |
|--------------------|----------|--|--|--|--|
| DSM: | Lidar 2m | | | | |
| DSM resolution: | 2m | | | | |
| Observer height: | 2m | | | | |
| Surface features: | Included | | | | |
| Earth curvature: | Included | | | | |

*ZTV shows higher to lower visibility based on the amount of the onshore substation and National Grid substation visible as represented by a grid of points across a 3D model illustrating the Rochdale Envelope of the onshore substation site. The ZTV does not indicate the decrease in scale that occurs with increased distance from the onshore substation. Areas of existing woodland have been masked out to compensate for limitations in the ZTV production process.



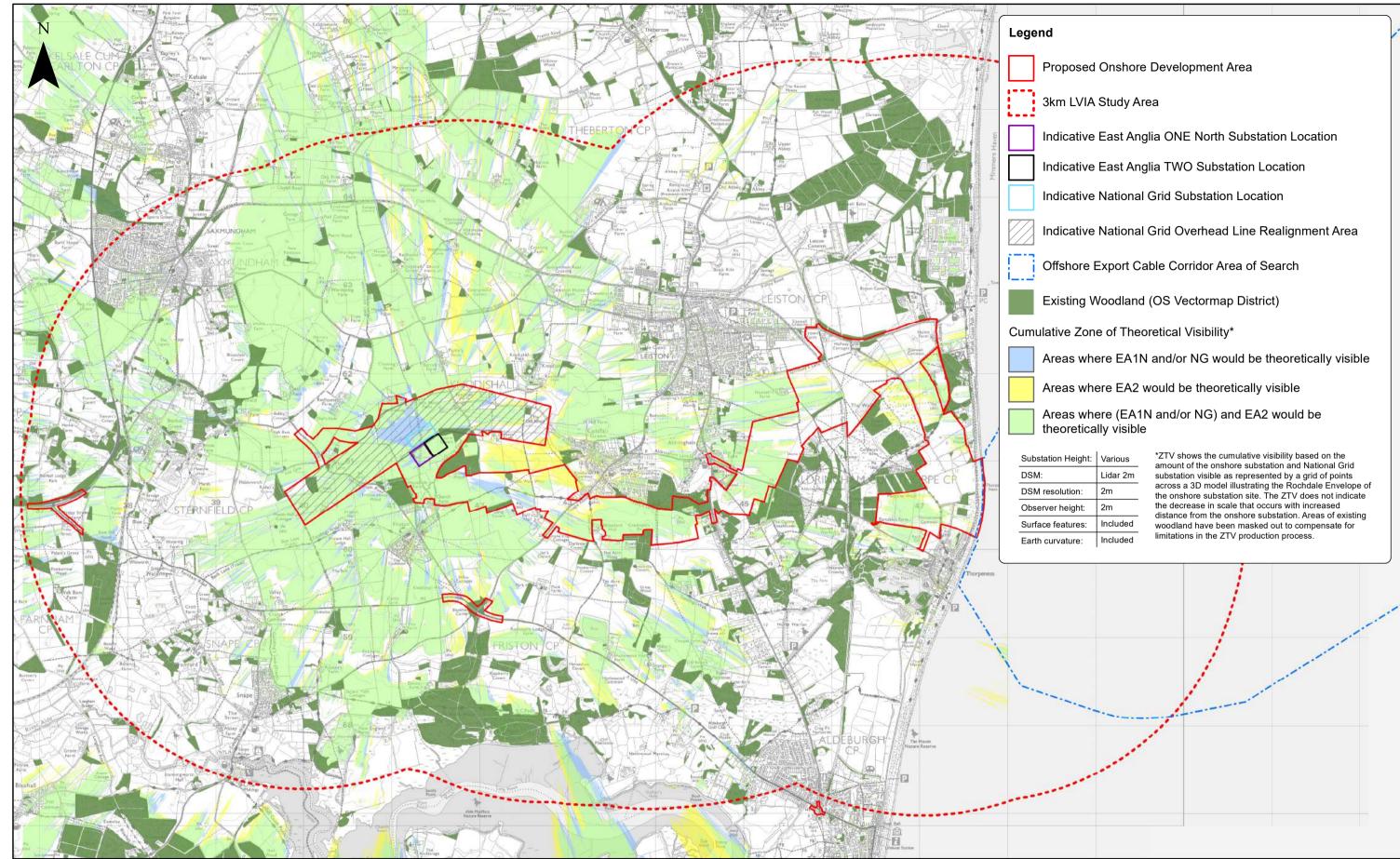
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Proposed Onshore Development Area

- 3km LVIA Study Area
- Indicative East Anglia ONE North Substation Location
- Indicative East Anglia TWO Substation Location
- Indicative National Grid Substation Location
- Indicative National Grid Overhead Line Realignment Area
- Offshore Export Cable Corridor Area of Search
 - Existing Woodland (OS Vectormap District)
- --- Suffolk Coastal Cycle Route
- --- National Cycle Network Link
- •••• Sandling Long Distance Walking Route
- ••• Suffolk Coastal Path
- ---- Public Right of Way
 - Assessed Settlement
- Viewpoint Location

| heoretical Visibility* | Substation Height: | Various | |
|----------------------------|--------------------|----------|--|
| ONE North & National Grid) | DSM: | Lidar 2m | |
| her Theoretical Visibility | DSM resolution: | 2m | |
| | Observer height: | 2m | |
| | Surface features: | Included | |
| her Theoretical Visibility | Earth curvature: | Included | |

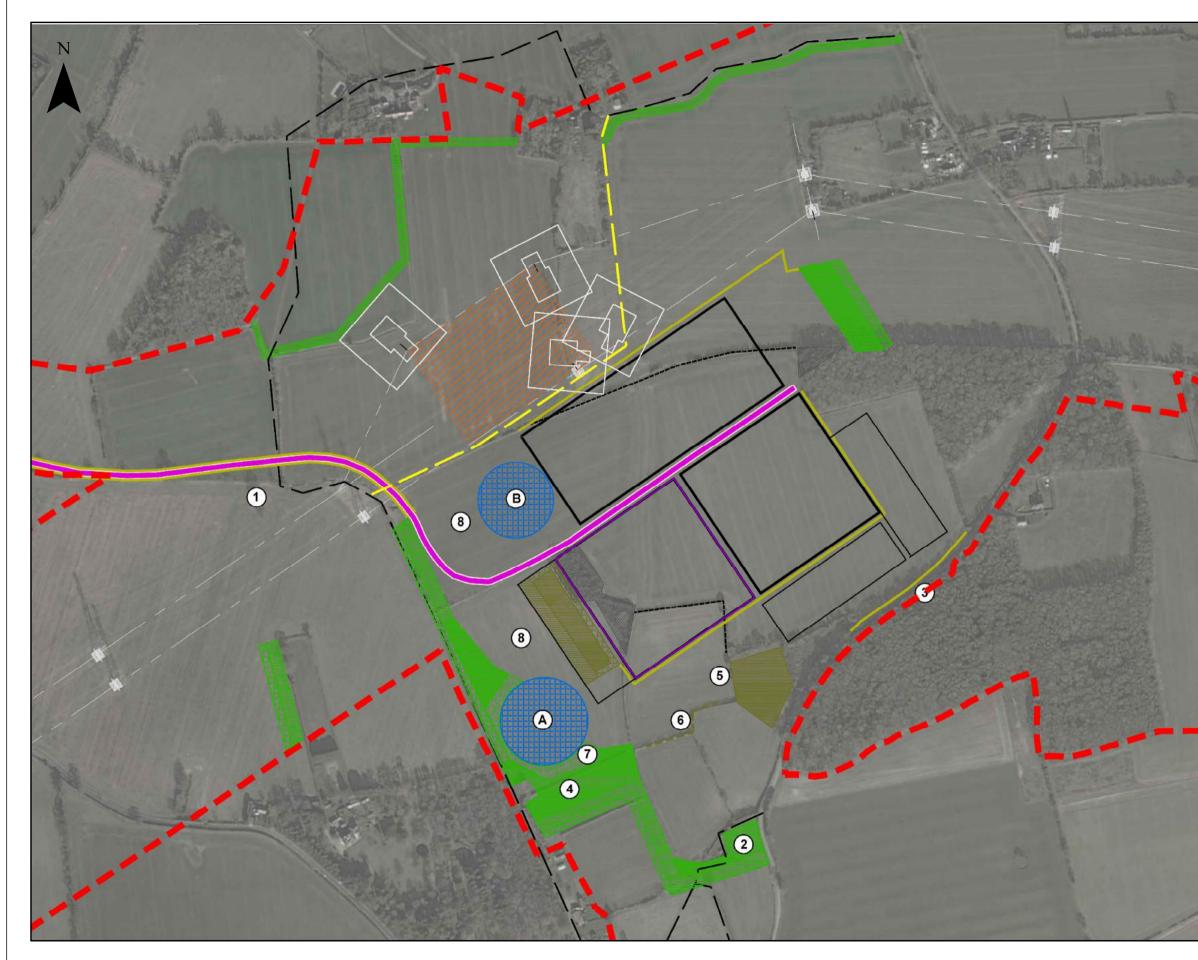
*ZTV shows higher to lower visibility based on the amount of the onshore substation and National Grid substation visible as represented by a grid of points across a 3D model illustrating the Rochdale Envelope of the onshore substation site. The ZTV does not indicate the decrease in scale that occurs with increased distance from the onshore substation. Areas of existing woodland have been masked out to compensate for limitations in the ZTV production process.



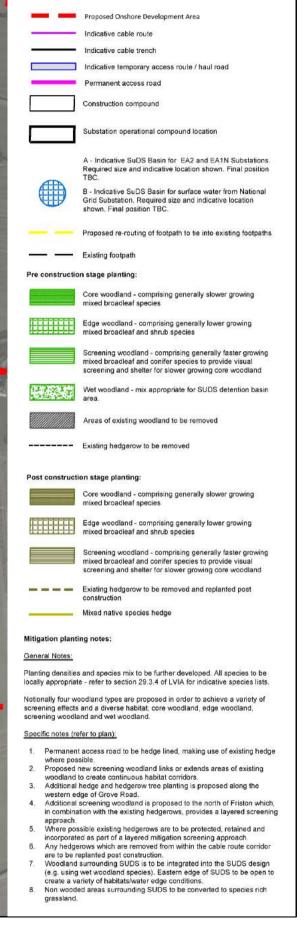
| | 3 | 17/01/2019 | ΤH | Document Reference Update | | | 1:40,000 | Km | East Anglia ONE North |
|------------|-----|------------|----|---------------------------|-----------|----|---------------------------------|--|-----------------------|
| | 2 | 06/12/2018 | LA | Second Issue (OPEN) | Prepared: | LA | Scale @ A3 | 0 0.5 1 2 | - Cumulative ZTV |
| RENEWABLES | 1 | 26/11/2018 | LA | Second Issue (OPEN) | Checked: | SM | To the fullest extent permitted | b The latest known information at the time of issue, and has been produced for your information only, the fibre of SI saw, and has been produced for your information on this map. The same that is all current to easily offer the same the contraction of this map. Ny law, we accept to responsibility or liability whether in contract, but (including negligence) or otherwise in respect of any phalo contained in the map and phalo the liable for mark loss damages or express gauges do youth entrors or omissions. | |
| | Rev | Date | Ву | Comment | Approved: | LT | | nation contained in the map and shall no be lader to any loss, dantage of expense cadeed by such ends of omissions. Ial data © Crown copyright All rights reserved 2018 Licence number 0100031673. | (EA1N & NG with EA2) |

| ht: | Various | |
|-----|----------|--|
| | Lidar 2m | |
| | 2m | |
| | 2m | |
| 5: | Included | |
| | Included | |

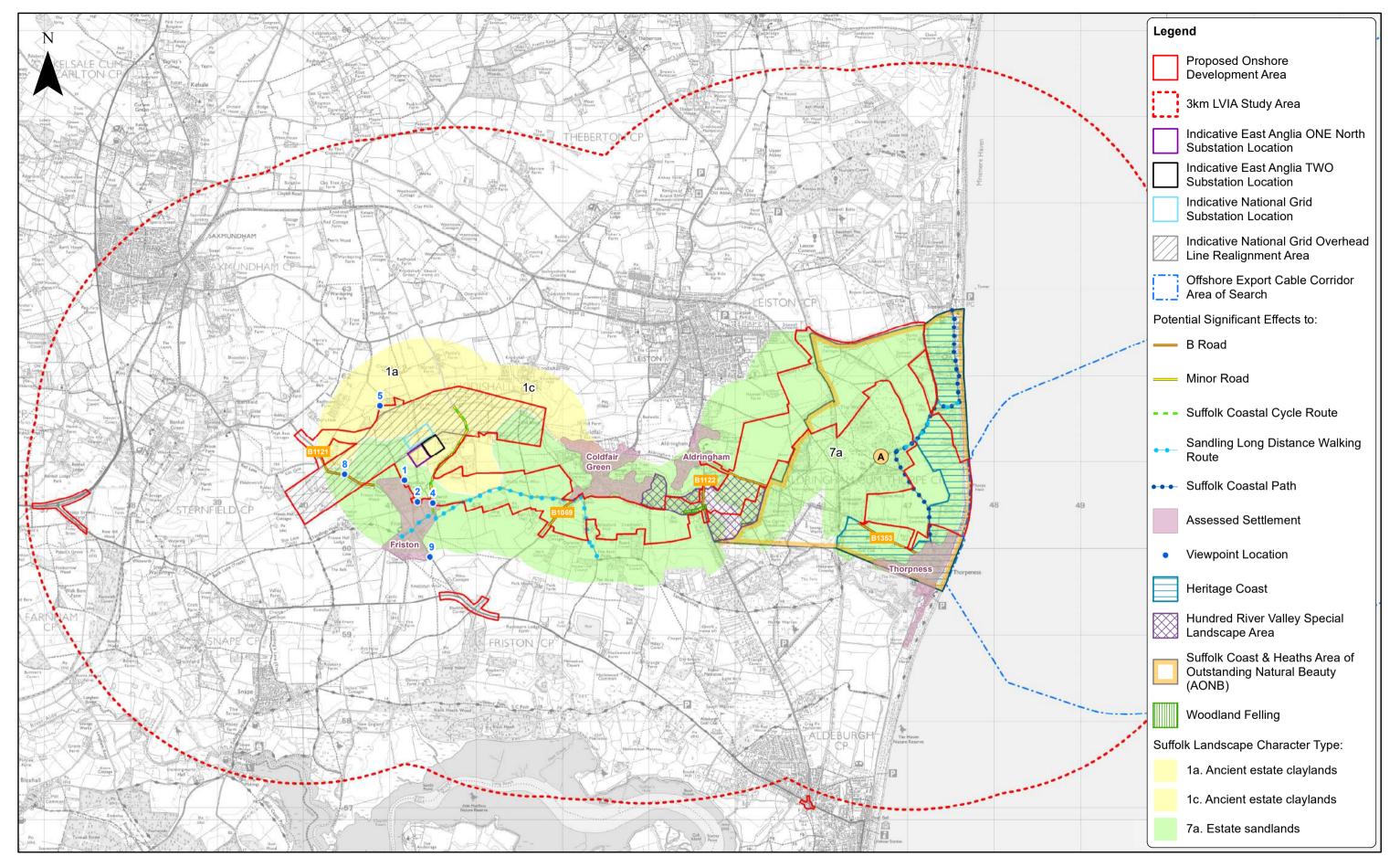
| h | Doc Ref | EA1N-DEVWF-ENV-REP-IBR-000298 | | | | |
|---|---------|-------------------------------|--------------------------|--|--|--|
| | Rev | 3 | Datum: | | | |
| | Date | 17/01/19 | OSGB 1936 Projection: | | | |
| | Figure | 29.10 | BNG | | | |



| | 3 | 17/01/2019 | ΤН | Document Reference Update | | | | 1:5,000 | | | | | m | East Anglia ONE North |
|----------------------|-----|------------|----|---------------------------|-----------|----|-----|---|---|--------------------------------|---|---|--|----------------------------|
| SCOTTISHPOWER | 2 | 10/12/2018 | LA | Second Issue (OPEN) | Prepared: | LA | A I | Scale @ A3 | 0 5 | 0 | 100 | | 200 | • |
| RENEWABLES | 1 | 23/11/2018 | LA | First Issue (OPEN) | Checked: | SN | M | Please consult with the SPR O To the fullest extent permitted to | fshore GIS team to ens y law, we accept no res | sure the con sponsibility o | ntent is still curren or liability (whethe | nt before using t er in contract, to | oduced for your information only. he information contained on this map. rt (including negligence) or otherwise in respect of any | Onshore Substation – |
| | Rev | Date | Ву | Comment | Approved: | LT | - 1 | errors or omissions in the inform Contains Ordnance Survey dig | | | | | nage or expense caused by such errors or omissions. er 0100031673. | Indicative Landscape Mitig |

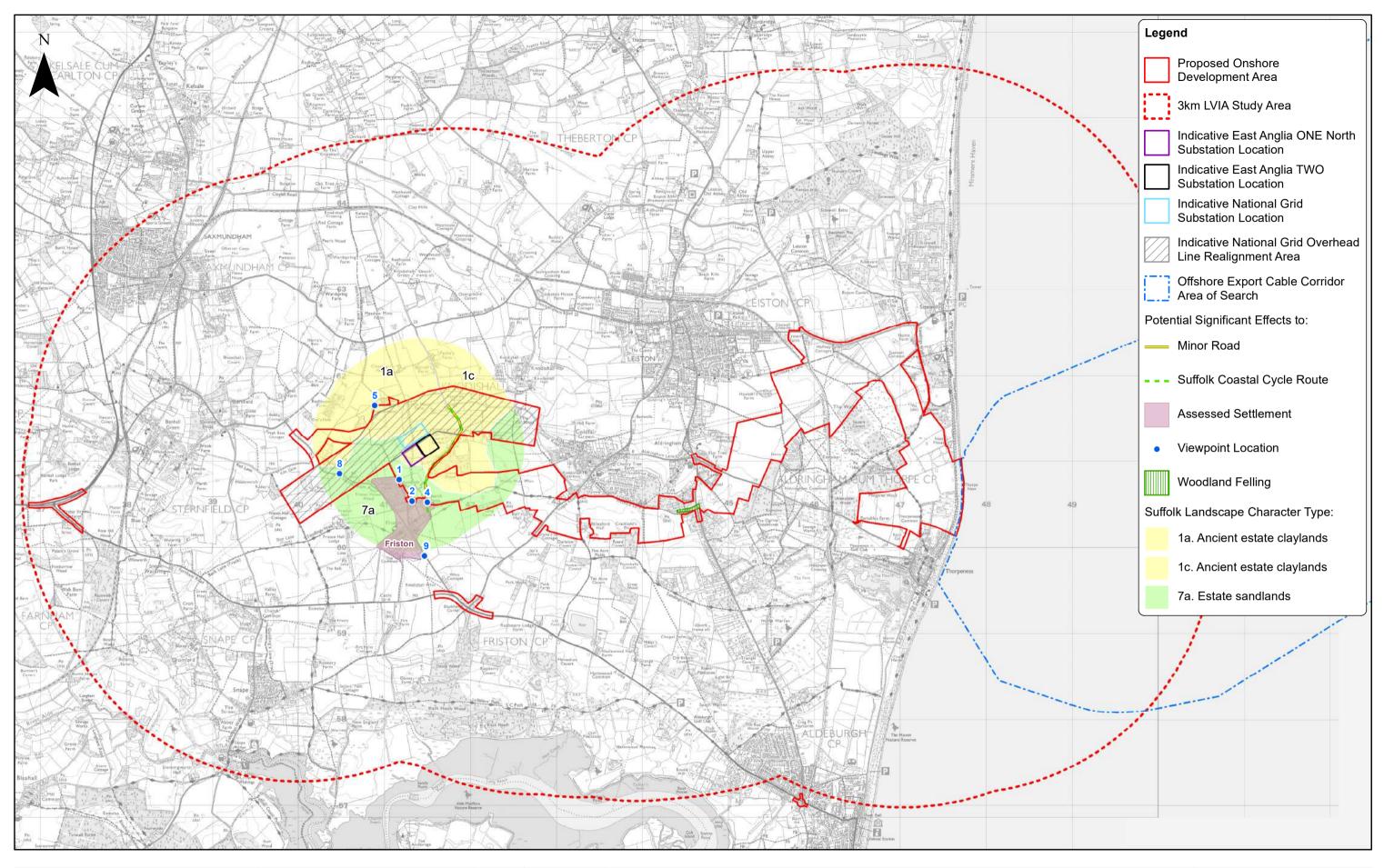


| orth | Doc Ref | EA1N-DEVWF-EN | IV-REP-IBR-000298 | |
|-----------------|---------|---------------|-------------------|--|
| | Rev | 3 | Datum: | |
| - | Date | 17/01/19 | , | |
| Mitigation Plan | Figure | 29.11 | BNG | |



| | 3 | 17/01 | /2019 | ТΗ | Document Reference Update | | | 1:40,000 Km | | | | | East Anglia ONE North | Doc Ref | EA1N-DEVWF-E | NV-REP-IBR-000298 |
|--|-----|-------|-------|----|---------------------------|-----------|-------|--|---|---|--|--------------|----------------------------------|---------|--------------|--------------------------|
| | 2 | 06/12 | /2018 | LA | Second Issue (OPEN) | Prepared: | LA | Scale @ A3 | 0 0.5 | 1 | 2 | | U U | Rev | 3 | Datum: |
| | 1 | 23/11 | /2018 | LA | First Issue (OPEN) | Checked: | SM | This map has been produced Please consult with the SPR To the fullest extent permittee errors or omissions in the inf | to the latest known information at th Offshore GIS team to ensure the co by law, we accept no responsibility mation contained in the man and a | he time of issue, an ontent is still current or liability (whether aball not be liable for | d has been produced for your information only. before using the information contained on this map. in contract, tort (including negligence) or otherwise in re- rew loss damage or express caused by such arrors or | spect of any | Summary of Significant Effects - | Date | 17/01/19 | OSGB 1936 Projection: |
| | Rev | / Da | ite | Ву | Comment | Approved: | 1: LT | Contains Ordnance Survey of | sions in me information contained in the map and anal not be liable for any loss, samage or expense caused by such errors or omissions. nance Survey digital data © Crown copyright, All rights reserved 2018 Licence number 0100031673. | | | onnisions. | Construction | Figure | 29.12a | BNG |

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| | 3 | 17/ | 01/201 | 9 T | нс | Document Reference Update | | | | | 1:40,000 | | | | | Km | ו | East Anglia ONE North | Doc Ref | EA1N-DEVWF-E | NV-REP-IBR-000298 |
|--|----|-----|--------|-----|-----|---------------------------|--------------|------------|-------|---|---|---|--|---|--|--|---------------------------|----------------------------------|---------|--------------|--------------------------|
| | 2 | 06/ | 12/201 | 8 L | A S | Second Issue (OPEN) | Prepared: LA | Scale @ A3 | 0 0.5 | 1 | 1 | 2 | U U | Rev | 3 | Datum: | | | | | |
| | 1 | 23/ | 11/201 | 8 L | A F | First Issue (OPEN) | Checked | l: | SM | This ma Please o To the fu | up has been produced to consult with the SPR O ullest extent permitted to comissions in the inform | o the latest know fshore GIS tear y law, we accep | vn information at the n to ensure the con t no responsibility of | e time of issue, and l tent is still current be or liability (whether in all not be liable for a | has been produ efore using the in contract, tort (| uced for your information only. information contained on this map (including negligence) or otherwis | p. e in respect of any | Summary of Significant Effects - | Date | 17/01/19 | OSGB 1936 Projection: |
| | Re | / | Date | в | y c | Comment | Approve | d: | LT | errors or oralisations in the information contained in the map and shall not be liable for any loss, damage or expresse caused by such errors or omissions. Contains Ordnance Survey digital data © Crown copyright, All rights reserved 2018 Licence number 0100031673. | | | Operation (Without Mitigation) | Figure | 29.12b | BNG | | | | | |

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