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Norwich to Tilbury

Volume 8: Examination Documents

Document: 8.10.1 Ancient Woodland Technical Note - Part 1

Final Issue A

April 2026

Planning Inspectorate Reference: EN020027

nationalgrid

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1. Introduction

1.1 Purpose of this technical note

- 1.1.1 Natural England published updates to their Ancient Woodland Inventory (AWI) in Essex in July 2025 and in Suffolk in October 2025¹. These updates include revisions to existing ancient woodland extents and the inclusion of additional ancient woodland areas reflecting ongoing improvements in the identification and classification of ancient woodland across England.
- 1.1.2 The Development Consent Order (DCO) application for Norwich to Tilbury (the 'Project') was submitted in August 2025. Therefore, the updates to the AWI were not included within the submission documents due to the information not being available or being available with a limited timeframe between its release and the submission of the DCO application.
- 1.1.3 This technical note presents the updates to the AWI relevant to the Project, and reports within Appendices A to F, whether the updates would result in any changes to the assessment or mitigation reported within each of the DCO submission documents, listed below:
- **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**
 - **6.8 Environmental Statement Chapter 8 - Ecology and Biodiversity [AS-026]**
 - **6.8.A1 Environmental Statement Appendix 8.1 - Habitat Report [AS-028]**
 - **6.13 Environmental Statement Chapter 13 - Landscape and Visual [APP-226]**
 - **6.13.A6 Environmental Statement Appendix 13.6 - Arboricultural Impact Assessment [APP-236]**
 - **7.4 Outline Landscape and Ecological Management Plan Appendix B - Ancient Woodland and Veteran Tree Strategy [APP-323].**
- 1.1.4 Given the updates to the AWI the Project team have also taken the opportunity to obtain updated desk study data from the Woodland Trust. An updated Ancient Tree Inventory (ATI) dataset was received on 24 March 2026, which included records of all veteran trees recorded publicly by the ATI within the UK. A review of the ATI dataset confirmed that no additional veteran trees had been added to the data since submission of the Norwich to Tilbury Development Consent Order application.

1.2 Additional Ancient Woodland Areas

- 1.2.1 Since the submission of the DCO application in August 2025, changes to the AWI in Suffolk and Essex¹ have resulted in the identification of the following, which are further

¹ Following discussions with Natural England it is understood that updates are also imminently expected for Norfolk, although no programme for this has been provided. As this information is not currently available at the time of writing, it is not considered in this document but will be considered once published.

described in Table 1.1 and shown on Figure B.A.1: Ancient Woodland Locations (Within Study Area) (Revision B) within Annex A of Appendix F:

- 28 new ancient woodland areas within 200 m of the Order Limits, seven of which are located within the Order Limits²
- Four ancient woodlands where boundaries have been revised within 200 m of the Order Limits, none of which are located within the Order Limits.

Table 1.1 List of newly identified and revised ancient woodlands within 200 m of the Order Limits

Project Section	Ancient Woodland	Distance from Order Limits	Direction	Change (source of data)
A	<i>No additional woodlands (awaiting AWI revisions for Norfolk to be released)</i>			
B	Unnamed woodland (east of pylon RG165)	57 m	East	Newly identified (Suffolk revision)
B	Lodgefield Row	0 m	Within Order Limits	Newly identified (Suffolk revision)
B	Middle Wood (Offton)	0 m	Adjacent	Boundary change to ancient woodland extent (Suffolk revision), initially 15 m from the Order Limits
B	Ladies Walk	15 m	East	Newly identified (Suffolk revision)
B	Darmsden Bushes	192 m	East	Newly identified (Suffolk revision)
B	Bushey Grove (part of Fore and Bushey Groves County Wildlife Site CWS)	0 m	Within Order Limits	Newly identified (Suffolk revision)
B	Fore Grove (part of Fore and Bushey Groves County Wildlife Site CWS)	11 m	East	Newly identified (Suffolk revision)
C	Wenham Grove	0 m	Within Order Limits	Newly identified (Suffolk revision)
C	Primrose Wood	81 m	South	Newly identified (Essex revision)

² Six of these newly identified ancient woodland were already considered as ancient woodland by the Project within the DCO application, as a result of their Local Wildlife Site citation. These include: Harrow Corner (formerly referred to as Harrow Wood LWS) (Section D), Little Bladen's Wood LWS (Section G), Botneyhill Woods LWS (Section G), Primstock Wood LWS (Section G), Round Wood LWS (Section G), Upney Wood LWS (Section G)

Project Section	Ancient Woodland	Distance from Order Limits	Direction	Change (source of data)
C	The Coombs	200 m	North-east	Newly identified (Essex revision)
C	Hill House / Parney Heath	11 m	North-east	Newly identified (Essex revision)
D	Unnamed woodland (near pylons TB23 and TB24)	45 m	South	Newly identified (Essex revision)
D	Harrow Corner (formerly referred to as Harrow Wood Local Wildlife Site (LWS))	Adjacent	East	Newly identified (Essex revision), but already Project defined within the DCO submission
D	Horkesley Plantation	0.0 m	Within the Order Limits	Newly identified (Essex revision)
D	Unnamed woodland (north-west of Great Horkesley)	6 m	South and east	Newly identified (Essex revision)
D	Unnamed woodland (east of Fordham), part of 'Wood near Fordham Place' LWS	28 m	South-east	Newly identified (Essex revision)
D	Sparrow Grove	150 m	North	Newly identified (Essex revision)
E	Felixhall – The Wilderness	155 m	South-east	Newly identified (Essex revision)
E	Upney Wood	200 m	North-west	Newly identified (Essex revision), but already Project defined within the DCO submission
E	Terling Spring	0 m	Adjacent	Newly identified (Essex revision)
E	Rivenhall Place	200 m	East	Newly identified (Essex revision)
E / F	Mann/ Parson's Wood	25 m	West	Boundary change to ancient woodland extent (Essex revision), previously adjacent to the Order Limits
F	Lady Grove	7 m	South-west	Boundary change to ancient woodland extent (Essex revision), initially

Project Section	Ancient Woodland	Distance from Order Limits	Direction	Change (source of data)
				191.1 m west of the Order Limits
F	Edney Woods (part of Great/Little Edney Woods LWS and Writtlepark Wood Complex LWS)	0 m	Within the Order Limits	Newly identified (Essex revision)
F	Unnamed woodland (east of pylon TB179)	53 m	North-west	Newly identified (Essex revision)
F	Sparrowhawk Wood	0 m	Adjacent	Boundary change to ancient woodland extent (Essex revision), initially 12.2 m south-east of the Order Limits
G	Round Wood	Adjacent	East	Newly identified (Essex revision), but already Project defined within the DCO submission
G	Primstock	Adjacent	West	Newly identified (Essex revision), but already Project defined within the DCO submission
G	Little Bladen's Wood	0.0 m	Within the Order Limits	Newly identified (Essex revision), but already Project defined within the DCO submission
G	Unnamed woodland (north-east of Bladen's Wood)	0.0 m	Within the Order Limits	Newly identified (Essex revision)
G	Botneyhill Wood	8 m	East	Newly identified (Essex revision), but already Project defined within the DCO submission
G	Gravelpit Wood	150 m	East	Newly identified (Essex revision)

1.2.2 Appendices A to F follow the structure of the submitted DCO documents listed previously. Each appendix outlines where changes to the documents submitted as part of the application have been identified as a result of the receipt of the above AWI data. For completeness, where no change to the documents submitted as part of the DCO application are required, this is also reported.

1.3 Conclusions

- 1.3.1 Following a review of the updated AWI data, **no material changes** to the assessments and conclusions reported within the relevant submitted documents below have been identified:
- **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**
 - **6.8 Environmental Statement Chapter 8 - Ecology and Biodiversity [AS-026]**
 - **6.8.A1 Environmental Statement Appendix 8.1 - Habitat Report [AS-028]**
 - **6.13 Environmental Statement Chapter 13 - Landscape and Visual [APP-226]**
 - **6.13.A6 Environmental Statement Appendix 13.6 - Arboricultural Impact Assessment [APP-236]**
 - **7.4 Outline Landscape and Ecological Management Plan Appendix B – Ancient Woodland and Veteran Tree Strategy [APP-323].**
- 1.3.2 The following DCO submission documents have been updated to reflect the changes to the AWI data and to incorporate the mitigation measures proposed within the appendices below:
- **7.2 Outline Code of Construction Practice (Revision C)**
 - **7.2 Outline Landscape and Ecological Management Plan (Revision D)**
 - **7.2 Outline Landscape and Ecological Management Plan Appendix B - Ancient Woodland and Veteran Tree Strategy (Revision B).**
- 1.3.3 At Deadline 4, **2.16 Trees and Hedgerows to be Removed and or Managed Plans [APP-048 to APP-055]** will be updated, where applicable, and submitted to reflect the changes to the AWI data.

Abbreviations

Abbreviation	Full Reference
AIA	Arboricultural Impact Assessment
AWI	Ancient Woodland Inventory
BNG	Biodiversity Net Gain
CSE	Cable Sealing End
CWS	County Wildlife Sites
DCO	Development Consent Order
ES	Environmental Statement
IAQM	Institute of Air Quality Management
LCT	Landscape Character Type
LERC	Local Environmental Record Centres
LEMP	Landscape and Ecological Management Plan
LWS	Local Wildlife Sites
MAGIC	Multi-Agency Geographic Information for the Countryside
NPS	National Policy Statements
RPA	Root Protection Area
SuDS	Sustainable Drainage Systems

Glossary

Term	Description
Biodiversity	The variability among living organisms from all sources including terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part: this includes diversity within species, between species and of ecosystems.
County Wildlife Site	Non-designated areas of land important for their wildlife and nature conservation value. Designation in Suffolk and Norfolk.
Environmental Statement (ES)	The main output from the EIA process, an ES is the report required to accompany an application for development consent (under the Infrastructure Planning (EIA) Regulations 2017) to inform public and stakeholder consultation and the decision on whether a project should be allowed to proceed. The EIA Regulations set out specific requirements for the contents of an ES for Nationally Significant Infrastructure Projects.
Landscape Character Type (LCT)	These are distinct types of landscape that are relatively homogeneous in character. They are generic in nature in that they may occur in different areas in different parts of the country, but wherever they occur they share broadly similar combinations of geology, topography, drainage patterns, vegetation, historical land use, and settlement pattern (Natural England).
Local Wildlife Site	Non-designated areas of land important for their wildlife and nature conservation value. Designation in Essex.
Mitigation	The action of reducing the severity and magnitude of change (impact) to the environment. Measures to avoid, reduce, remedy or compensate for significant adverse effects.
Order Limits	The maximum extent of land within which the authorised development may take place.
Zone of Influence	The defined geographic area within which the project's environmental receptors are located.

Bibliography

Institute of Air Quality Management (IAQM). (2024) Guidance on the assessment of dust from demolition and construction (January 2024)

Natural England (2025) *MAGIC: Multi-Agency Geographic Information for the Countryside*. [online] Available at: <https://magic.defra.gov.uk>

UKHab Ltd (2023) UK Habitat Classification Version 2.0

Appendix A

6.7 Environmental Statement Chapter 7 – Air Quality [APP-147]

1.1 Introduction

1.1.1 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

1.2 Regulatory and Planning Policy Context

National Policy Statement (NPS)

1.2.1 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

Other National Legislation and Policy

1.2.2 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

Regional and Local Policy

1.2.3 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

Guidance

1.2.4 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

1.3 Scope of the Assessment

1.3.1 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

Project Engagement and Consultation

1.3.2 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

1.4 EIA Approach and Methods

Data Sources

1.4.1 There have been updates to the AWI since ES submission which has included:

- In July 2025, Natural England released a revision to the AWI for the County of Essex on the Multi-Agency Geographic Information for the Countryside (MAGIC) website (Natural England, 2025)
- In October 2025, Natural England released a revision to the AWI for the County of Suffolk on MAGIC website (Natural England, 2025).

Study Area

1.4.2 No changes to **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

Assessment Methodology

1.4.3 No changes to **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

Key Parameters for Assessment and Assumptions

1.4.4 No changes to **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

1.5 Baseline Conditions

Existing Baseline

1.5.1 Baseline ambient air quality has not changed since the submission of **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

Receptors - Sensitive to Construction Dust

1.5.2 For the assessment of construction dust, the identification of receptors and their sensitivity to dust effects followed Institute of Air Quality Management (IAQM) guidance (IAQM, 2024). Since the submission of the DCO application there have been additional areas of ancient woodland identified as a result of the AWI updates. These therefore represent additional sensitive ecological receptors within 50 m of the Order Limits which may be impacted by construction dust.

1.5.3 These newly identified sites are listed in Table A.1 below and shown on Figure 7.4 Air Quality Construction Dust Study Area (Revision B) in Annex A of Appendix A.

Table A.1 Additional ancient woodland sites used in the air quality addendum within 50 m of the Order Limits

Designated Sites	Ecological Sites	Site Name (and Project Section(s))	Project Section(s)
Non-statutory	Ancient woodland	Bushey Grove	Section B
		Fore Grove	Section B
		Ladies Walk	Section B
		Lodgefield Row	Section B
		Hill House / Parney Heath	Section C
		Wenham Grove	Section C
		Horkesley Plantation	Section D

Designated Sites	Ecological Sites	Site Name (and Project Section(s))	Project Section(s)
		Terling Spring	Section E
		Edney Wood	Section F
		Lady Grove	Section F
		Primstock	Section G

Future Baseline

1.5.4 No changes to **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

1.6 Proposed Mitigation

Embedded Mitigation

1.6.1 No changes to **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

Standard Mitigation

1.6.2 No changes to **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

Additional Mitigation

1.6.3 No changes to **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

1.7 Residual Effects

Construction

Construction Dust

1.7.1 For the assessment of construction dust, the identification of receptors and their sensitivity to dust effects followed IAQM guidance (IAQM, 2024).

1.7.2 Without applying mitigation measures, there would be the potential for significant effects. However, following the implementation of the proposed standard mitigation measures set out in **7.2 Outline Code of Construction Practice (Revision C)** and **7.2 Outline Code of Construction Practice Appendix D - Outline Dust Management Plan [APP-304]**, the effects of construction dust on ecological receptors remain **not significant**. Therefore, there is no change from the assessment outcome in **6.7 Environmental Statement Chapter 7 - Air Quality [APP-147]**.

Construction Traffic

Modelled concentrations at Ecological Receptors

- 1.7.3 For nitrogen oxides (NO_x) annual mean, the majority of modelled receptors had a predicted increase of NO_x concentrations ranging between <0.1µg/m³ to 0.3µg/m³ and were less than 1% of the critical level (0.3 µg/m³). Only ER_44a, ER_49, ER_62 and ER_72 had a change that was more than 1% of the critical level screening threshold.
- 1.7.4 The highest predicted concentration was modelled at receptor ER_49 (West House Wood). The predicted NO_x concentration at this receptor with the Project was 44.9 µg/m³ which is above the critical level of 30 µg/m³. Without the Project the concentration at this location was 44.4 µg/m³. The three other receptors (ER_44a, ER_62 and ER_72) were below the critical level with the Project. For the critical level exceedance at ER_49 the Project ecologist has been engaged to determine the magnitude of impact and scale of ecological effect, if any.
- 1.7.5 For ammonia (NH₃) the predicted change in annual mean concentration was greater than 1% of the critical level for NH₃ (0.03 µg/m³) at ER_44a, ER_44b, ER_49, ER_62, and ER_72. For all other receptors the change in ammonia concentration was not more than 1% of the critical level screening threshold.
- 1.7.6 The highest predicted concentration was modelled at receptor ER_49. The predicted NH₃ concentration at this receptor with the Project was 4.28 µg/m³ which is above the NH₃ critical level of 3.0 µg/m³. It should be noted that without the Project the NH₃ concentration also exceeded the critical level with a modelled concentration of 4.23 µg/m³. This was the only modelled receptor exceeding the NH₃ critical level with the Project. The project ecologist has been engaged to determine the magnitude of impact and scale ecological effect, if any.
- 1.7.7 For nitrogen deposition, the assessment has considered contributions from both NO_x and NH₃. The predicted change in nitrogen deposition ranged between <0.1 to 0.7 kg N/ha/yr, indicating that the resulting change of nitrogen deposition due to the Project is greater than 1% of the lower critical load of 10 kg N/ha/yr. The assessment of construction effects at designated habitats identified 17 ancient woodland receptors where the predicted change in nitrogen deposition is greater than 1% of the critical load. Where results exceed 1% of the critical load, these have been considered further by ecologists and are identified below (shown in Table A.2 and on Figure 7.5: Air Quality Affected Road Network (Revision B) in Annex A of Appendix A).
- 1.7.8 The baseline in nitrogen deposition for these sensitive ecological receptors was already above the minimum critical load of 10 kg N/ha/yr, resulting in potential for a significant effect on the habitats or species supported by these receptors. This is considered to be due to their location near to main trunk roads (namely the A12, A14, A120 and A127). ER_49 and ER_72 is adjacent to A12, and ER_62 is adjacent to A14, both roads being main roads with high volumes of existing traffic resulting in background concentrations being higher at this location.
- 1.7.9 The small increase in nitrogen deposition resulting from the Project during construction is not expected to have a significant effect on these receptors as the construction impact would be experienced for a maximum of four years. Overall, **no significant residual effects** are likely to be experienced at these sensitive ecological sites as a result of the small increase in nitrogen deposition that would be caused by the Project.

Table A.2 Predicted Project contribution to nitrogen deposition at new additional ecological receptors

Receptor ID	Name	N Critical Load Min (kg N/ha/yr)	Total N Dry Dep PC (N + NH ₃) (kg N/ha/yr) DM	Total N Dry Dep PC (N + NH ₃) (kg N/ha/yr) DS	Change (DS – DM)	% Change to CL
ER_43	West House Wood	10	3.7	3.9	0.2	2.3%
ER_44_a	N/A	10	9.3	9.7	0.4	4.2%
ER_44_b	N/A	10	6.0	6.3	0.3	2.9%
ER_18	Kiln Wood	10	5.8	6.1	0.3	2.6%
ER_45	Strawberry Grove	10	6.8	7.0	0.2	1.7%
ER_48	Hamilton Lodge	10	7.5	7.7	0.2	1.9%
ER_49	West House Wood	10	27.1	27.6	0.5	4.8%
ER_51	Choats Wood	10	2.1	2.2	0.1	1.1%
ER_54	N/A	10	5.4	5.6	0.2	1.9%
ER_62	Woolpit Wood	10	4.8	5.3	0.5	5.1%
ER_65	Alder Carr	10	2.7	2.9	0.2	2.3%
ER_66	N/A	10	2.5	2.8	0.2	2.2%
ER_68	The Grove	10	2.0	2.1	0.1	1.2%
ER_70	Fore Grove	10	0.3	0.5	0.1	1.4%
ER_71	The Commons	10	3.8	4.0	0.2	2.1%
ER_72	The Grove	10	13.1	13.8	0.7	7.3%
ER_74	Lady Grove	10	0.4	0.5	0.1	1.3%

1.8 Monitoring

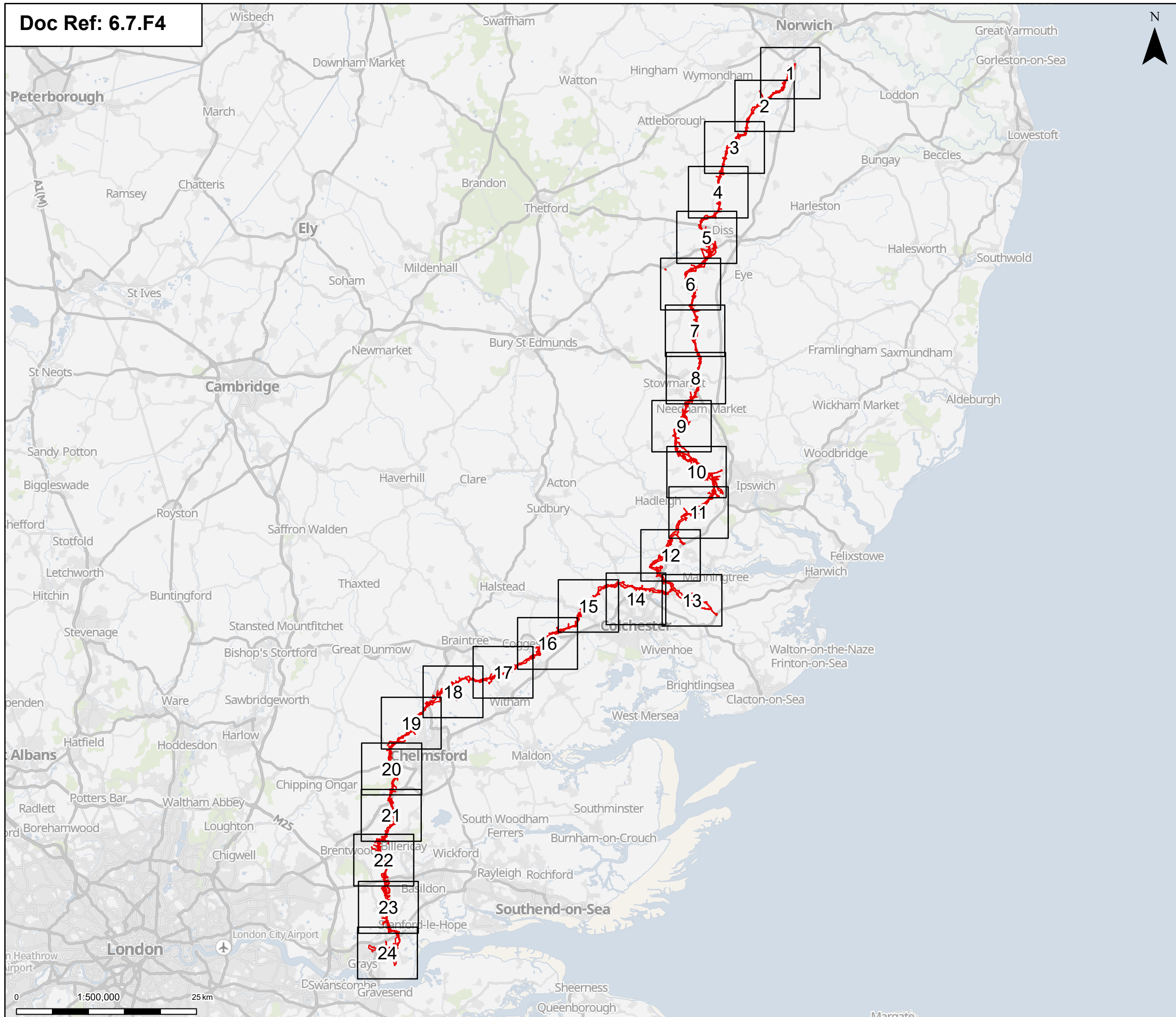
1.8.1 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

1.9 Sensitivity Testing

1.9.1 No changes to 6.7 Environmental Statement Chapter 7 - Air Quality [APP-147].

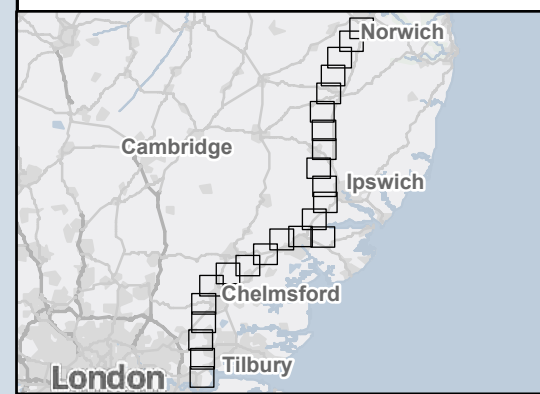
Annex A - Figures

Figure 7.4 Air Quality Construction Dust Study Area (Revision B)



Order limits
Page

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Rev	Date	Description	Drawn	Check	Approv
B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

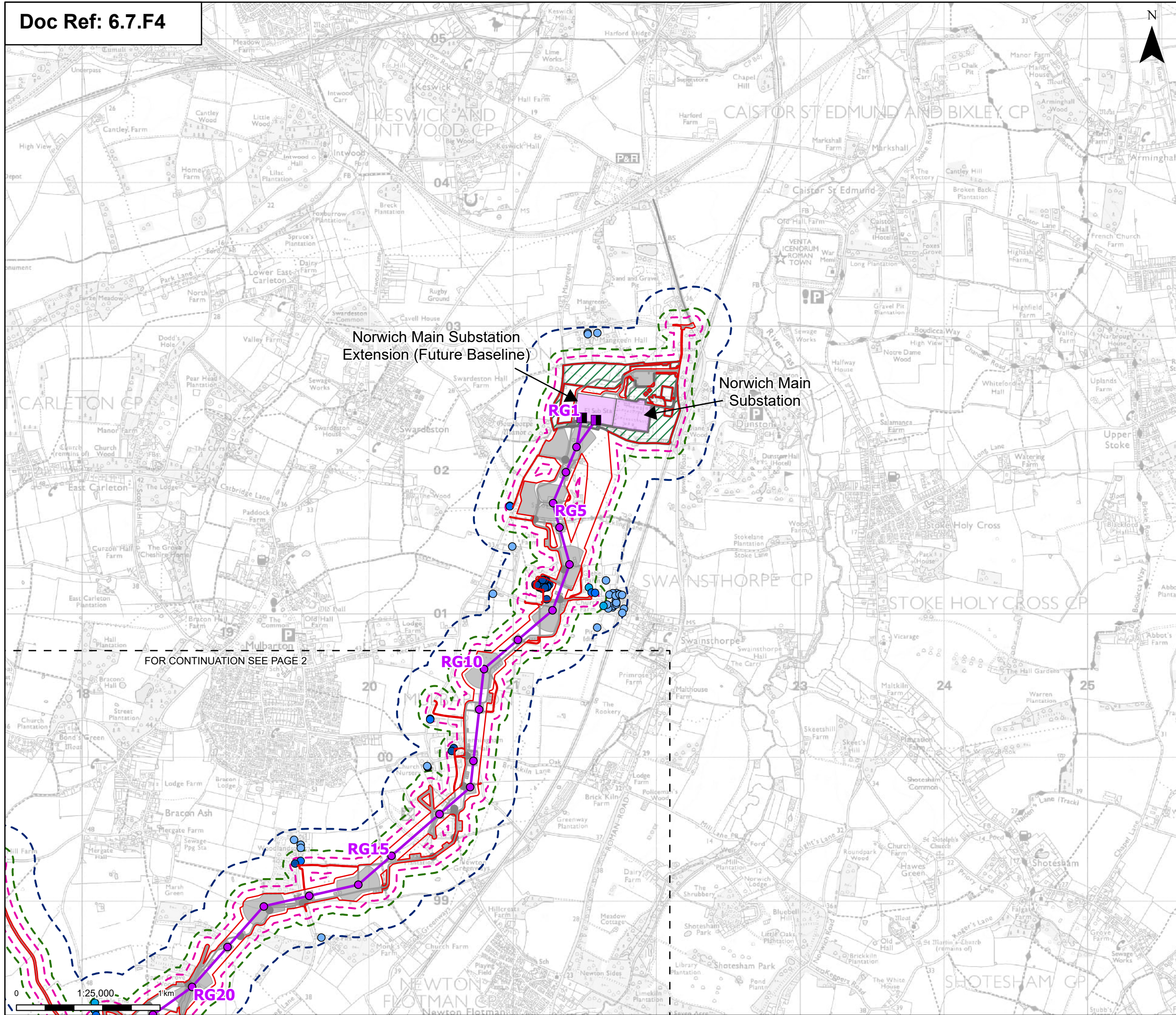
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area Overview

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:500,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B



Order limits
 Sheet index outline

Proposed project design details

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Norwich Main Substation
- Norwich Main Substation Extension (future baseline)
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area

100 m Study Area

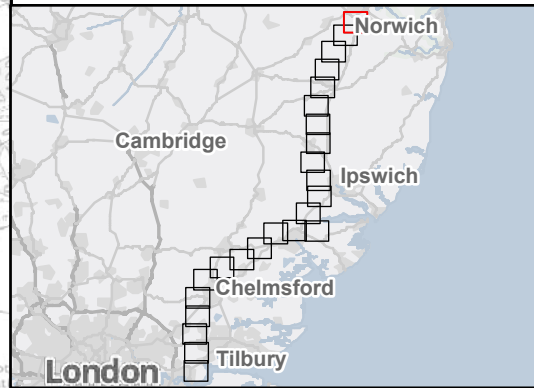
250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Rev	Date	Description	Drawn	Check	Approv
B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

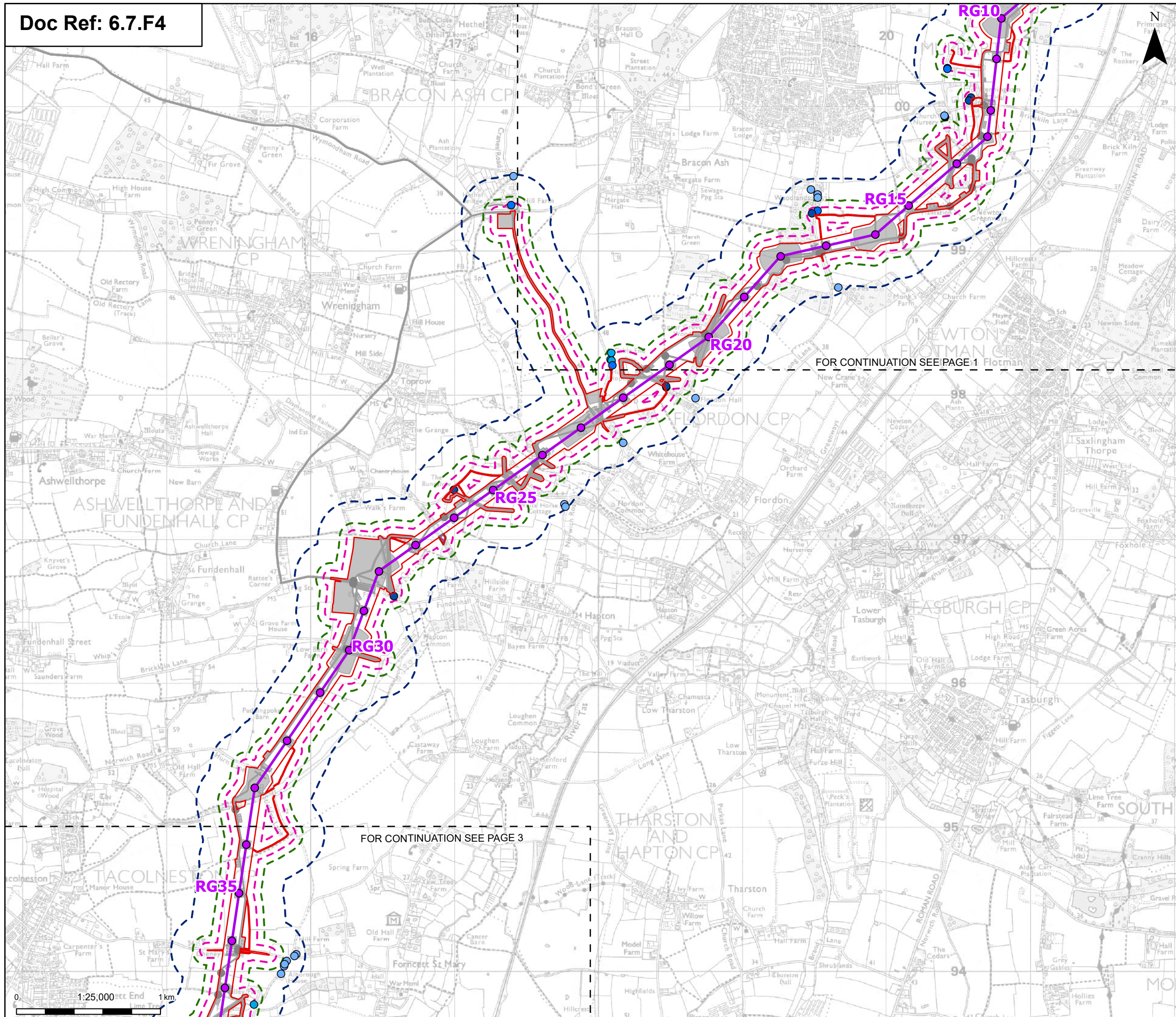
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 1 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B



Order limits
 Sheet index outline

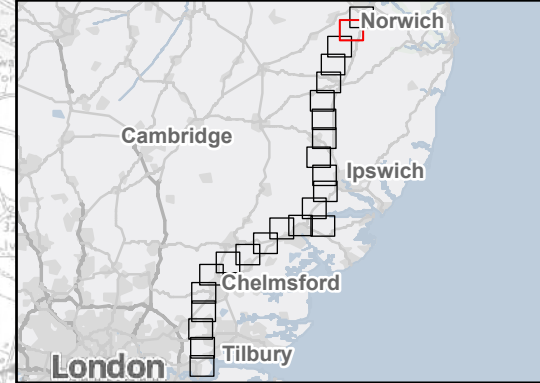
Proposed project design details
 Proposed standard lattice pylon location
 Proposed overhead line alignment
 Environmental mitigation
 Other temporary and permanent construction and operational works

Discipline specific constraints
 50 m Study Area
 100 m Study Area
 250 m Study Area

Sensitive receptors
 Within 20 m Study Area
 Between 20 m to 50 m Study Area
 Between 50 m to 100 m Study Area
 Between 100 m to 250 m Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

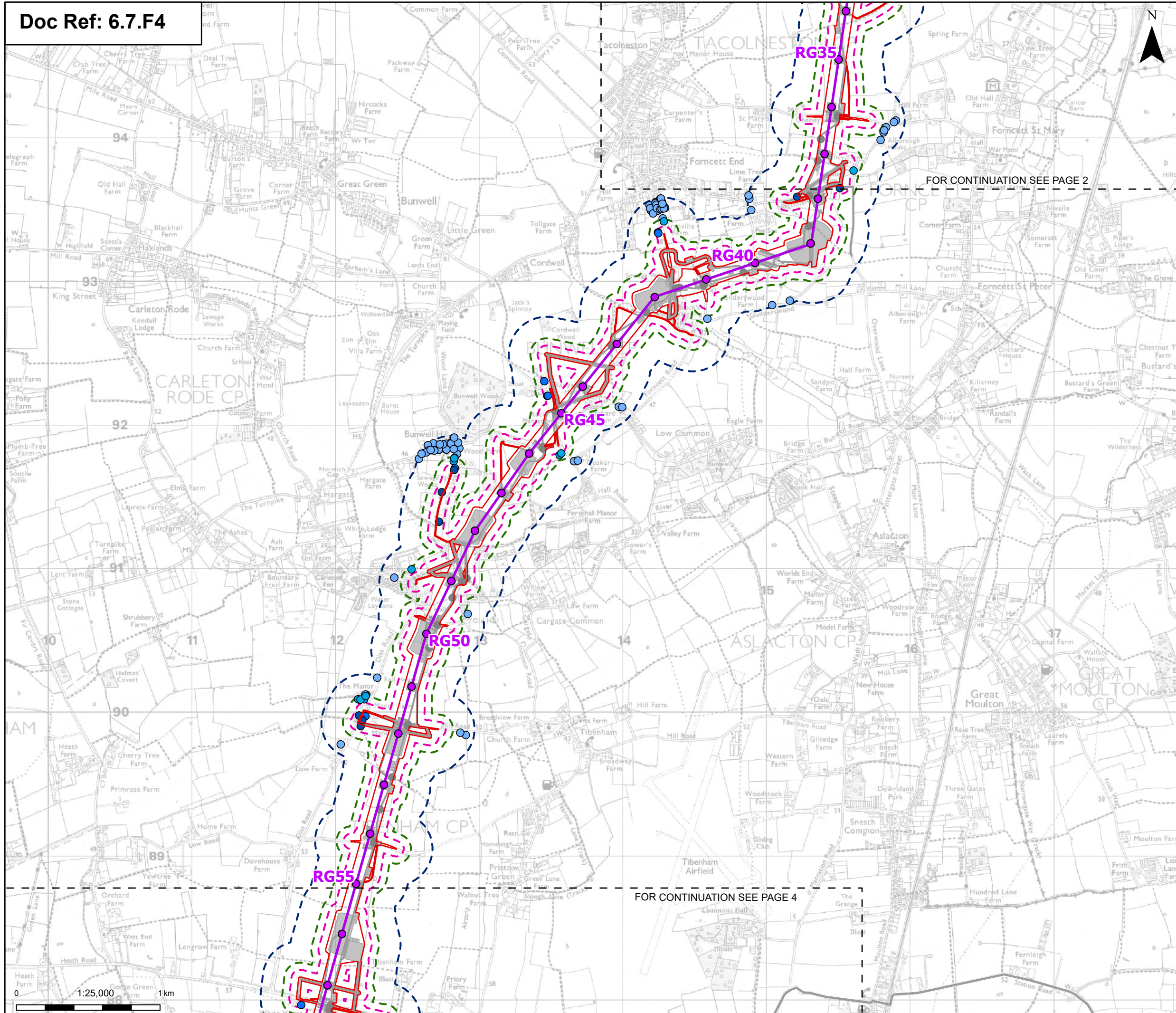
Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 2 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430
 Revision: B



Order limits

- Sheet index outline

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

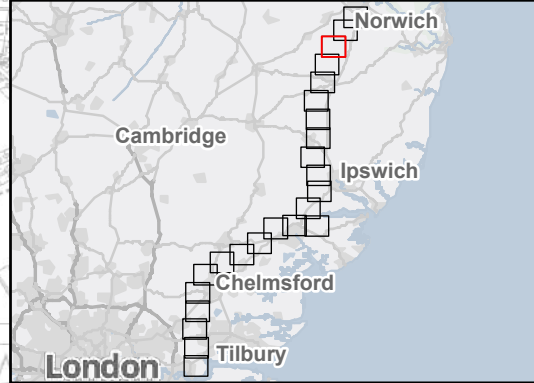
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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FOR CONTINUATION SEE PAGE 2

FOR CONTINUATION SEE PAGE 4



Rev	Date	Description	Drawn	Check	Approv
B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

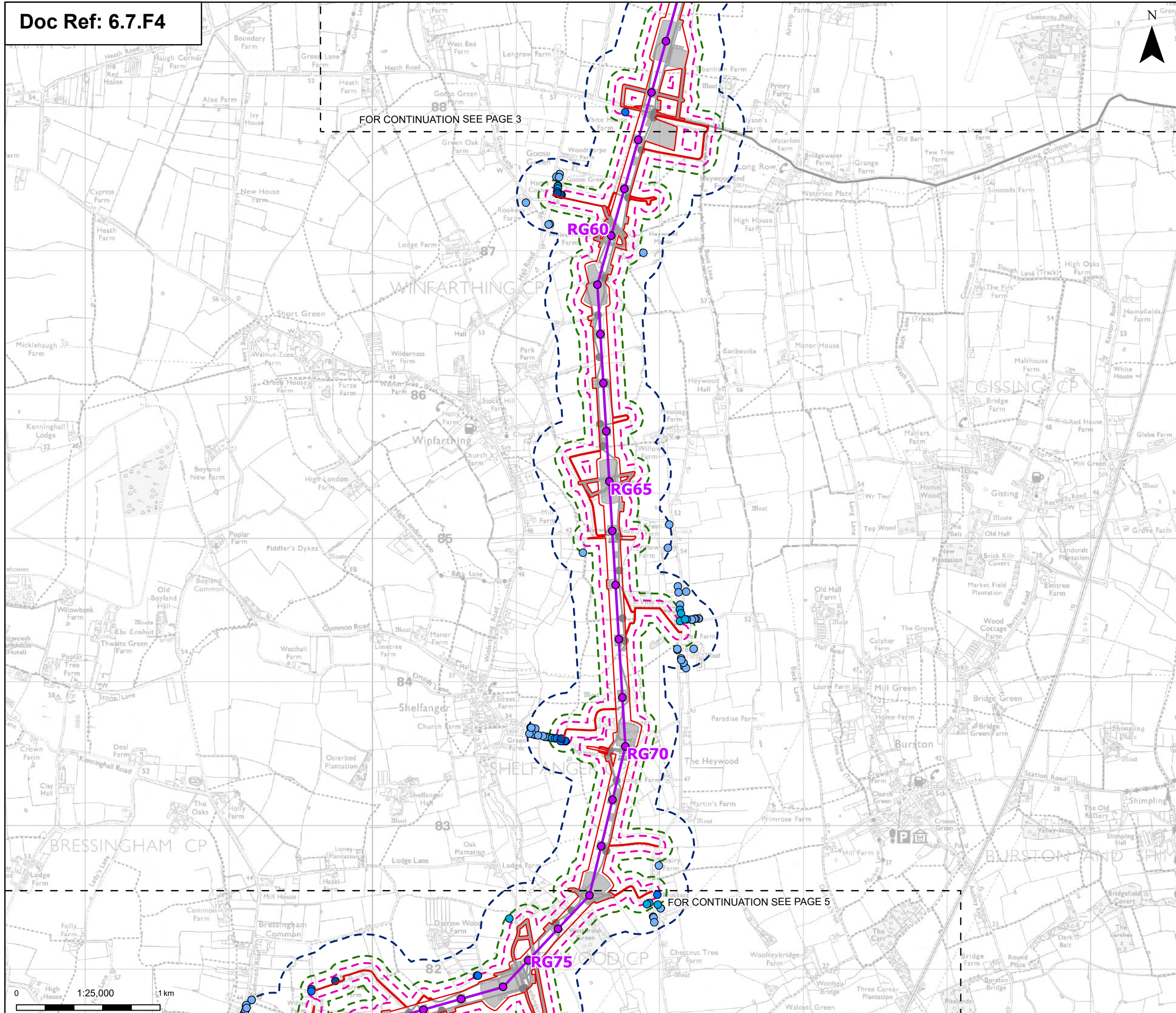
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 3 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B



Order limits

- Order limits
- Sheet index outline

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Other temporary and permanent construction and operational works

Discipline specific constraints

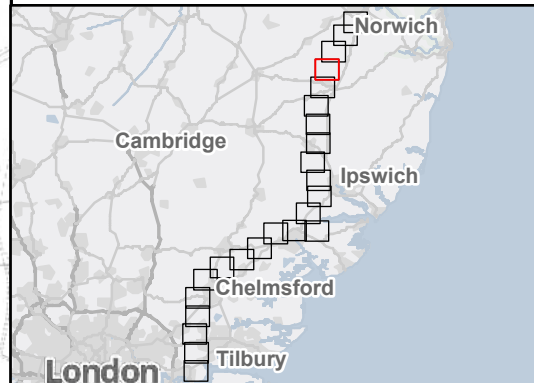
- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

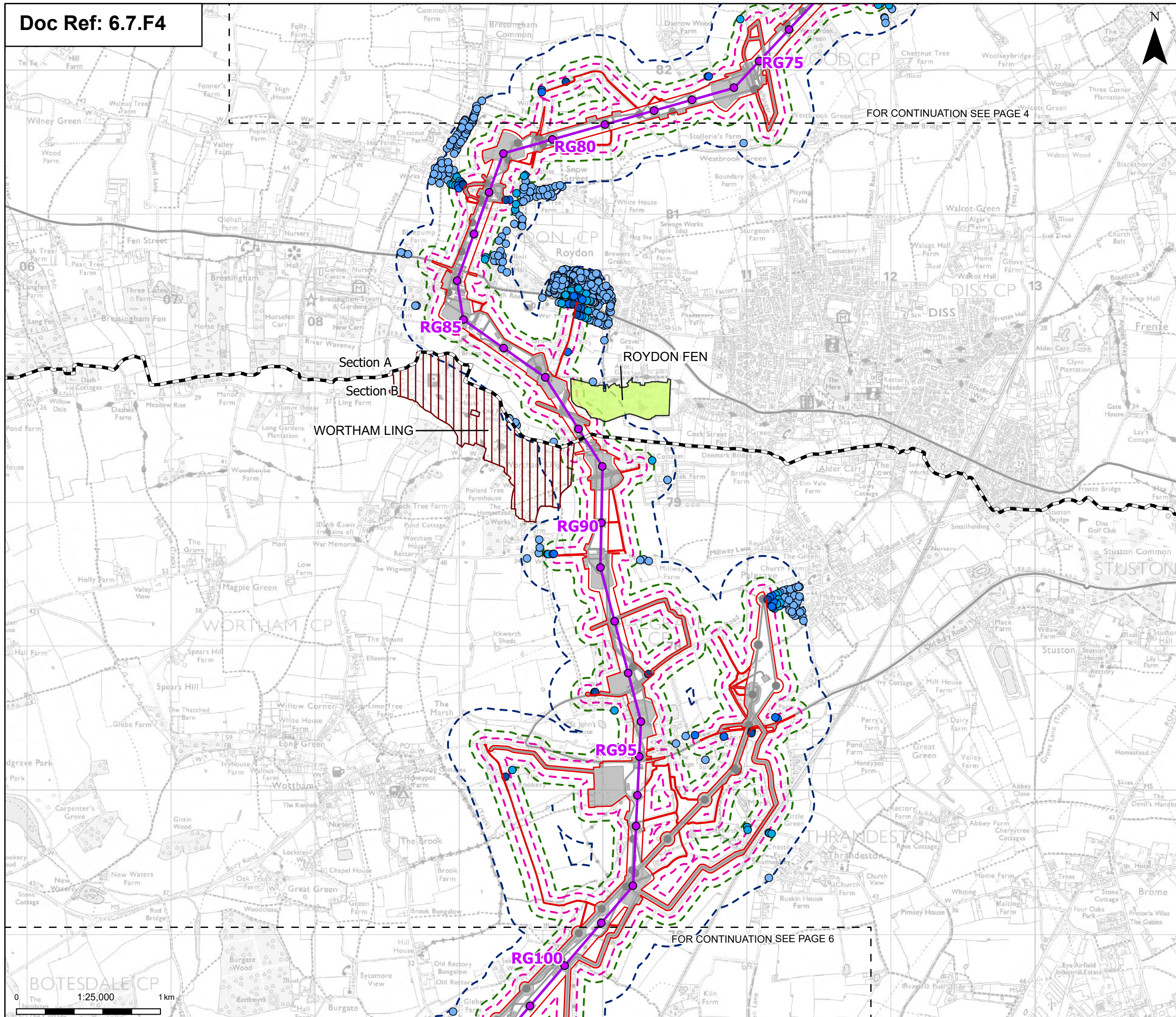
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 4 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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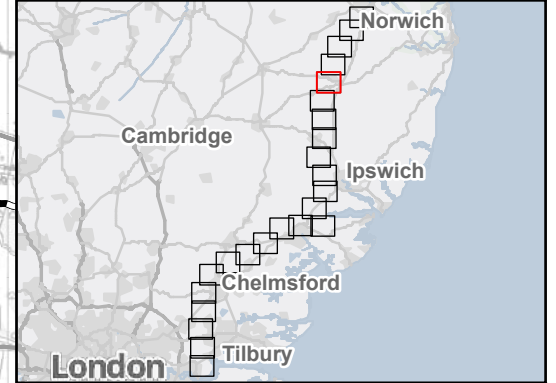
Drawing Number:
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Revision:
 B



- Order limits
 - Sheet index outline
 - Project section line
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Environmental mitigation
 - Other temporary and permanent construction and operational works
 - 50 m Study Area
 - 100 m Study Area
 - 250 m Study Area
 - Sensitive receptors
 - Within 20 m Study Area
 - Between 20 m to 50 m Study Area
 - Between 50 m to 100 m Study Area
 - Between 100 m to 250 m Study Area
 - Ecological sites within 50 m
 - Sites of special scientific interest (SSSI)
 - Local nature reserves (LNR)
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 5 of 24

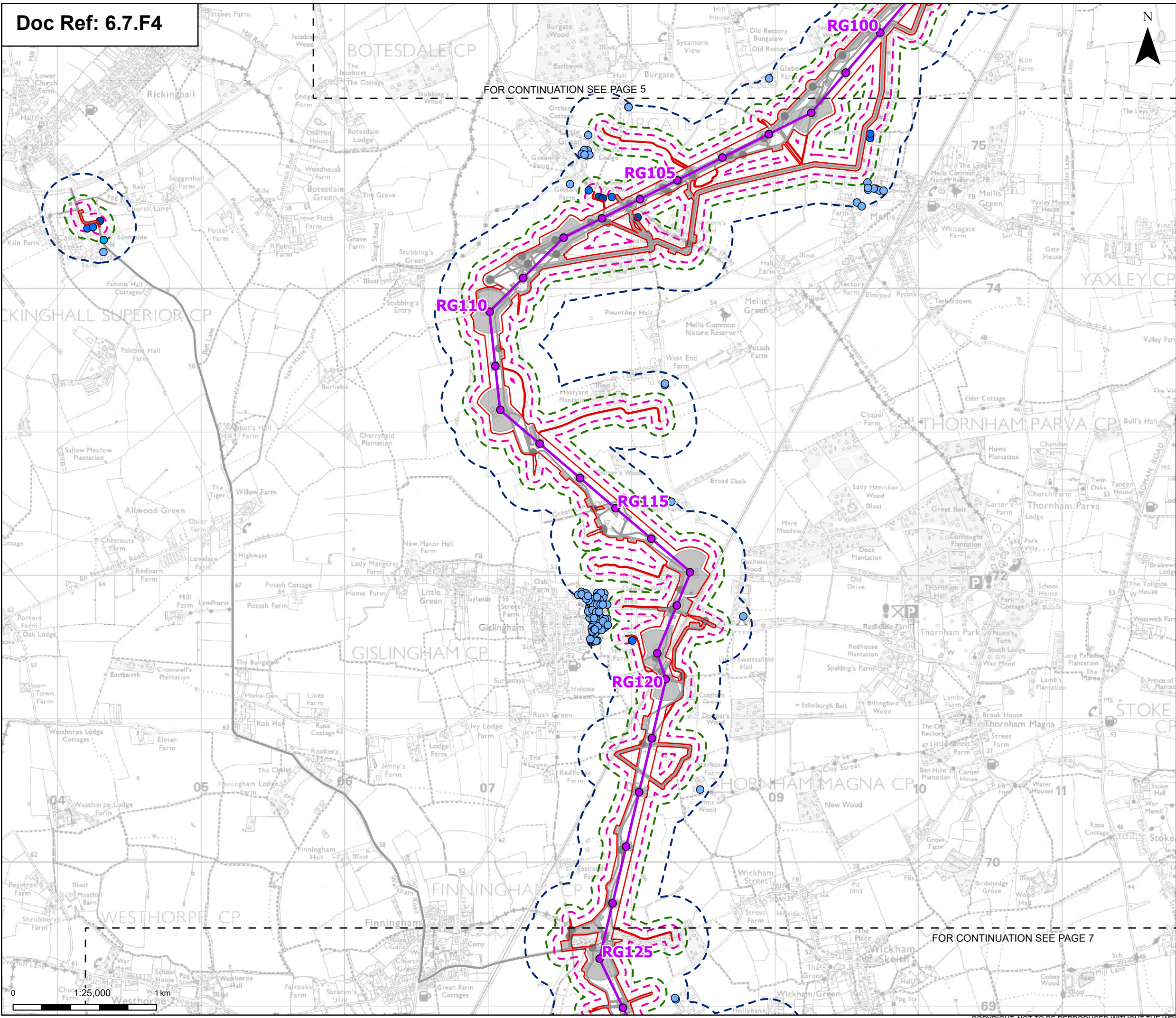
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Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B





Order limits
 Sheet index outline

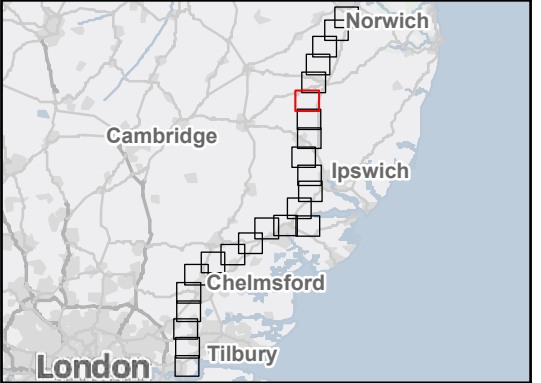
Proposed project design details
 Proposed standard lattice pylon location
 Proposed overhead line alignment
 Environmental mitigation
 Other temporary and permanent construction and operational works

Discipline specific constraints
 50 m Study Area
 100 m Study Area
 250 m Study Area

Sensitive receptors
 Within 20 m Study Area
 Between 20 m to 50 m Study Area
 Between 50 m to 100 m Study Area
 Between 100 m to 250 m Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 6 of 24

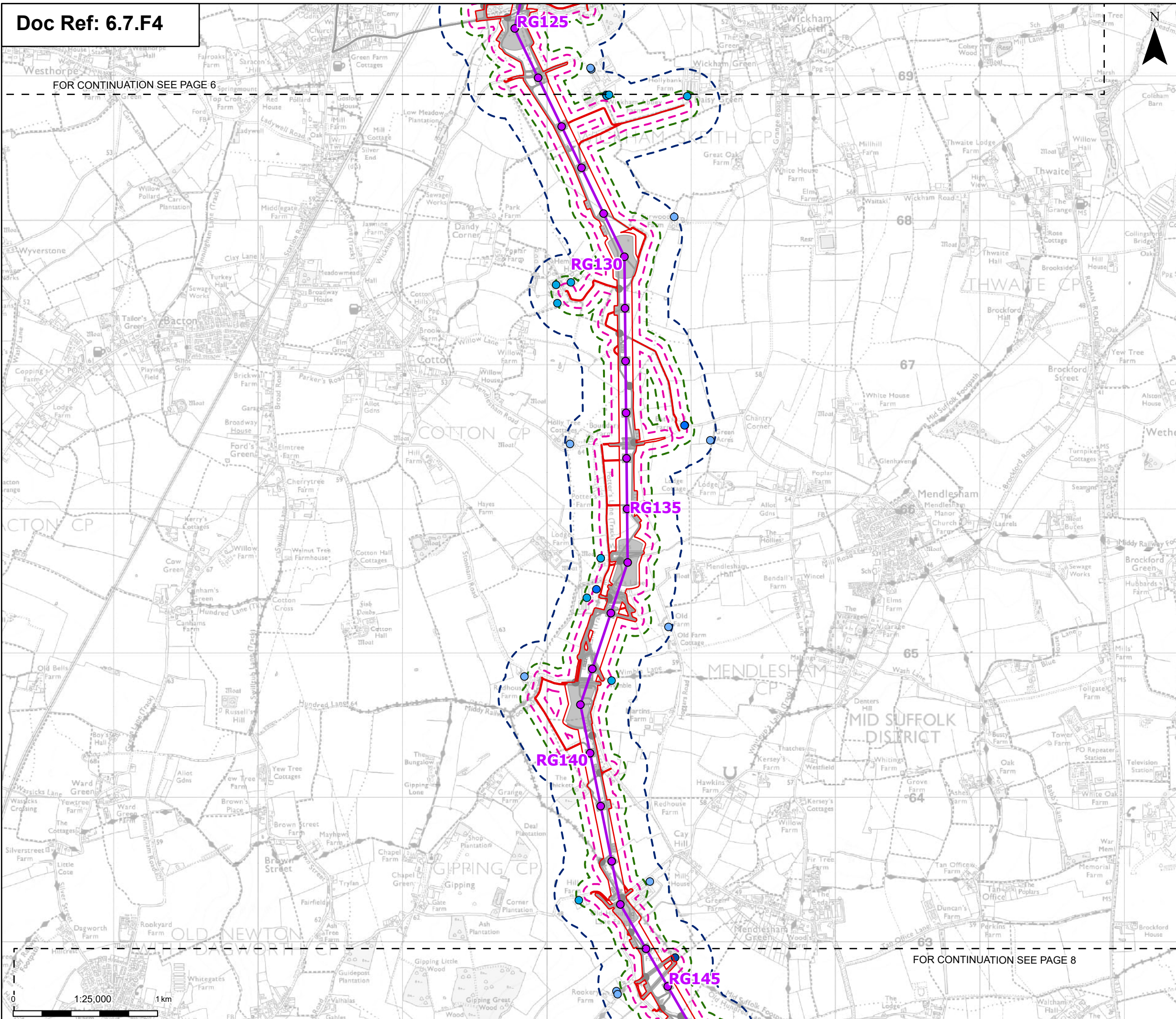
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Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B

FOR CONTINUATION SEE PAGE 6



Order limits

- Order limits
- Sheet index outline

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Other temporary and permanent construction and operational works

Discipline specific constraints

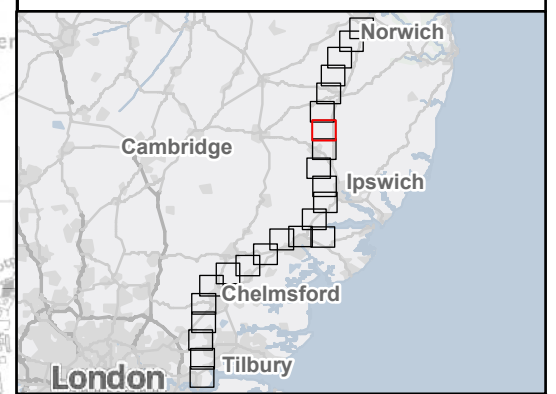
- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 7 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

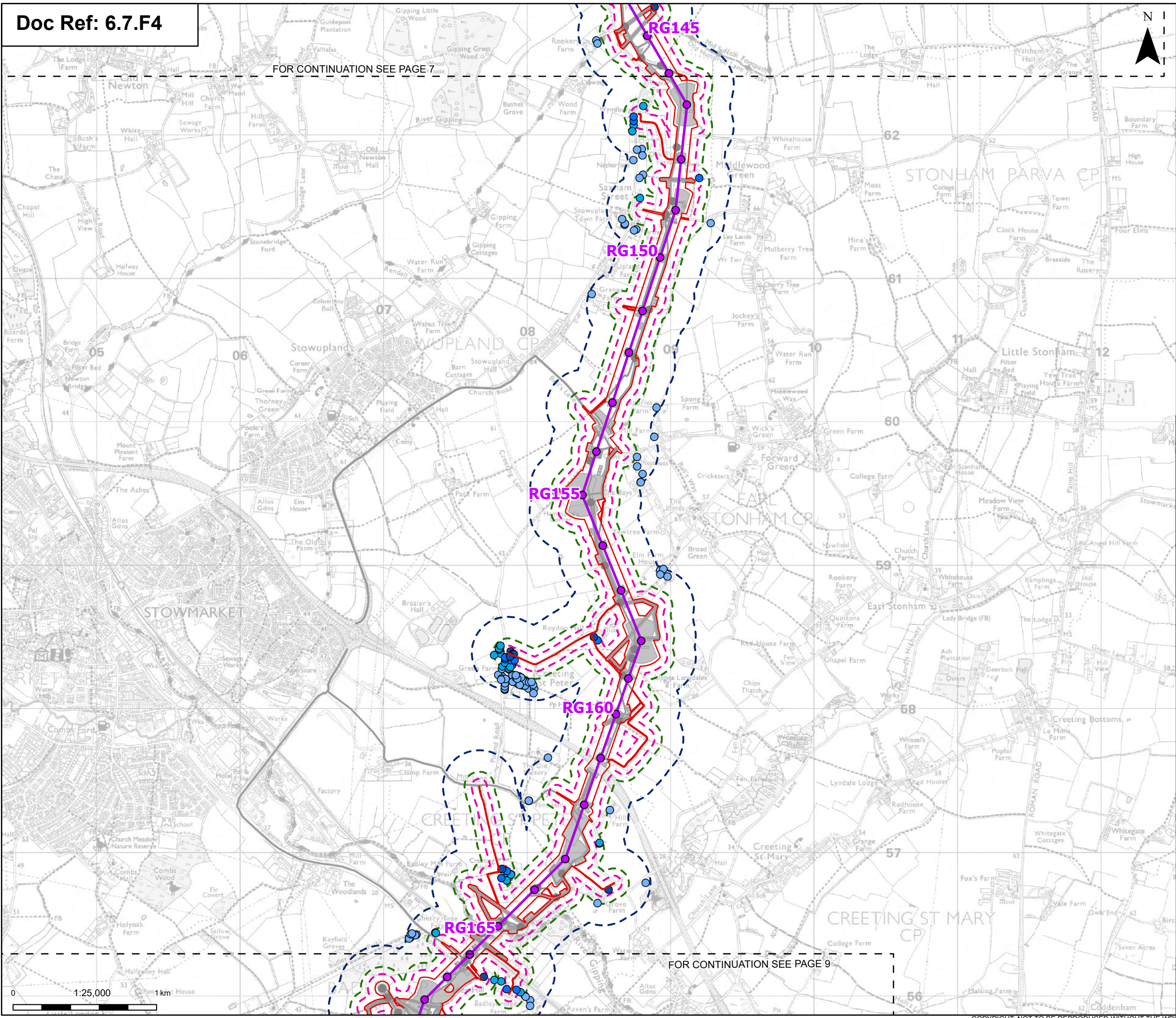
Drawing Number:
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Revision:
B

FOR CONTINUATION SEE PAGE 8

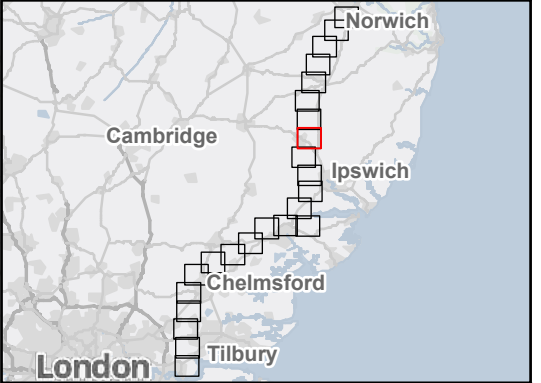
FOR CONTINUATION SEE PAGE 7

FOR CONTINUATION SEE PAGE 9



- Order limits
 - Sheet index outline
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Environmental mitigation
 - Other temporary and permanent construction and operational works
- Discipline specific constraints**
- 50 m Study Area
 - 100 m Study Area
 - 250 m Study Area
- Sensitive receptors**
- Within 20 m Study Area
 - Between 20 m to 50 m Study Area
 - Between 50 m to 100 m Study Area
 - Between 100 m to 250 m Study Area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

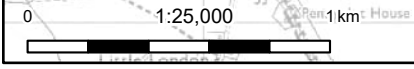
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 8 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

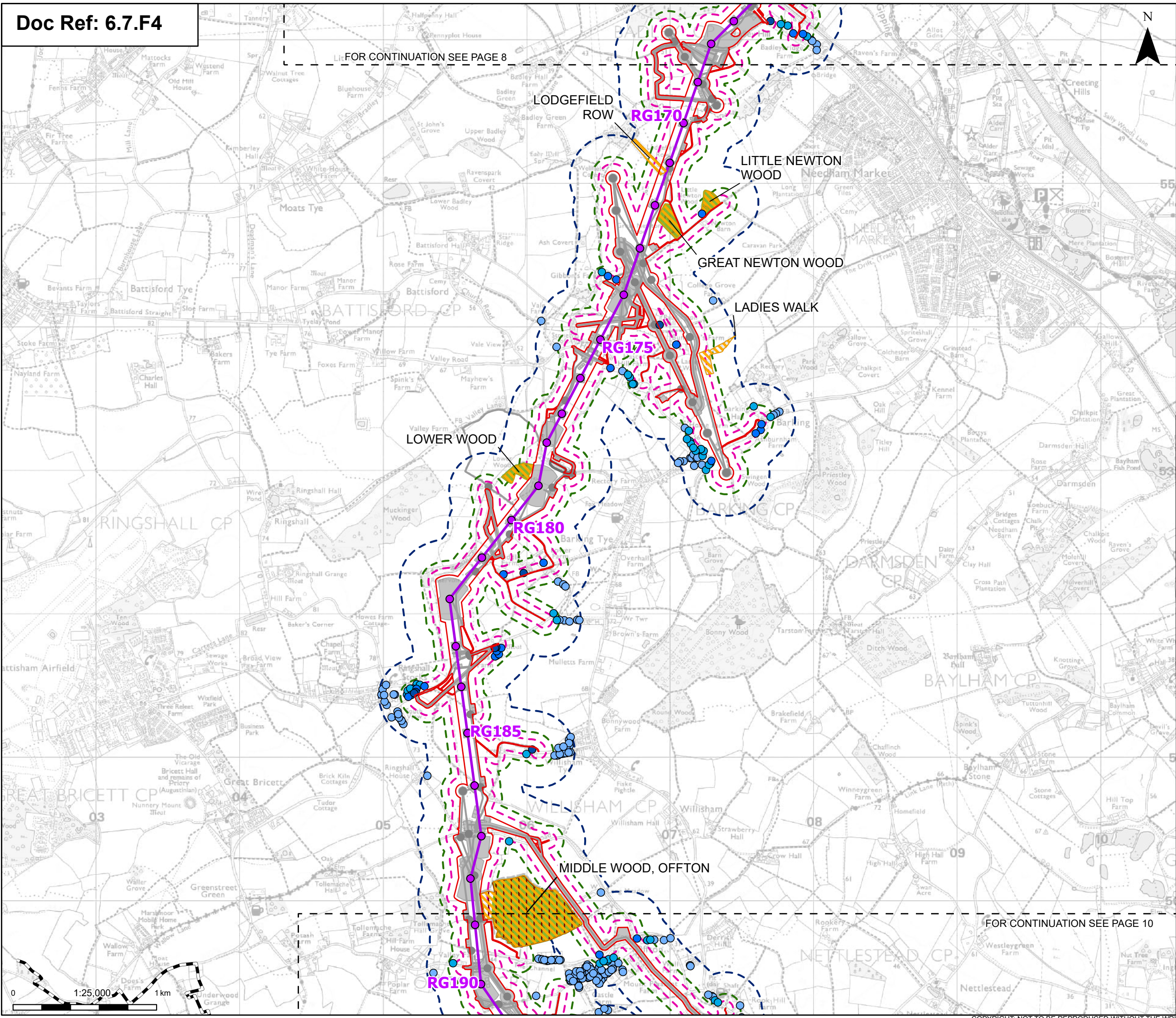
Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B



FOR CONTINUATION SEE PAGE 8



Order limits

- Sheet index outline
- Project section line

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

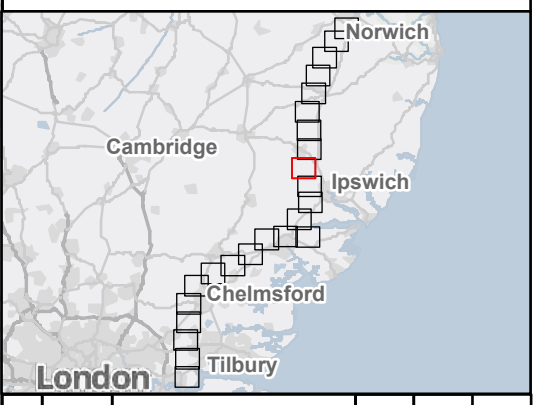
Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)

Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

Sites of special scientific interest (SSSI)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Rev	Date	Description	Drawn	Check	Approv

PROJECT: **nationalgrid** Norwich to Tilbury

Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

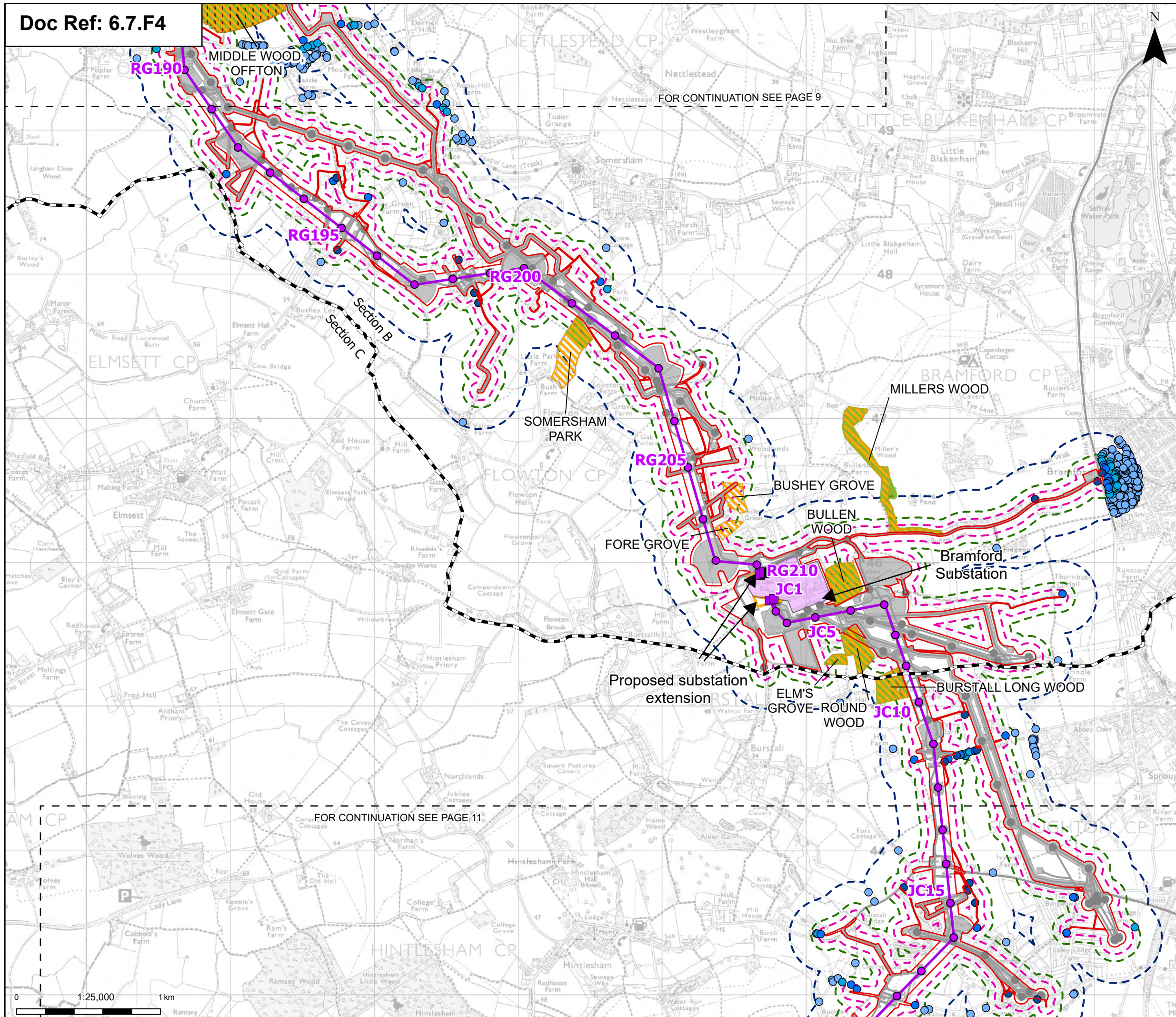
Title: **Figure 7.4 - Air Quality - Construction Dust Study Area Page 9 of 24**

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description: **Accepted as Concept Stage**

Drawing Number: **10059280-ARC-EAQ-ZZ-DR-ZZ-00430** Revision: **B**

FOR CONTINUATION SEE PAGE 10



Order limits

- Sheet index outline
- Project section line

Proposed project design details

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Bramford Substation
- Bramford Substation Extension
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

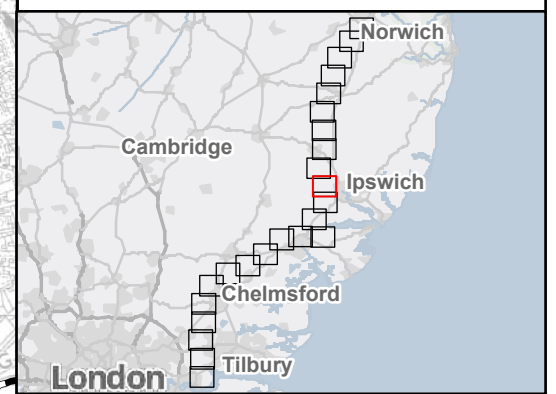
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)

- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)
- Sites of special scientific interest (SSSI)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

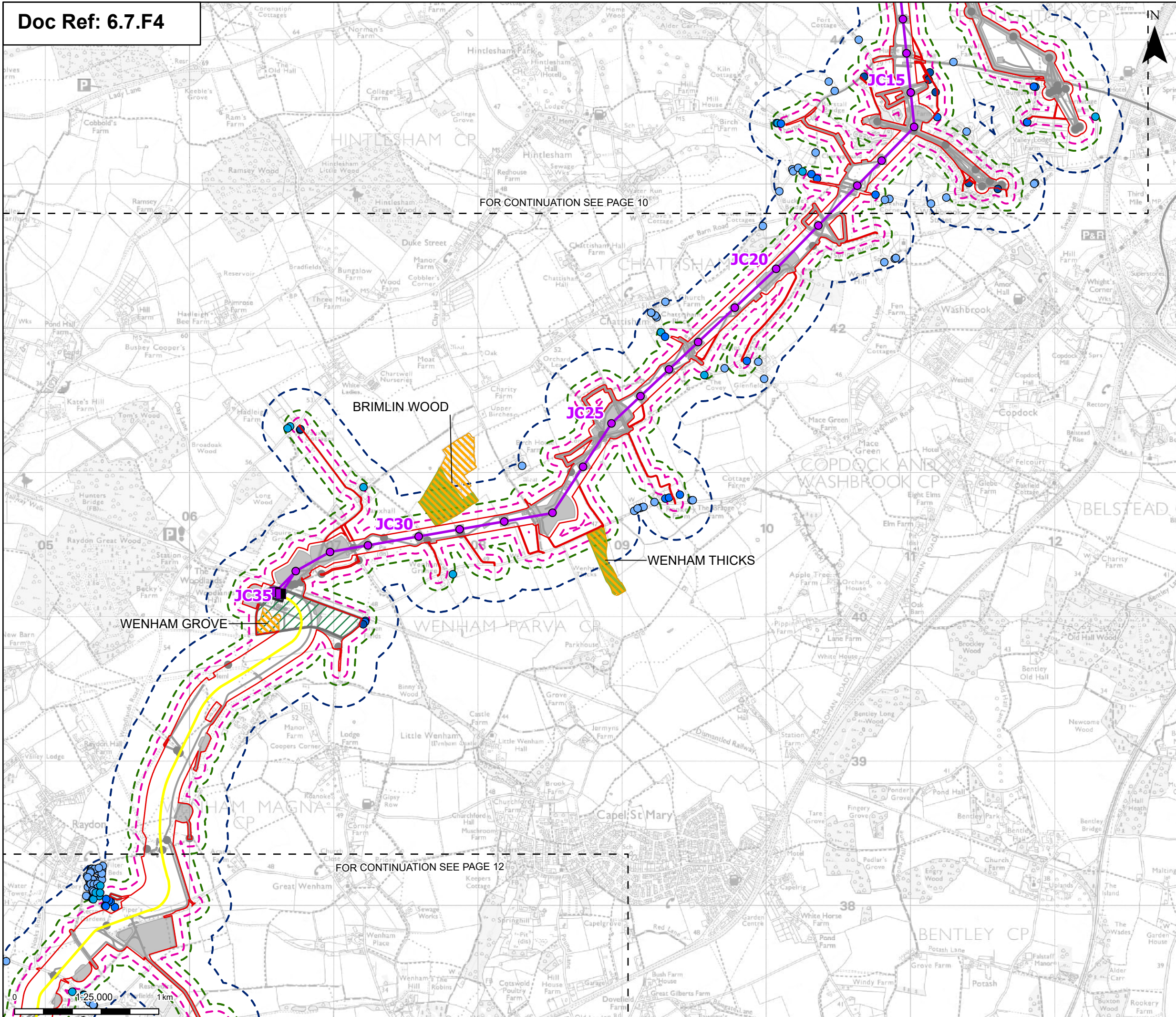
Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
 Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 10 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430
 Revision: B



Order limits
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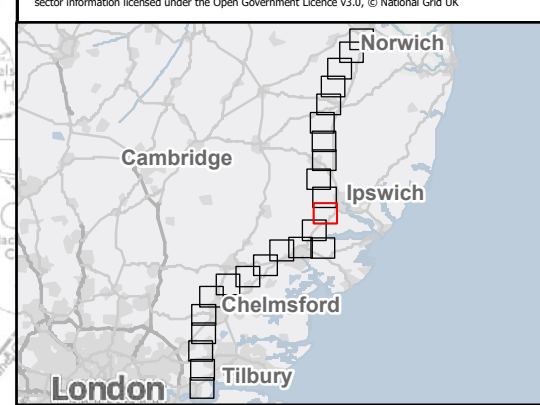
Proposed project design details
 Proposed full line tension gantry
 Proposed standard lattice pylon location
 Proposed overhead line alignment
 Proposed underground cable alignment
 Proposed cable sealing end compound (CSEC)
 Environmental area
 Environmental mitigation
 Other temporary and permanent construction and operational works

Discipline specific constraints
 50 m Study Area
 100 m Study Area
 250 m Study Area

Sensitive receptors
 Within 20 m Study Area
 Between 20 m to 50 m Study Area
 Between 50 m to 100 m Study Area
 Between 100 m to 250 m Study Area
 Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
 Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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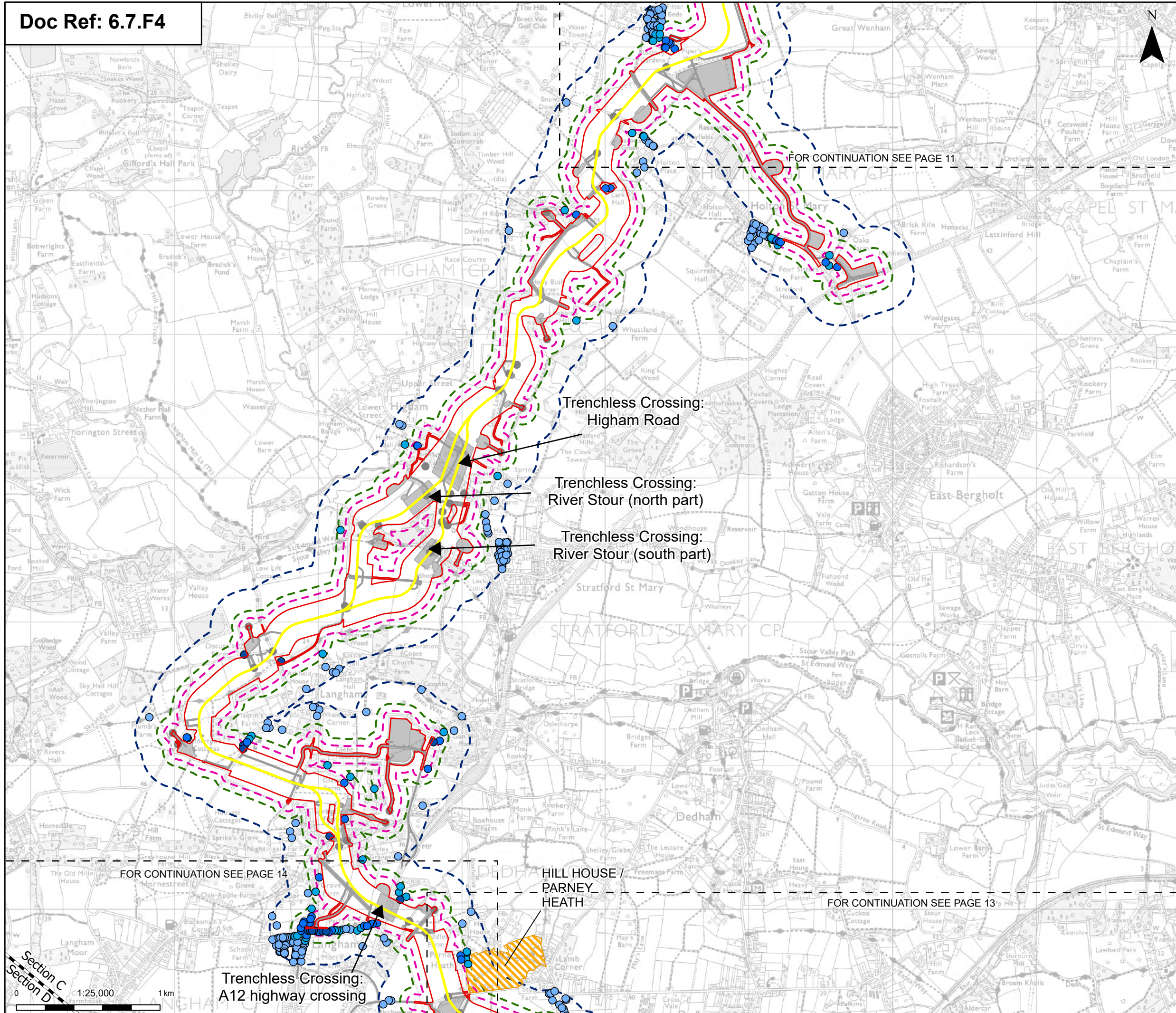
Rev	Date	Description	Drawn	Check	Approv
B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
 nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
 Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 11 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description: Accepted as Concept Stage			
Drawing Number:	10059280-ARC-EAQ-ZZ-DR-ZZ-00430		Revision: B



Order limits

- Order limits (Red outline)
- Sheet index outline (Dashed line)
- Project section line (Black line)

Proposed project design details

- Proposed underground cable alignment (Yellow line)
- Environmental mitigation (Pink outline)
- Other temporary and permanent construction and operational works (Grey area)

Discipline specific constraints

- 50 m Study Area (Pink dashed)
- 100 m Study Area (Green dashed)
- 250 m Study Area (Blue dashed)

Sensitive receptors

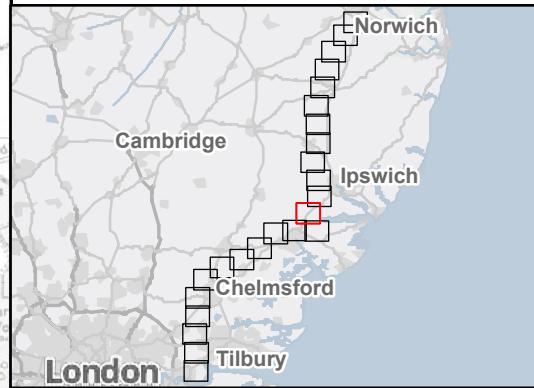
- Within 20 m Study Area (Blue dot)
- Between 20 m to 50 m Study Area (Light blue dot)
- Between 50 m to 100 m Study Area (Medium blue dot)
- Between 100 m to 250 m Study Area (Dark blue dot)

Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

- Updated Ancient Woodland Sites (Orange hatched area)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

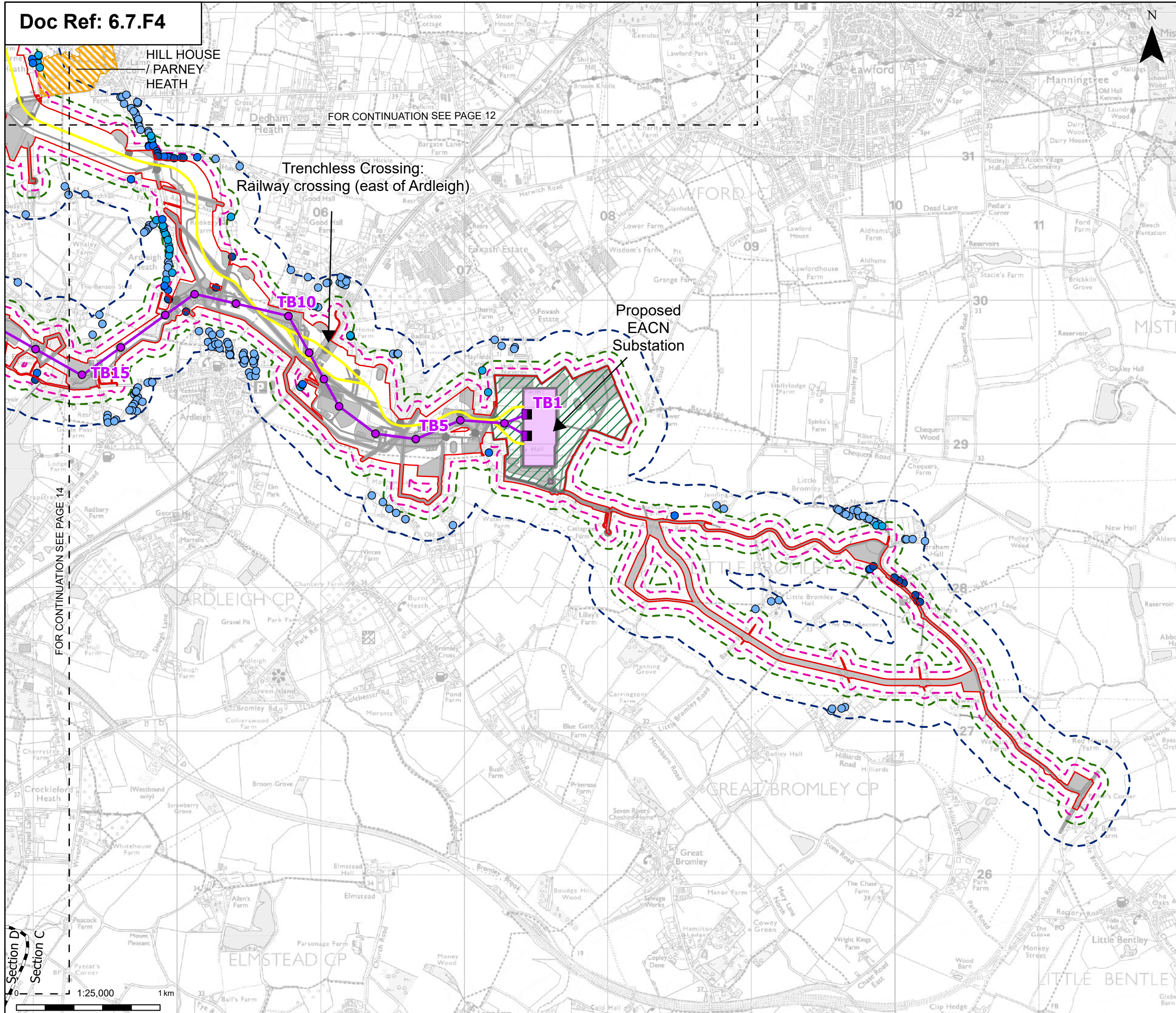
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 Regulation 5(2)(a)

Title:
 Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 12 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430
 Revision: B



Order limits
 Sheet index outline
 Project section line

100 m Study Area
250 m Study Area

Sensitive receptors

Proposed project design details

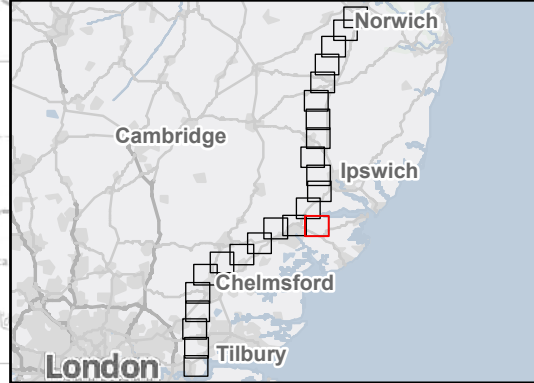
- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed DNO Substation
- Proposed East Anglia Connection Node (EACN) Substation
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

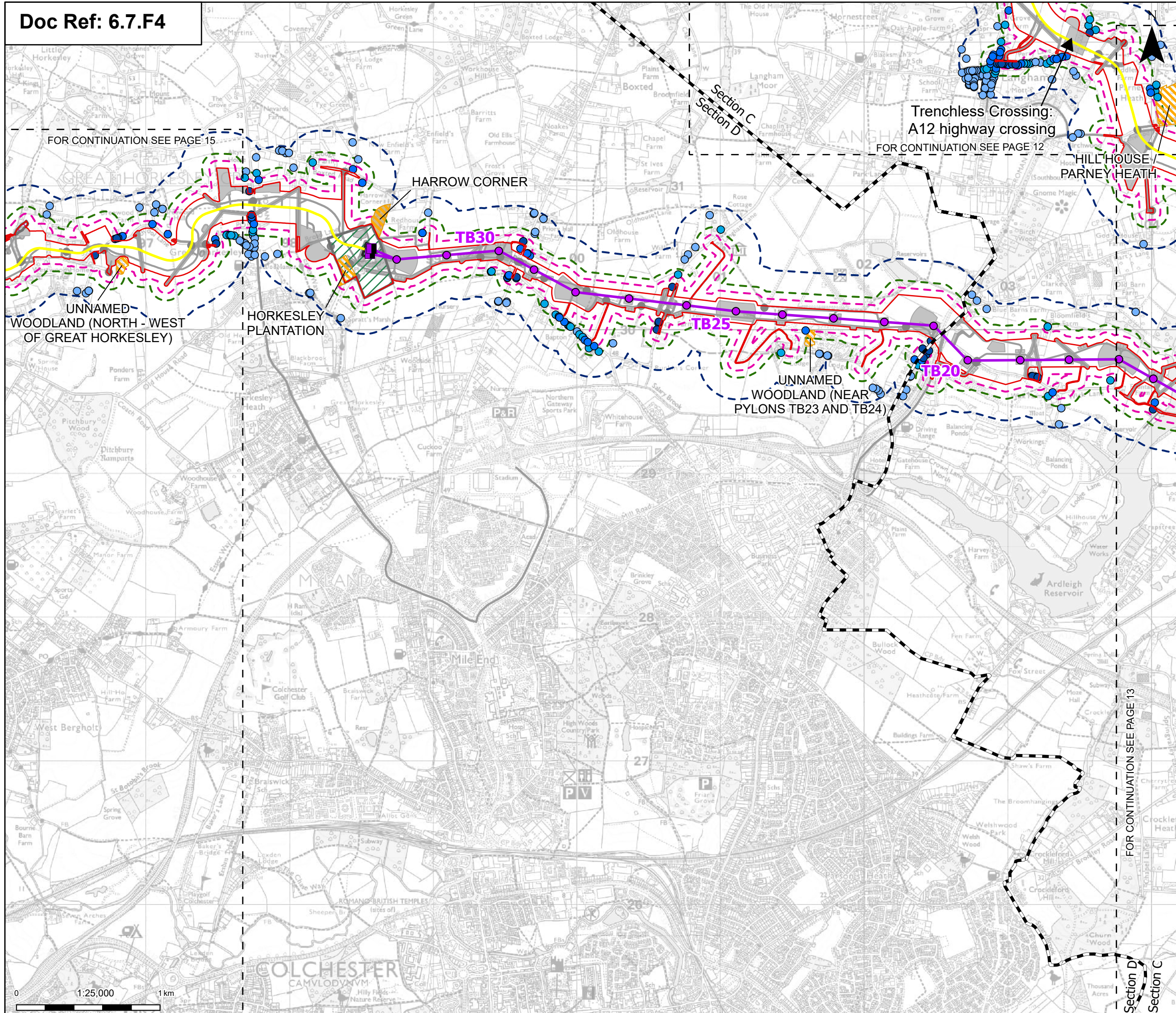
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 13 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B



Order limits

- Sheet index outline
- Project section line

Proposed project design details

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

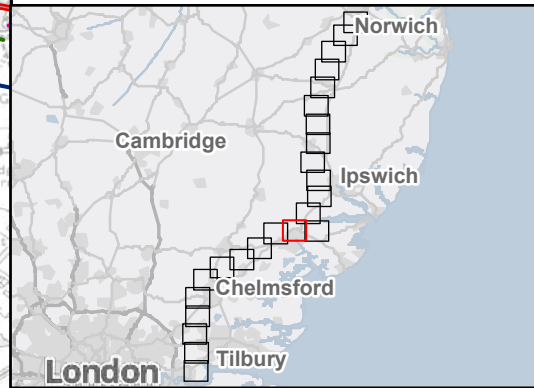
- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory (as per DCO Submission)
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

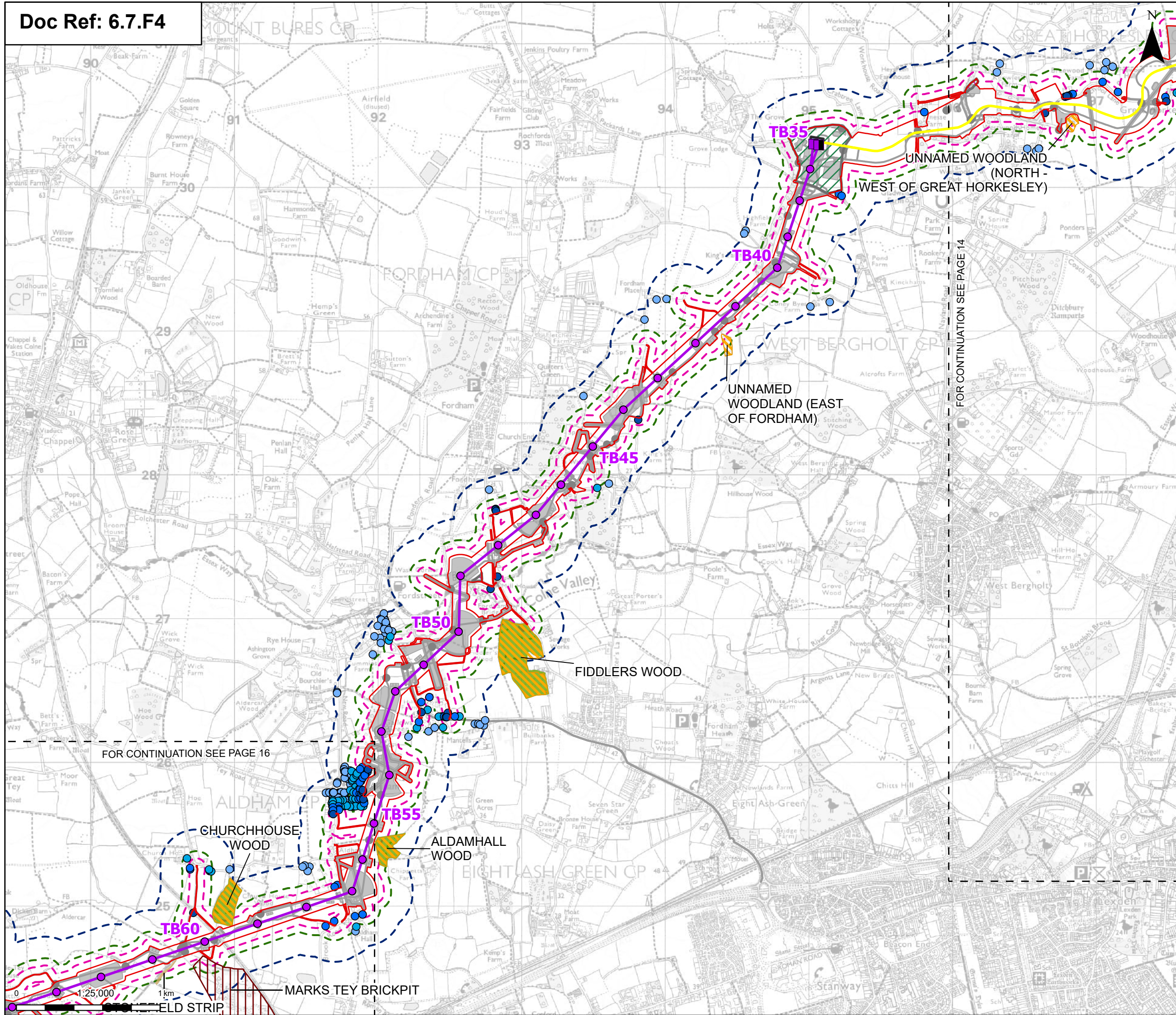
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 14 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
 B



Proposed project design details

- Order limits
- Sheet index outline
- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

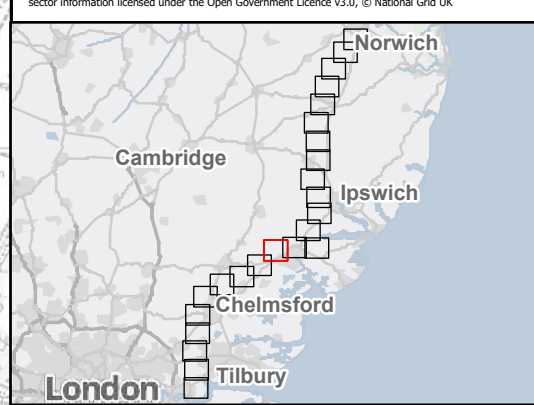
- Within 20 m Study Area
- Between 20 m to 50 m Study Area

Proposed project design details (continued)

- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area
- Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory (as per DCO Submission)
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)
- Sites of special scientific interest (SSSI)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

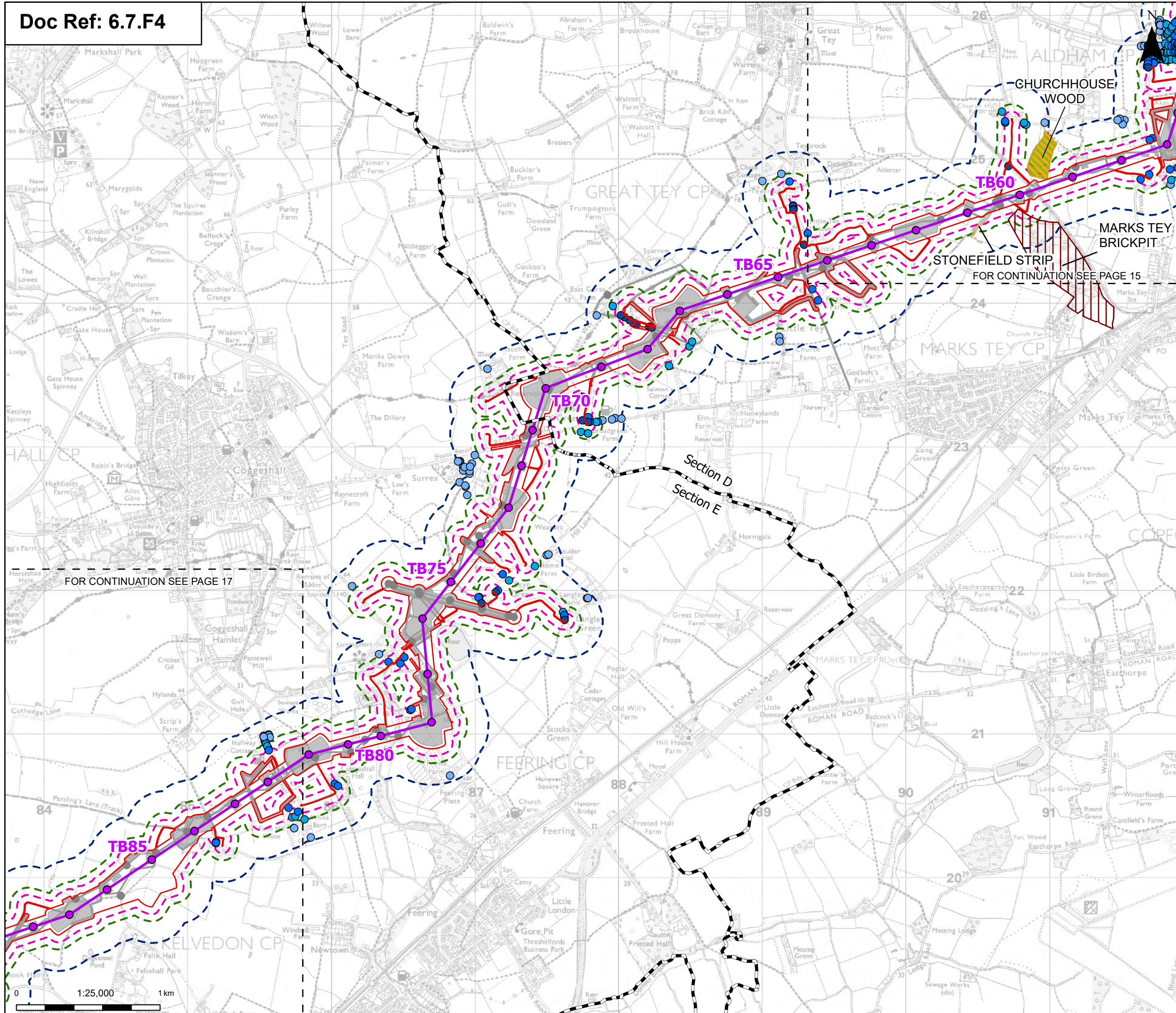
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 15 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
 B



Proposed project design details

- Order limits
- Sheet index outline
- Project section line
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

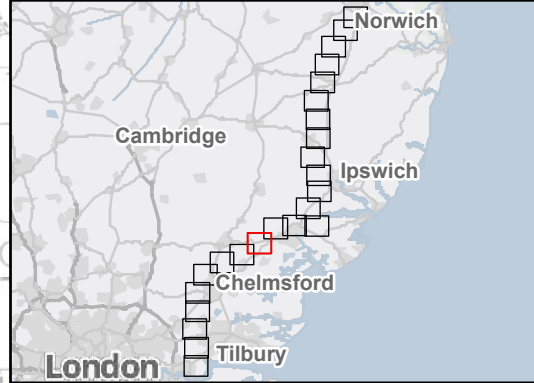
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)

- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory (as per DCO Submission)
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)
- Sites of special scientific interest (SSSI)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

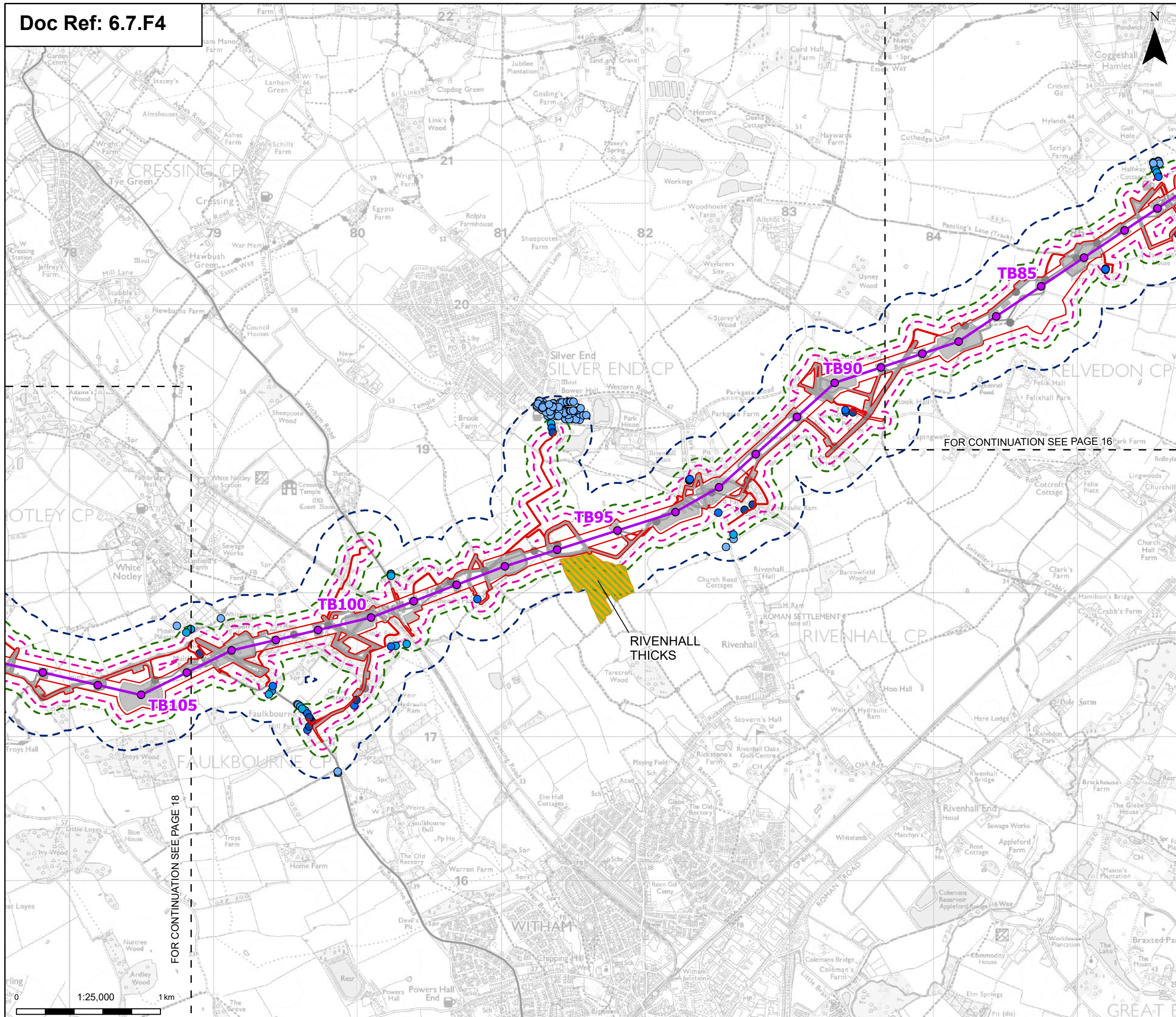
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 16 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
 B



- Order limits
 - Sheet index outline
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Other temporary and permanent construction and operational works
 - Sensitive receptors
 - Within 20 m Study Area
 - Between 20 m to 50 m Study Area
 - Between 50 m to 100 m Study Area
 - 50 m Study Area
 - 100 m Study Area
 - 250 m Study Area
 - Between 100 m to 250 m Study Area
 - Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
 - Woodland Inventory as per DCO Submission
 - Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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FOR CONTINUATION SEE PAGE 18

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

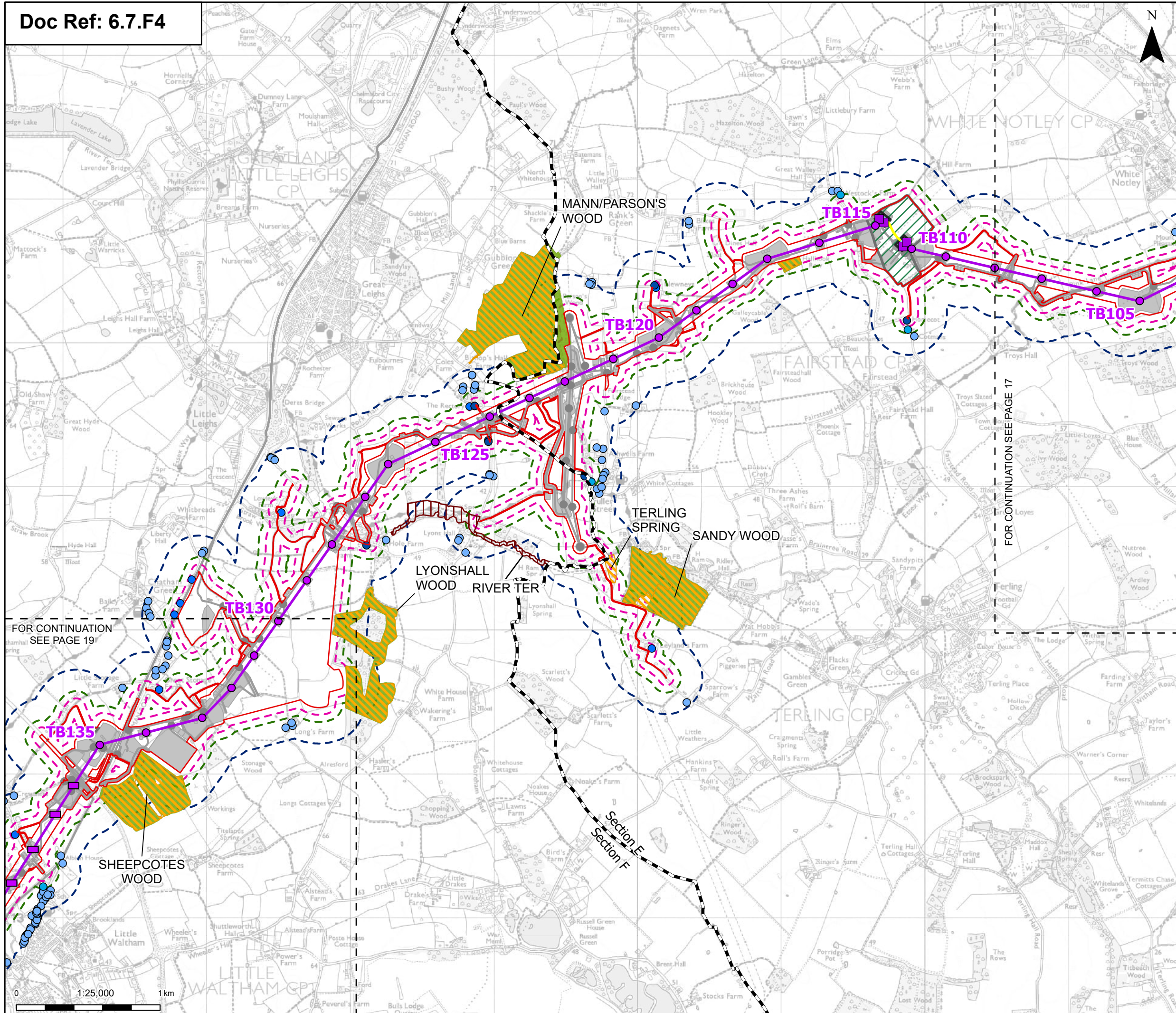
Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 17 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430 Revision: B



Order limits

- Sheet index outline
- Project section line

Proposed project design details

- Proposed low duty gantry
- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

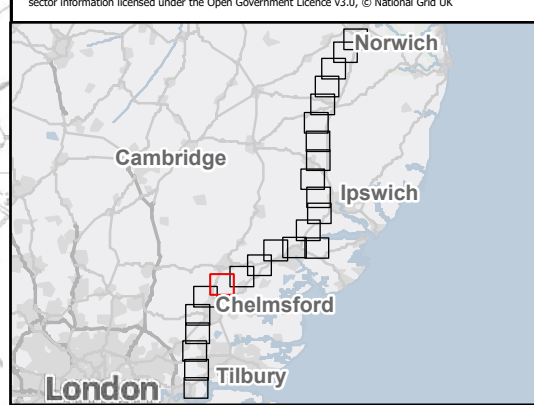
- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area
- Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
- Woodland Inventory as per DCO Submission
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)
- Sites of special scientific interest (SSSI)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB
Rev	Date	Description	Drawn	Check	Approv

PROJECT: **nationalgrid** Norwich to Tilbury

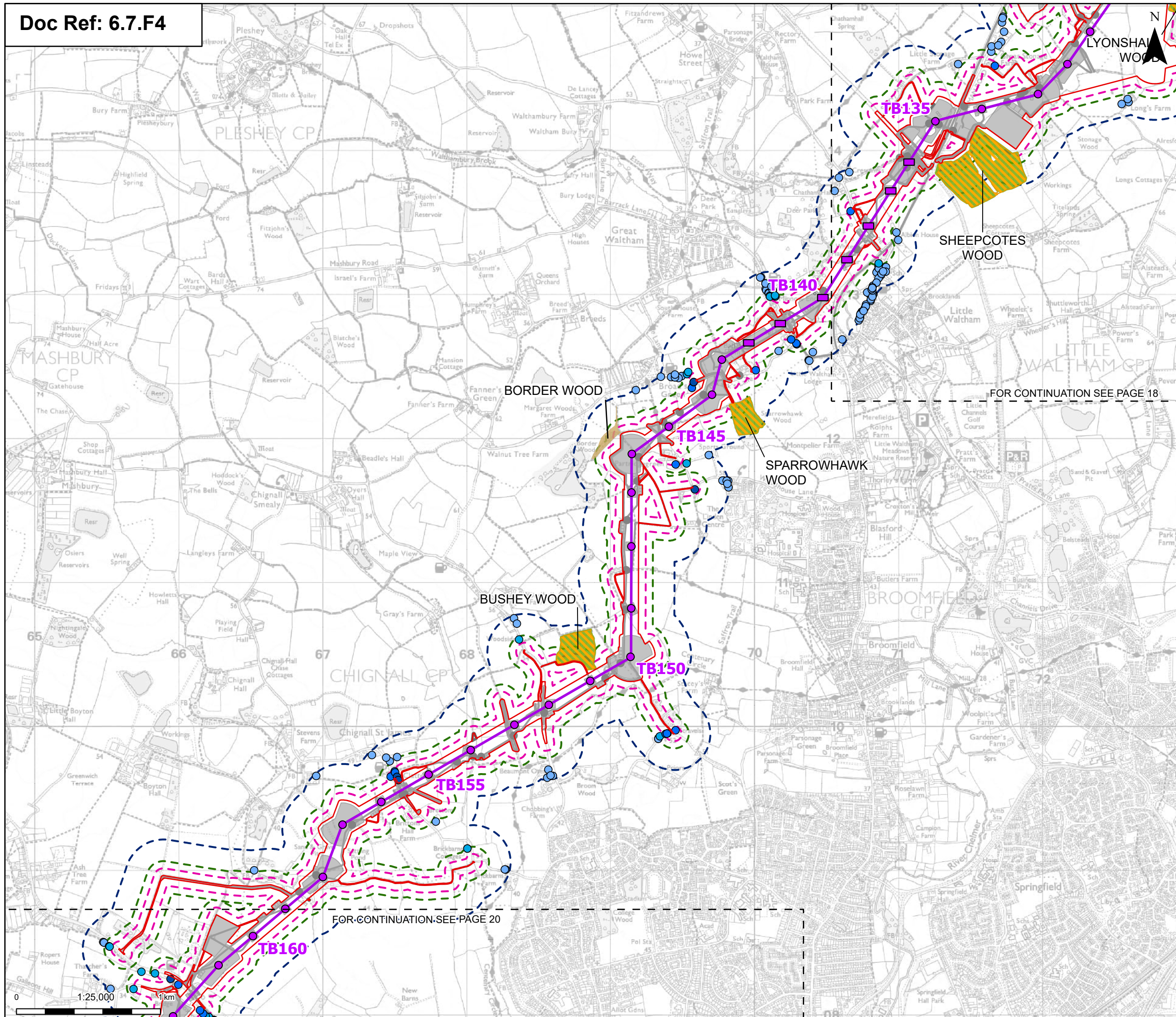
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
Page 18 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430
Revision: **B**



Order limits

- Order limits (Red dashed line)
- Sheet index outline (Black dashed line)

Proposed project design details

- Proposed low height pylon location (Purple square)
- Proposed lattice pylon location (Purple circle)
- Proposed overhead line alignment (Purple line)
- Environmental mitigation (Grey hatched area)
- Other temporary and permanent construction and operational works (Grey solid area)

Discipline specific constraints

- 50 m Study Area (Pink dashed line)
- 100 m Study Area (Green dashed line)
- 250 m Study Area (Blue dashed line)

Sensitive receptors

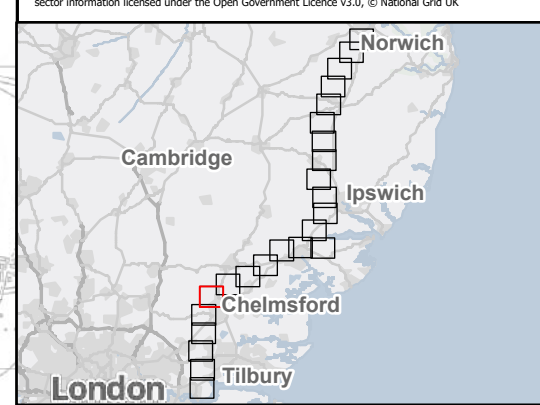
- Within 20 m Study Area (Blue circle)
- Between 20 m to 50 m Study Area (Blue circle)
- Between 50 m to 100 m Study Area (Blue circle)

Ancient Woodland Sites

- Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission) (Green hatched area)
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory (as per DCO Submission) (Yellow hatched area)
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025) (Orange hatched area)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

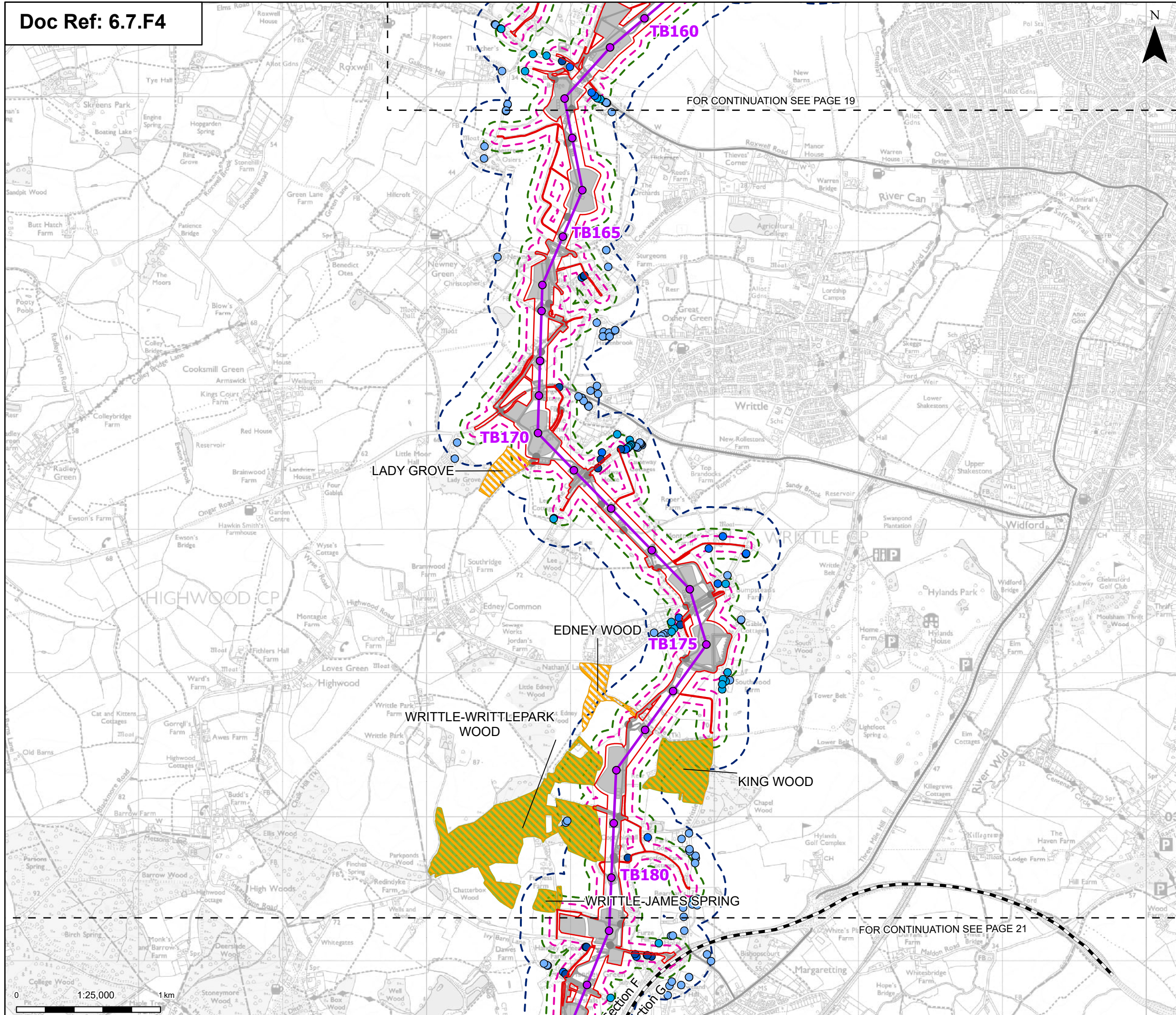
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 19 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B



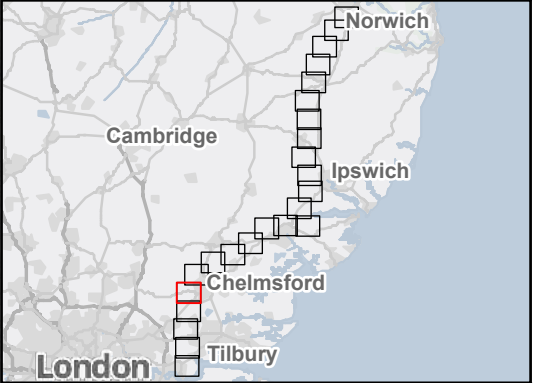
FOR CONTINUATION SEE PAGE 19

FOR CONTINUATION SEE PAGE 21



- Order limits
- Sheet index outline
- Project section line
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works
- 50 m Study Area
- 100 m Study Area
- 250 m Study Area
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area
- Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

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Rev	Date	Description	Drawn	Check	Approv
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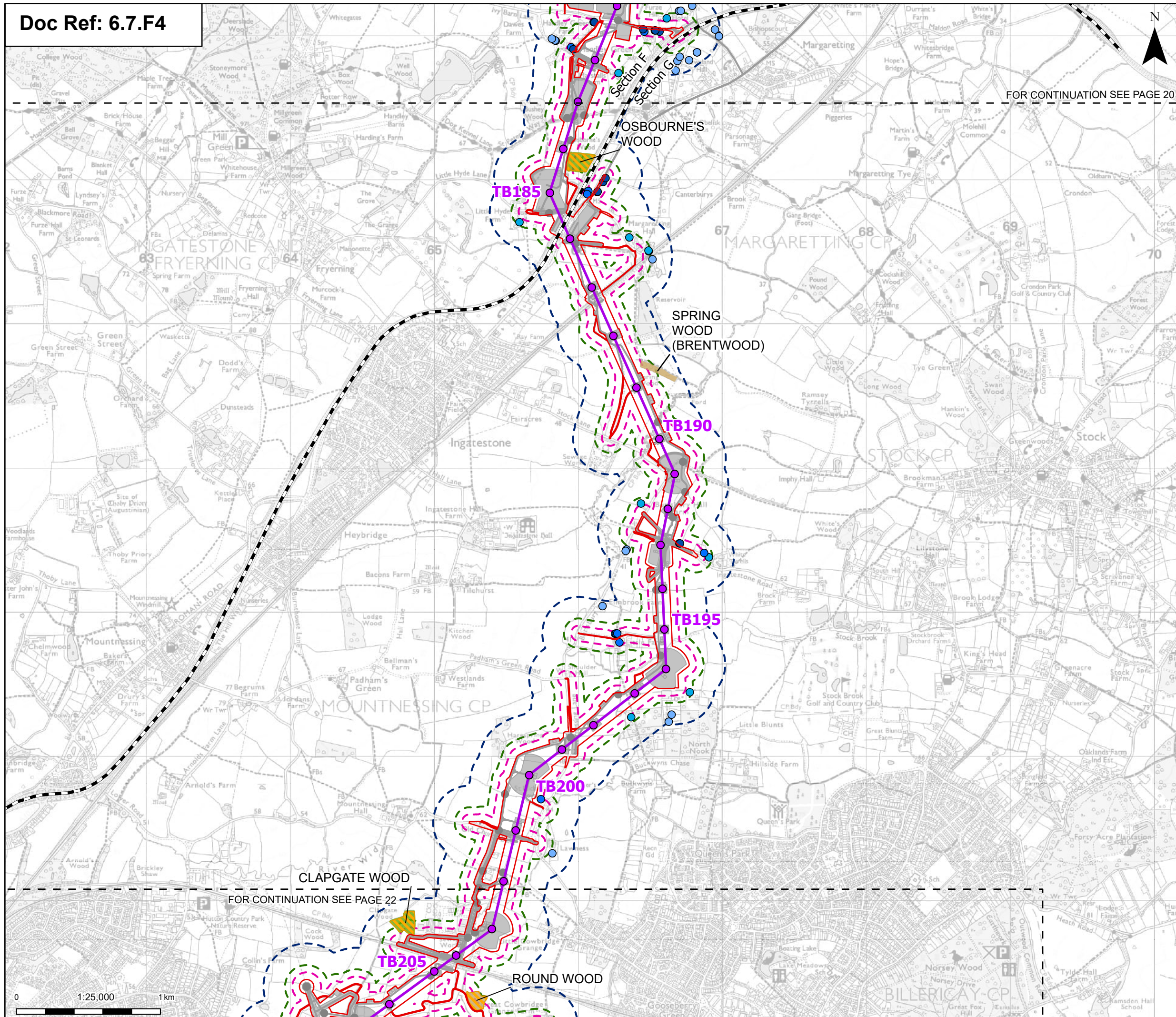
PROJECT:
nationalgrid Norwich to Tilbury
 Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 20 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage
 Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430
 Revision: B



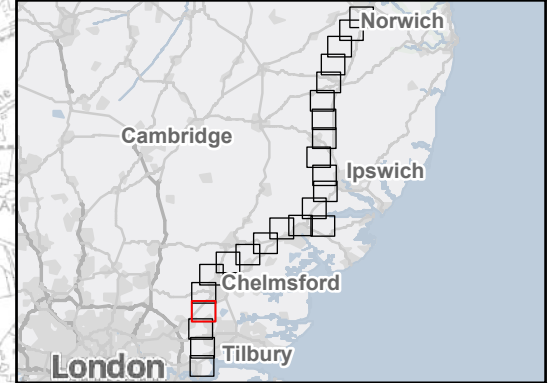


FOR CONTINUATION SEE PAGE 20

FOR CONTINUATION SEE PAGE 22

- Order limits
 - Sheet index outline
 - Project section line
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Environmental mitigation
 - Other temporary and permanent construction and operational works
 - 50 m Study Area
 - 100 m Study Area
 - 250 m Study Area
 - Within 20 m Study Area
 - Between 20 m to 50 m Study Area
 - Between 50 m to 100 m Study Area
 - Between 100 m to 250 m Study Area
 - Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
 - Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory (as per DCO Submission)
 - Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)
- Discipline specific constraints**
- Sensitive receptors**
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

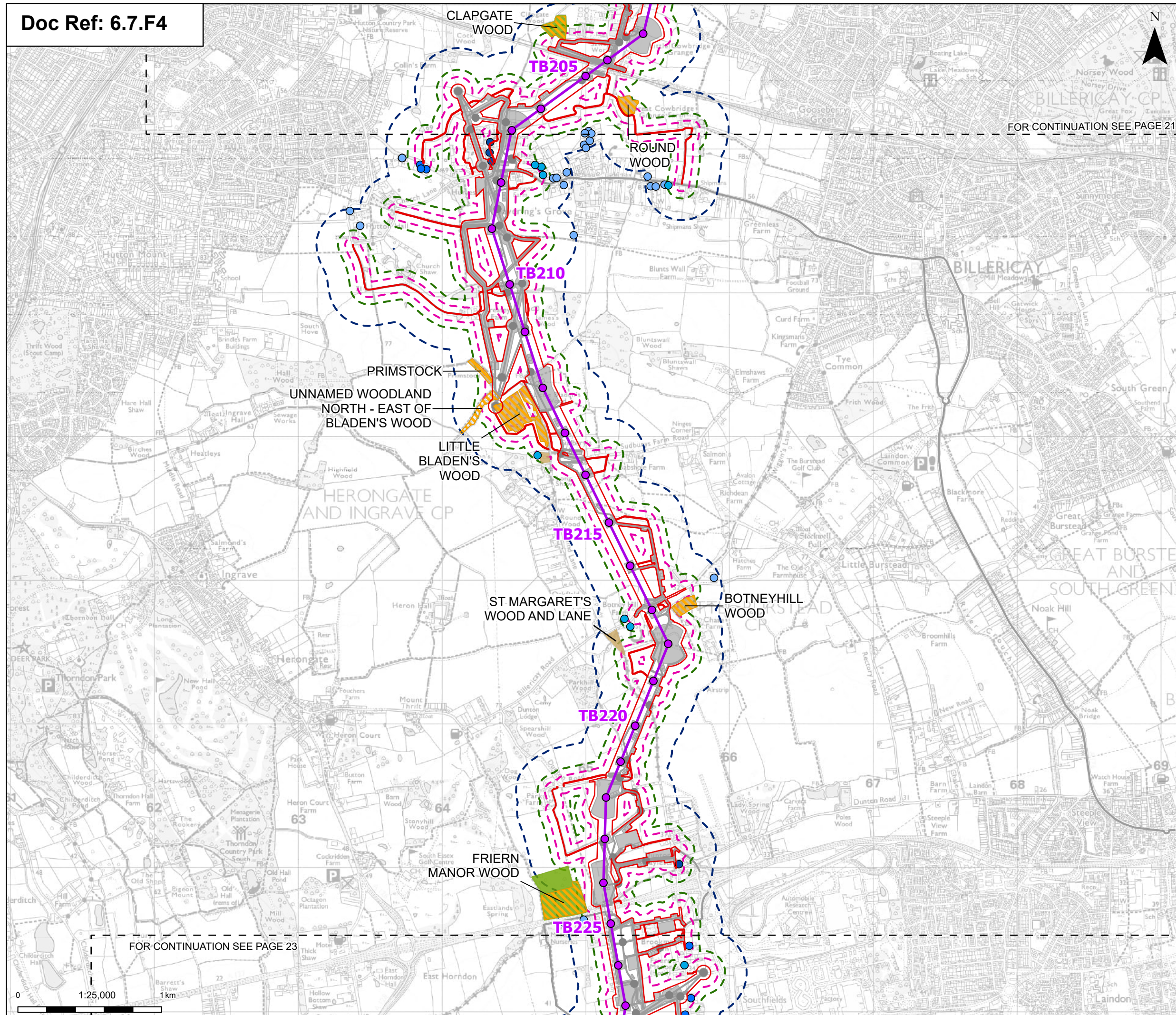
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Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 21 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B



Order limits
 Sheet index outline

Proposed project design details
 Proposed standard lattice pylon location
 Proposed overhead line alignment
 Other temporary and permanent construction and operational works

Discipline specific constraints
 50 m Study Area
 100 m Study Area
 250 m Study Area

Sensitive receptors
 Within 20 m Study Area
 Between 20 m to 50 m Study Area
 Between 50 m to 100 m Study Area
 Between 100 m to 250 m Study Area

Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
 Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory (as per DCO Submission)
 Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 22 of 24

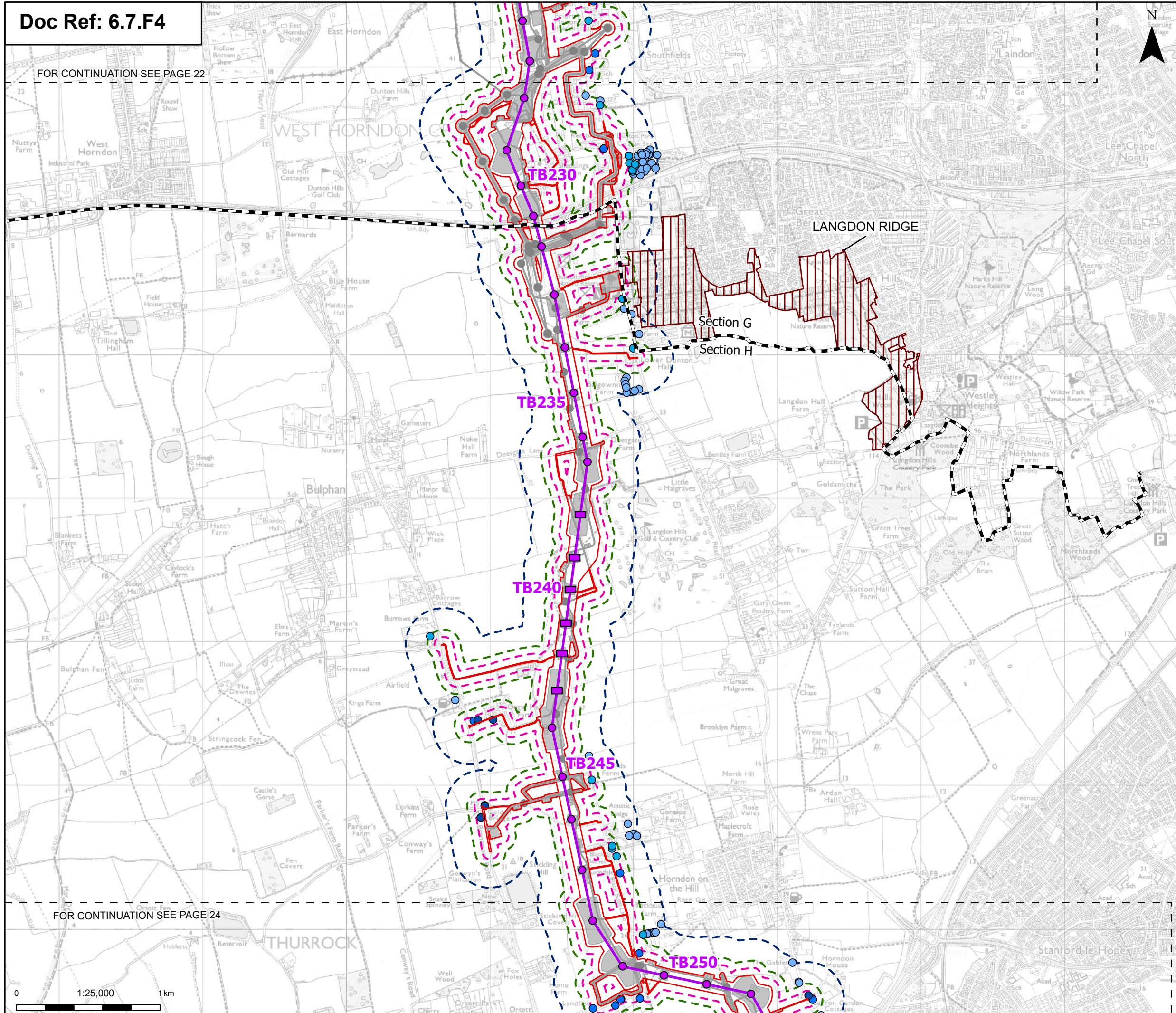
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Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
B

FOR CONTINUATION SEE PAGE 22



FOR CONTINUATION SEE PAGE 24



Order limits

- Sheet index outline
- Project section line

Proposed project design details

- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

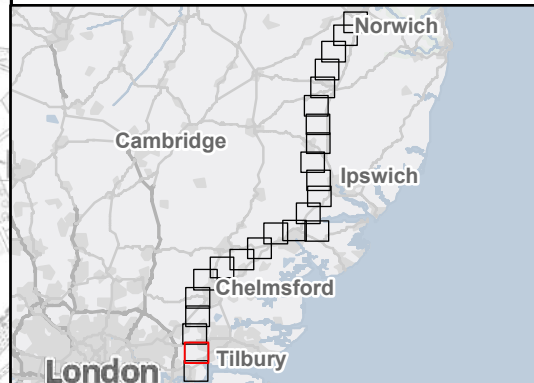
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Ecological sites within 50 m

- Sites of special scientific interest (SSSI)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT: **nationalgrid** Norwich to Tilbury

Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

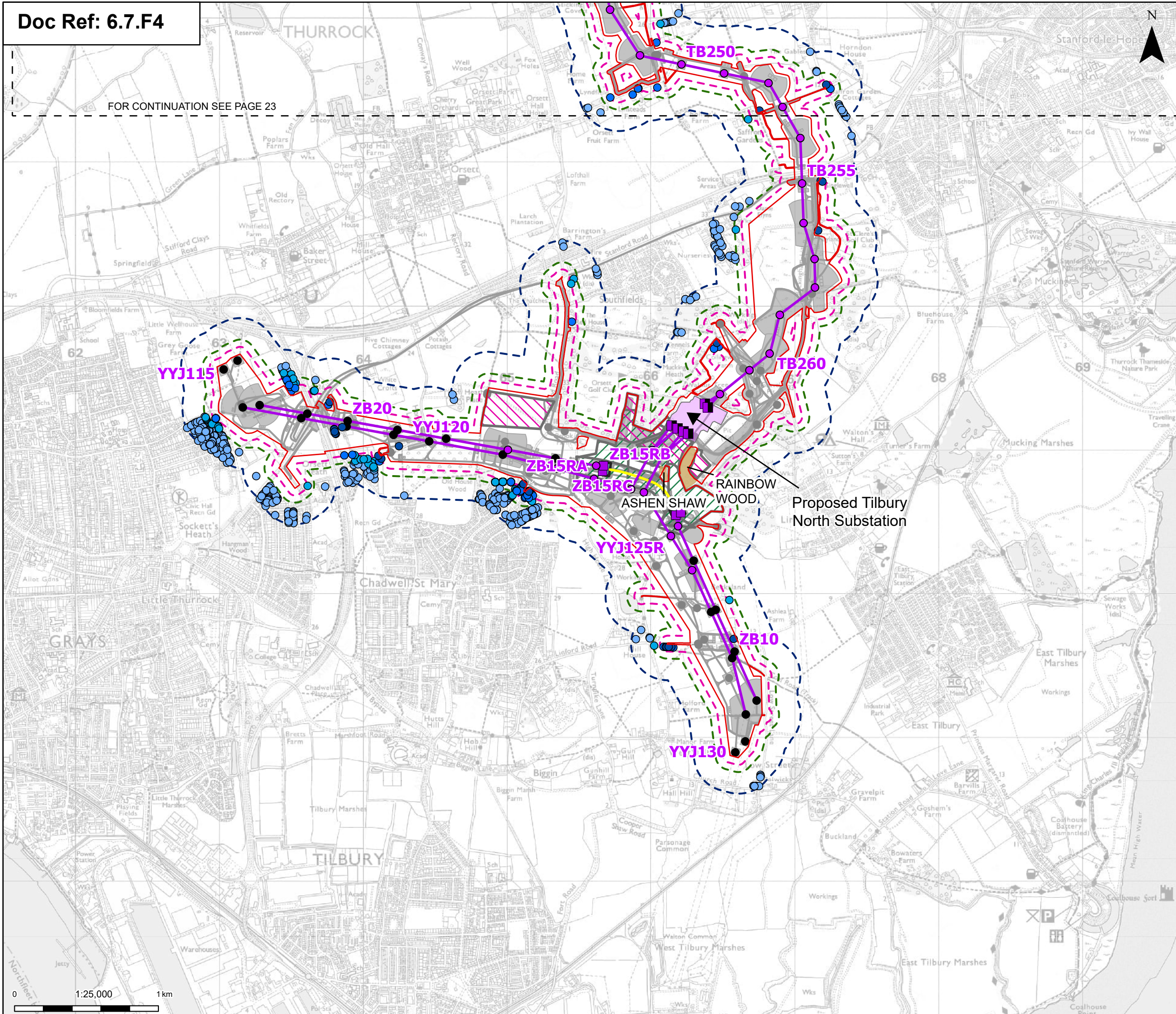
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
Page 23 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:	10059280-ARC-EAQ-ZZ-DR-ZZ-00430	Revision:	B
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FOR CONTINUATION SEE PAGE 23



- Order limits
- Sheet index cutline
- 100 m Study Area
- 250 m Study Area
- Proposed project design details**
- Proposed full line tension gantry
- Proposed low duty gantry
- Existing pylon (modify)
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed Tilbury North Substation
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works
- Sensitive receptors**
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory (as per DCO Submission)
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).
- Discipline specific constraints**
- 50 m Study Area

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Rev	Date	Description	Drawn	Check	Approv
B	Mar 2026	FOR DCO APPLICATION	NB	AF	KB
A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

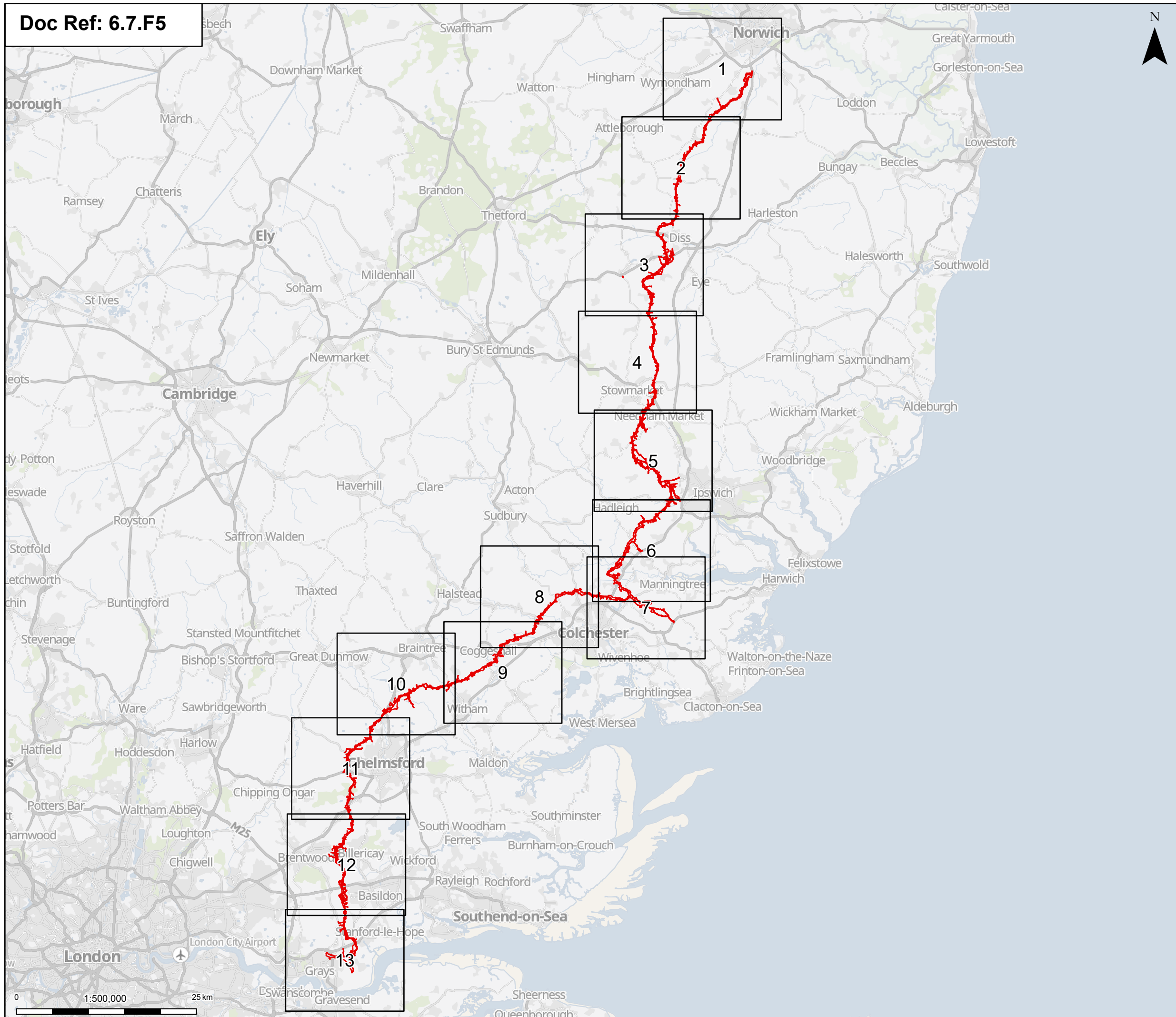
PROJECT:
nationalgrid Norwich to Tilbury
 Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
 Page 24 of 24

Designed	S. Gkino	Date	March 26
Drawn	N. Banu	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

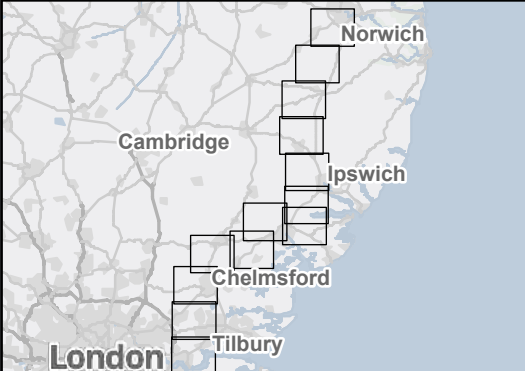
Suitability Description:
 Accepted as Concept Stage
 Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430
 Revision: **B**

Figure 7.5 Air Quality Affected Road Network (Revision B)



Order limits
Pages

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

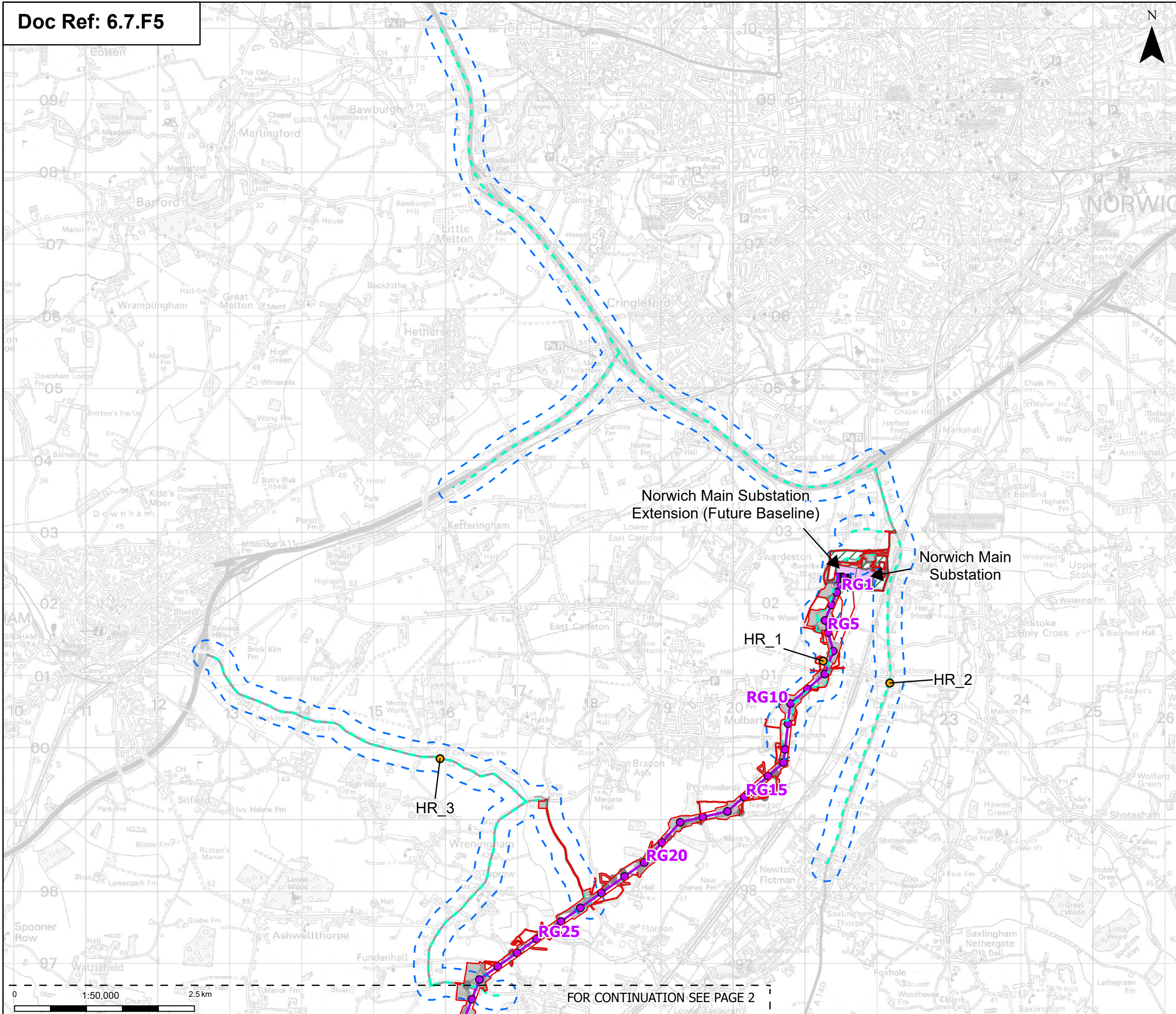
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure 7.5 - Air Quality - Affected Road Network Overview

Designed	S. Gkino	Date	March 26
Drawn	K. Fischer	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00431	Revision: B
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Order limits
 Sheet index cutline

Proposed project design details

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Norwich Main Substation
- Norwich Main Substation Extension (future baseline)
- Environmental area
- Environmental mitigation

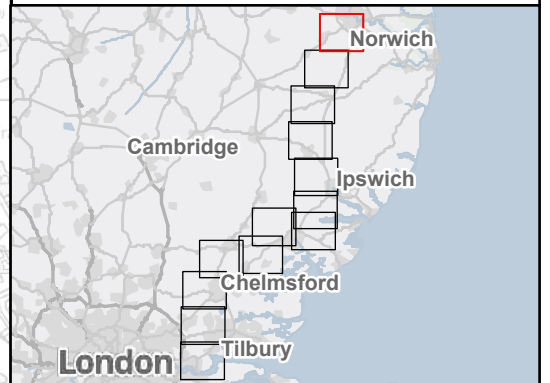
Other temporary and permanent construction and operational works

Discipline specific constraints

- Affected road network
- Construction traffic 200m Study Area
- Human receptors

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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nationalgrid Norwich to Tilbury

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Title:
Figure 7.5 - Air Quality - Affected Road Network
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Designed	S. Gkino	Date	March 26
Drawn	K. Fischer	Date	March 26
Checked	A. Fell	Date	March 26
Approved	K. Burrows	Date	March 26
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

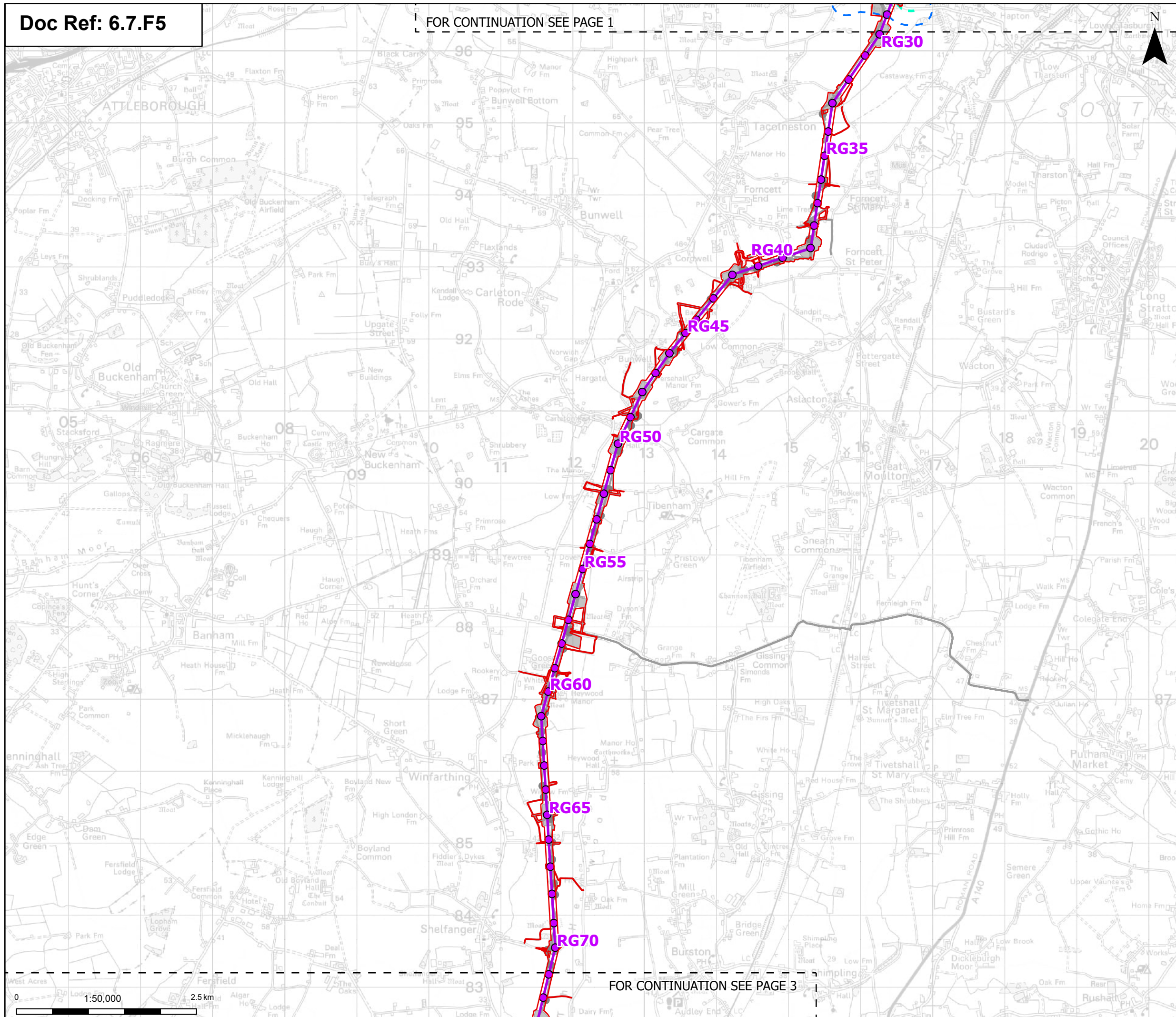
Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10059280-ARC-EAQ-ZZ-DR-ZZ-00431

Revision:
 B



FOR CONTINUATION SEE PAGE 2



Order limits
 Sheet index outline

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Other temporary and permanent construction and operational works

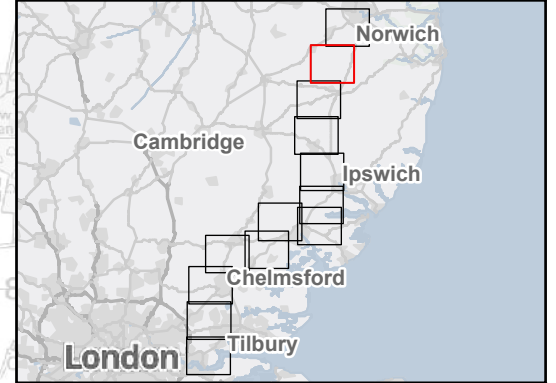
Discipline specific constraints

- Affected road network

Construction traffic 200m Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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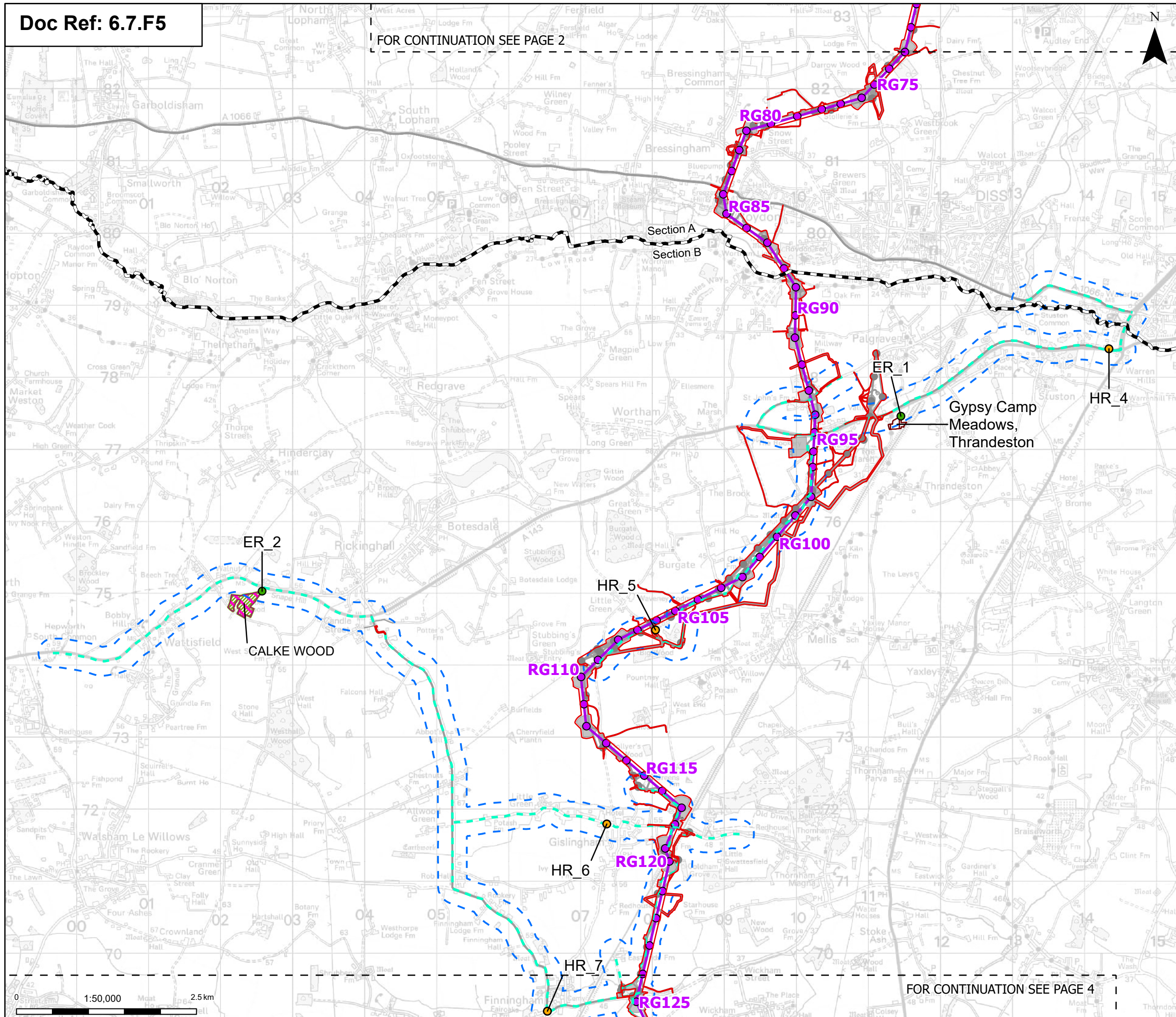
Planning Inspectorate App Number: EN020027
 Regulation 5(2)(a)

Title:
Figure 7.5 - Air Quality - Affected Road Network
 Page 2 of 13

Designed	S. Gkino	Date	March 26
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
 Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00431	Revision: B
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Proposed project design details

- Order limits
- Sheet index outline
- Project section line
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- Affected road network
- Construction traffic 200 m Study Area

Receptors

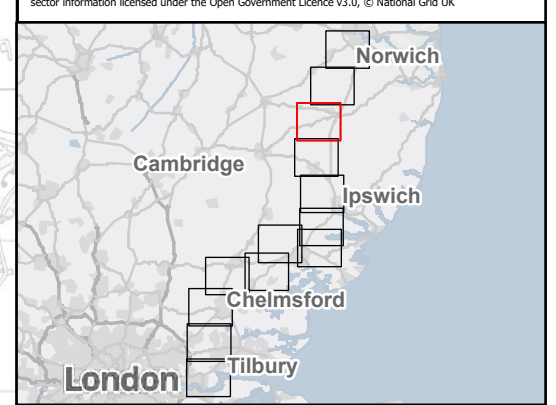
- Human receptors
- Ecological receptors

Woodland Sites

- Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
- Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)
- Site of special scientific interest

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT: **nationalgrid** Norwich to Tilbury

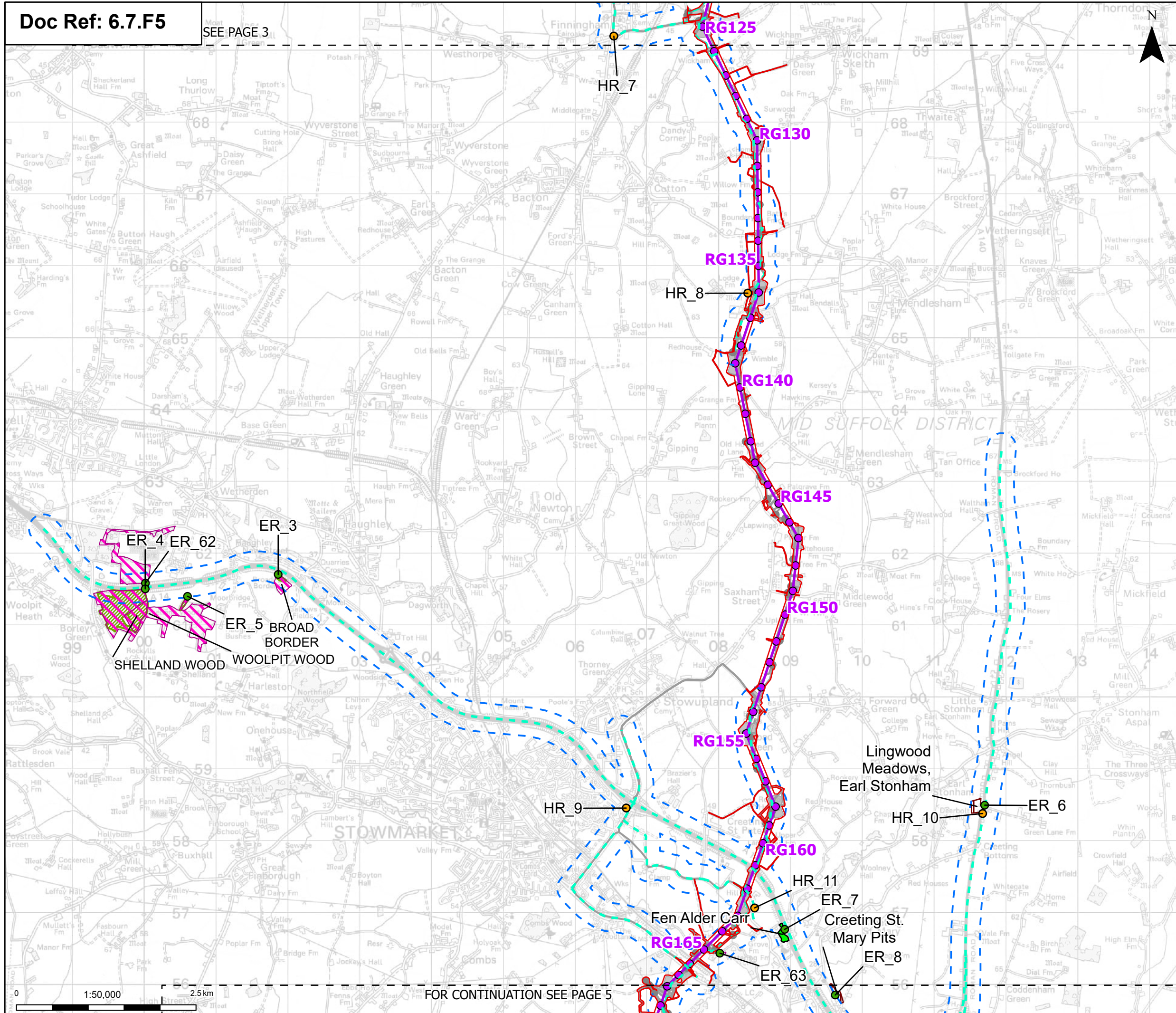
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Title:
Figure 7.5 - Air Quality - Affected Road Network
Page 3 of 13

Designed	S. Gkino	Date	March 26
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Approved	K. Burrows	Date	March 26
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00431
Revision: B



Order limits
 Sheet index cutline

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

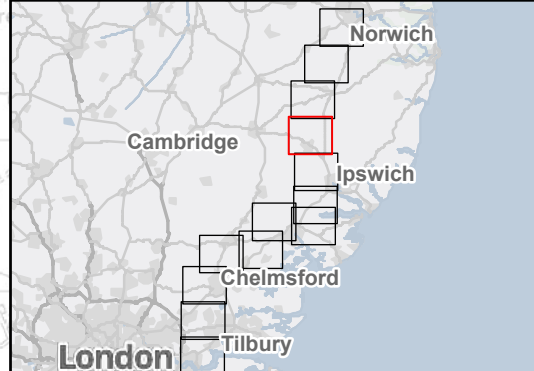
- Affected road network
- Construction traffic 200 m Study Area
- Ancient Woodland Sites (Ancient Woodland Inventory as per DCO Submission)
- Woodland Inventory as per DCO Submission

Updated Ancient Woodland Sites (Ancient Woodland Inventory as per October 2025)

- Site of special scientific interest
- Local nature reserve (LNR)
- Human receptors
- Ecological receptors

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
 nationalgrid Norwich to Tilbury

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Title:
 Figure 7.5 - Air Quality - Affected Road Network
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Approved	K. Burrows	Date	March 26
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

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