

Issue number: BT-JAC-020631-560-0009

Bramford to Twinstead Reinforcement

2.3 Preliminary Environmental Information Report

Volume 3 Figures

January 2022



nationalgrid

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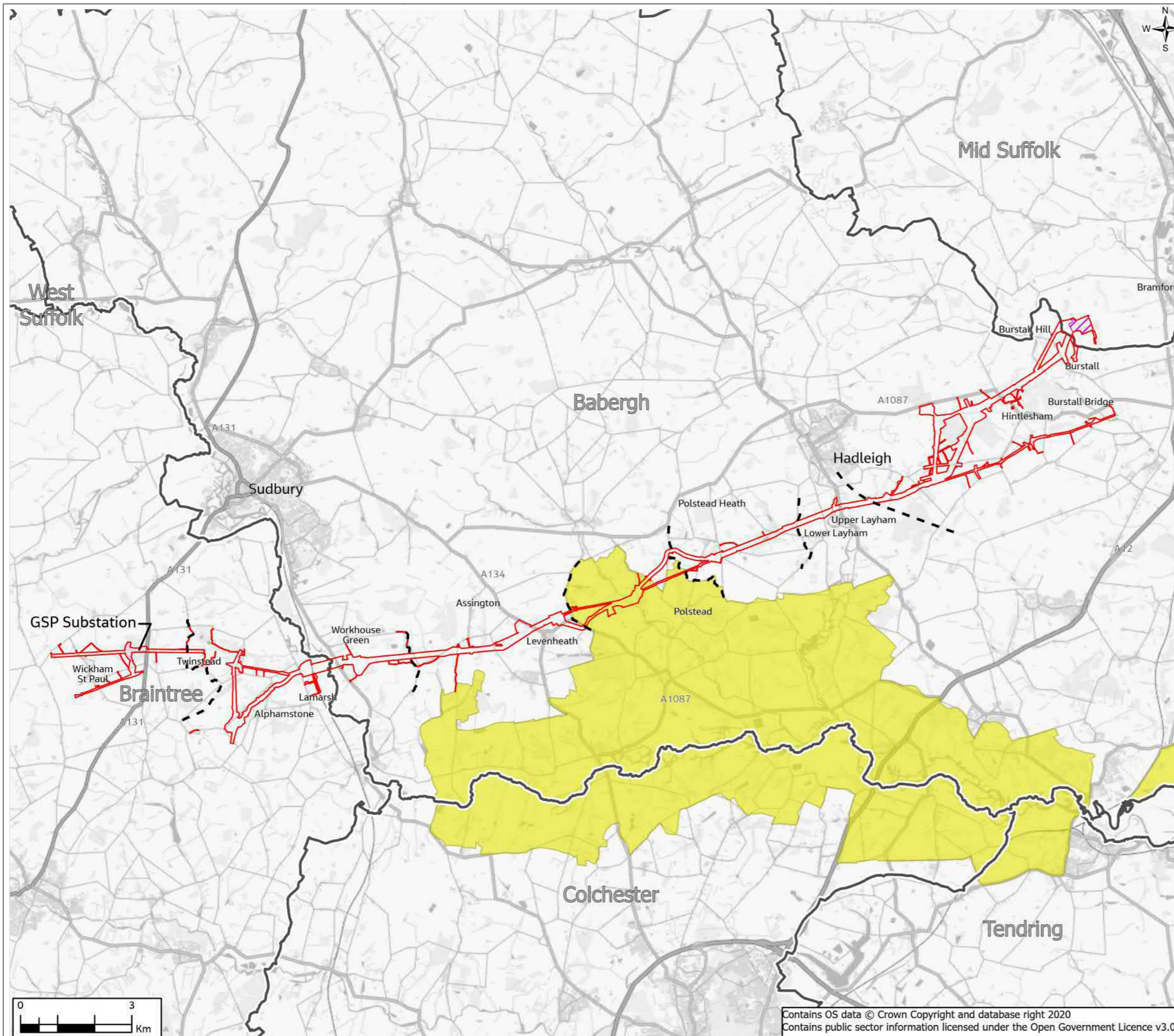
Figure 15.2: East Anglia GREEN Indicative Approach

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FIGURE 1.1

Legend

- Section boundaries
- Draft Order Limits
- Proposed Grid Supply Point (GSP) Substation
- Existing Bramford Substation
- Local authority districts
- Area of Outstanding Natural Beauty (AONB)



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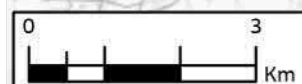
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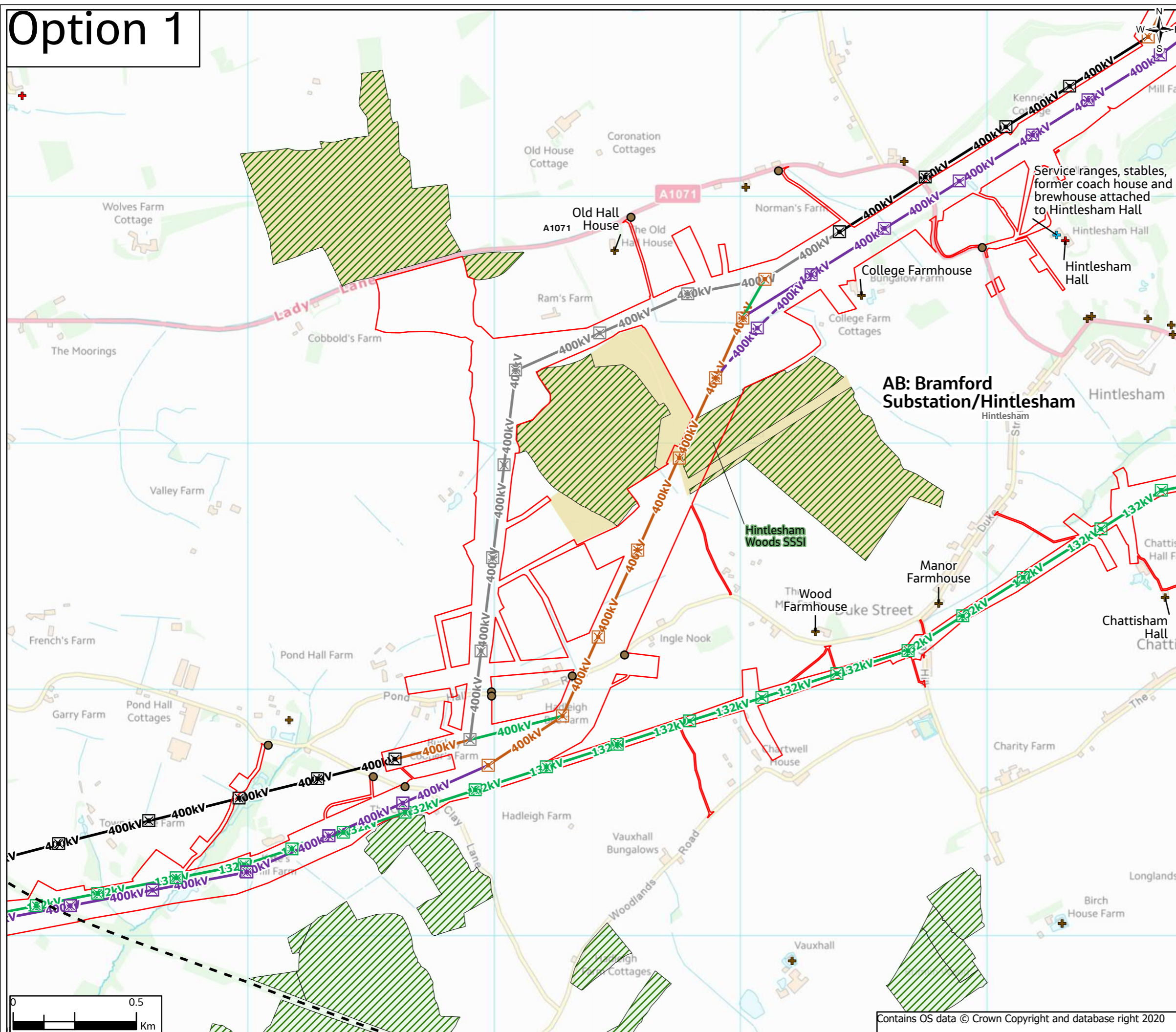
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Option 1

FIGURE 4.1



- Legend**
- Section Boundaries
 - Existing overhead line
 - Overhead lines and Cables
 - New overhead line
 - New underground cables
 - Temporary 400kV overhead line during construction
 - Modifications to the existing overhead line
 - Realignment of the existing overhead line
 - Removal of the existing overhead line
 - Pylons
 - Proposed Pylon
 - Modification to Existing Pylon
 - Existing Pylon
 - Realignment of Existing Pylon
 - Pylon Removal
 - Temporary Works
 - Draft Order Limits
 - Access Points
 - Listed Buildings within 100m of the Draft Order Limits
 - Grade I Listed Buildings
 - Grade II* Listed Buildings
 - Grade II Listed Buildings
 - Ancient Woodland Inventory Site
 - Site of Special Scientific Interest (SSSI)

This figure shows the combined draft Order Limits for both options. The draft Order Limits would be refined down once a preferred option was selected following the statutory consultation

Listed Buildings only labelled where within 100m of the draft Order Limits



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 Hintlesham Woods Options - Option 1
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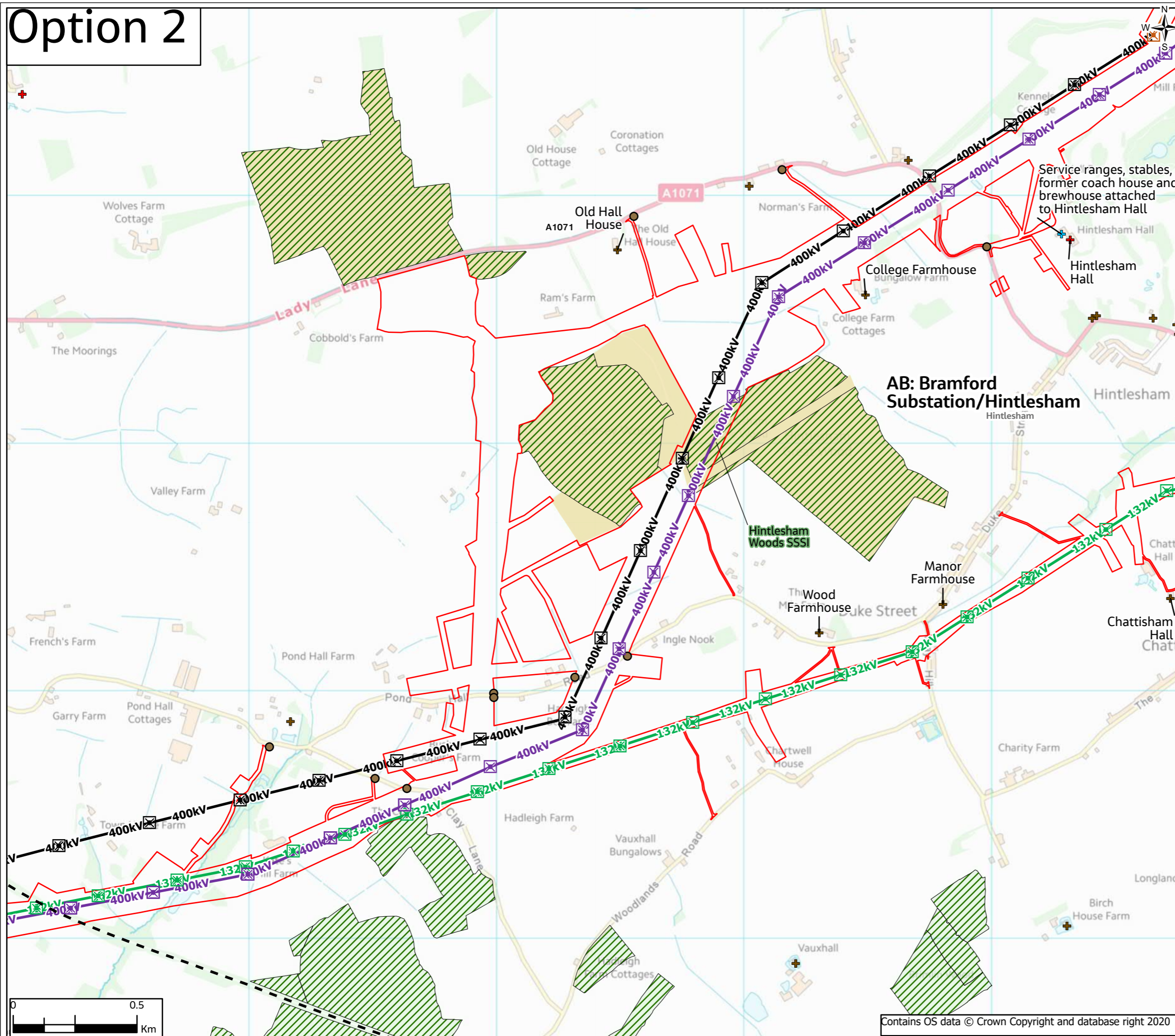
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Option 2

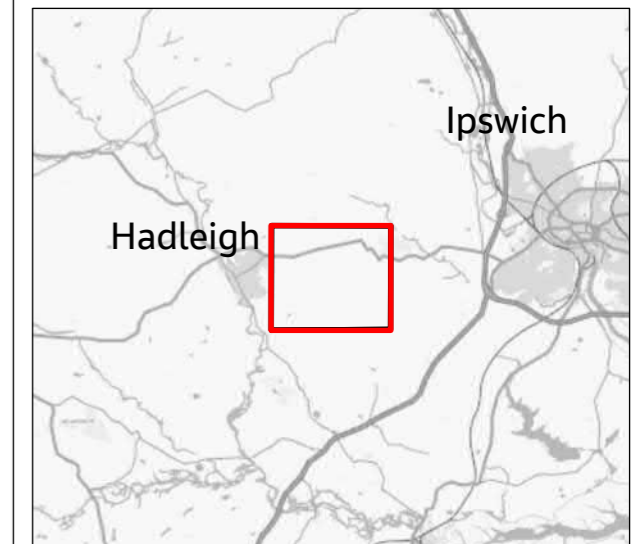
FIGURE 4.1



- Legend**
- Section Boundaries
 - Existing overhead line
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Listed Buildings only labelled where within 100m of the draft Order Limits



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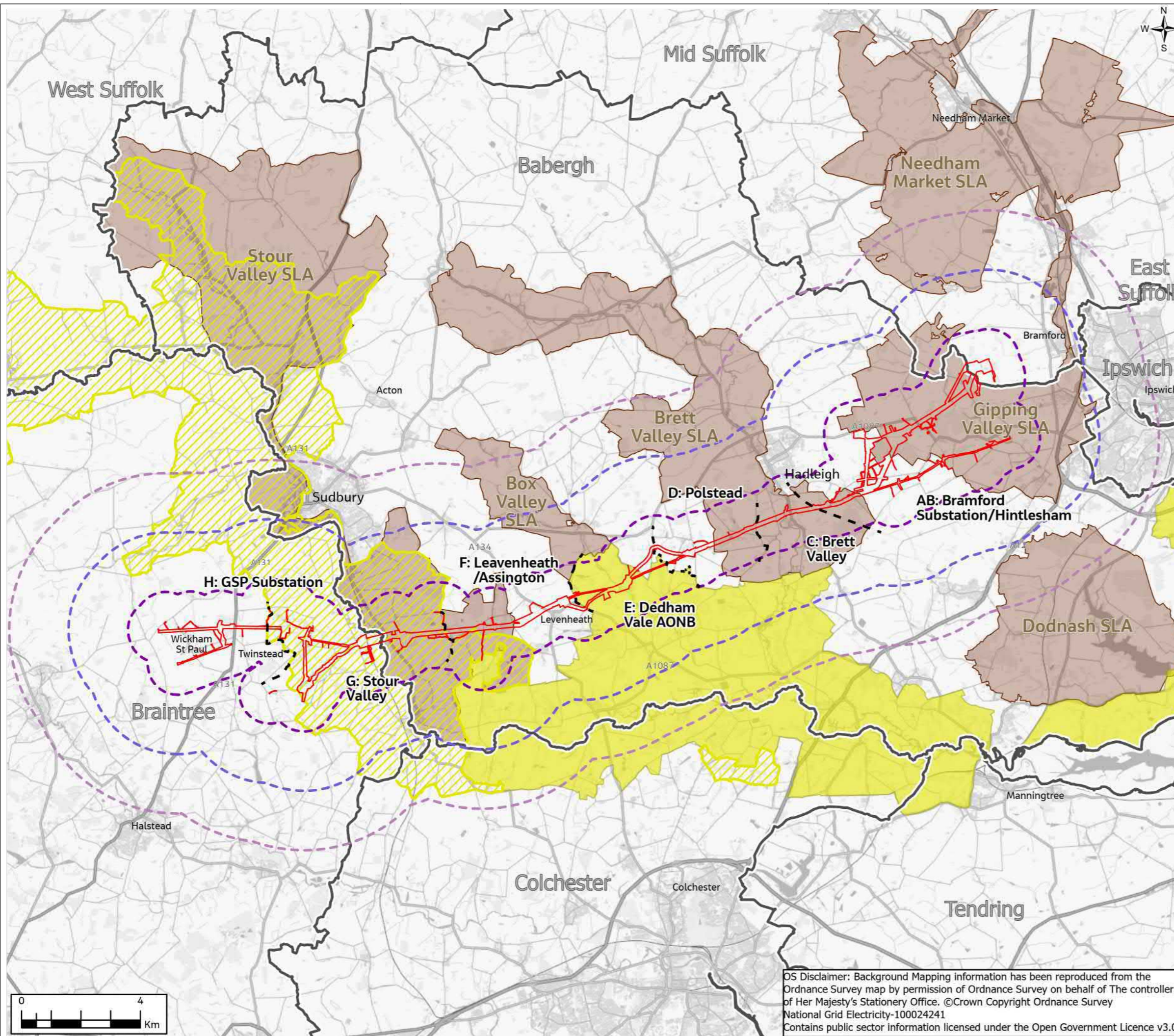
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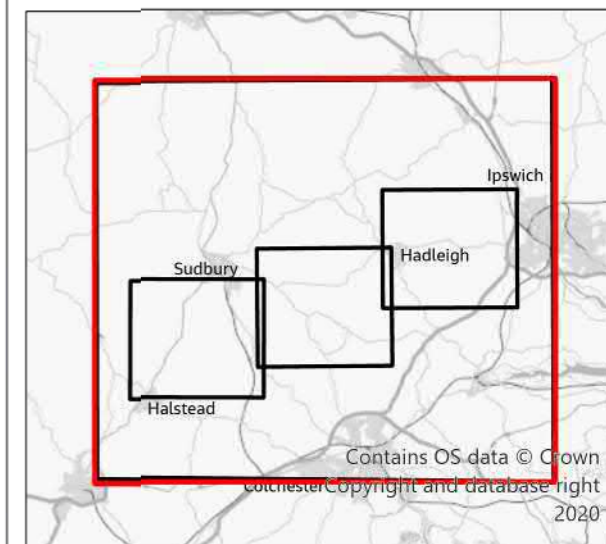
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FIGURE 6.1



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - Local authority districts
 - ▭ Dedham Vale Area of Outstanding Natural Beauty
 - ▨ Stour Valley Project Area
 - ▭ Special Landscape Areas (SLA)



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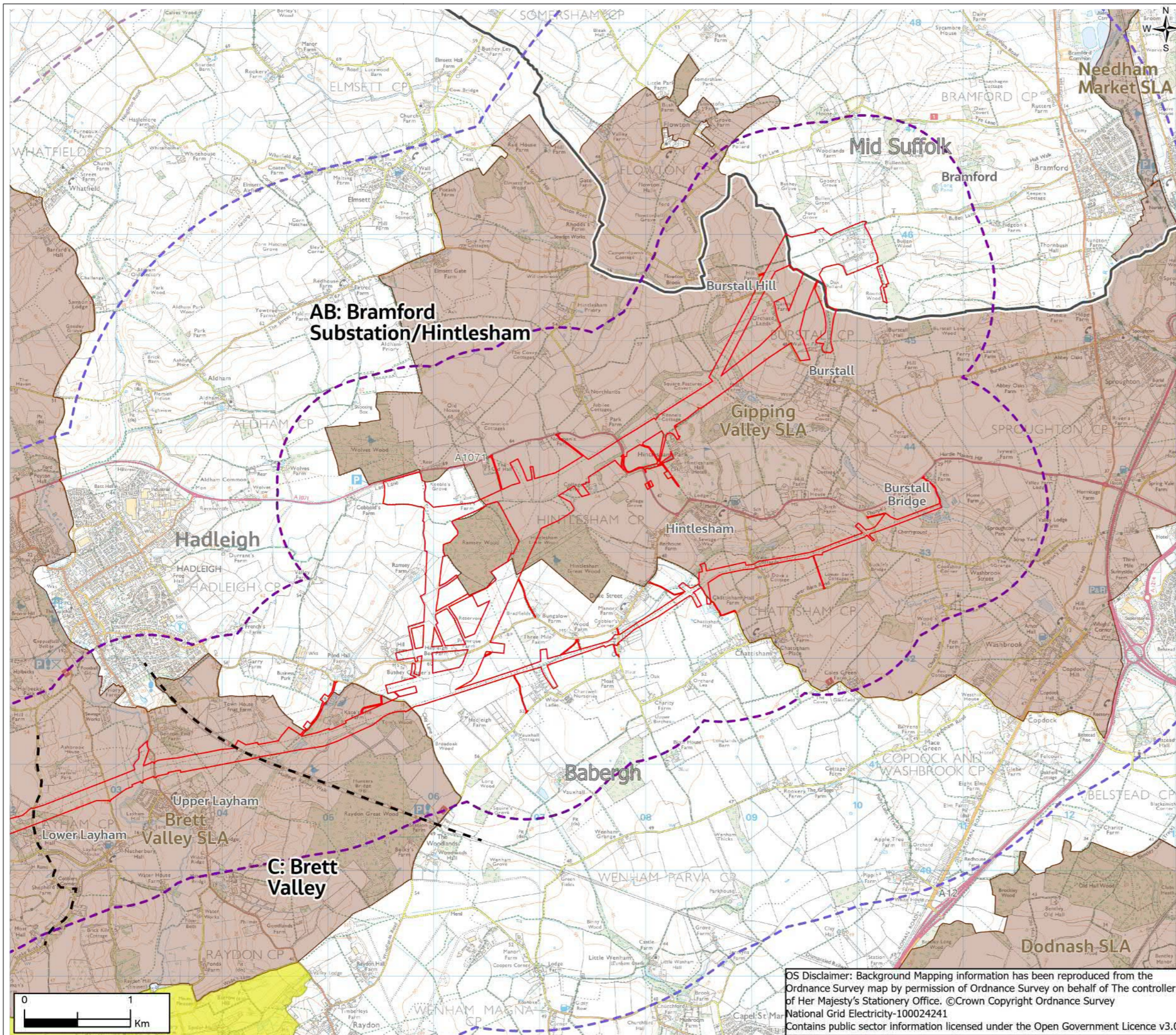
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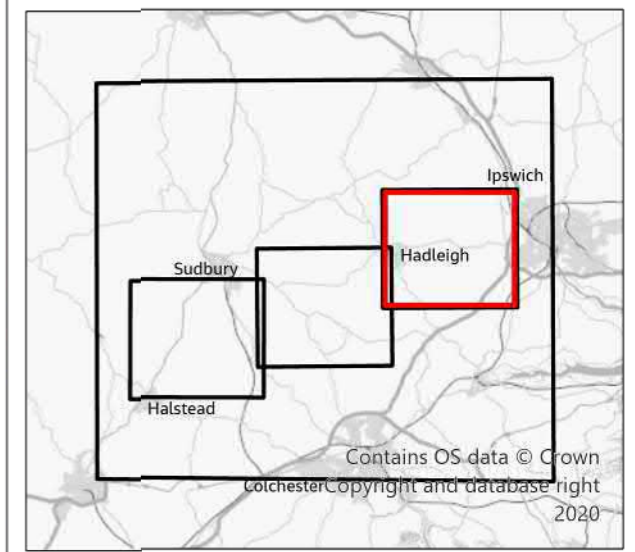
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FIGURE 6.1



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 - Study Area (5km)
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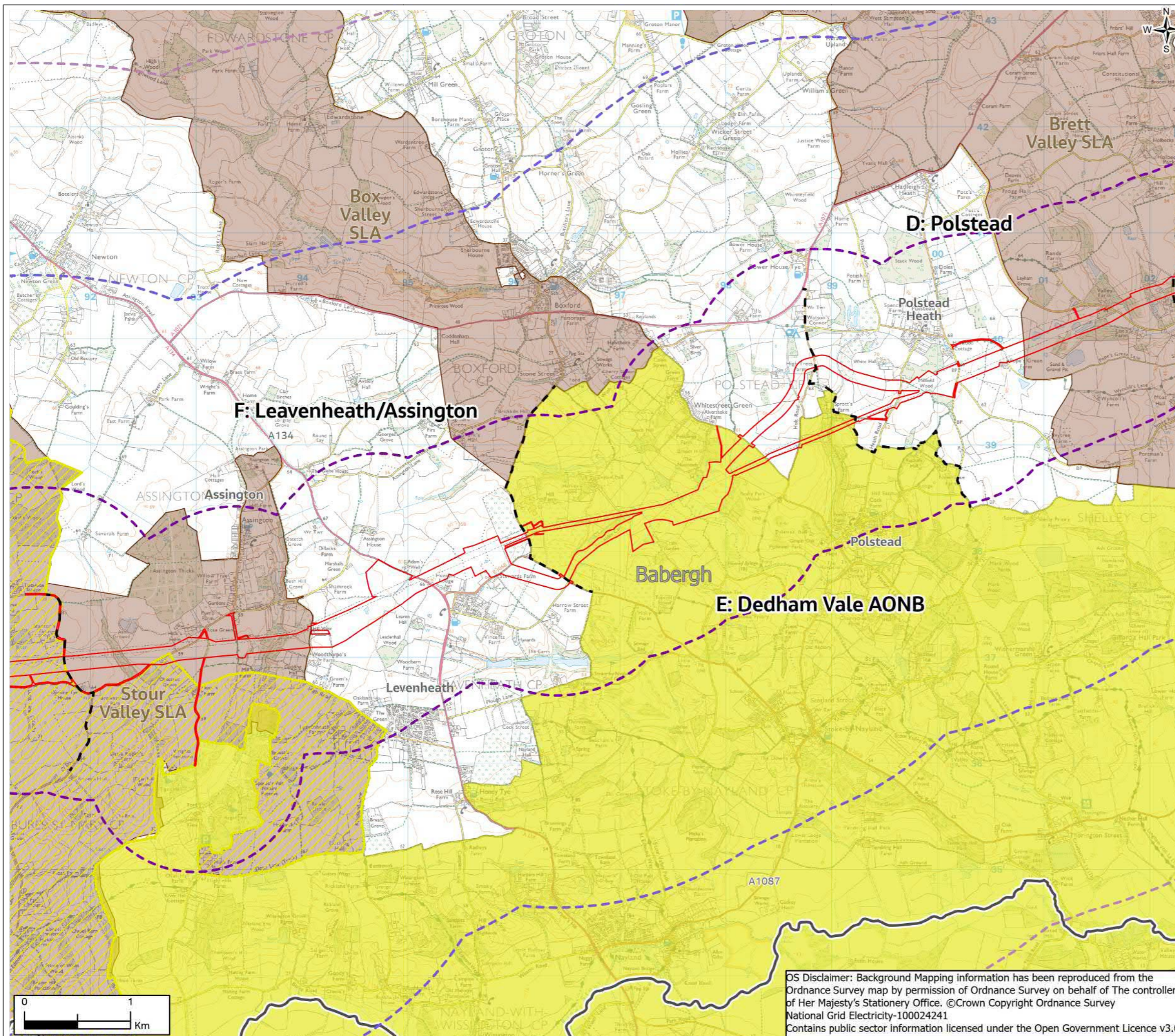
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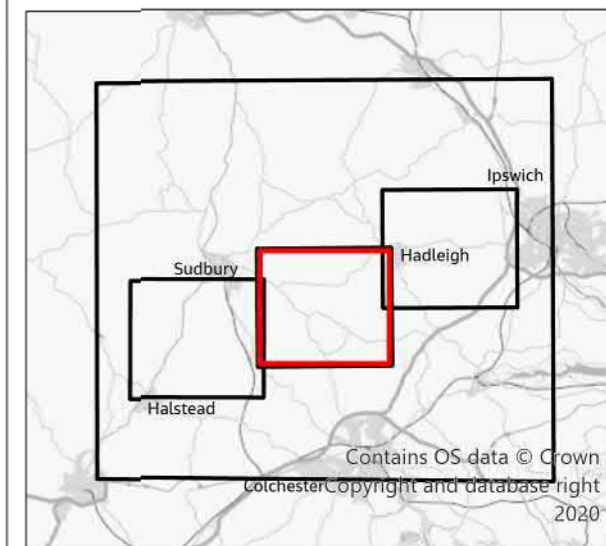
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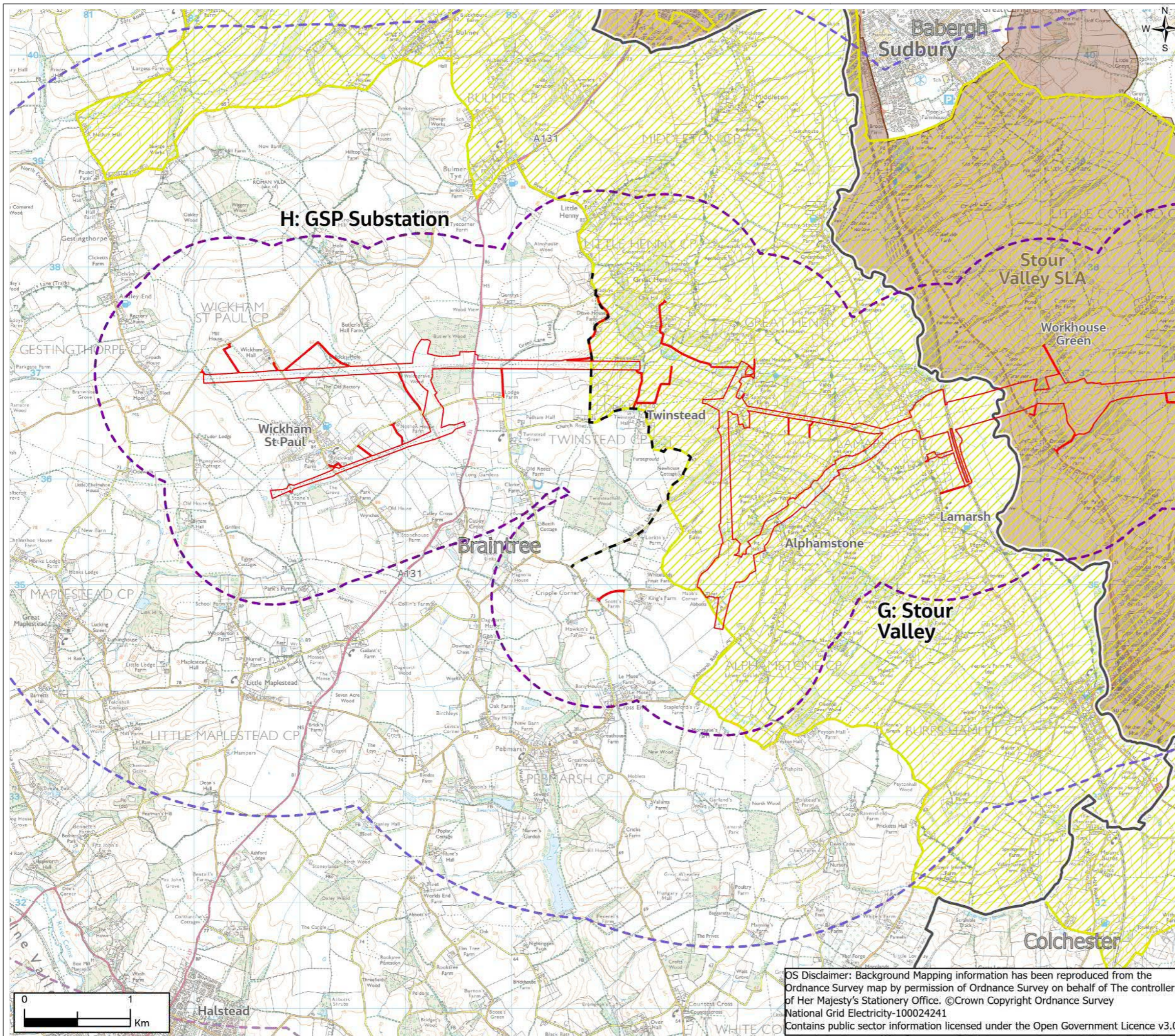
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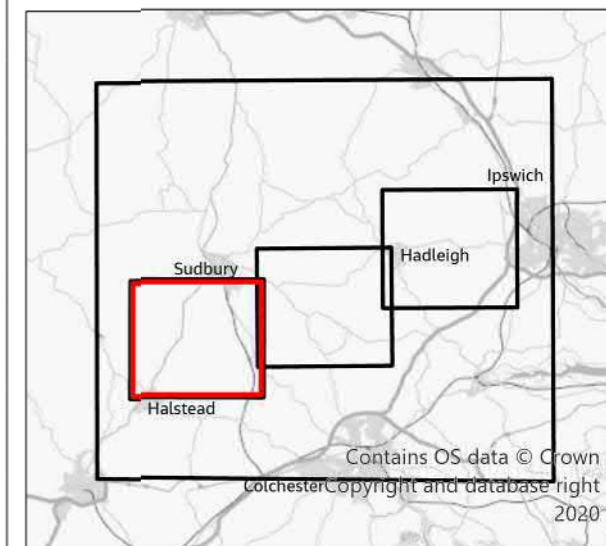
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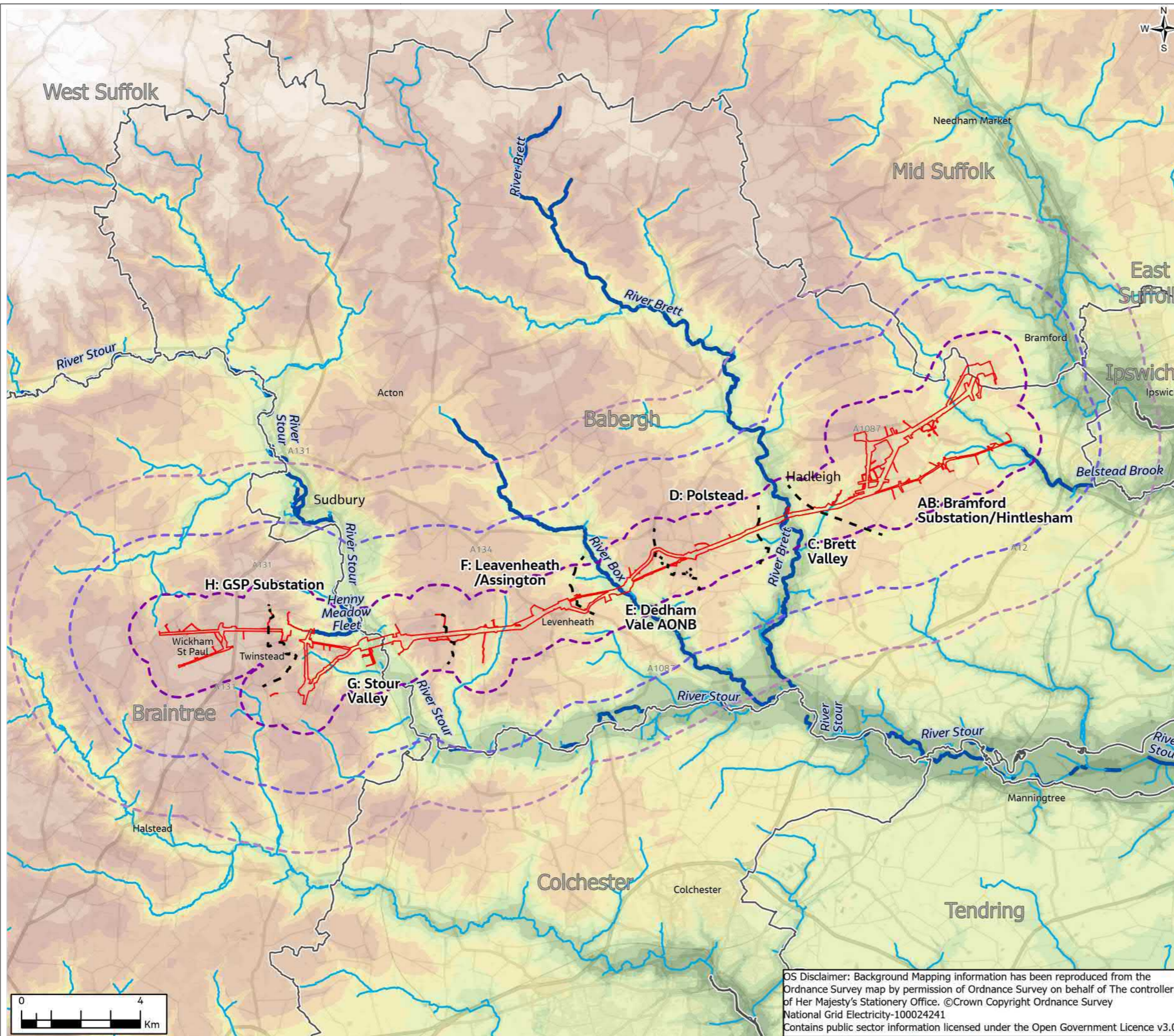
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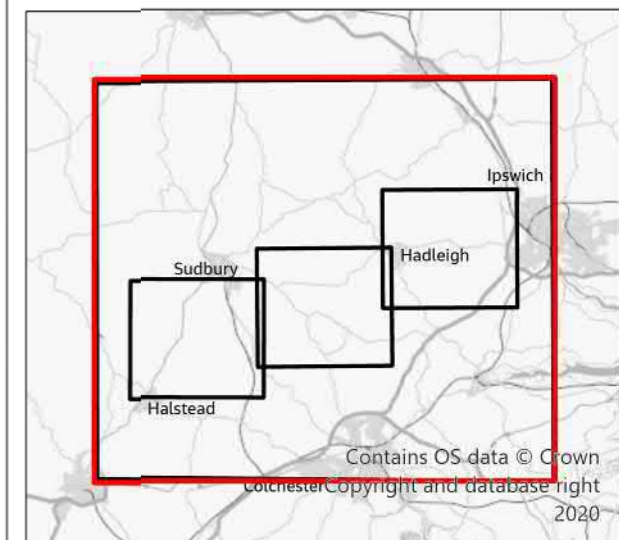
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- Section Boundaries
- Draft Order Limits
- ▭ Study Area (5km)
- ▭ Distance Marker (3km)
- ▭ Distance Marker (1km)
- ▭ Local authority districts
- ▬ Main Rivers
- ▬ Non-Main Rivers and Watercourses

Elevation (m)

Value

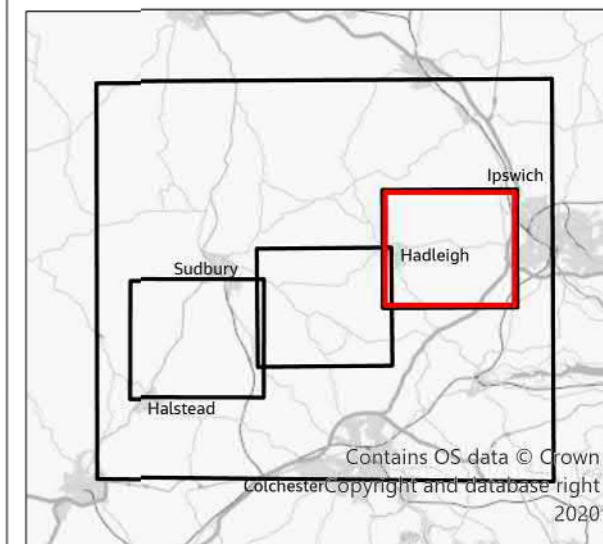
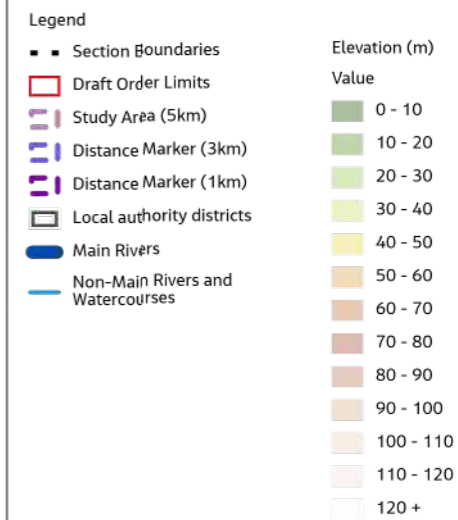
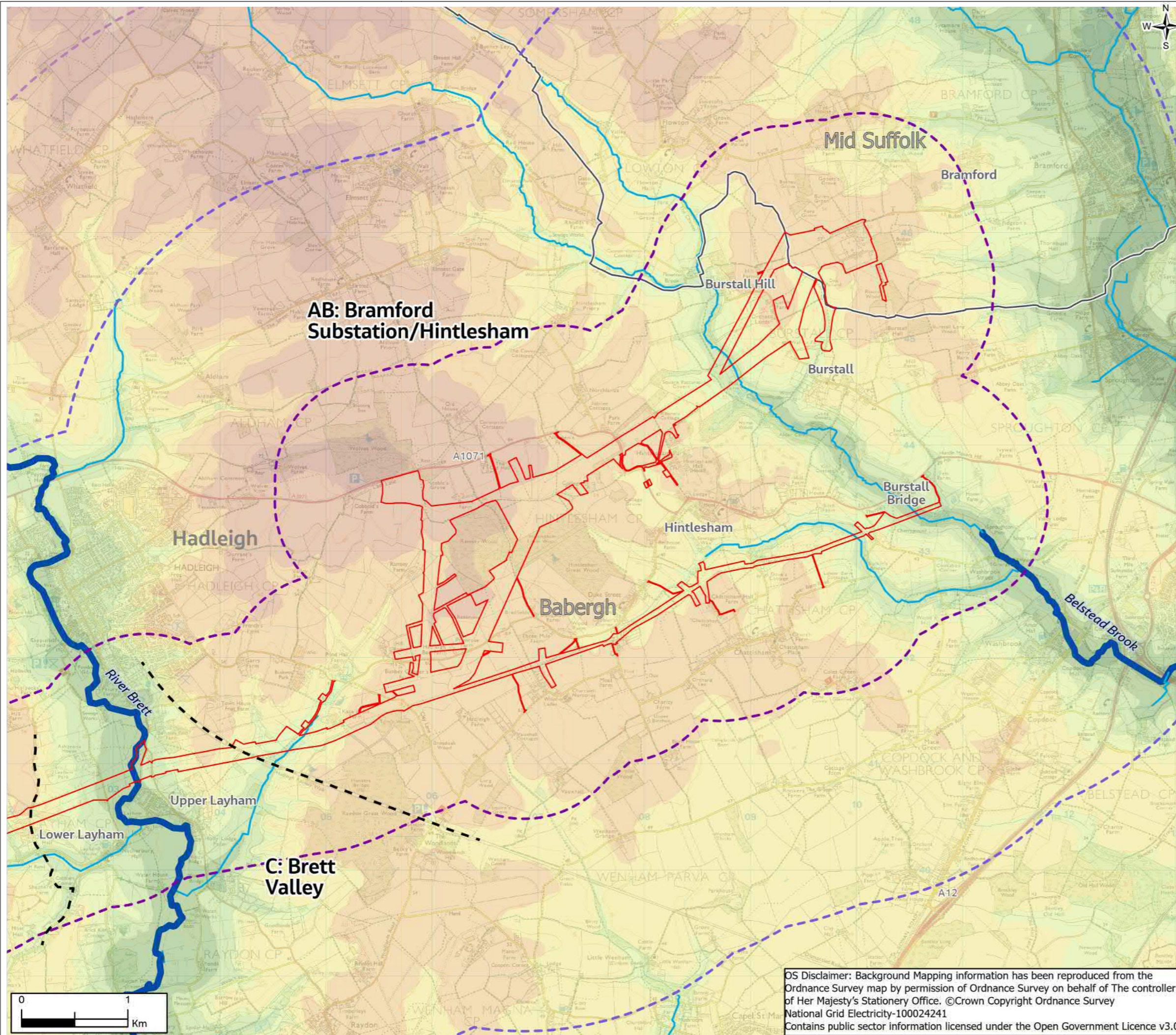
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- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 60 - 70
- 70 - 80
- 80 - 90
- 90 - 100
- 100 - 110
- 110 - 120
- 120 +



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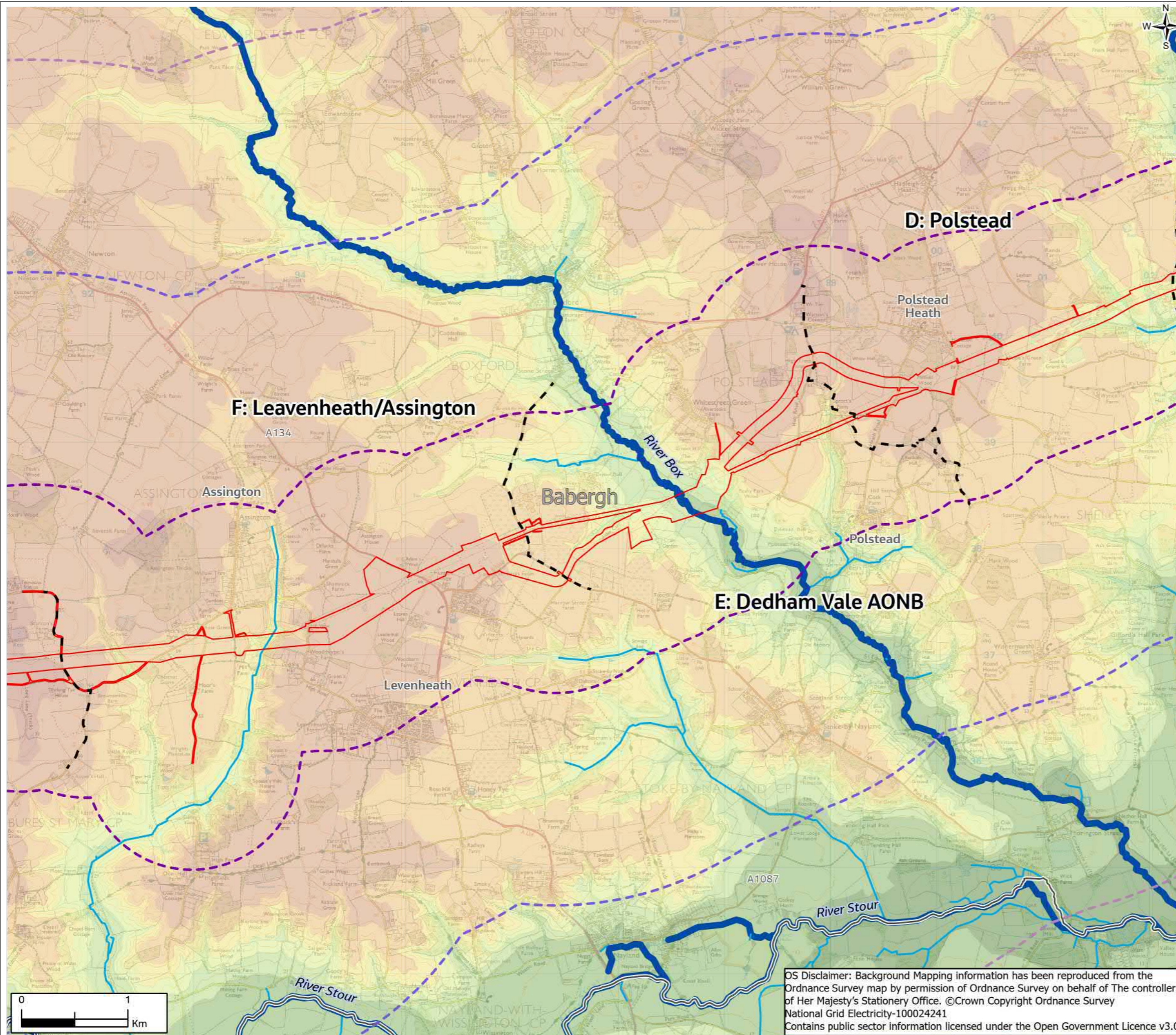
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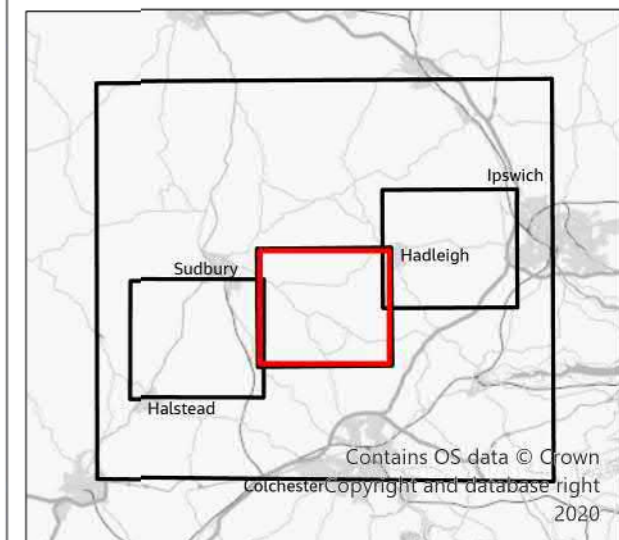


Legend

- Section Boundaries
- Draft Order Limits
- Study Area (5km)
- Distance Marker (3km)
- Distance Marker (1km)
- Local authority districts
- Main Rivers
- Non-Main Rivers and Watercourses

Elevation (m)

Value
0 - 10
10 - 20
20 - 30
30 - 40
40 - 50
50 - 60
60 - 70
70 - 80
80 - 90
90 - 100
100 - 110
110 - 120
120 +



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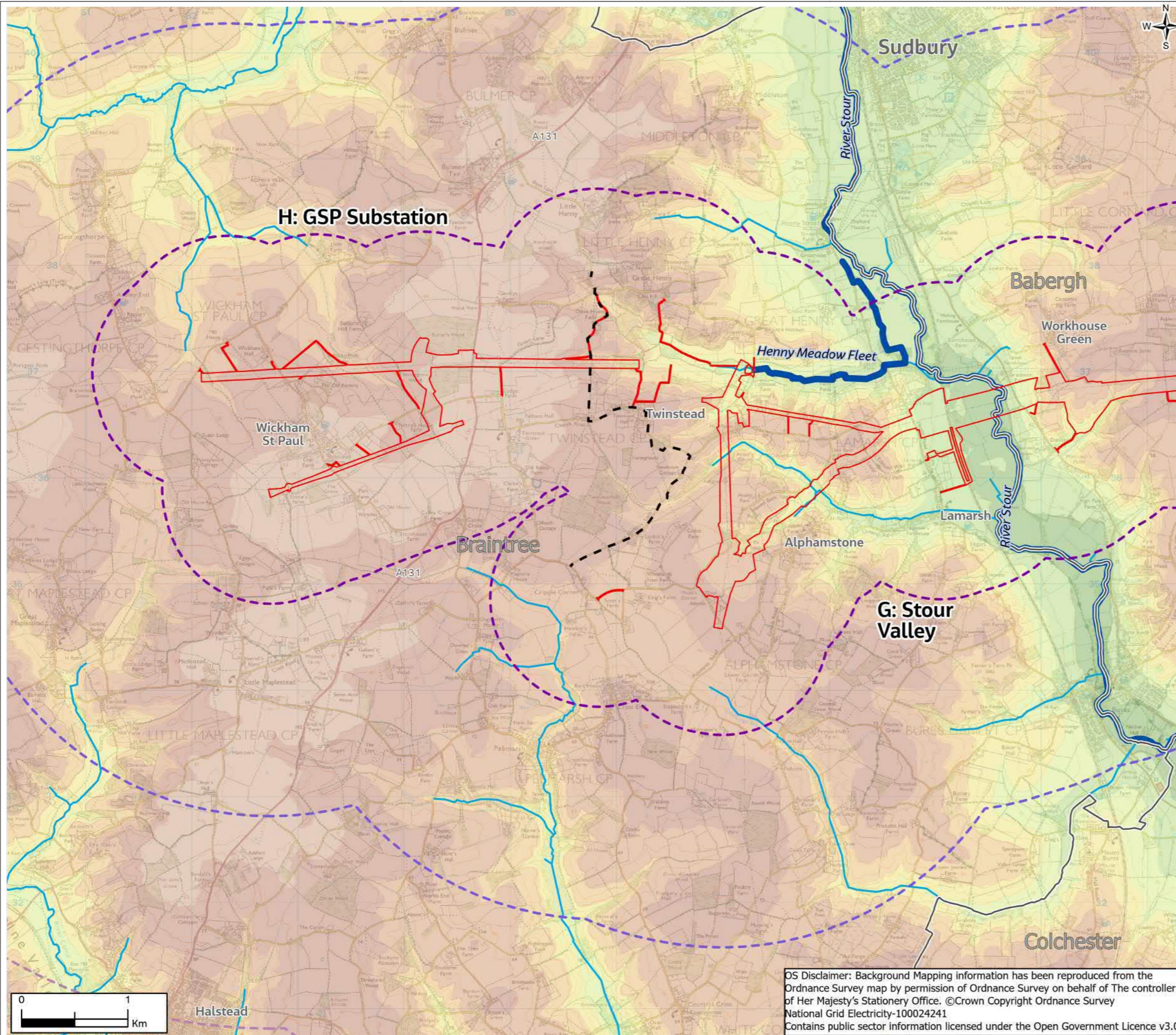
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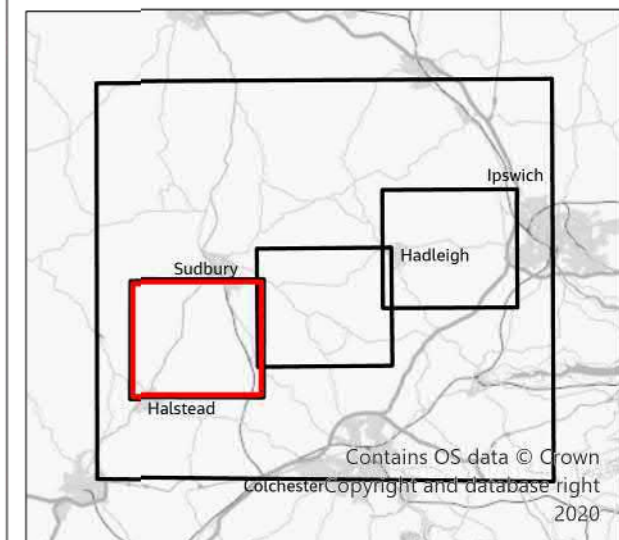
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Elevation (m)

Value

- 0 - 10
- 10 - 20
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- 60 - 70
- 70 - 80
- 80 - 90
- 90 - 100
- 100 - 110
- 110 - 120
- 120 +



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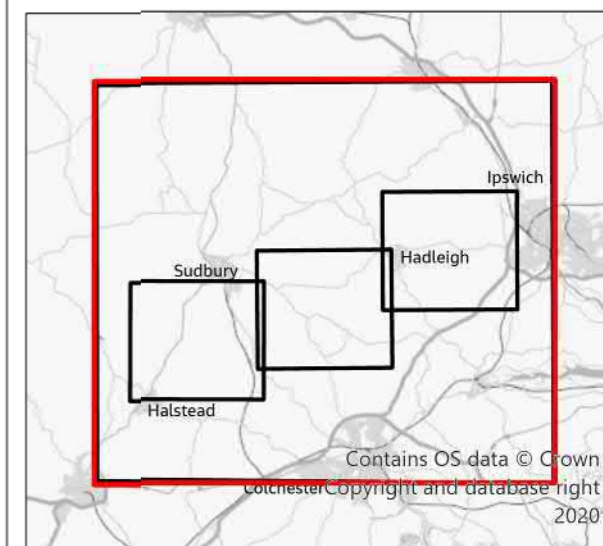
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FIGURE 6.3

Legend

- Section Boundaries
- Draft Order Limits
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- Distance Marker (3km)
- Distance Marker (1km)
- Local authority districts
- Potential Ancient Woodland (PoAW)
- Ancient Woodland
- National Forestry Inventory
- Woodland



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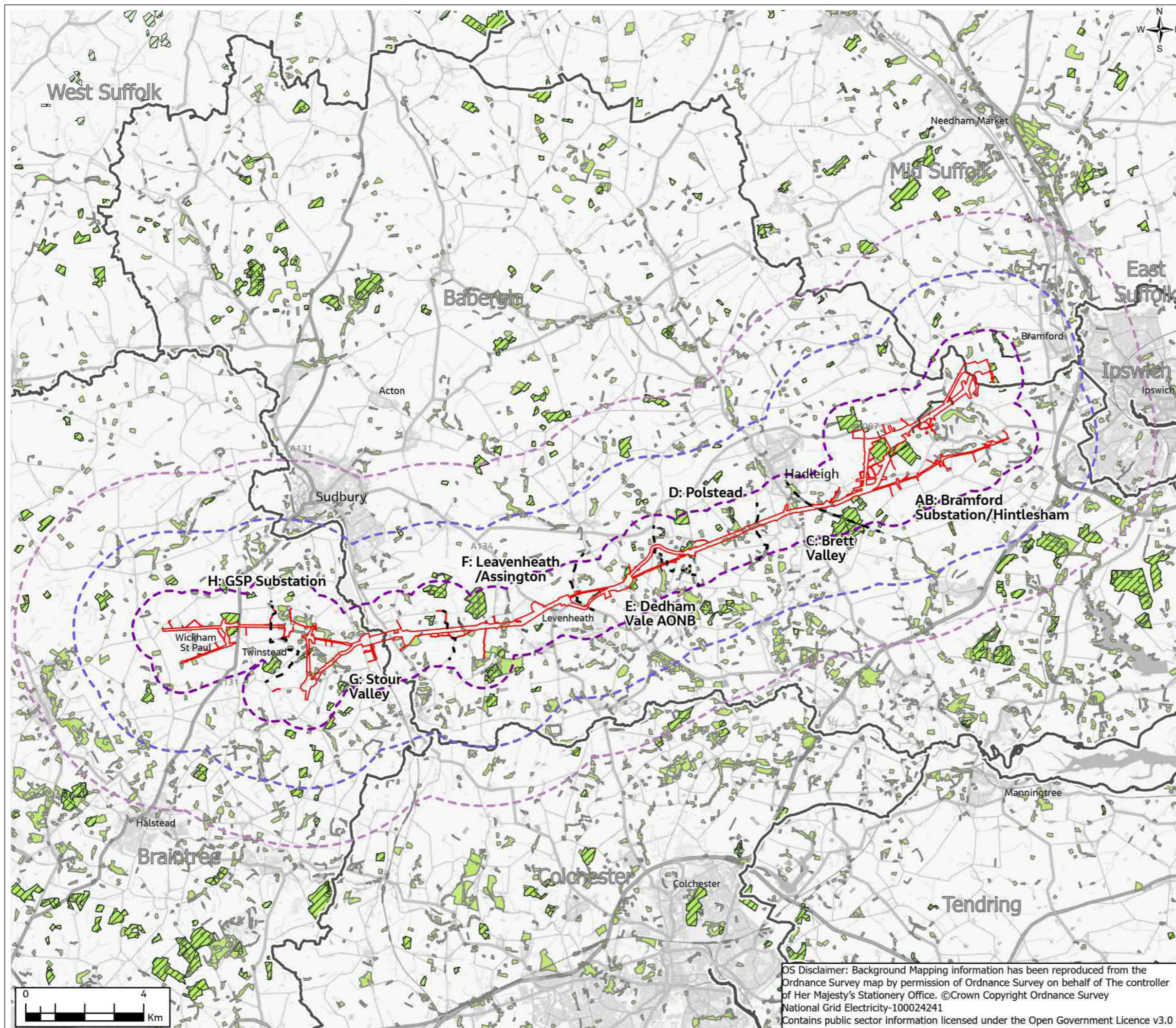
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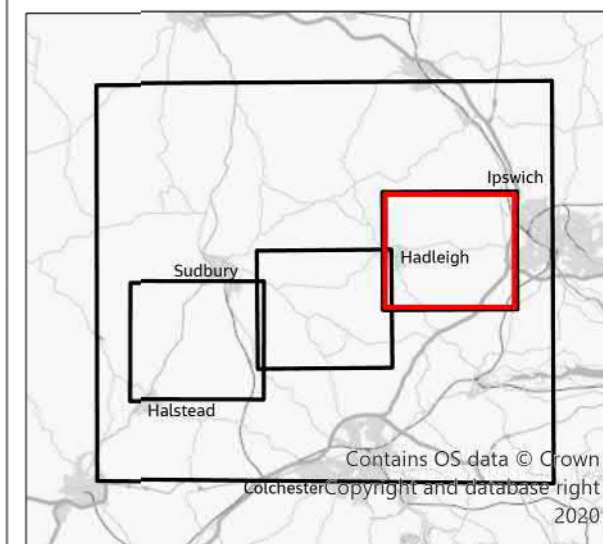
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 - ▨ Potential Ancient Woodland (PoAW)
 - ▨ Ancient Woodland
 - ▨ National Forestry Inventory
 - ▨ Woodland

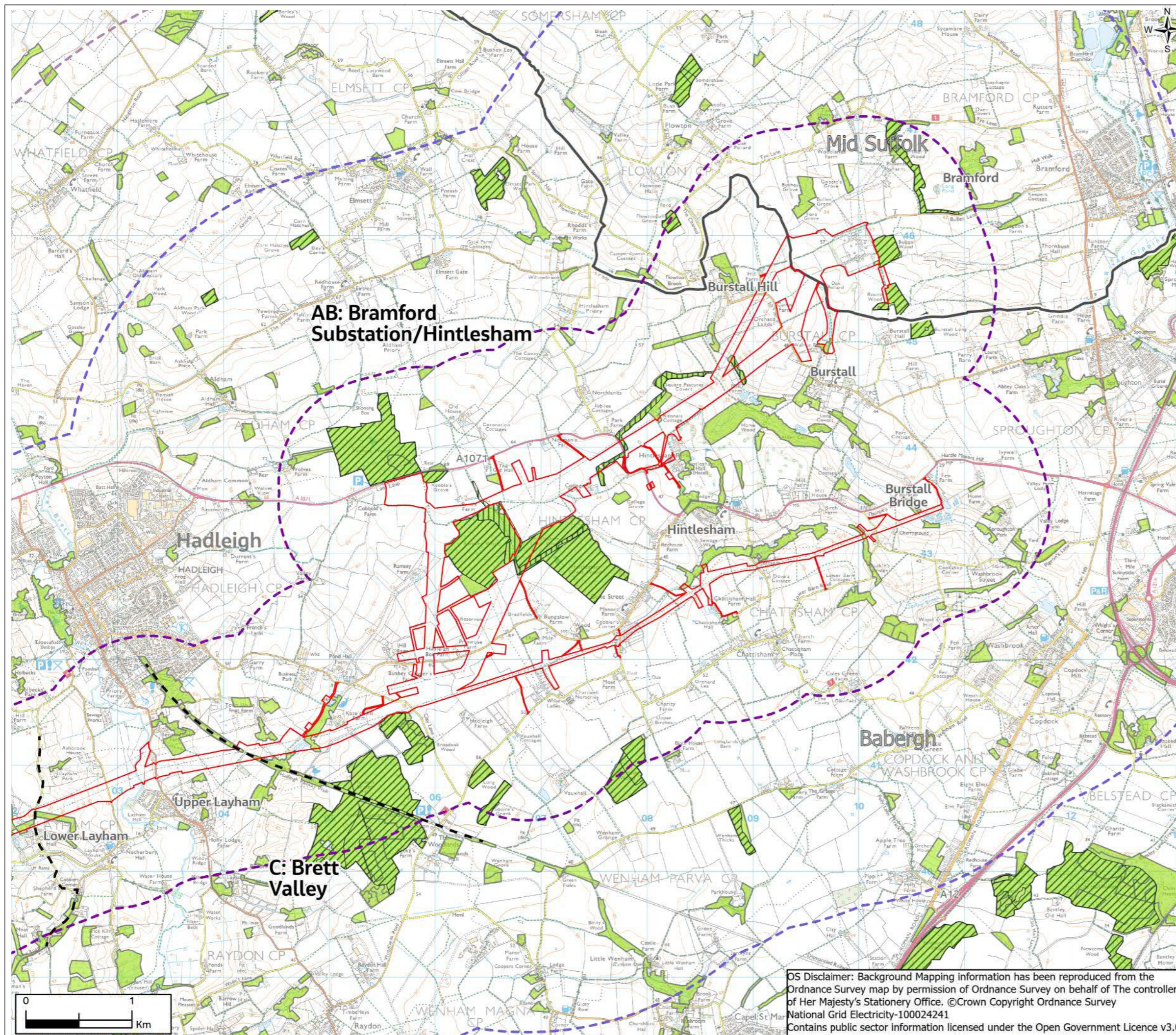


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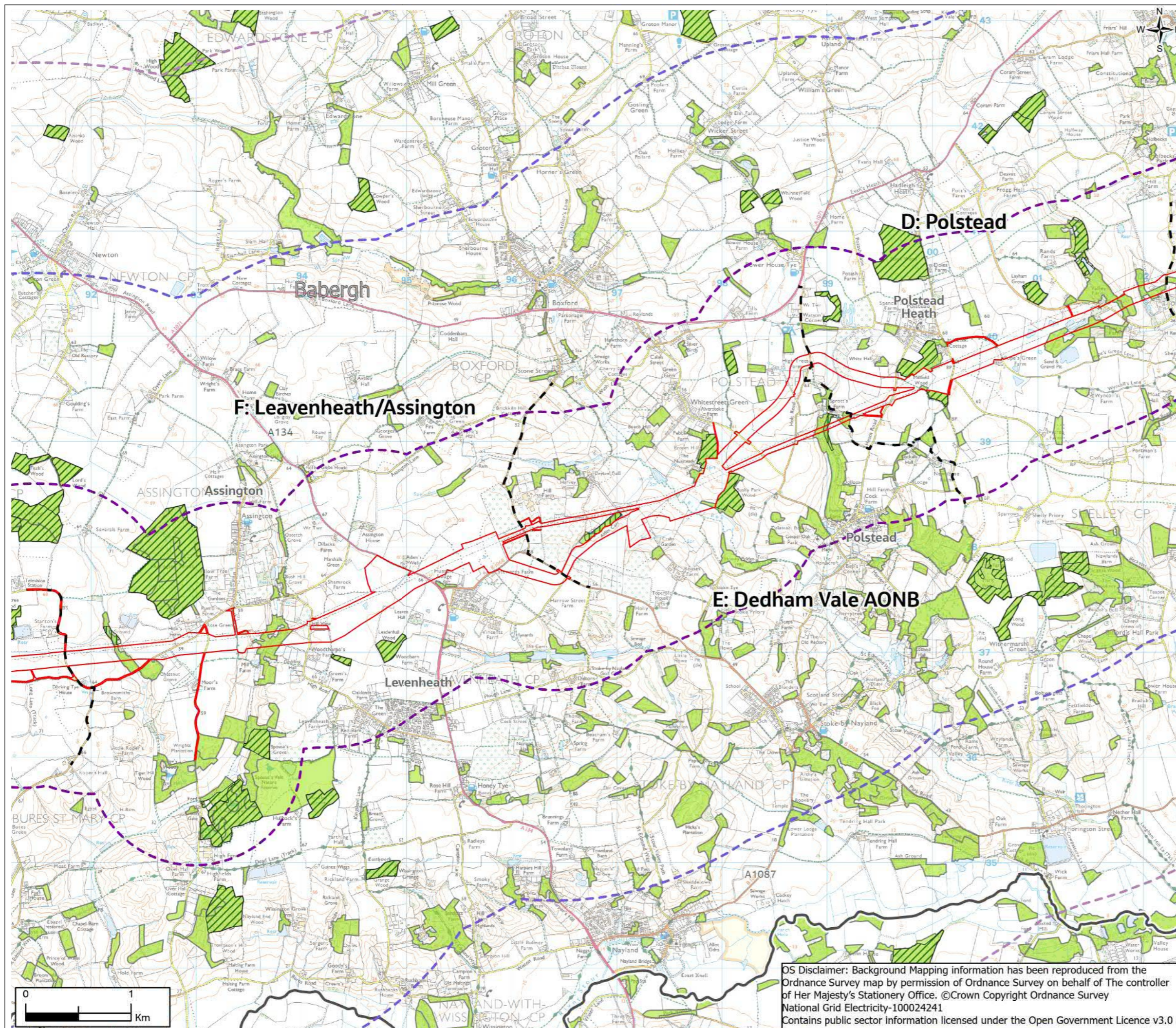
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Jacobs No.	B2416601					
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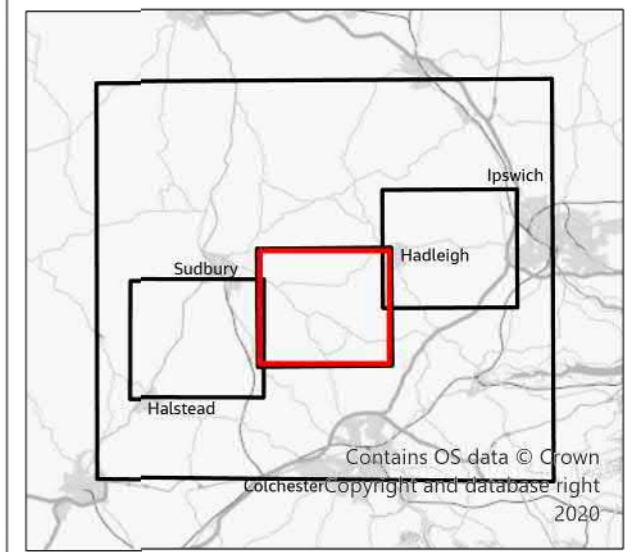


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FIGURE 6.3



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local authority districts
 - ▨ Potential Ancient Woodland (PoAW)
 - ▨ Ancient Woodland
 - ▭ National Forestry Inventory
 - ▭ Woodland



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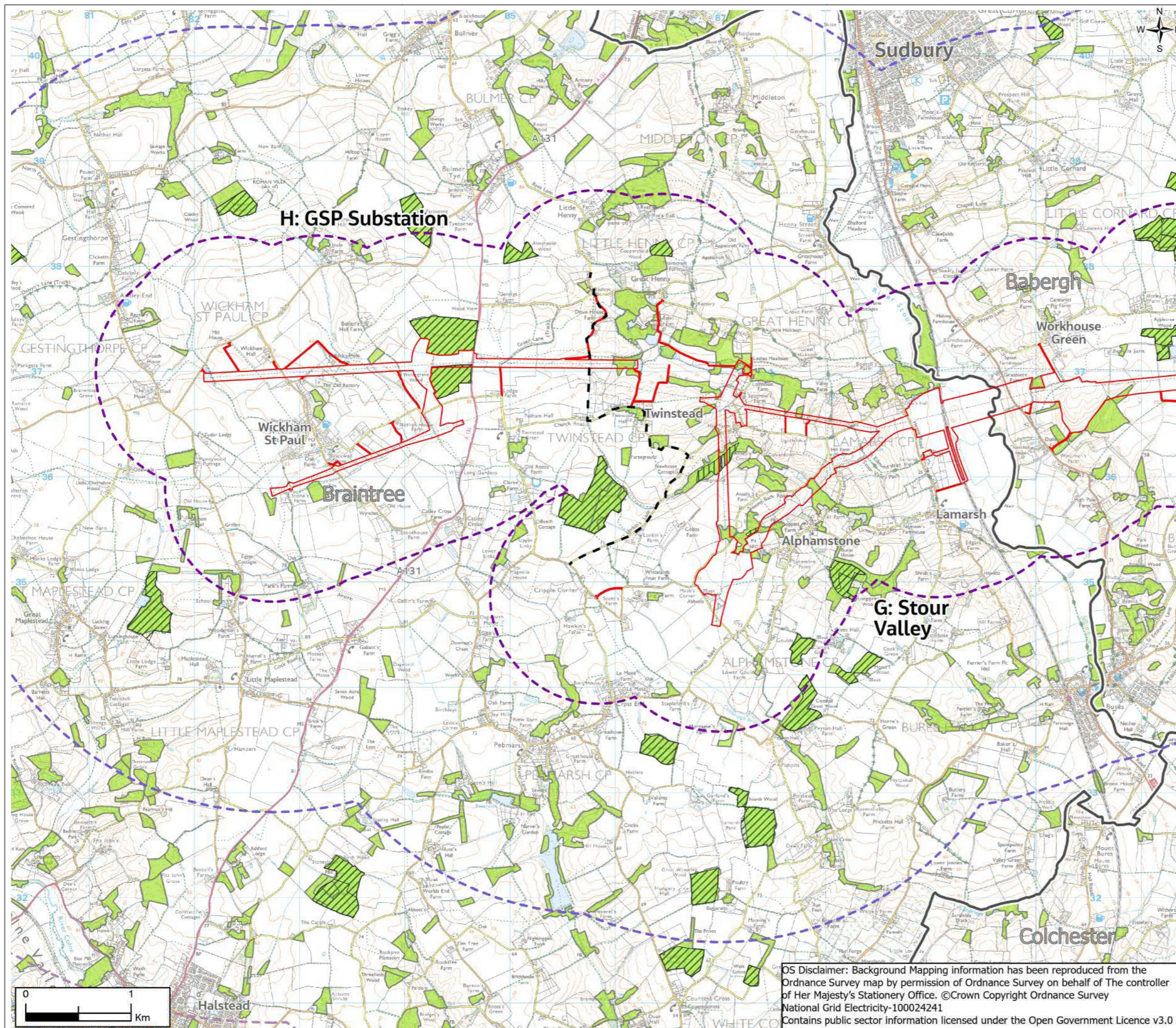
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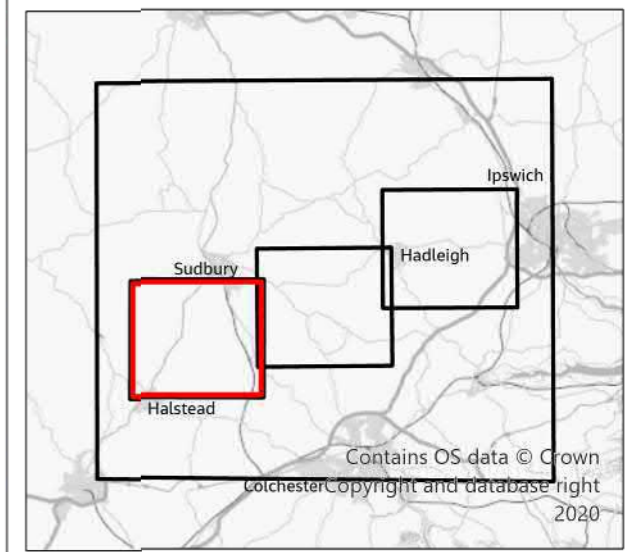
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FIGURE 6.3



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (5km)
 - - Distance Marker (3km)
 - - Distance Marker (1km)
 - ▭ Local authority districts
 - ▨ Potential Ancient Woodland (PoAW)
 - ▨ Ancient Woodland
 - ▨ National Forestry Inventory
 - ▨ Woodland



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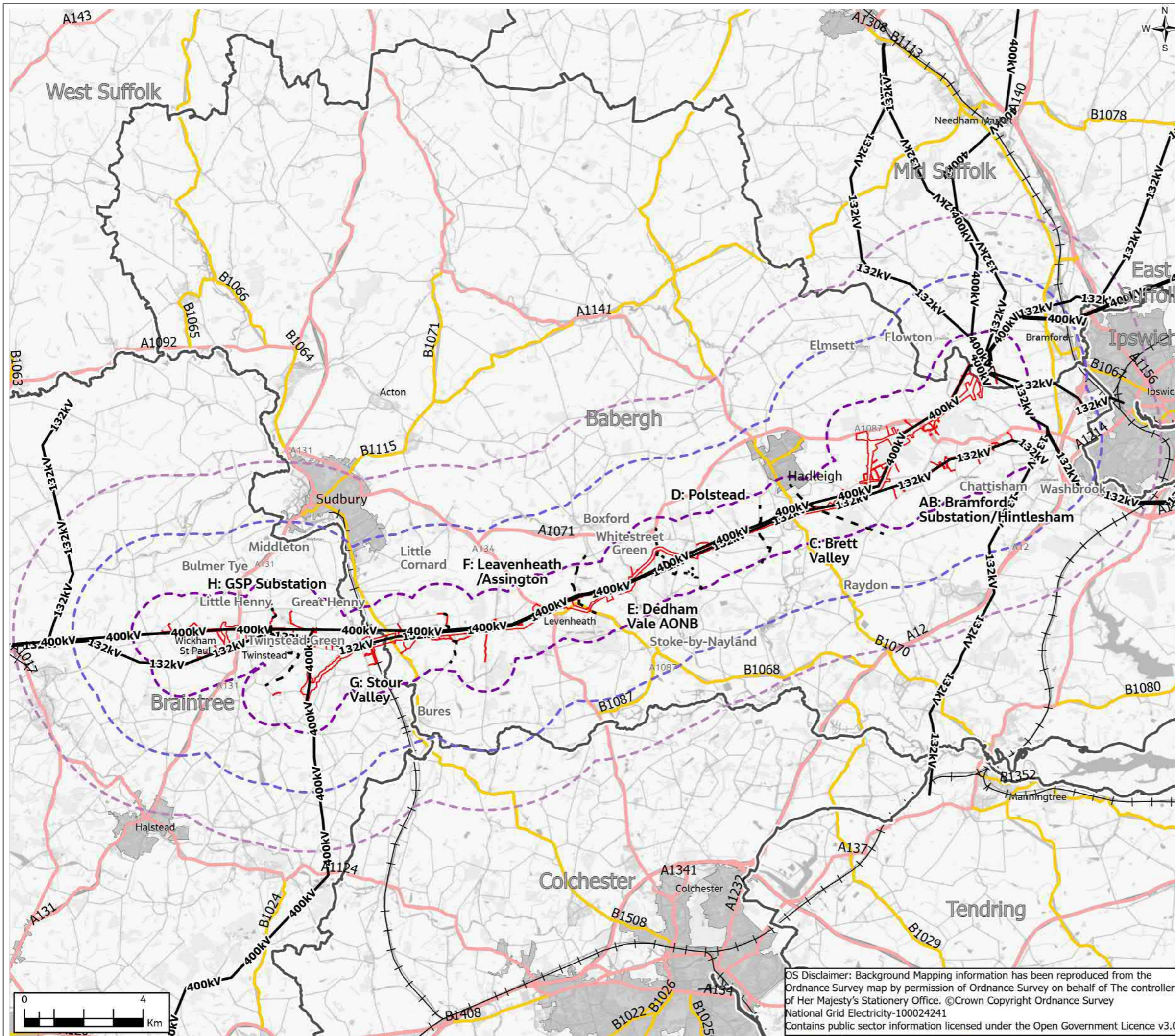
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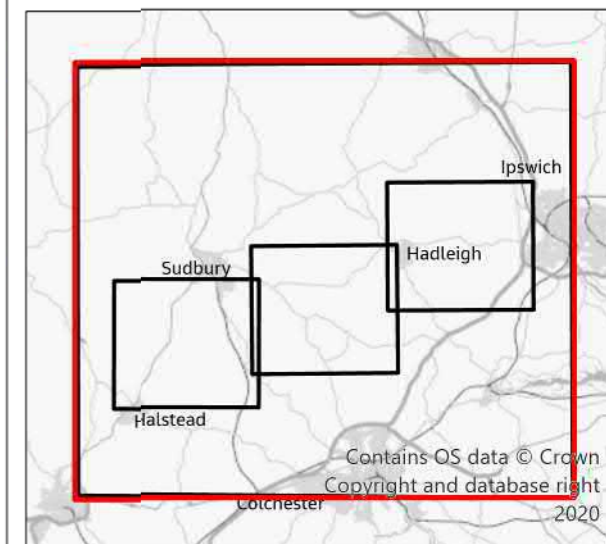
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FIGURE 6.4



- Legend**
- - Section Boundaries
 - Existing overhead line
 - Existing Bramford Substation
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
 - Urban Settlements
 - + Railway Line
 - A Road
 - B Road



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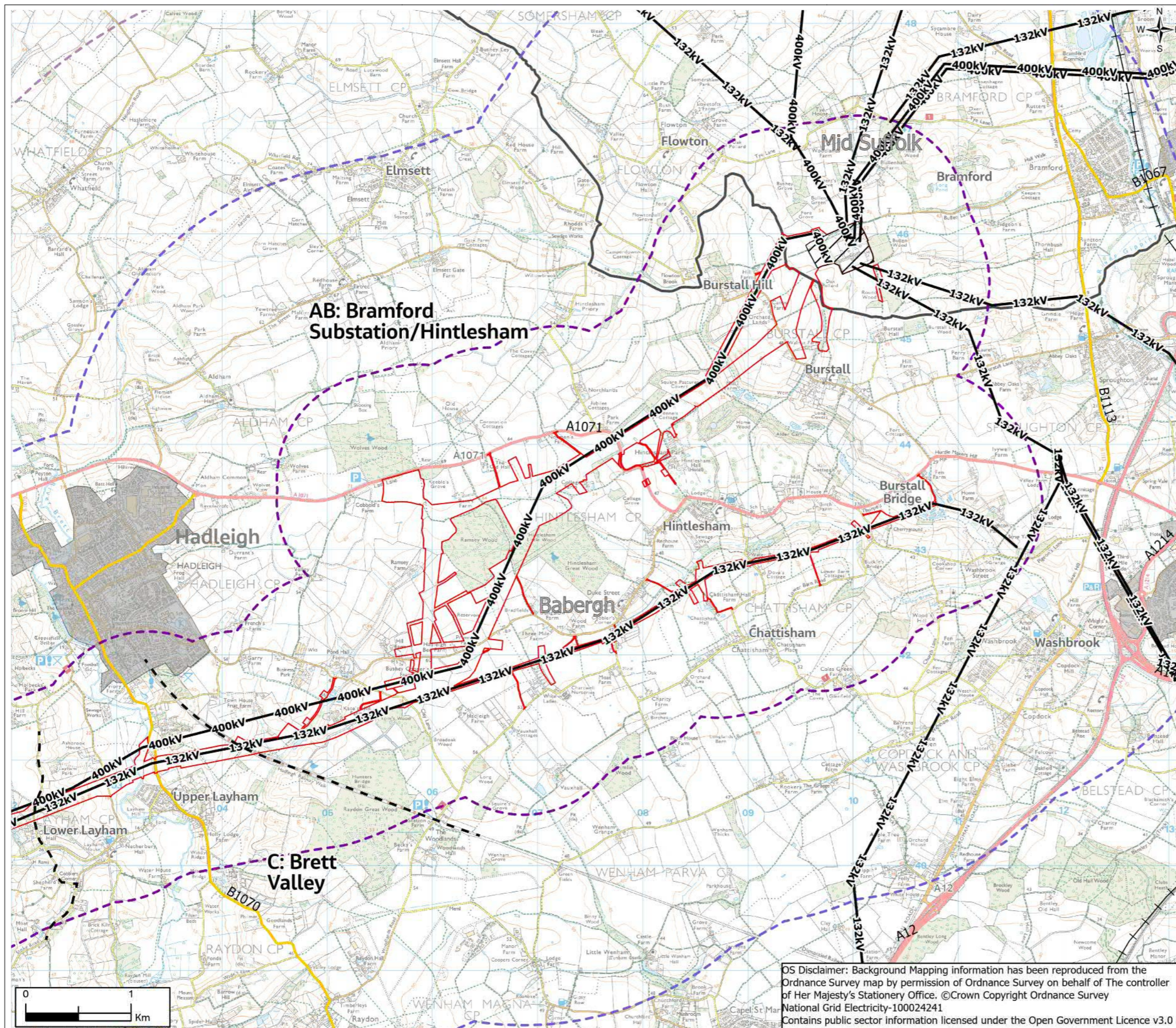
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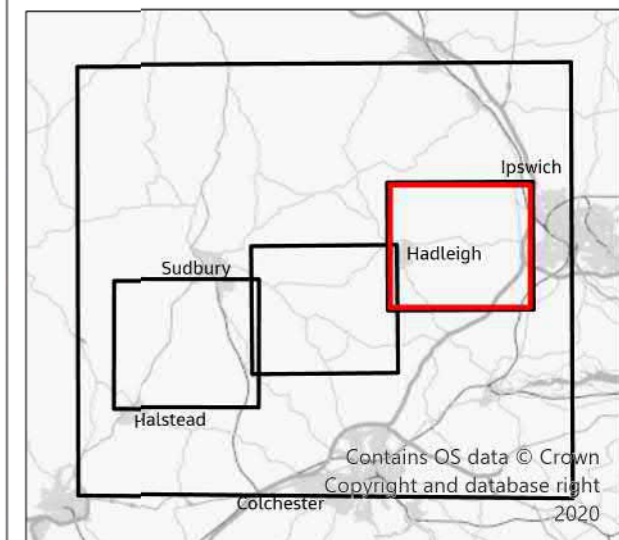
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FIGURE 6.4



- Legend**
- - Section Boundaries
 - Existing overhead line
 - ▭ Existing Bramford Substation
 - ▭ Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local authority districts
 - ▭ Urban Settlements
 - + Railway Line
 - A Road
 - B Road



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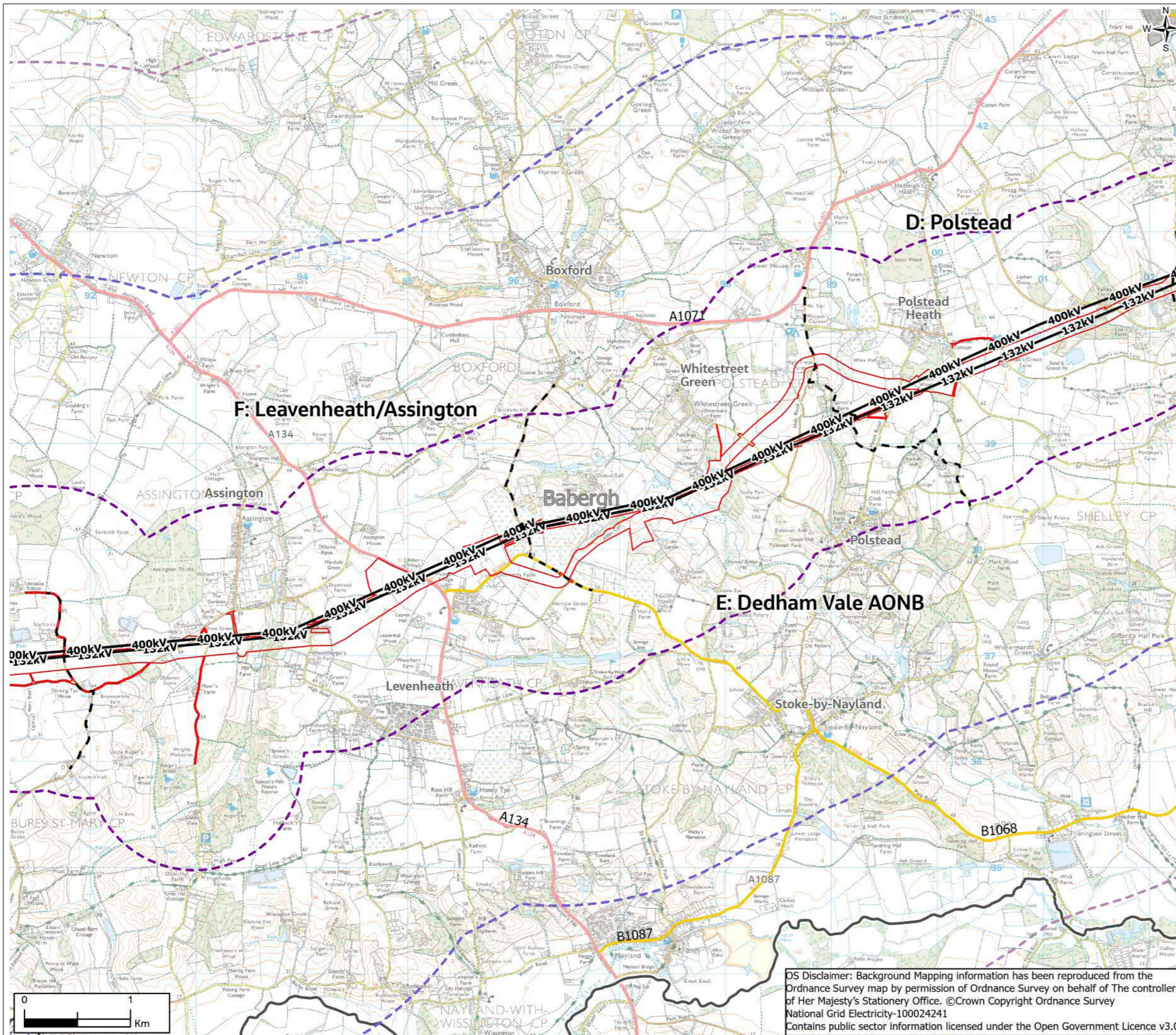
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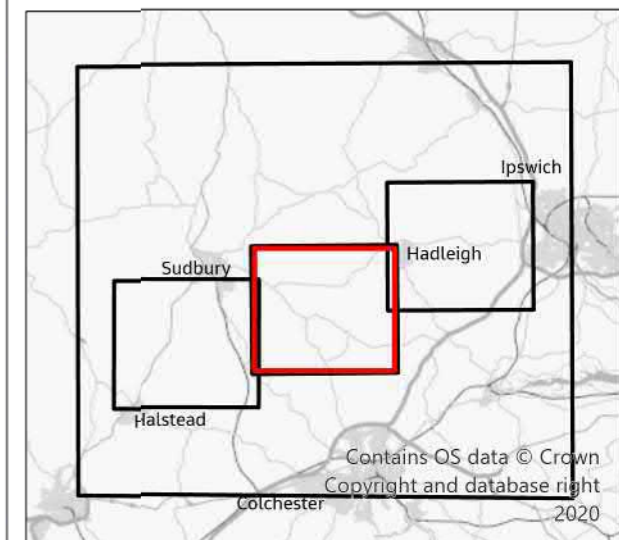
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FIGURE 6.4



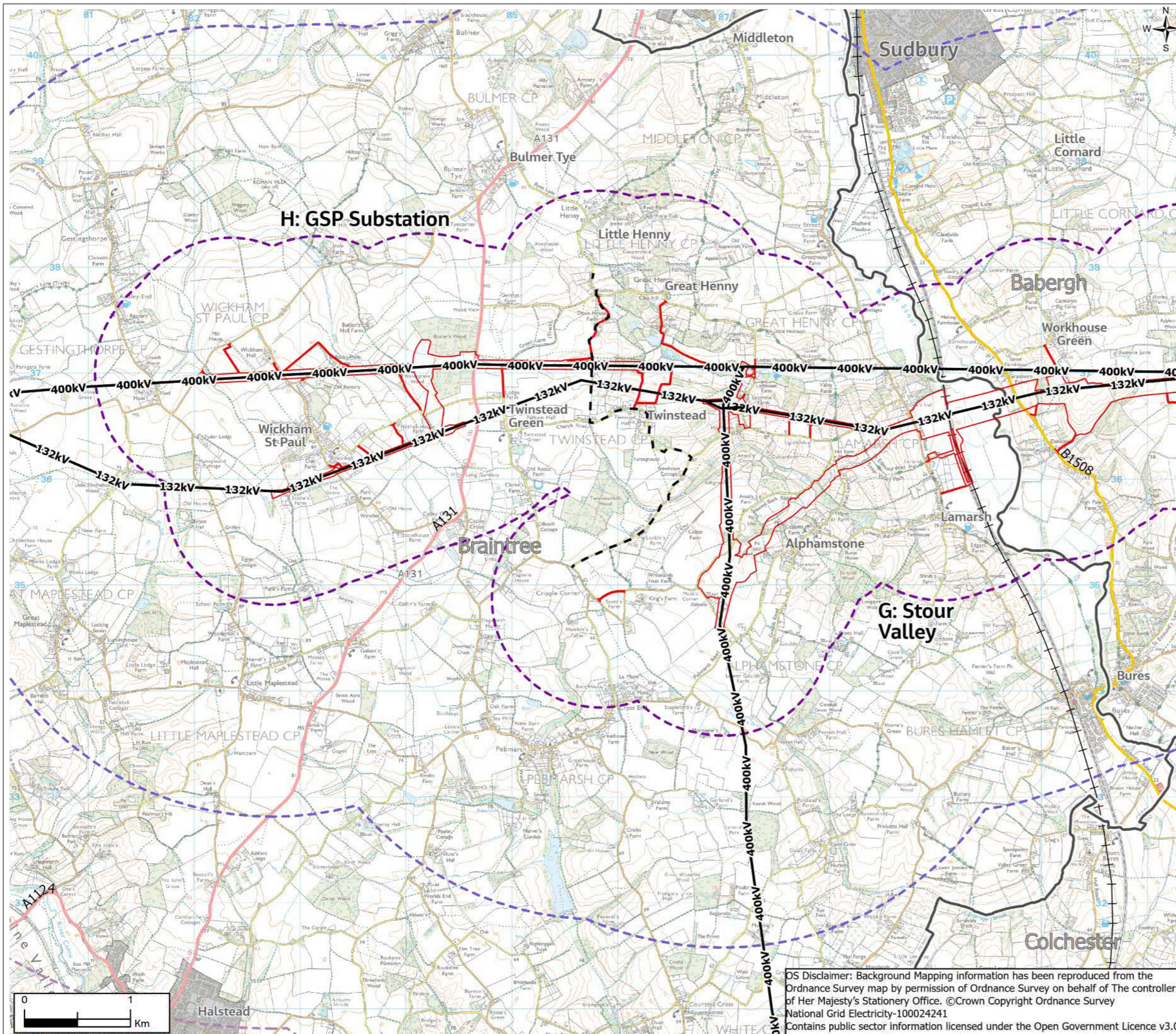
- Legend**
- - Section Boundaries
 - Existing overhead line
 - ▣ Existing Bramford Substation
 - ▭ Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local authority districts
 - ▭ Urban Settlements
 - + Railway Line
 - A Road
 - B Road



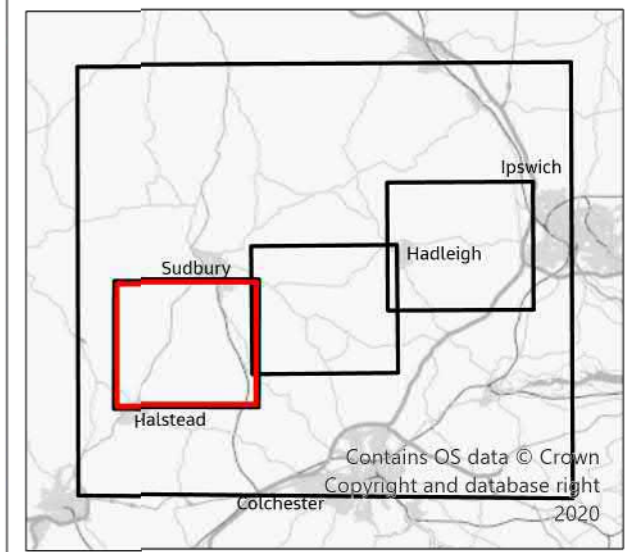
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FIGURE 6.4



- Legend**
- - Section Boundaries
 - Existing overhead line
 - ▭ Existing Bramford Substation
 - ▭ Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local authority districts
 - ▭ Urban Settlements
 - + Railway Line
 - A Road
 - B Road



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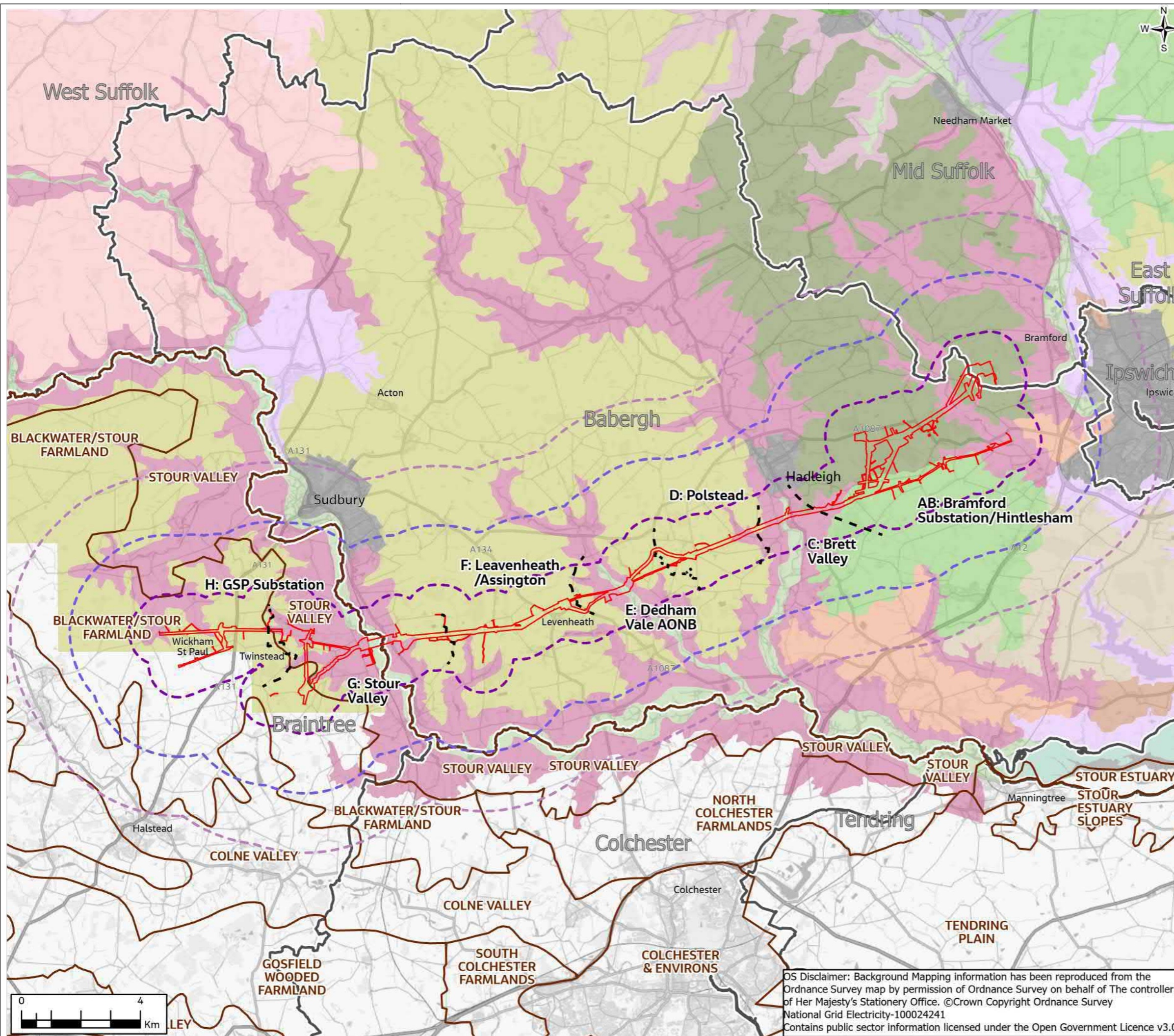
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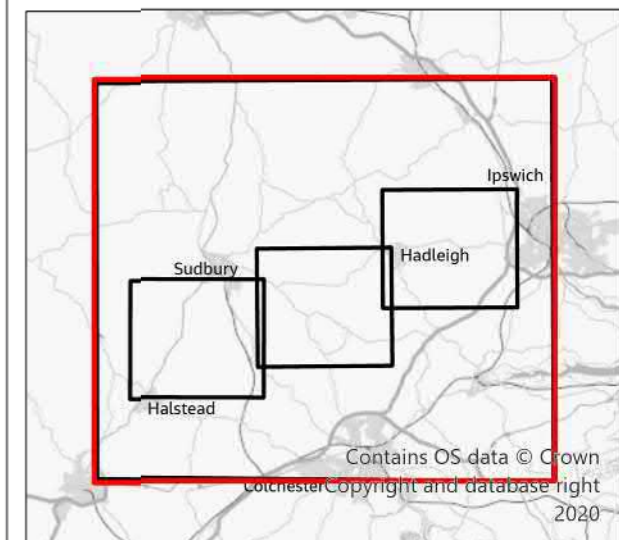
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FIGURE 6.5



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
 - Essex Landscape Character Areas
 - Essex Landscape Character Areas
 - Suffolk Landscape Character Types
 - Ancient Estate Claylands
 - Ancient Estate Farmlands
 - Ancient Plateau Claylands
 - Ancient Rolling Farmlands
 - Coastal Levels
 - Plateau Estate Farmlands
 - Plateau Farmlands
 - Rolling Estate Farmlands
 - Rolling Valley Claylands
 - Rolling Valley Farmlands
 - Rolling Valley Farmlands and Furze
 - Saltmarsh and Intertidal Flats
 - Undulating Ancient Farmlands
 - Undulating Estate Farmlands
 - Urban
 - Valley Meadowlands
 - Wooded Valley Meadowlands



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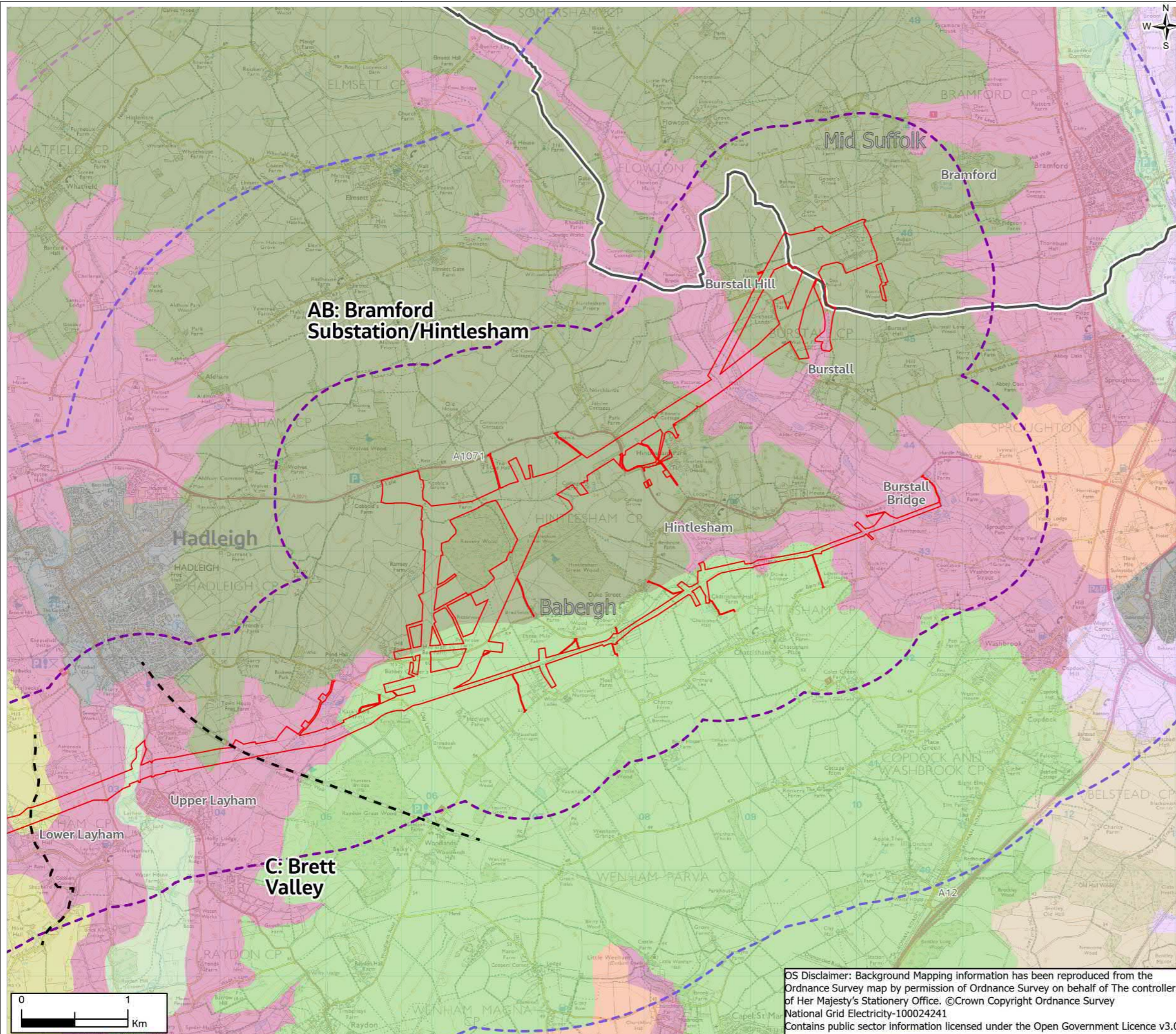
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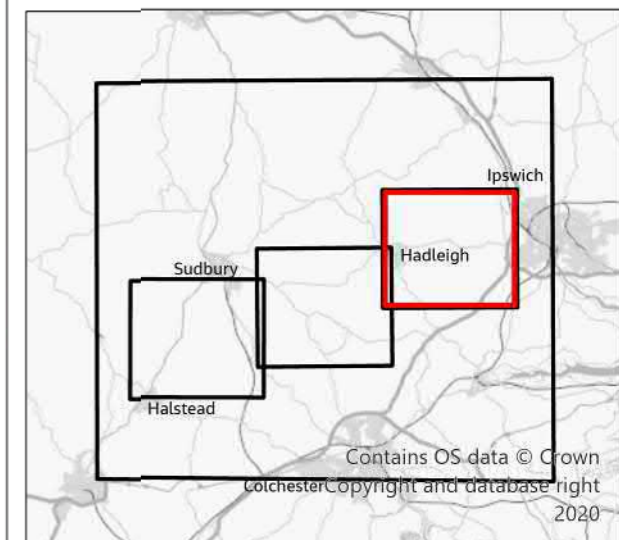
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FIGURE 6.5



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - ▭ Local authority districts
- Suffolk Landscape Character Types**
- Ancient Estate Claylands
 - Ancient Estate Farmlands
 - Ancient Plateau Claylands
 - Ancient Rolling Farmlands
 - Plateau Estate Farmlands
 - Plateau Farmlands
 - Rolling Estate Farmlands
 - Rolling Valley Farmlands
 - Urban
 - Valley Meadowlands



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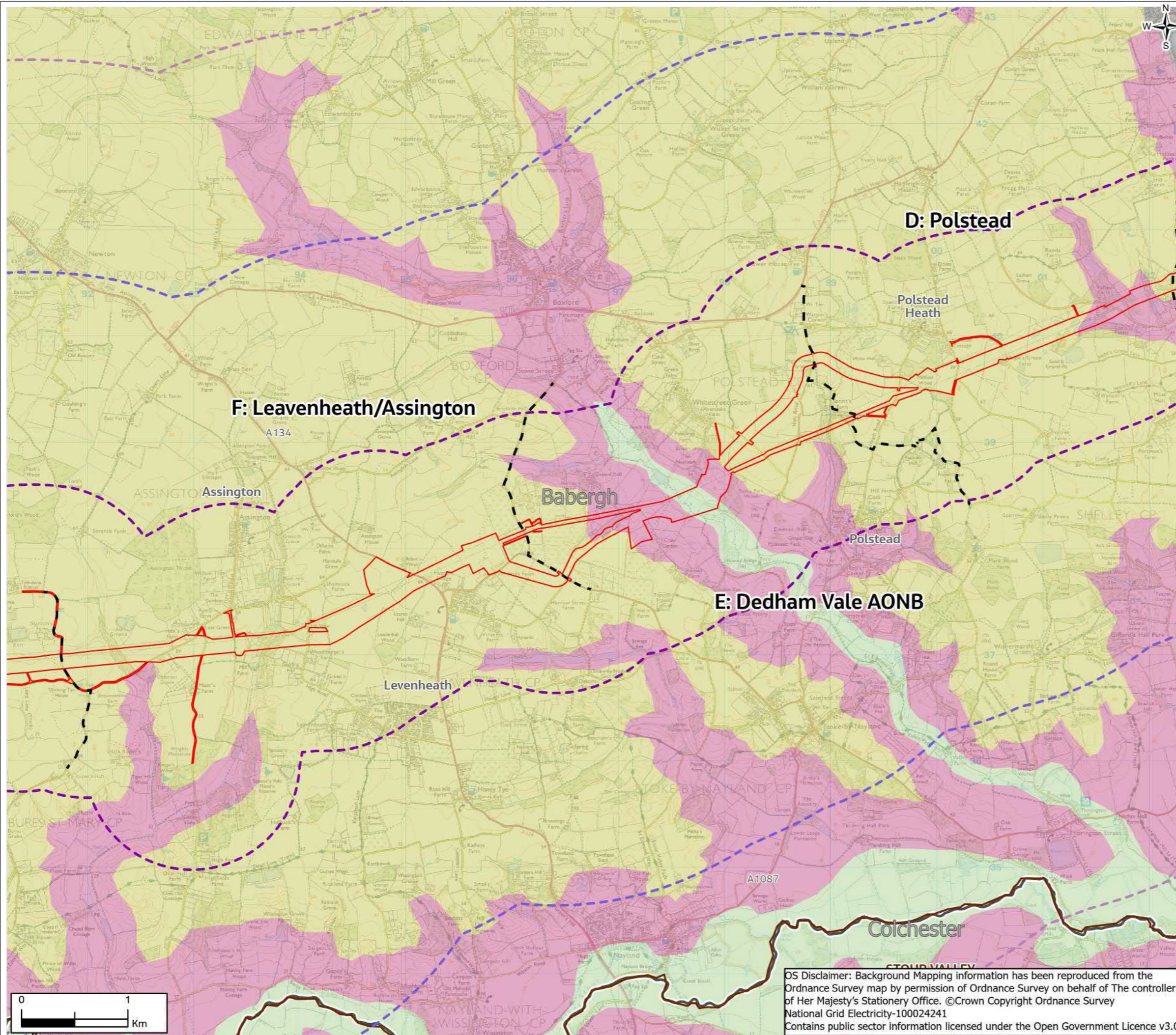
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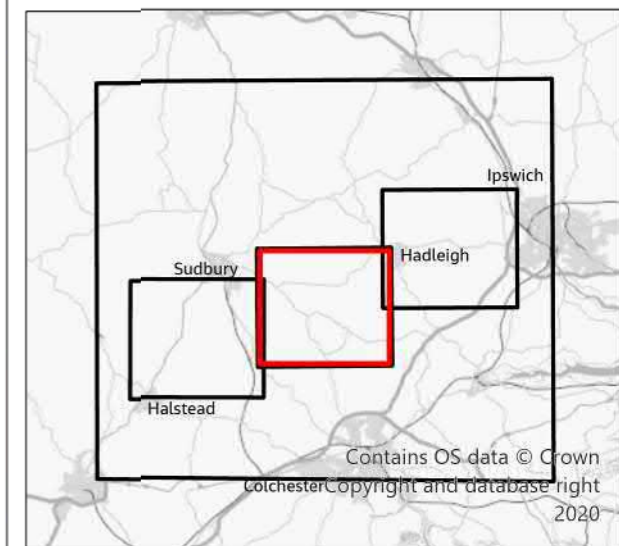
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FIGURE 6.5



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
- Essex Landscape Character Areas**
- Essex Landscape Character Areas
- Suffolk Landscape Character Types**
- Ancient Rolling Farmlands
 - Rolling Valley Farmlands
 - Urban
 - Valley Meadowlands



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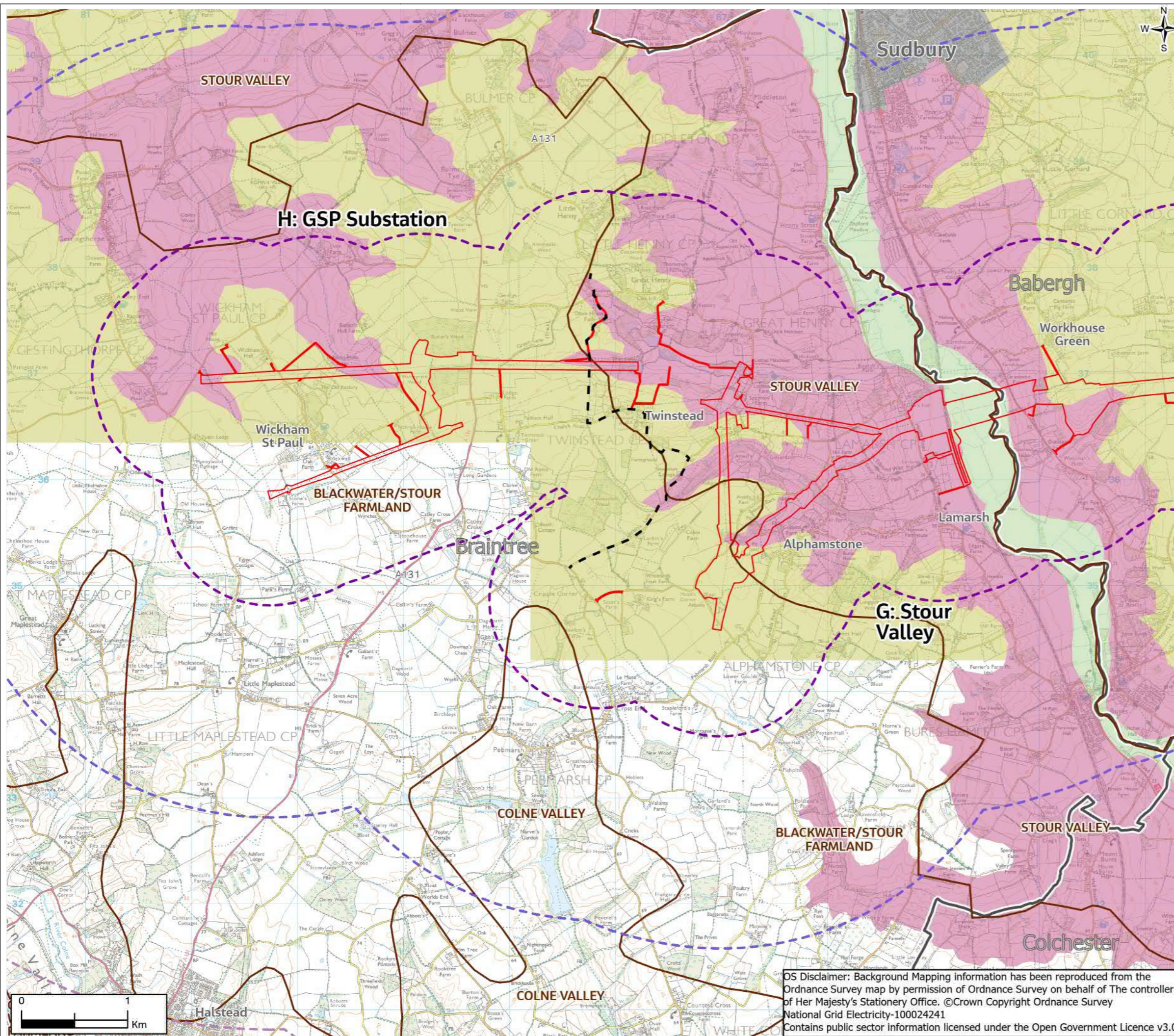
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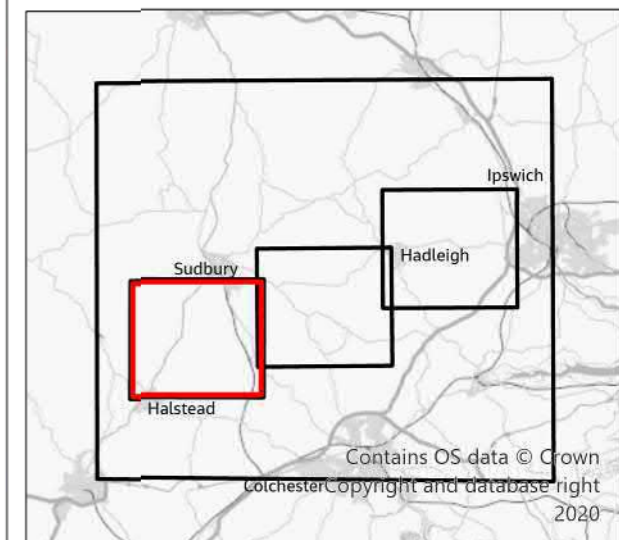
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FIGURE 6.5



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
- Essex Landscape Character Areas**
- Essex Landscape Character Areas
- Suffolk Landscape Character Types**
- Ancient Rolling Farmlands
 - Rolling Valley Farmlands
 - Urban
 - Valley Meadowlands



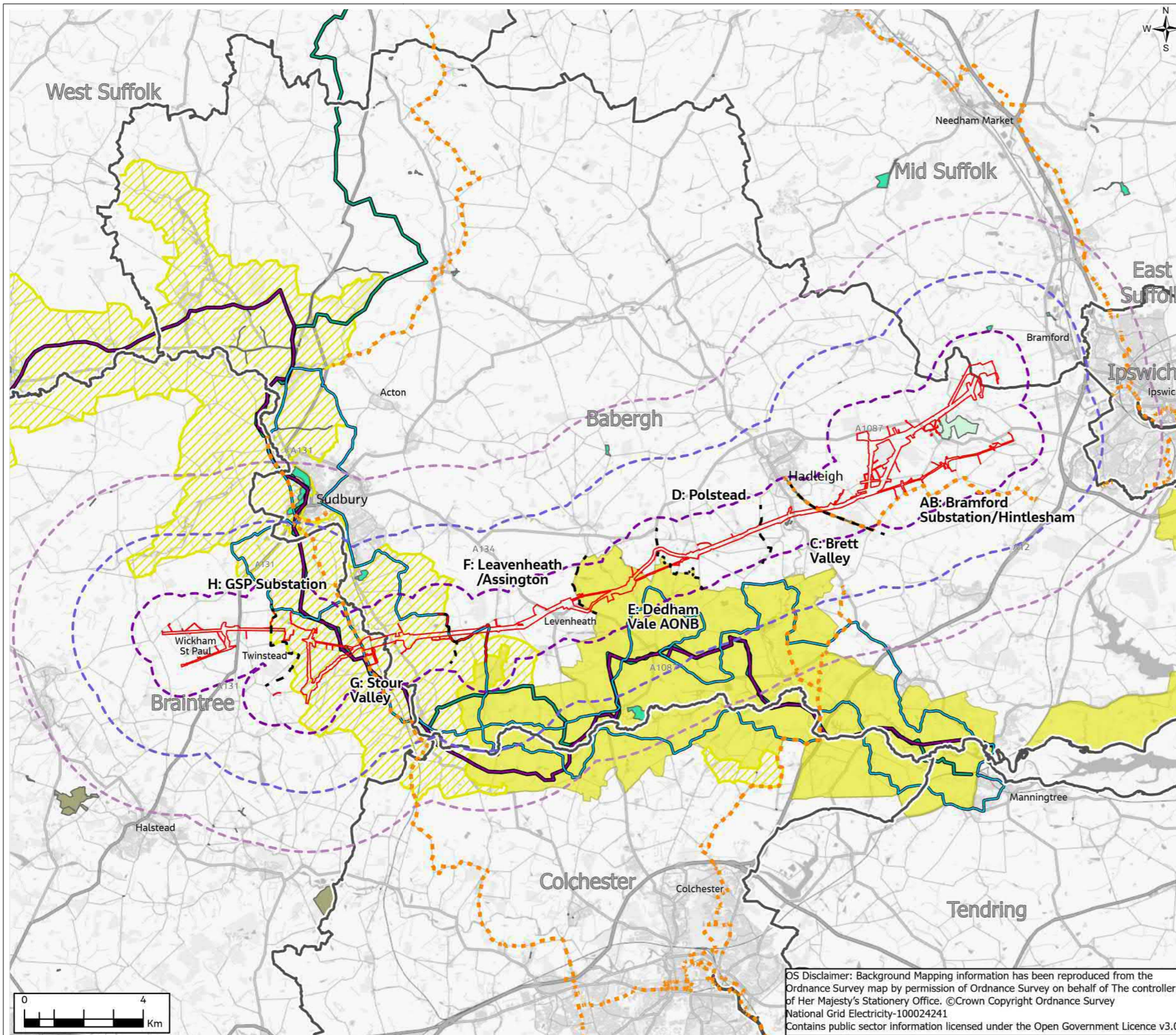
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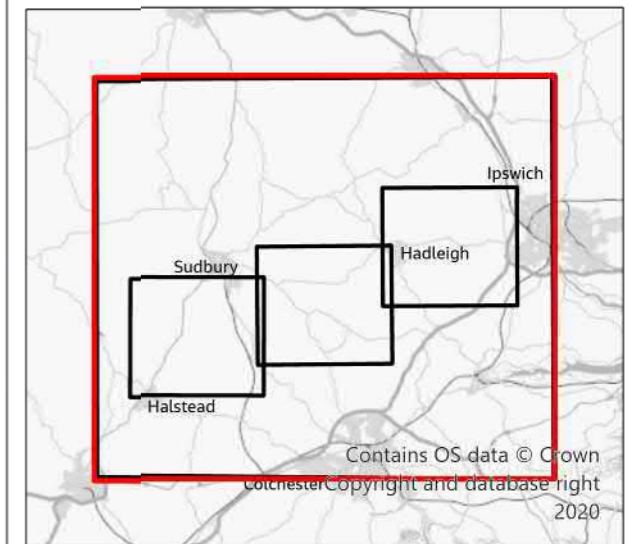
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FIGURE 6.6



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local authority districts
 - ▭ Dedham Vale Area of Outstanding Natural Beauty
 - ▭ Stour Valley Project Area
 - ▭ Countryside and Rights of Way Open Access
 - ▭ Countryside and Rights of Way Common Land
 - ▭ Babergh and Mid Suffolk Open Space
 - ▭ National Cycle Network
 - ▭ Long Distance Trails
 - ▭ St Edmunds Way
 - ▭ Stour Valley Path
 - ▭ Painters' Trail

Viewpoint locations and local Public Rights of Way are shown on sheets 2-4



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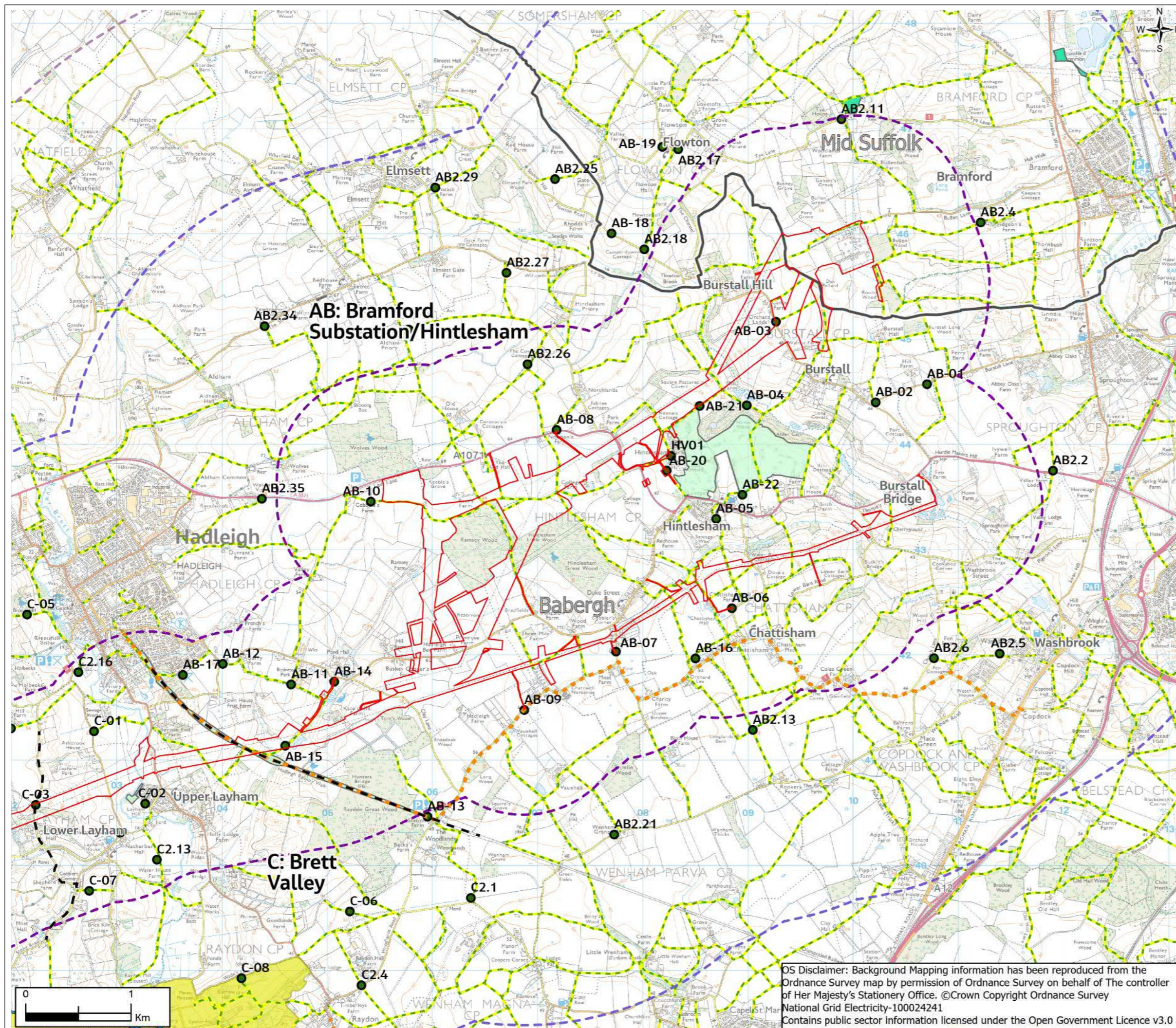
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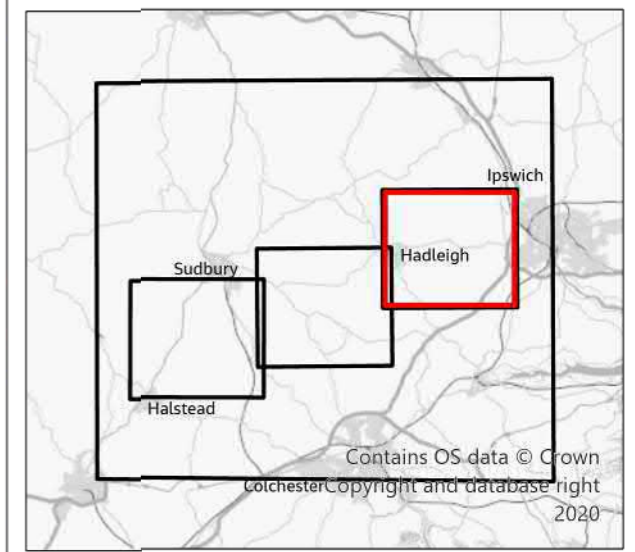
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FIGURE 6.6



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area
 - Proposed Landscape & Visual Viewpoints
 - AB-01 Landscape & Visual Viewpoint Number
 - Countryside and Rights of Way Open Access
 - Countryside and Rights of Way Common Land
 - Babergh and Mid Suffolk Open Space
 - National Cycle Network
 - Suffolk Public Rights of Way
 - Essex Public Rights of Way
 - Long Distance Trails
 - St Edmunds Way
 - Stour Valley Path
 - Painters' Trail



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Drawing Status **Final**

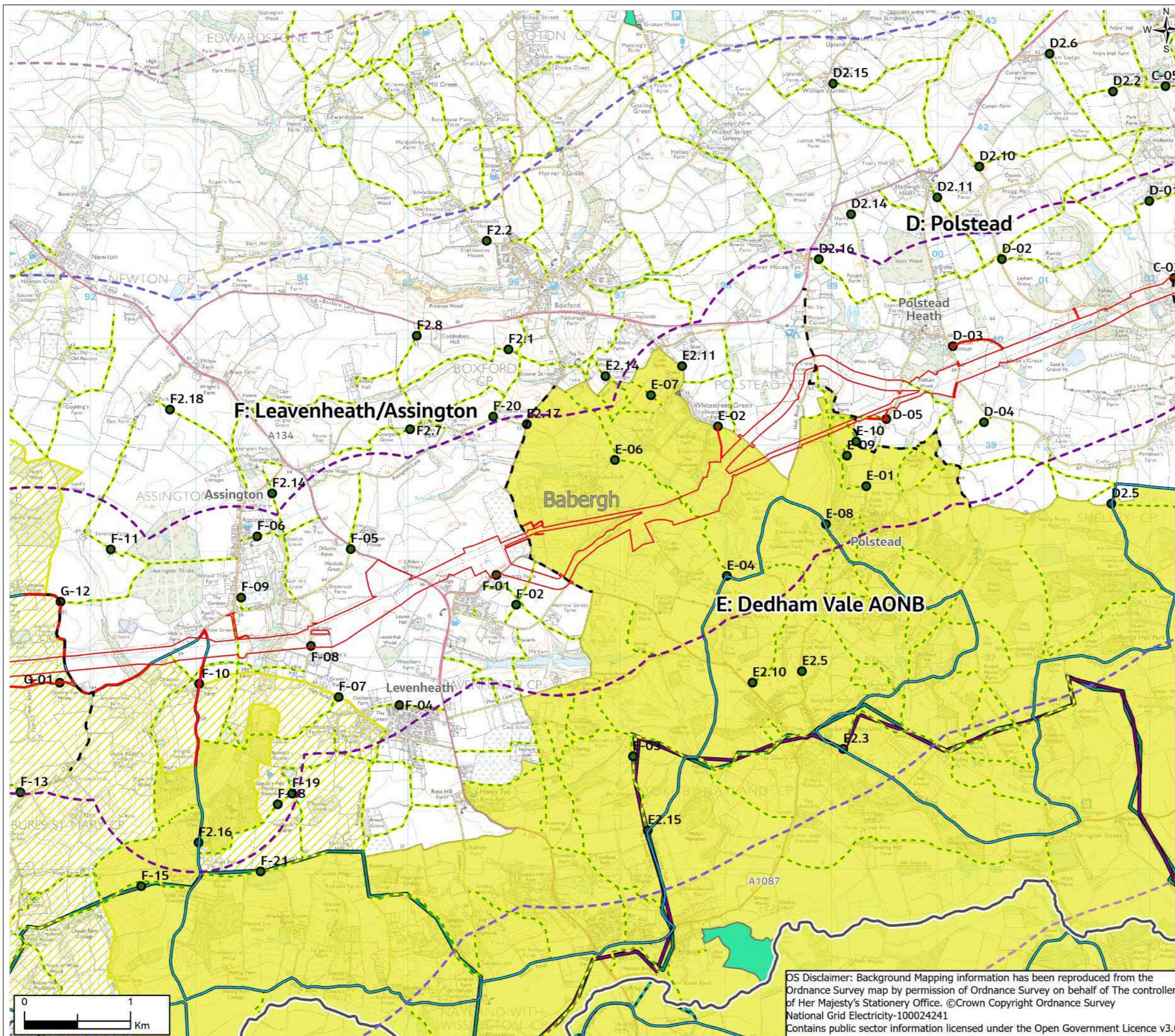
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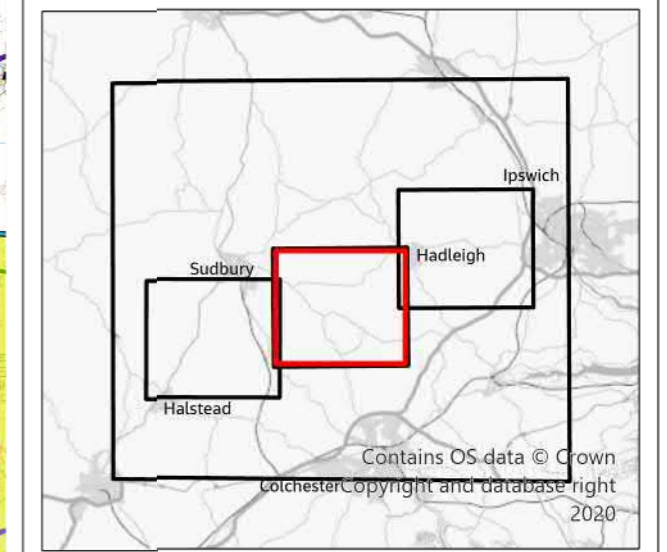
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FIGURE 6.6



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local authority districts
 - ▭ Dedham Vale Area of Outstanding Natural Beauty
 - ▭ Stour Valley Project Area
 - Proposed Landscape & Visual Viewpoints
 - AB-01 Landscape & Visual Viewpoint Number
 - Countryside and Rights of Way Open Access
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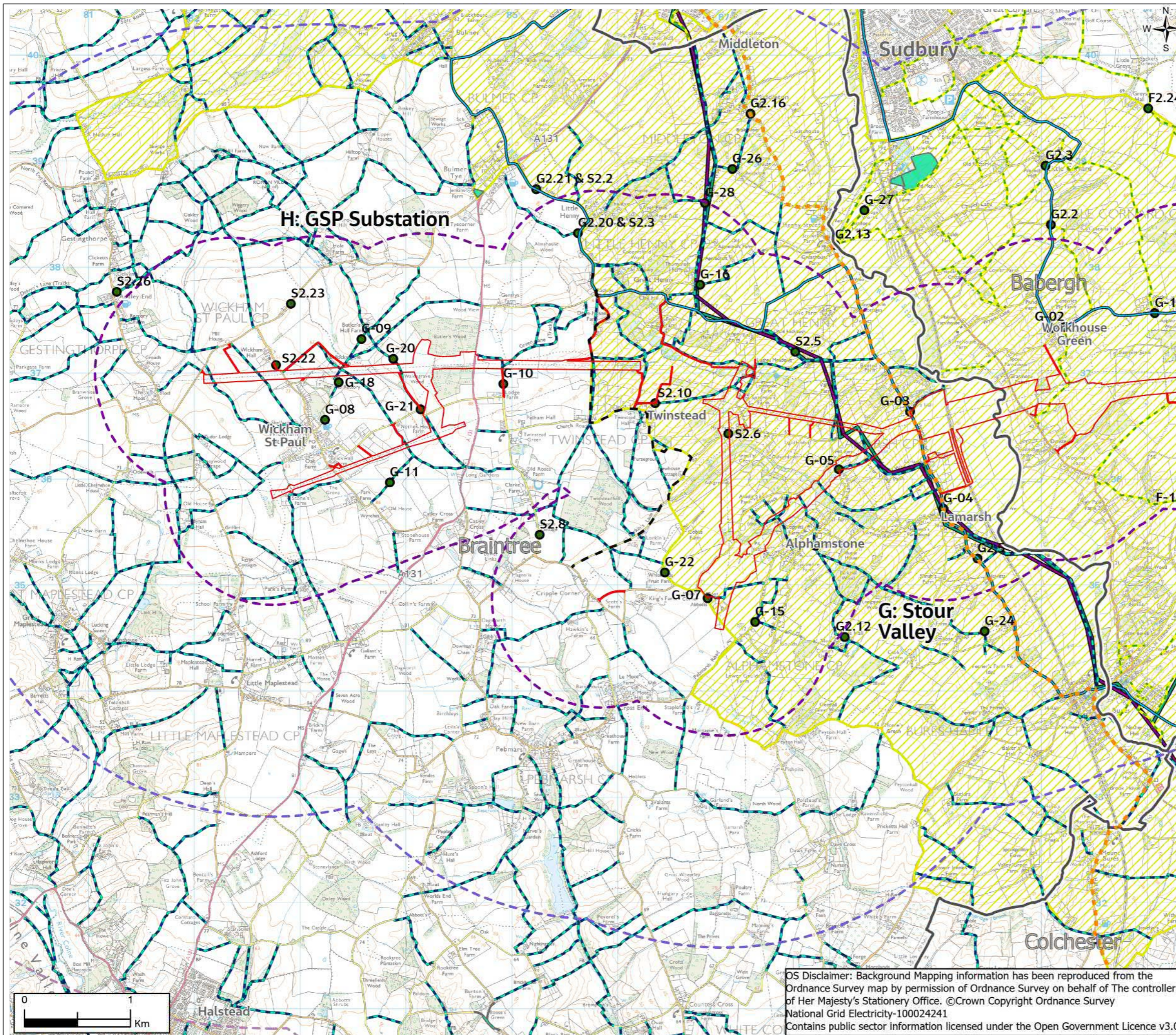
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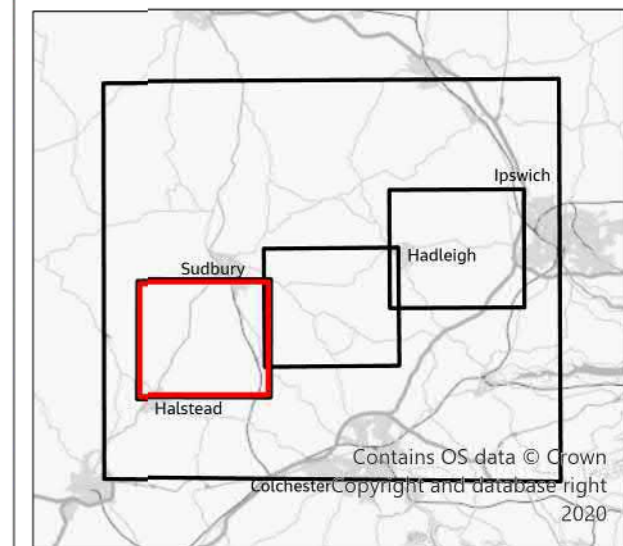
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FIGURE 6.6



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area
 - Proposed Landscape & Visual Viewpoints
 - AB-01 Landscape & Visual Viewpoint Number
 - Countryside and Rights of Way Open Access
 - Countryside and Rights of Way Common Land
 - Babergh and Mid Suffolk Open Space
 - National Cycle Network
 - Suffolk Public Rights of Way
 - Essex Public Rights of Way
 - Long Distance Trails
 - St Edmunds Way
 - Stour Valley Path
 - Painters' Trail



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Drawing Title **Visual Receptors and Viewpoints**

Page 4 of 4

Drawing Status **Final**

Scale @ A3 **1:35,000** **DO NOT SCALE**

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Drawing No. **AAA_B2T_06_Landscape_Visual**

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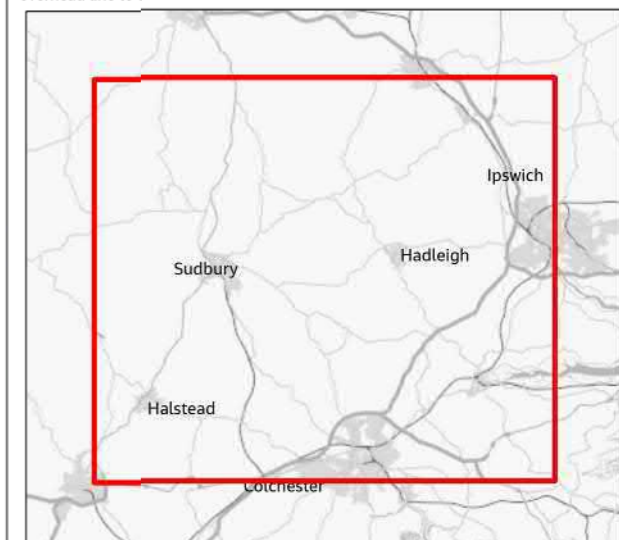
ZTV generated using ArcGIS based on OS Terrain 5 and Terrain 50 DTM with woodland factored in based on National Woodland Inventory layer shown on figure 6.3 at a height of 15 meters above ground level. AOD pylon height of 2.5 meters below top height of an indicative design. This provides an indication of places from which the very tops of the structures may theoretically be visible.



FIGURE 6.7

- Legend**
- Section boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area
- Indicative areas from which the existing sections of 132kv and 400kv overhead line (to be removed) and the proposed 400kv overhead line would all be theoretically visible from
- Additional indicative areas from which the proposed 400kv overhead line would be theoretically visible but the existing sections of 132kv and 400kv overhead line (to be removed) are not theoretically visible
- Additional indicative areas from which the existing sections of 132kv and 400kv overhead line (to be removed) are theoretically visible but the proposed 400kv overhead line would not be theoretically visible

Note: The indicative ZTVs illustrated in this figure are based on the existing and proposed pylon elements of the project only. This is because the steel lattice towers of the proposed overhead line and the overhead line to be removed are the tallest components of the project. This draft ZTV demonstrates that the difference in extent of theoretical visibility (worst case scenario) between the proposed overhead line and the overhead line to be removed.



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Drawing Title **Comparative Zone of Theoretical Visibility (ZTV) of Pylons to be Removed and Proposed Pylons Hintlesham Option 1 Page 1a of 1**

Drawing Status **Final**

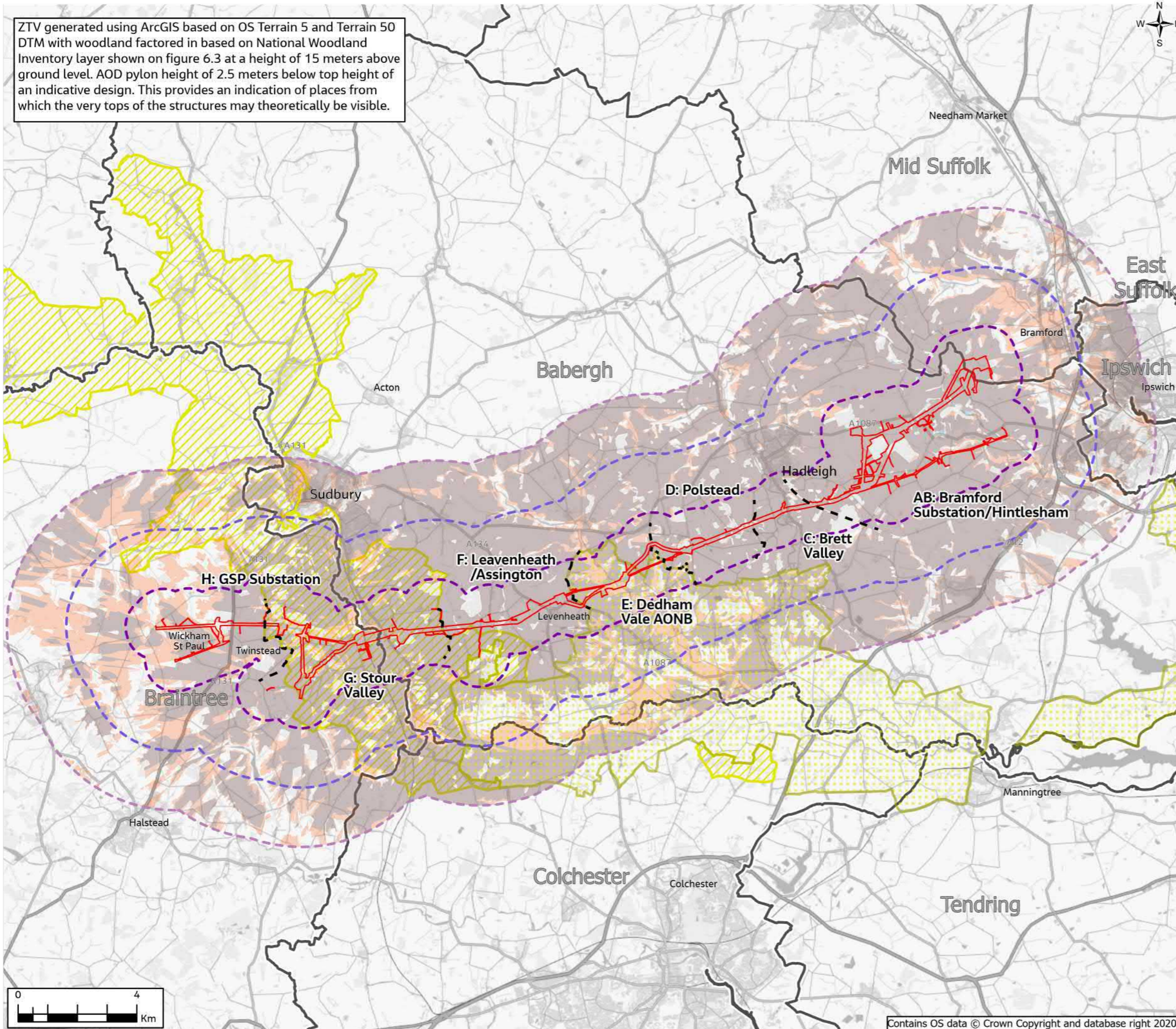
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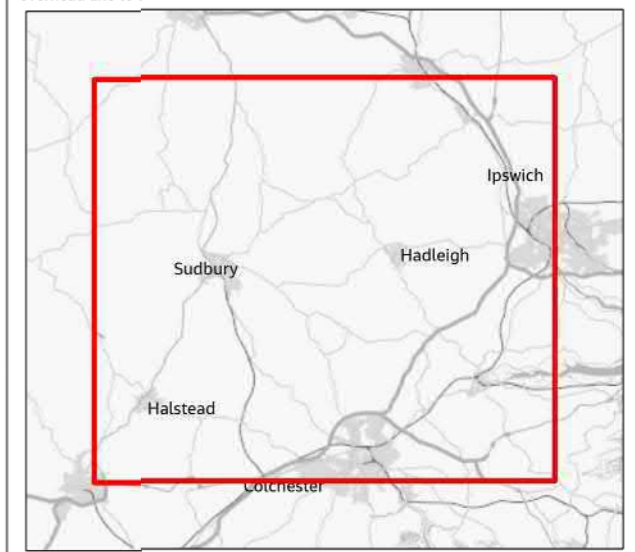
ZTV generated using ArcGIS based on OS Terrain 5 and Terrain 50 DTM with woodland factored in based on National Woodland Inventory layer shown on figure 6.3 at a height of 15 meters above ground level. AOD pylon height of 2.5 meters below top height of an indicative design. This provides an indication of places from which the very tops of the structures may theoretically be visible.



FIGURE 6.7

- Legend**
- Section boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Local authority districts
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area
- Indicative areas from which the existing sections of 132kv and 400kv overhead line (to be removed) and the proposed 400kv overhead line would all be theoretically visible from
- Additional indicative areas from which the proposed 400kv overhead line would be theoretically visible but the existing sections of 132kv and 400kv overhead line (to be removed) are not theoretically visible
- Additional indicative areas from which the existing sections of 132kv and 400kv overhead line (to be removed) are theoretically visible but the proposed 400kv overhead line would not be theoretically visible

Note: The indicative ZTVs illustrated in this figure are based on the existing and proposed pylon elements of the project only. This is because the steel lattice towers of the proposed overhead line and the overhead line to be removed are the tallest components of the project. This draft ZTV demonstrates that the difference in extent of theoretical visibility (worst case scenario) between the proposed overhead line and the overhead line to be removed.



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Drawing Status **Final**

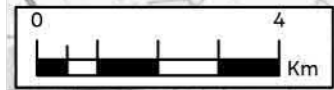
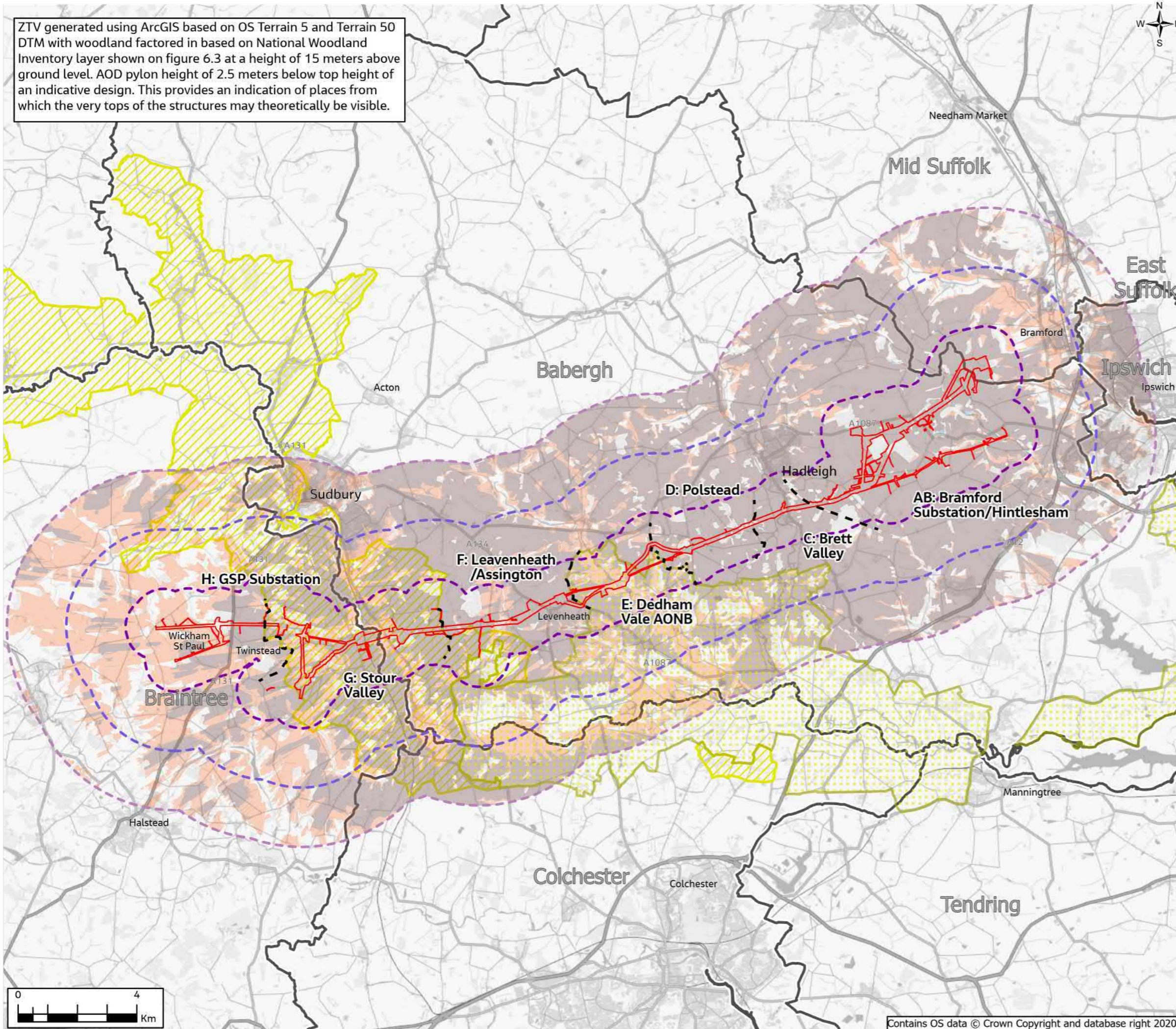
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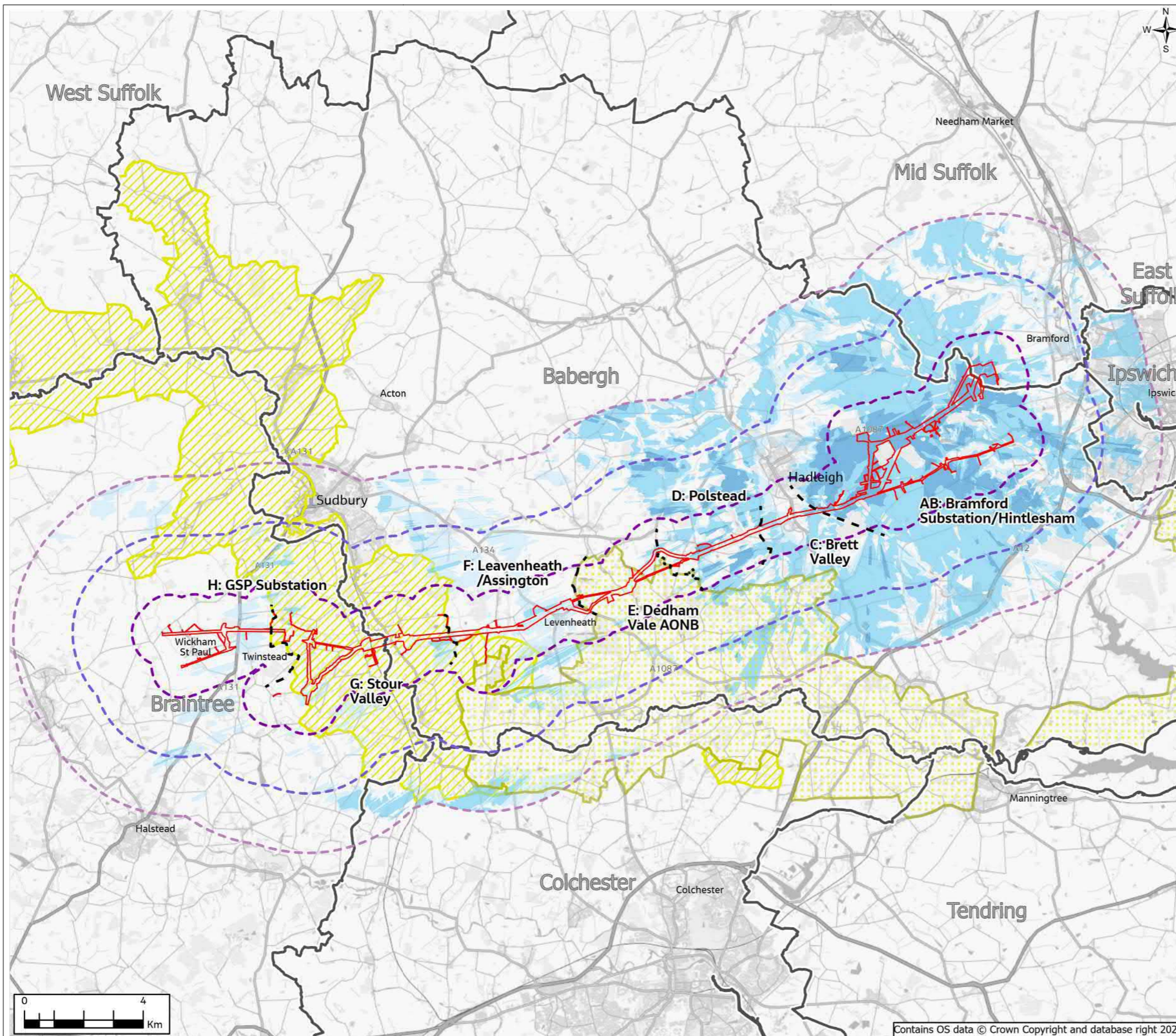
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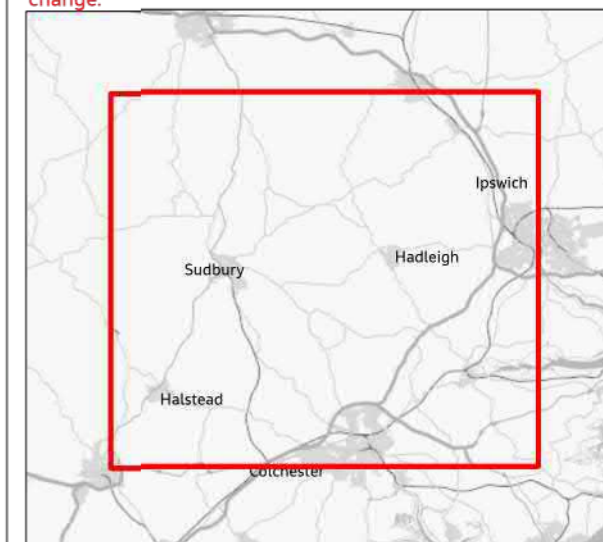
FIGURE 6.8



Legend

- - Section Boundaries
- ▭ Draft Order Limits
- ▭ Study Area (5km)
- ▭ Distance Marker (3km)
- ▭ Distance Marker (1km)
- ▭ Local Authority Districts
- Viewshed Section AB: Bramford Substation/ Hintlesham - Hintlesham Option 1
- ▭ View to the base of the Pylon
- ▭ View to Pylon Mid Height
- ▭ View to the top 2.5m of the Pylon
- ▭ Dedham Vale Area of Outstanding Natural Beauty
- ▭ Stour Valley Project Area

Note: Pylon locations and heights used to generate the ZTV are based on an indicative design and are subject to change.



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AB: Bramford Substation/ Hintlesham - Hintlesham Option 1
Page 1a of 5

Drawing Status
Final

Scale @ A3
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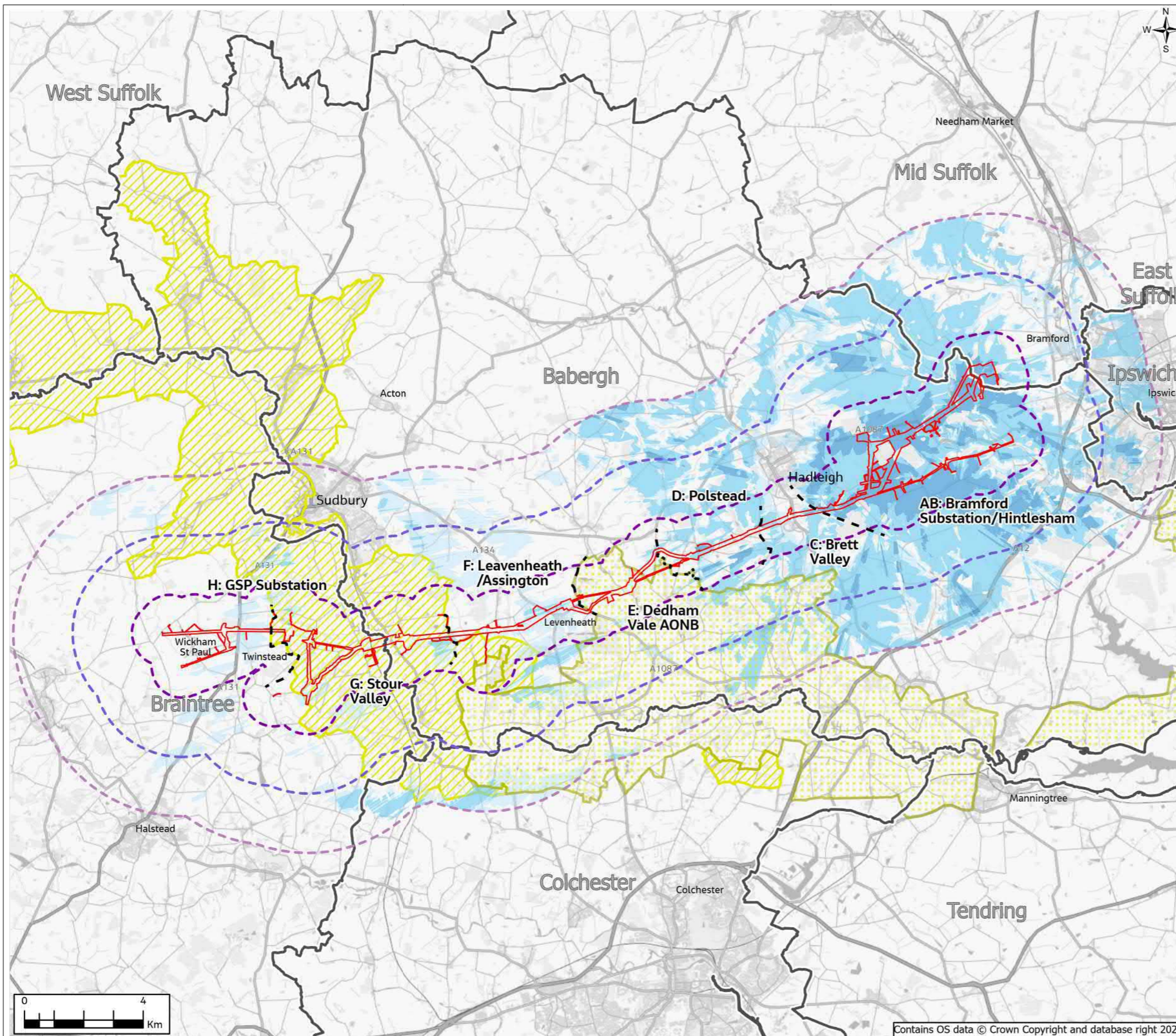
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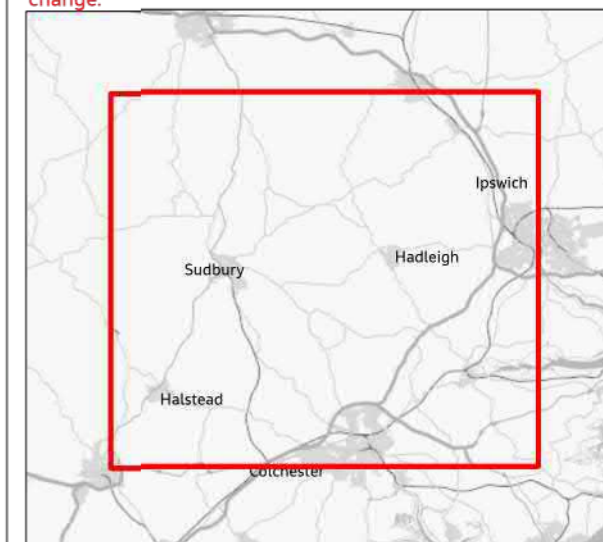
FIGURE 6.8



Legend

- - Section Boundaries
- Draft Order Limits
- Study Area (5km)
- Distance Marker (3km)
- Distance Marker (1km)
- Local Authority Districts
- Viewshed Section AB: Bramford Substation/ Hintlesham - Hintlesham Option 2
- View to the base of the Pylon
- View to Pylon Mid Height
- View to the top 2.5m of the Pylon
- Dedham Vale Area of Outstanding Natural Beauty
- Stour Valley Project Area

Note: Pylon locations and heights used to generate the ZTV are based on an indicative design and are subject to change.



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Page 1b of 5

Drawing Status **Final**

Scale @ A3 **1:125,000** **DO NOT SCALE**

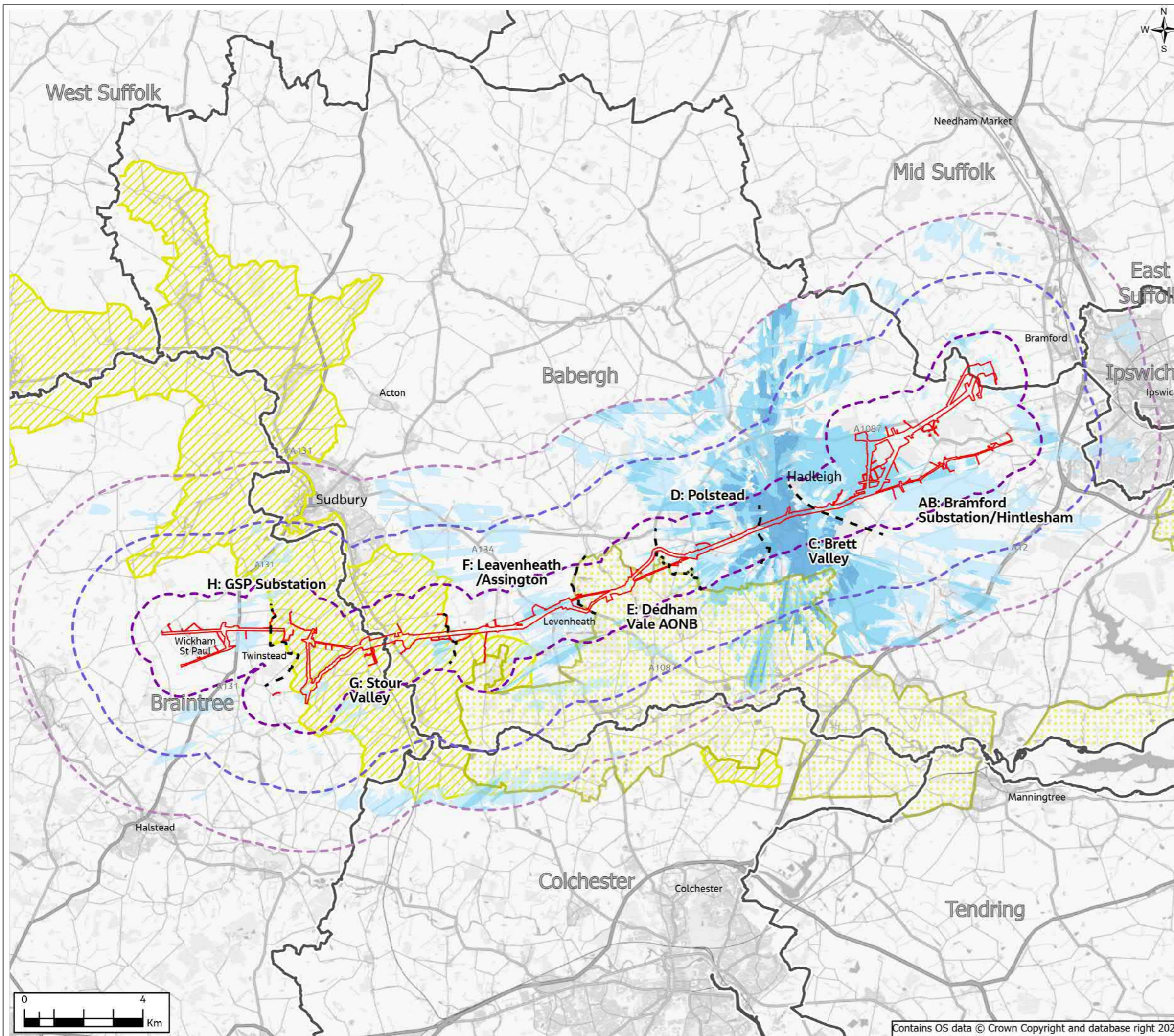
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FIGURE 6.8



Legend

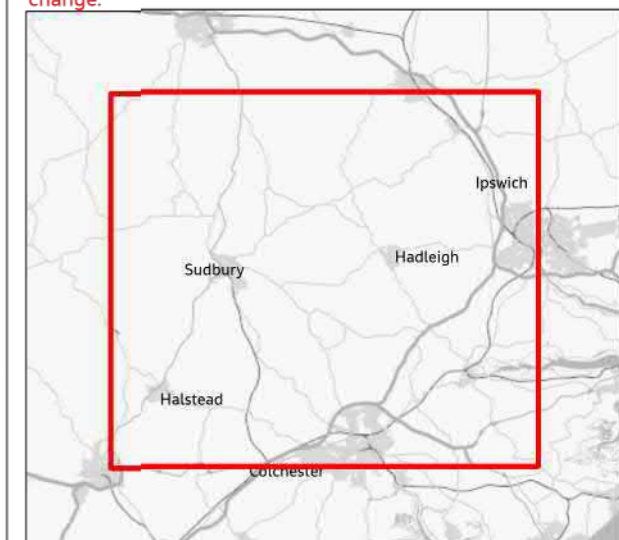
- - Section Boundaries
- ▭ Draft Order Limits
- ▭ Study Area (5km)
- ▭ Distance Marker (3km)
- ▭ Distance Marker (1km)
- ▭ Local Authority Districts

Viewshed Section C: Brett Valley

- ▭ View to the base of the Pylon
- ▭ View to Pylon Mid Height
- ▭ View to the top 2.5m of the Pylon

- ▨ Dedham Vale Area of Outstanding Natural Beauty
- ▨ Stour Valley Project Area

Note: Pylon locations and heights used to generate the ZTV are based on an indicative design and are subject to change.



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 by Project Section
 C: Brett Valley
 Page 2 of 5

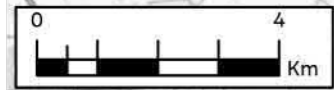
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Scale @ A3
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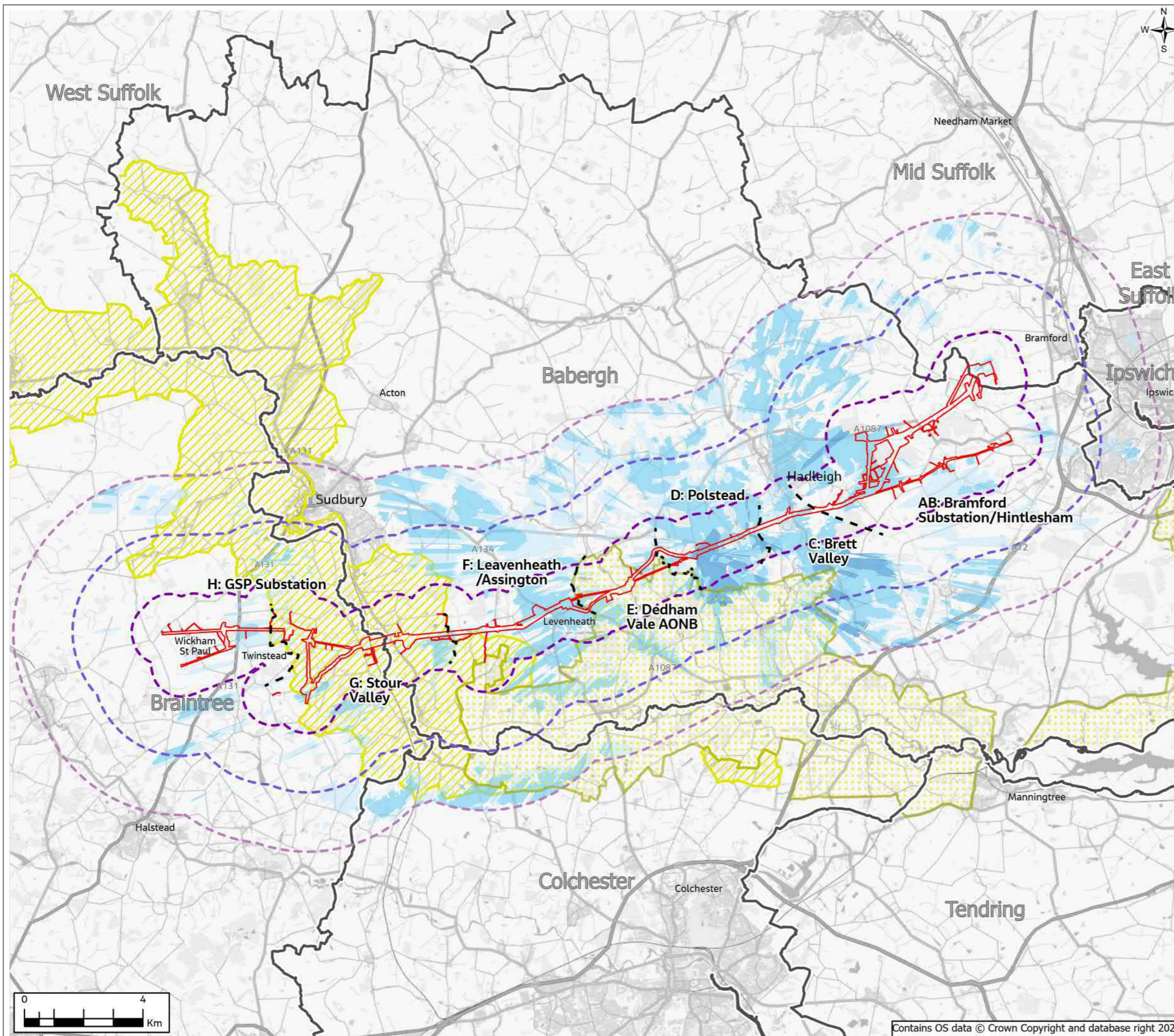
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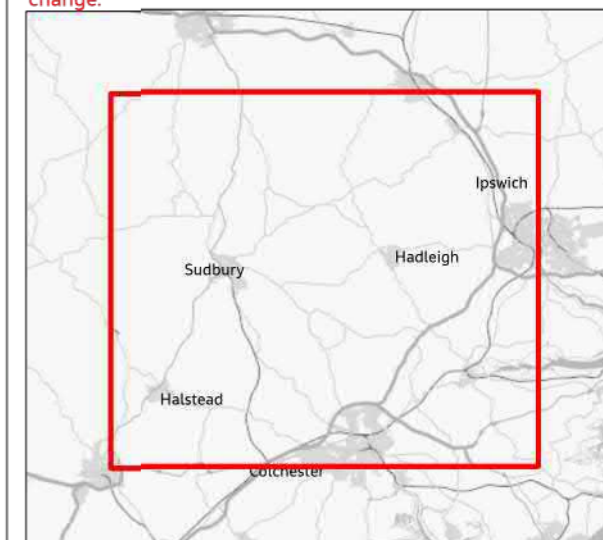
FIGURE 6.8



Legend

- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local Authority Districts
- Viewshed Section D: Polstead**
- ▭ View to the base of the Pylon
 - ▭ View to Pylon Mid Height
 - ▭ View to the top 2.5m of the Pylon
 - ▭ Dedham Vale Area of Outstanding Natural Beauty
 - ▭ Stour Valley Project Area

Note: Pylon locations and heights used to generate the ZTV are based on an indicative design and are subject to change.



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 by Project Section
 D: Polstead
 Page 3 of 5

Drawing Status
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Scale @ A3
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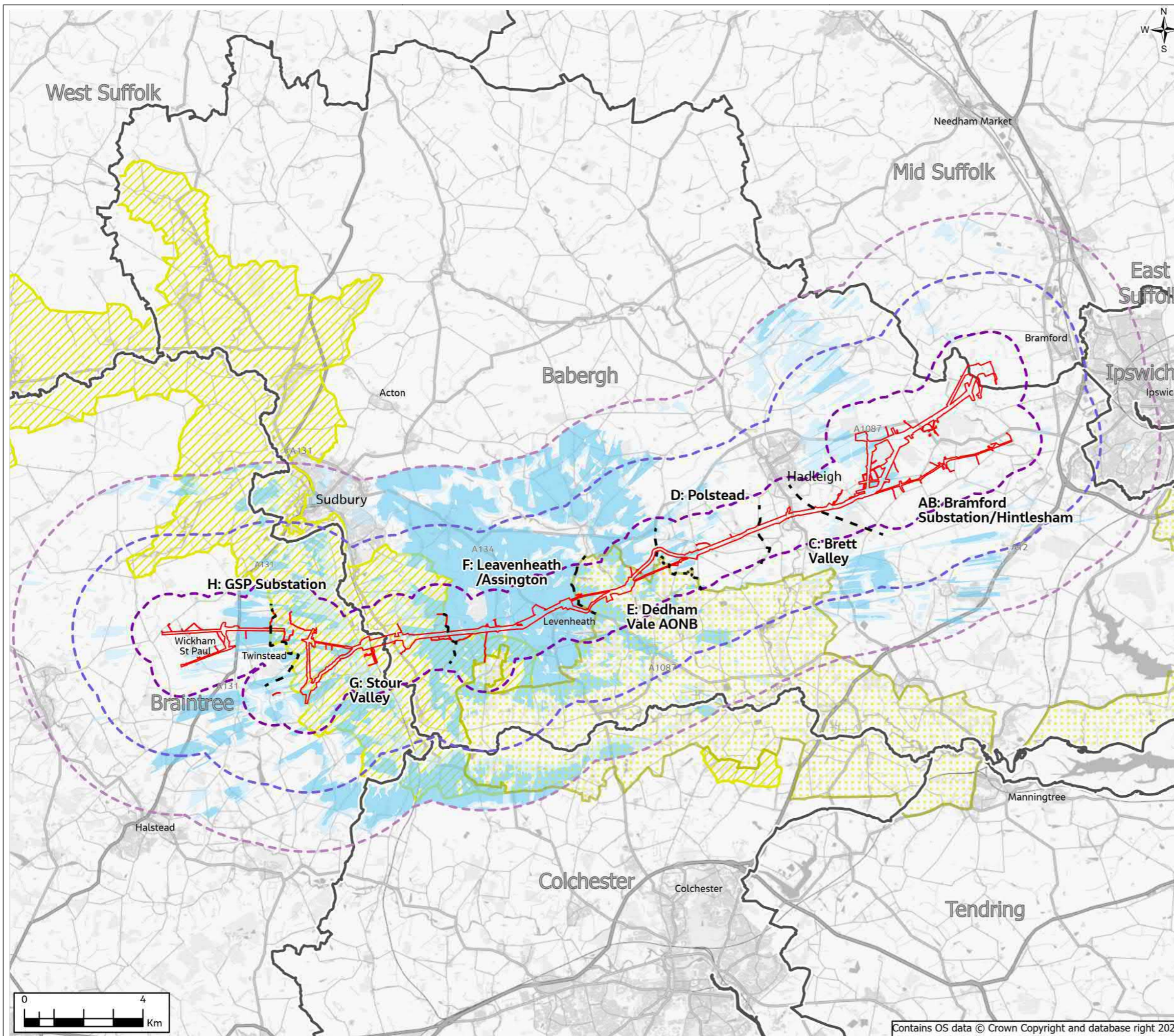
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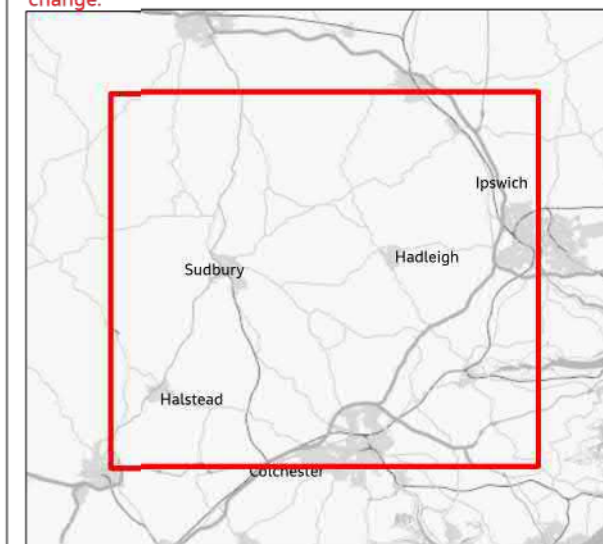
FIGURE 6.8



Legend

- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (5km)
 - ▭ Distance Marker (3km)
 - ▭ Distance Marker (1km)
 - ▭ Local Authority Districts
- Viewshed Section F: Leavenheath/Assington**
- ▭ View to the base of the Pylon
 - ▭ View to Pylon Mid Height
 - ▭ View to the top 2.5m of the Pylon
 - ▭ Dedham Vale Area of Outstanding Natural Beauty
 - ▭ Stour Valley Project Area

Note: Pylon locations and heights used to generate the ZTV are based on an indicative design and are subject to change.



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by Project Section
F: Leavenheath/Assington
Page 4 of 5

Drawing Status
Final

Scale @ A3
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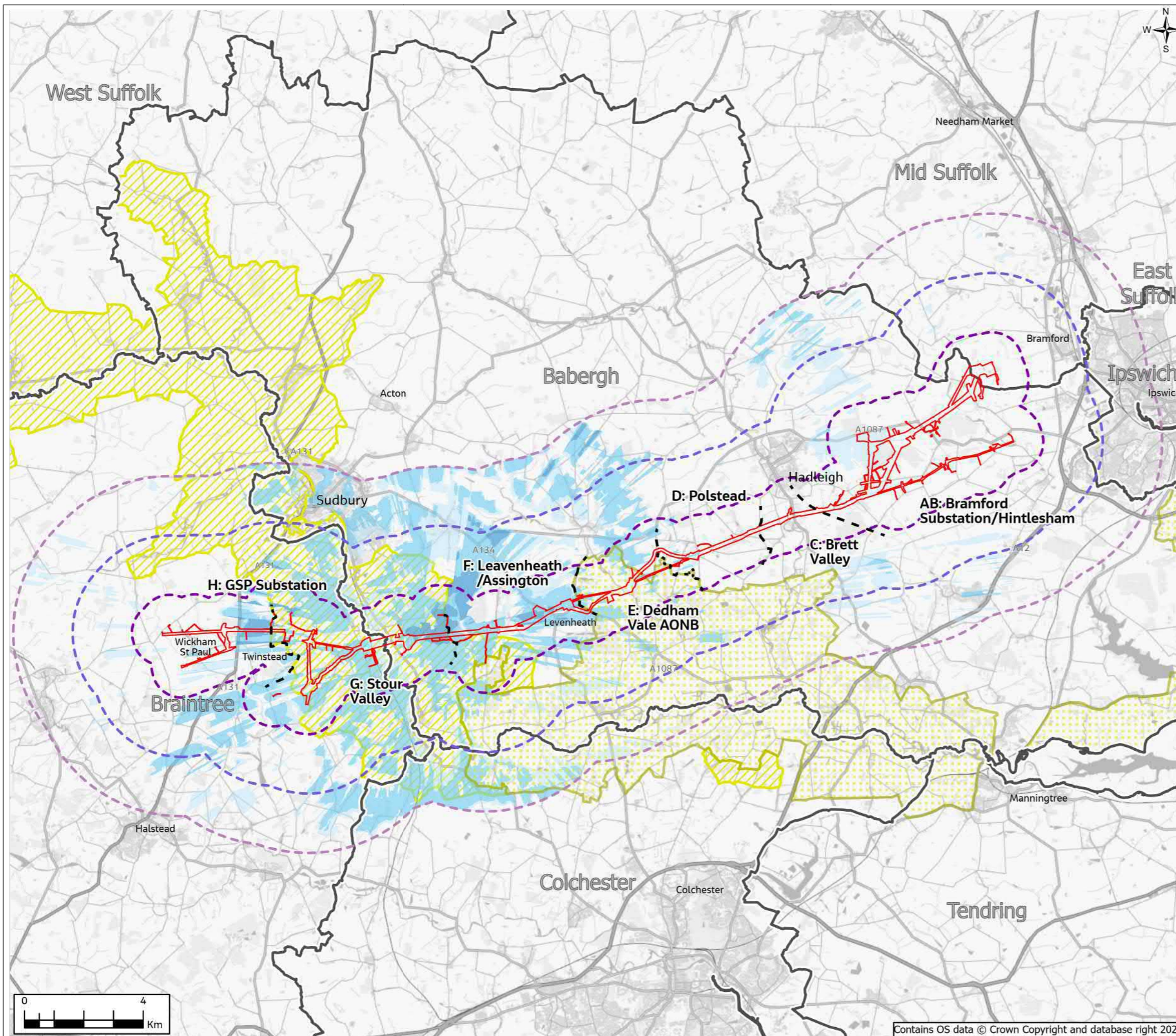
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FIGURE 6.8



Legend

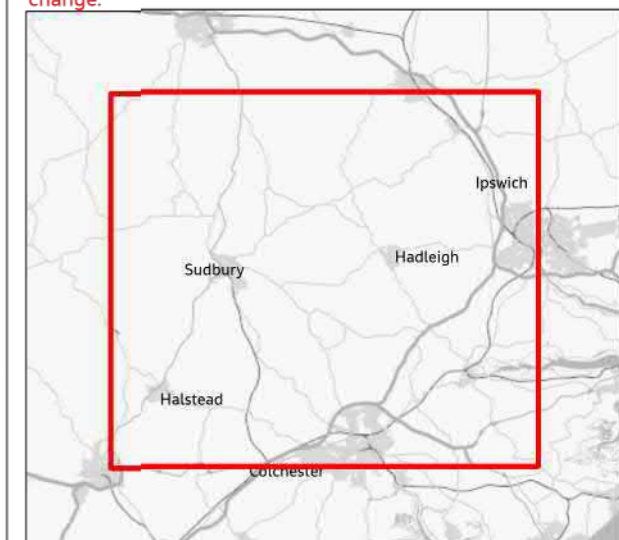
- - Section Boundaries
- ▬ Draft Order Limits
- ▭ Study Area (5km)
- ▭ Distance Marker (3km)
- ▭ Distance Marker (1km)
- ▭ Local Authority Districts

Viewshed Section G: Stour Valley

- ▭ View to the base of the Pylon
- ▭ View to Pylon Mid Height
- ▭ View to the top 2.5m of the Pylon

- ▭ Dedham Vale Area of Outstanding Natural Beauty
- ▭ Stour Valley Project Area

Note: Pylon locations and heights used to generate the ZTV are based on an indicative design and are subject to change.



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 Zone of Theoretical Visibility (ZTV) of Proposed 400kV Overhead Line
 by Project Section
 G: Stour Valley
 Page 5 of 5

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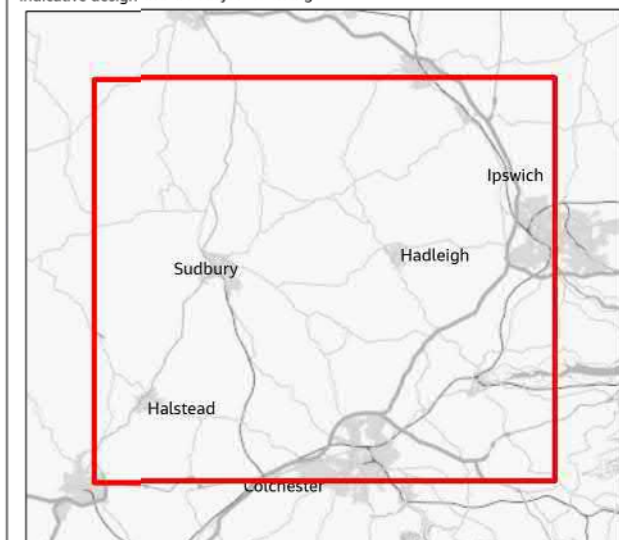
ZTV generated using ArcGIS based on OS Terrain 5 and Terrain 50 DTM with woodland factored in based on National Woodland Inventory layer shown on figure 6.3 at a height of 15 meters above ground level. AOD pylon height of 2.5 meters below top height of an indicative design. This provides an indication of places from which the very tops of the structures may theoretically be visible.



FIGURE 6.9

- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Proposed Cable Sealing End Compound
 - Local authority districts
- Viewshed Dedham Vale East CSE Compound**
- View to the base of the CSE compound
 - View to the mid height of the gantries in the CSE compound
 - View of the top of the gantries in the CSE compound
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area

Note: The indicative ZTVs illustrated in this figure are based on the proposed indicative gantries of the CSE compound elements of the project only. This is because the gantries are the tallest components of the proposed CSE compound. The CSE compound gantry locations and heights used to generate the ZTV are based on an indicative design and are subject to change



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Project **BRAMFORD TO TWINSTEAD**

Drawing Title **ZTV of Dedham Vale East Cable Sealing End (CSE) Compound**

Page 1 of 1

Drawing Status **Final**

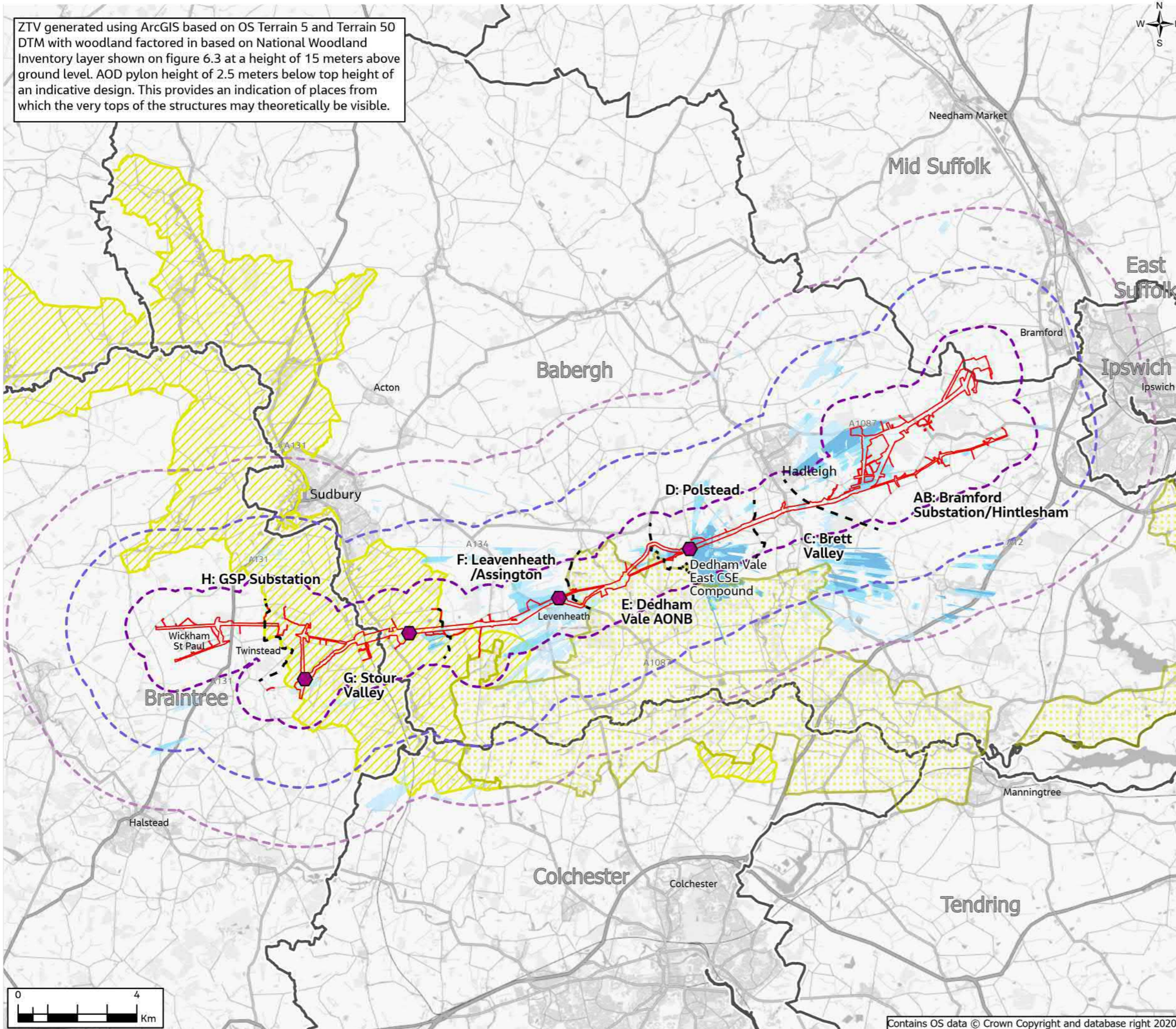
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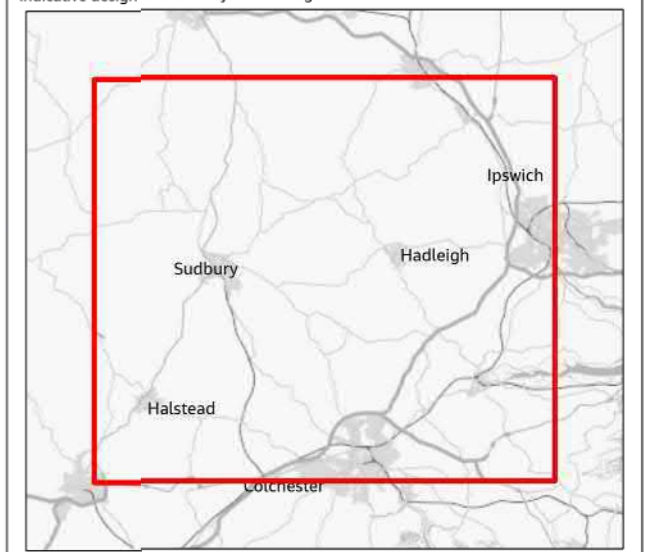
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ZTV generated using ArcGIS based on OS Terrain 5 and Terrain 50 DTM with woodland factored in based on National Woodland Inventory layer shown on figure 6.3 at a height of 15 meters above ground level. AOD pylon height of 2.5 meters below top height of an indicative design. This provides an indication of places from which the very tops of the structures may theoretically be visible.

FIGURE 6.10

- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Proposed Cable Sealing End Compound
 - Local authority districts
 - Viewshed Dedham Vale West CSE Compound
 - View to the base of the CSE compound
 - View to the mid height of the gantries in the CSE compound
 - View of the top of the gantries in the CSE compound
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area

Note: The indicative ZTV's illustrated in this figure are based on the proposed indicative gantries of the CSE compound elements of the project only. This is because the gantries are the tallest components of the proposed CSE compound. The CSE compound gantry locations and heights used to generate the ZTV are based on an indicative design and are subject to change



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Drawing Title **ZTV of Dedham Vale West Cable Sealing End (CSE) Compound**

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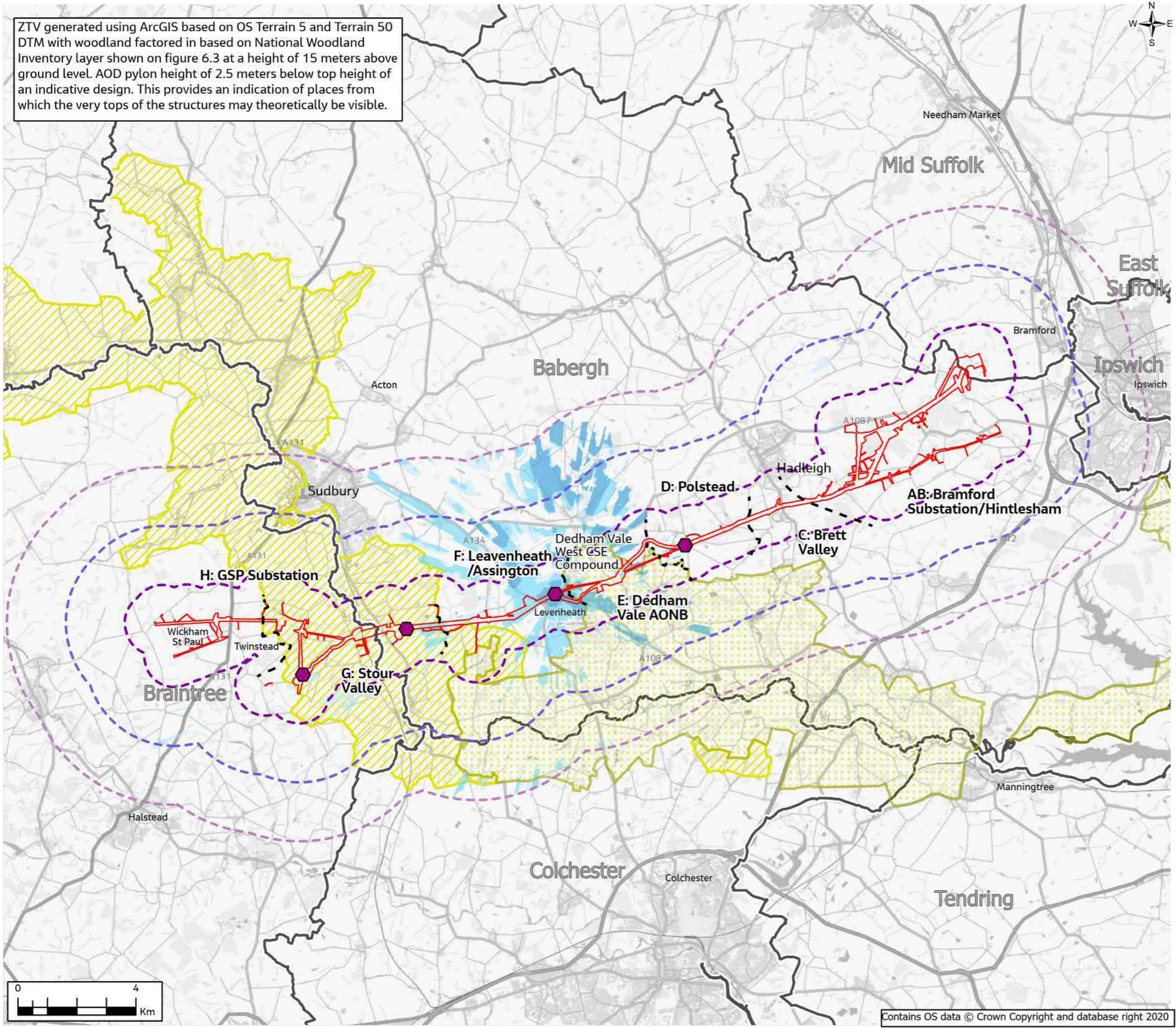
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Scale @ A3 **1:125,000** **DO NOT SCALE**

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ZTV generated using ArcGIS based on OS Terrain 5 and Terrain 50 DTM with woodland factored in based on National Woodland Inventory layer shown on figure 6.3 at a height of 15 meters above ground level. AOD pylon height of 2.5 meters below top height of an indicative design. This provides an indication of places from which the very tops of the structures may theoretically be visible.



FIGURE 6.11

- Legend**
- Section Boundaries
 - Draft Order Limits
 - Local authority districts
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Proposed Cable Sealing End Compound
- Viewshed Stour Valley East CSE Compound**
- View to the base of the CSE compound
 - View to the mid height of the gantries in the CSE compound
 - View of the top of the gantries in the CSE compound
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area

Note: The indicative ZTVs illustrated in this figure are based on the proposed indicative gantries of the CSE compound elements of the project only. This is because the gantries are the tallest components of the proposed CSE compound. The CSE compound gantry locations and heights used to generate the ZTV are based on an indicative design and are subject to change



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Drawing Title **ZTV of Stour Valley East Cable Sealing End (CSE) Compound**

Page 1 of 1

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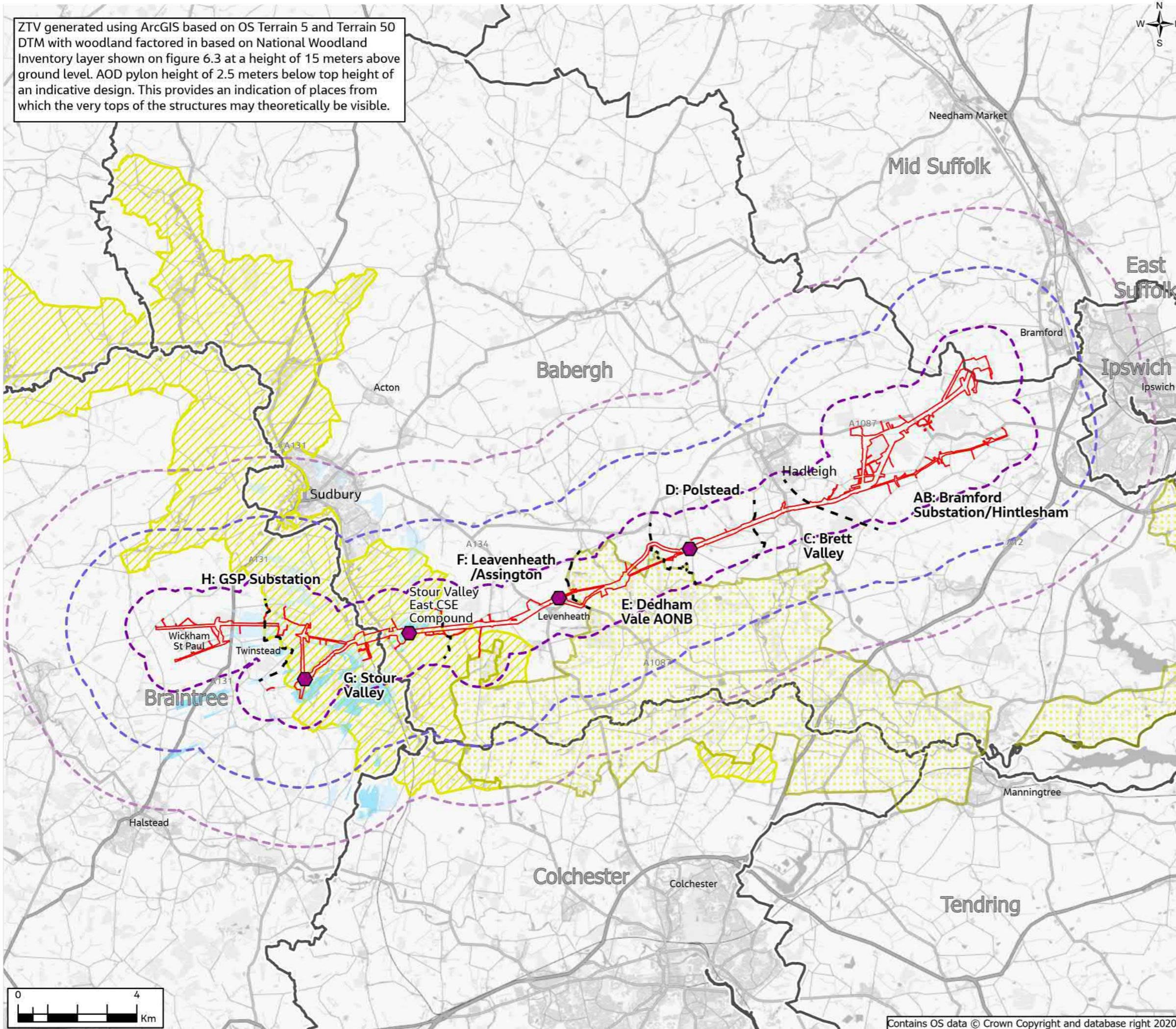
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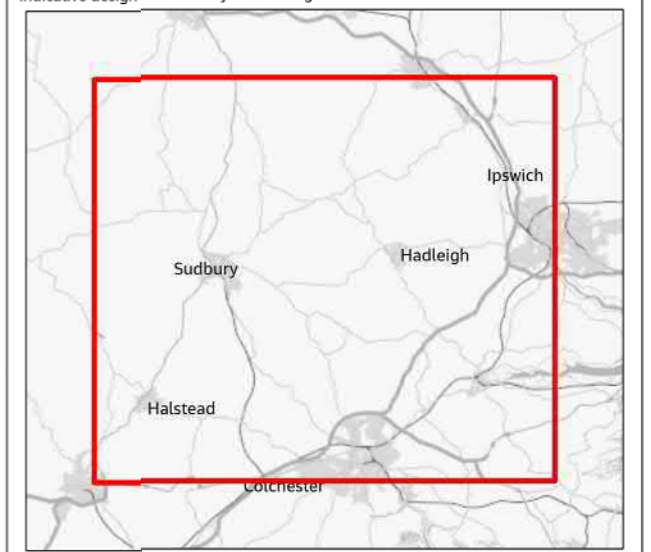
ZTV generated using ArcGIS based on OS Terrain 5 and Terrain 50 DTM with woodland factored in based on National Woodland Inventory layer shown on figure 6.3 at a height of 15 meters above ground level. AOD pylon height of 2.5 meters below top height of an indicative design. This provides an indication of places from which the very tops of the structures may theoretically be visible.



FIGURE 6.12

- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Proposed Cable Sealing End Compound
 - Local authority districts
 - Viewshed Stour Valley West CSE Compound**
 - View to the base of the CSE compound
 - View to the mid height of the gantries in the CSE compound
 - View of the top of the gantries in the CSE compound
 - Dedham Vale Area of Outstanding Natural Beauty
 - Stour Valley Project Area

Note: The indicative ZTVs illustrated in this figure are based on the proposed indicative gantries of the CSE compound elements of the project only. This is because the gantries are the tallest components of the proposed CSE compound. The CSE compound gantry locations and heights used to generate the ZTV are based on an indicative design and are subject to change



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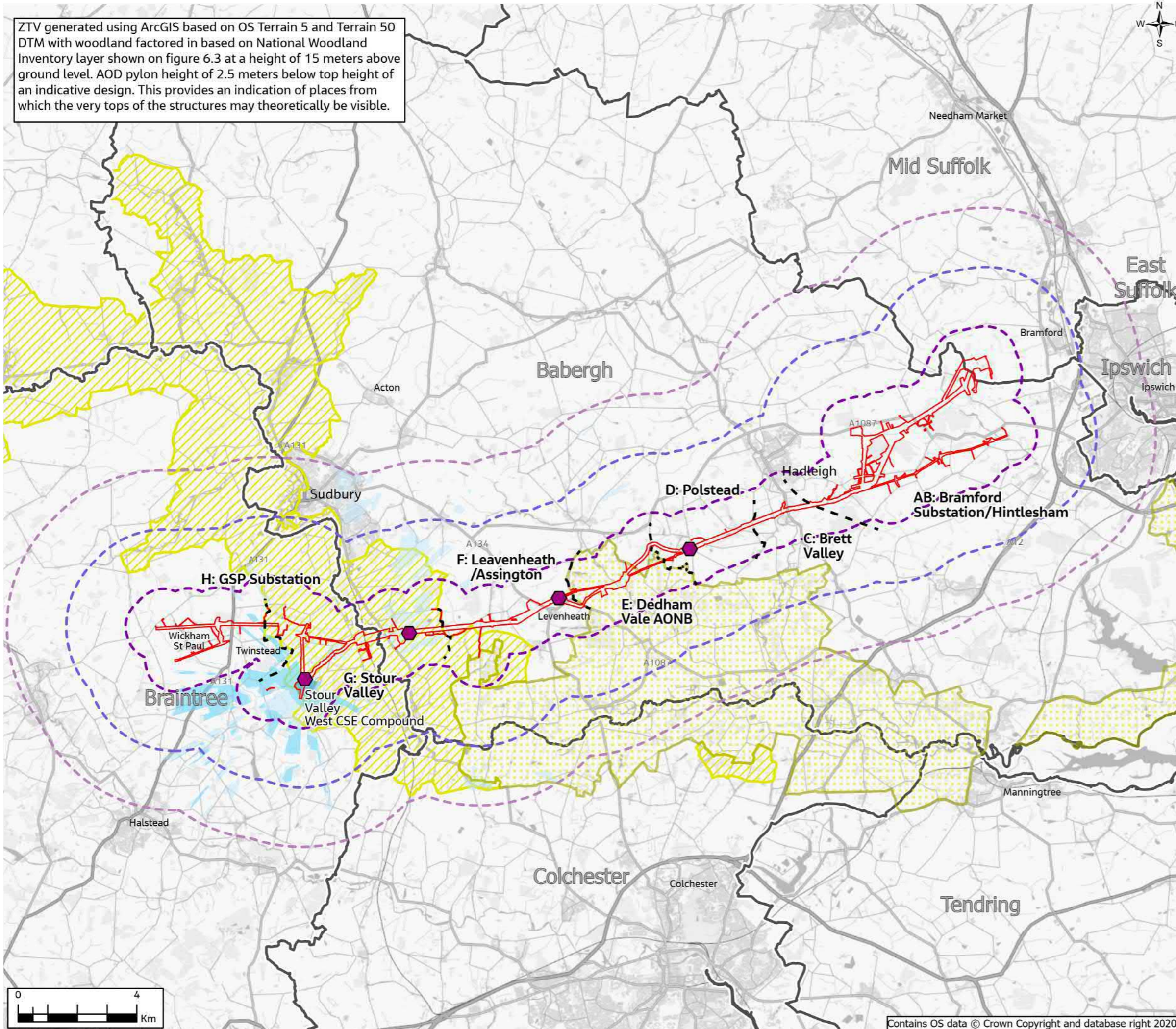
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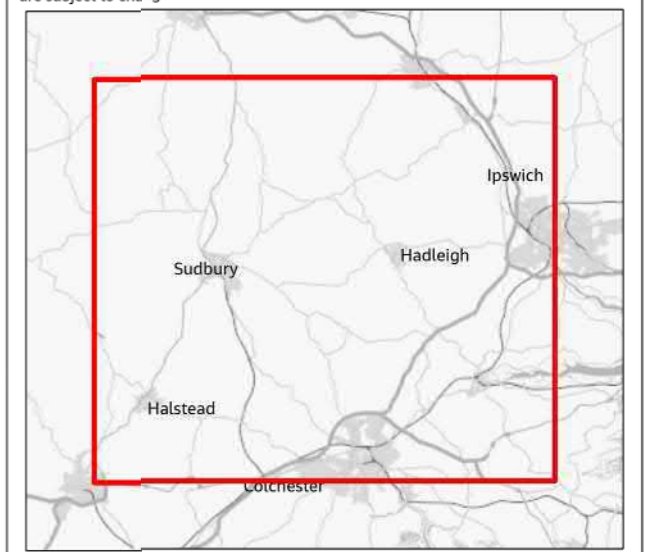
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FIGURE 6.13

- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (5km)
 - Distance Marker (3km)
 - Distance Marker (1km)
 - Proposed Cable Sealing End Compound
 - Local authority districts
 - Viewshed GSP Substation**
 - View to the base of the GSP Substation
 - View to the mid height of the gantries in the GSP Substation
 - View of the top of the gantries in the GSP Substation
 - ▨ Stour Valley Project Area
 - ▨ Dedham Vale Area of Outstanding Natural Beauty

Note: The indicative ZTVs illustrated in this figure are based on the proposed indicative gantries of the GSP Substation element of the project only. This is because the gantries are the tallest components of the proposed GSP Substation. The GSP Substation gantry locations and heights used to generate the ZTV are based on an indicative design and are subject to change



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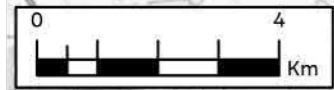
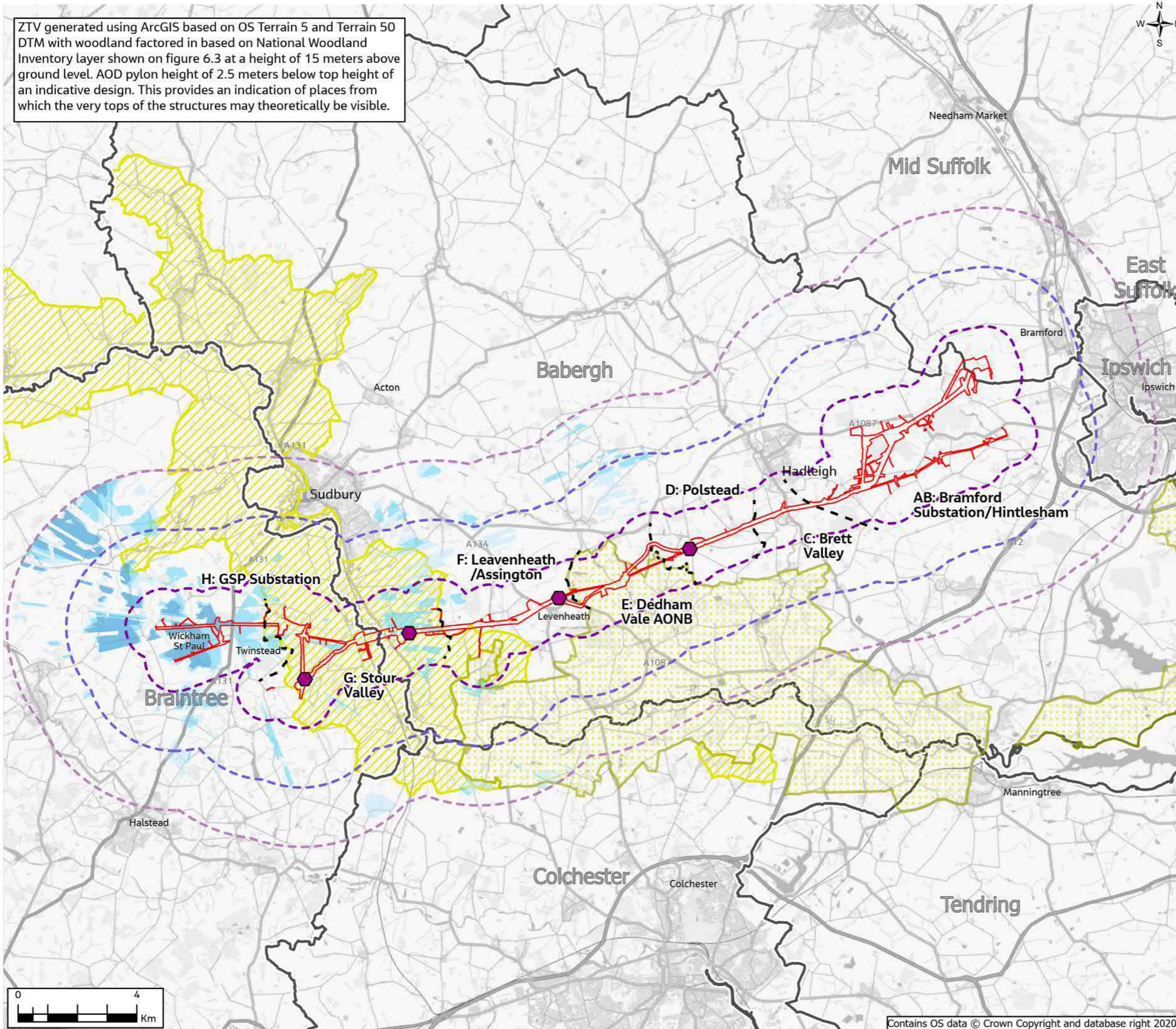
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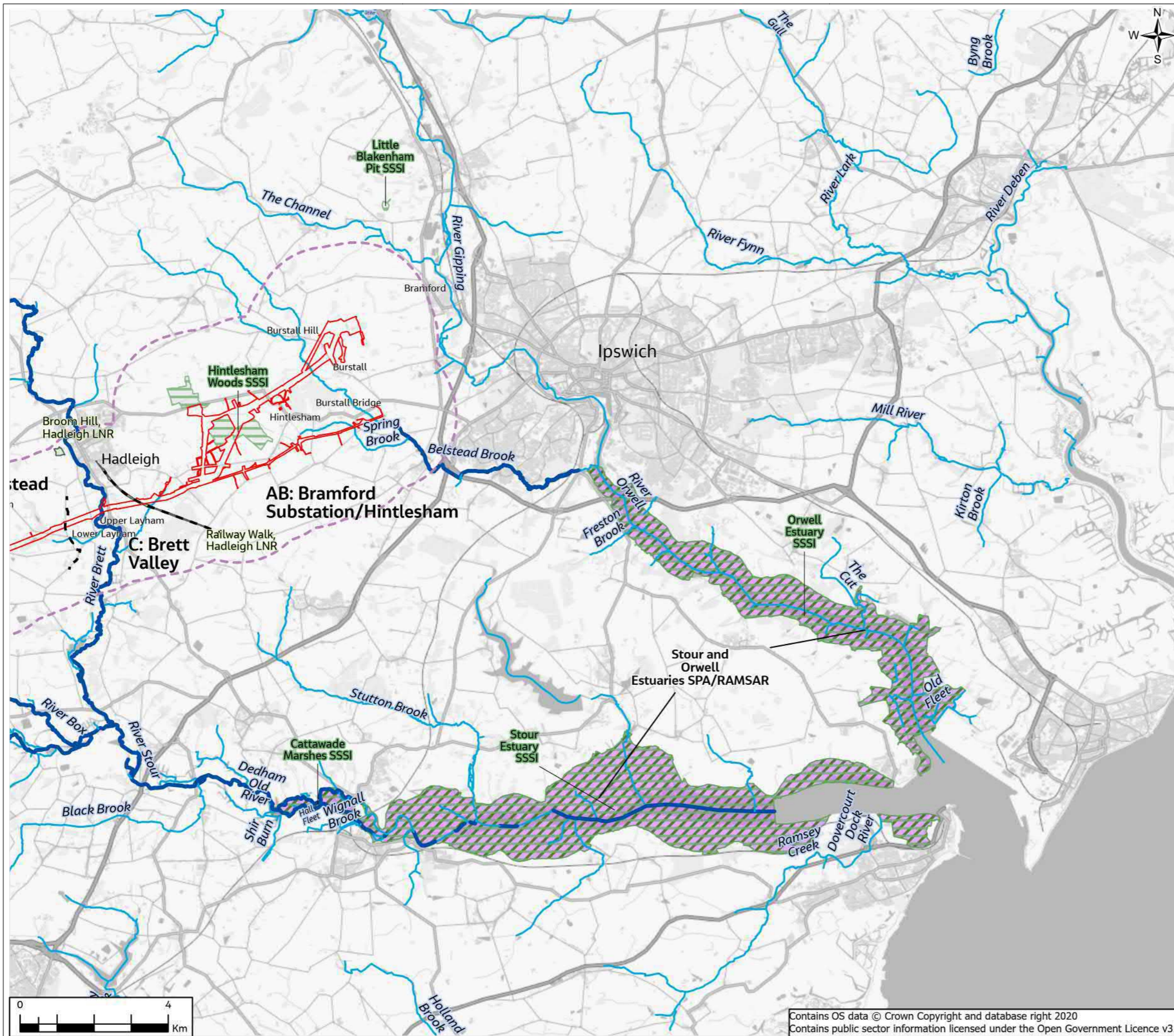
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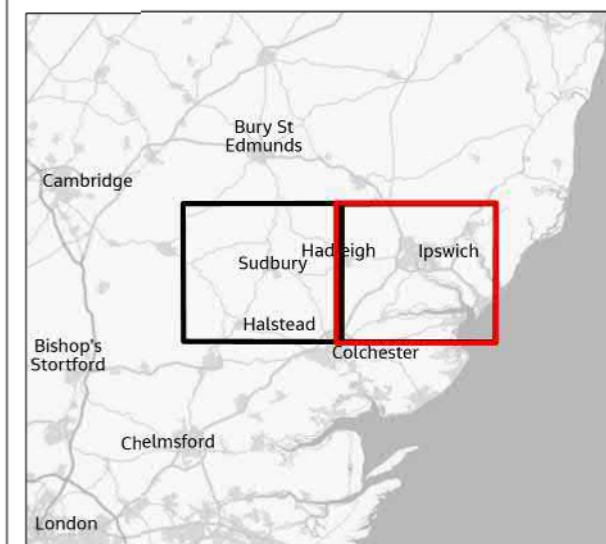
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FIGURE 7.1



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (2km)
 - Main Rivers
 - Ordinary Watercourses
 - ▭ Special Protection Areas (SPA)
 - ▨ Wetlands of International Importance (RAMSARs)
 - ▭ Site of Special Scientific Interest (SSSI)
 - ▭ Local Nature Reserve (LNR)

Statutory designated sites shown where these lie within the 2km study area or a potential impact pathway has been identified beyond 2km.



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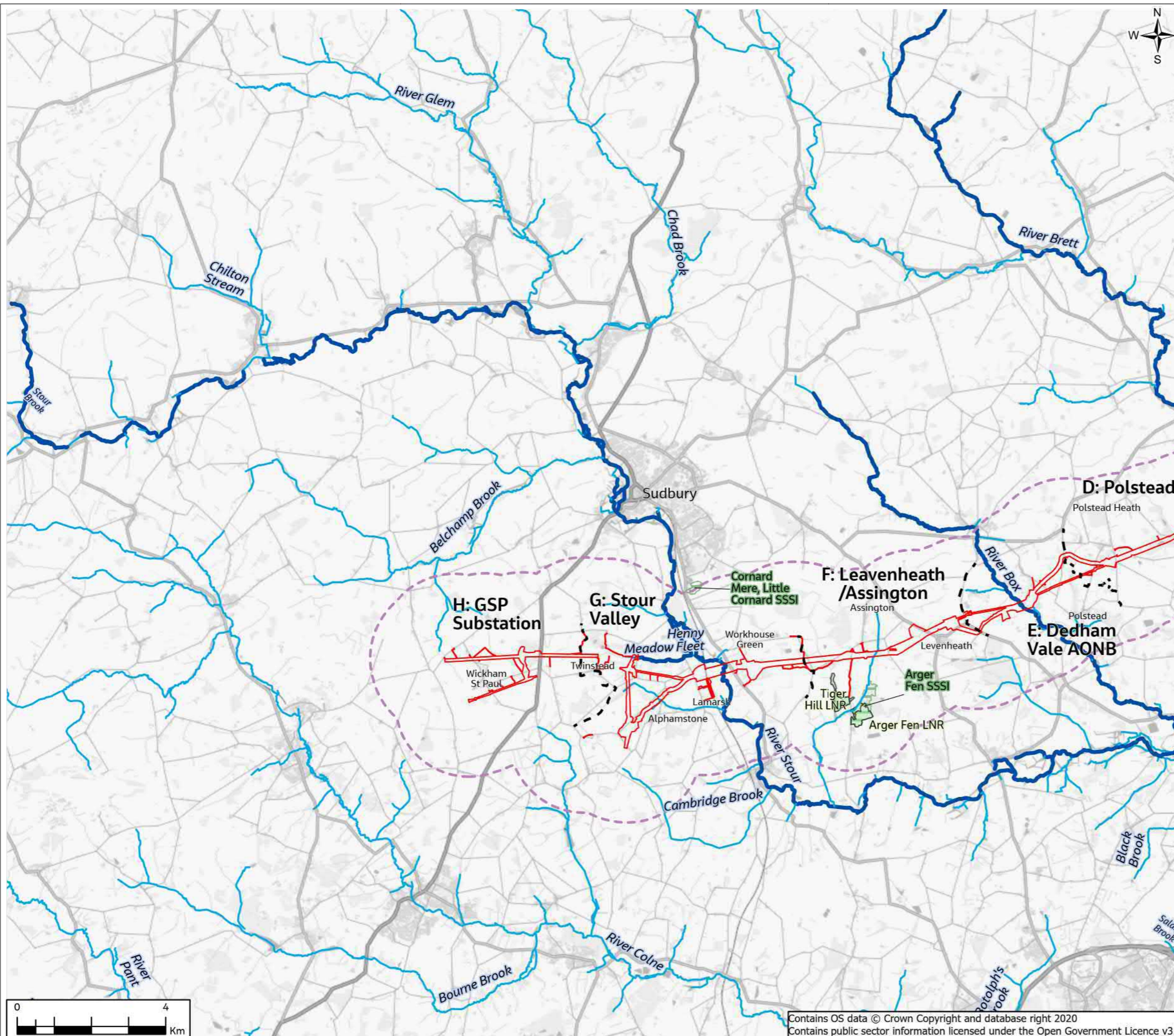
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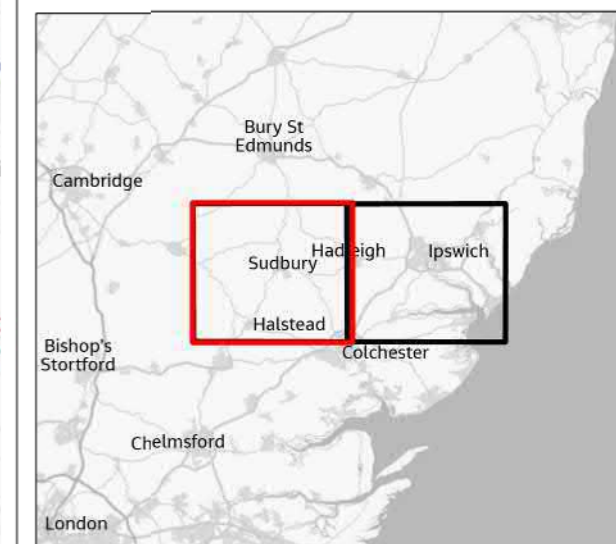
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FIGURE 7.1



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (2km)
 - Main Rivers
 - Ordinary Watercourses
 - Special Protection Areas (SPA)
 - ▨ Wetlands of International Importance (RAMSARs)
 - ▨ Site of Special Scientific Interest (SSSI)
 - ▨ Local Nature Reserve (LNR)

Statutory designated sites shown where these lie within the 2km study area or a potential impact pathway has been identified beyond 2km.



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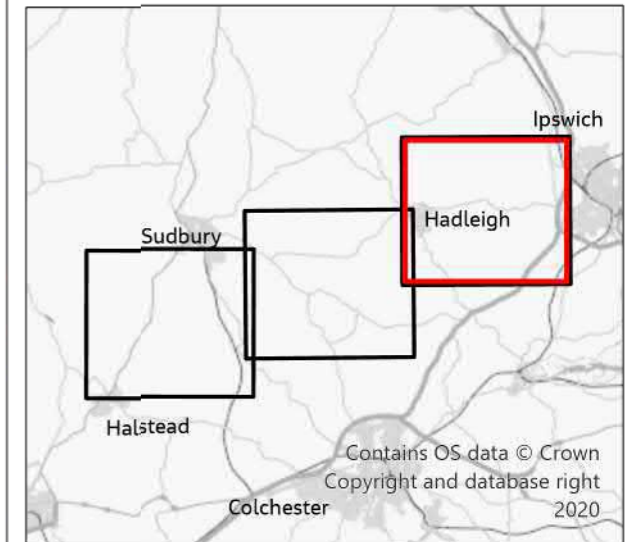
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FIGURE 7.2

- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - Local Wildlife Site (LWS)
 - County Wildlife Site (CWS)
 - Roadside Nature Reserve (RNR)
 - Essex Wildlife Trust (EWT) Nature Reserves
 - Suffolk Wildlife Trust (SWT) Nature Reserves

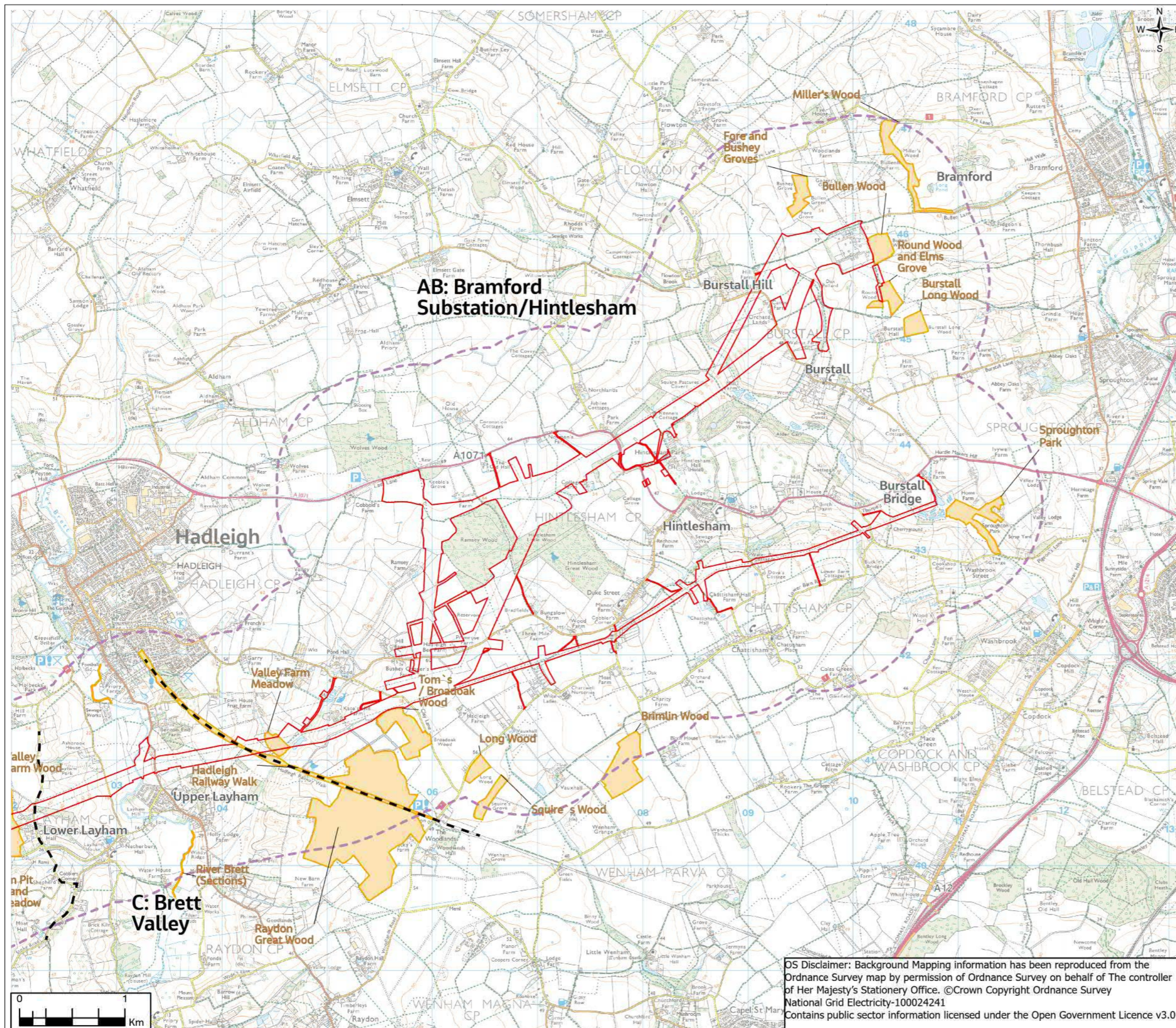


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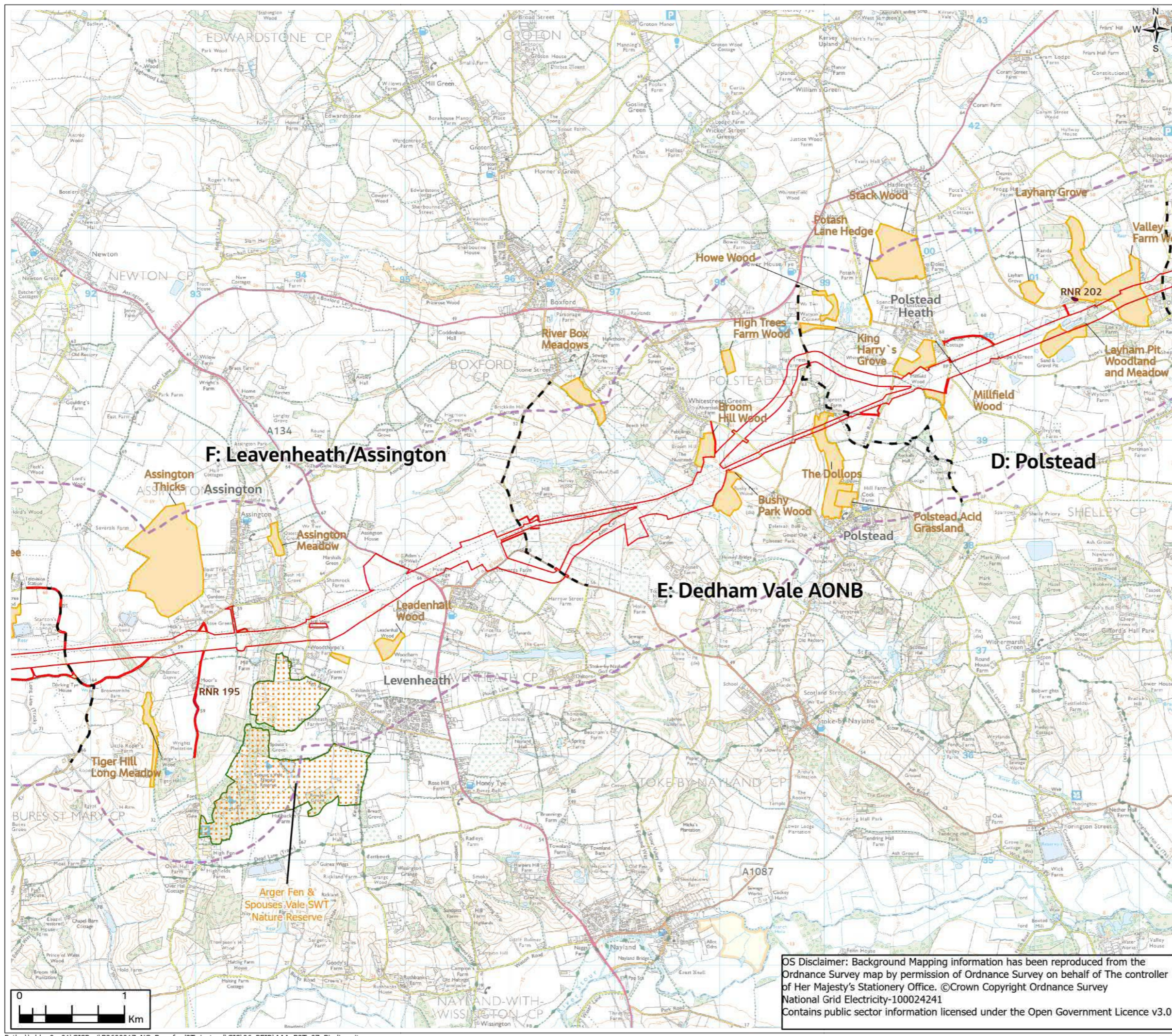
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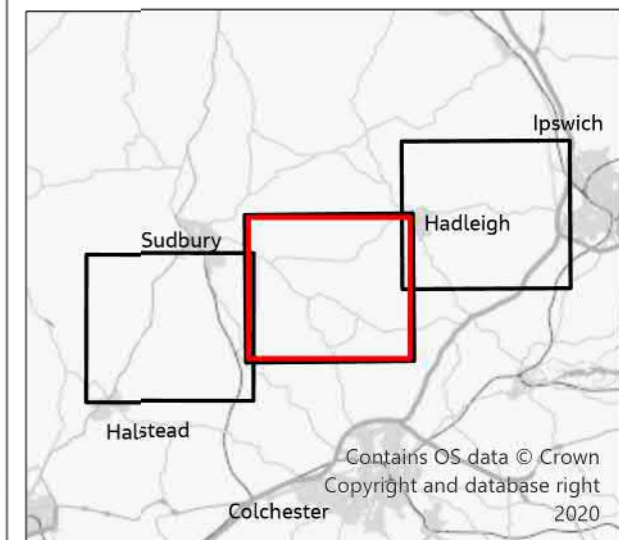


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FIGURE 7.2



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - ▭ Local Wildlife Site (LWS)
 - ▭ County Wildlife Site (CWS)
 - ▭ Roadside Nature Reserve (RNR)
 - ▭ Essex Wildlife Trust (EWT) Nature Reserves
 - ▭ Suffolk Wildlife Trust (SWT) Nature Reserves



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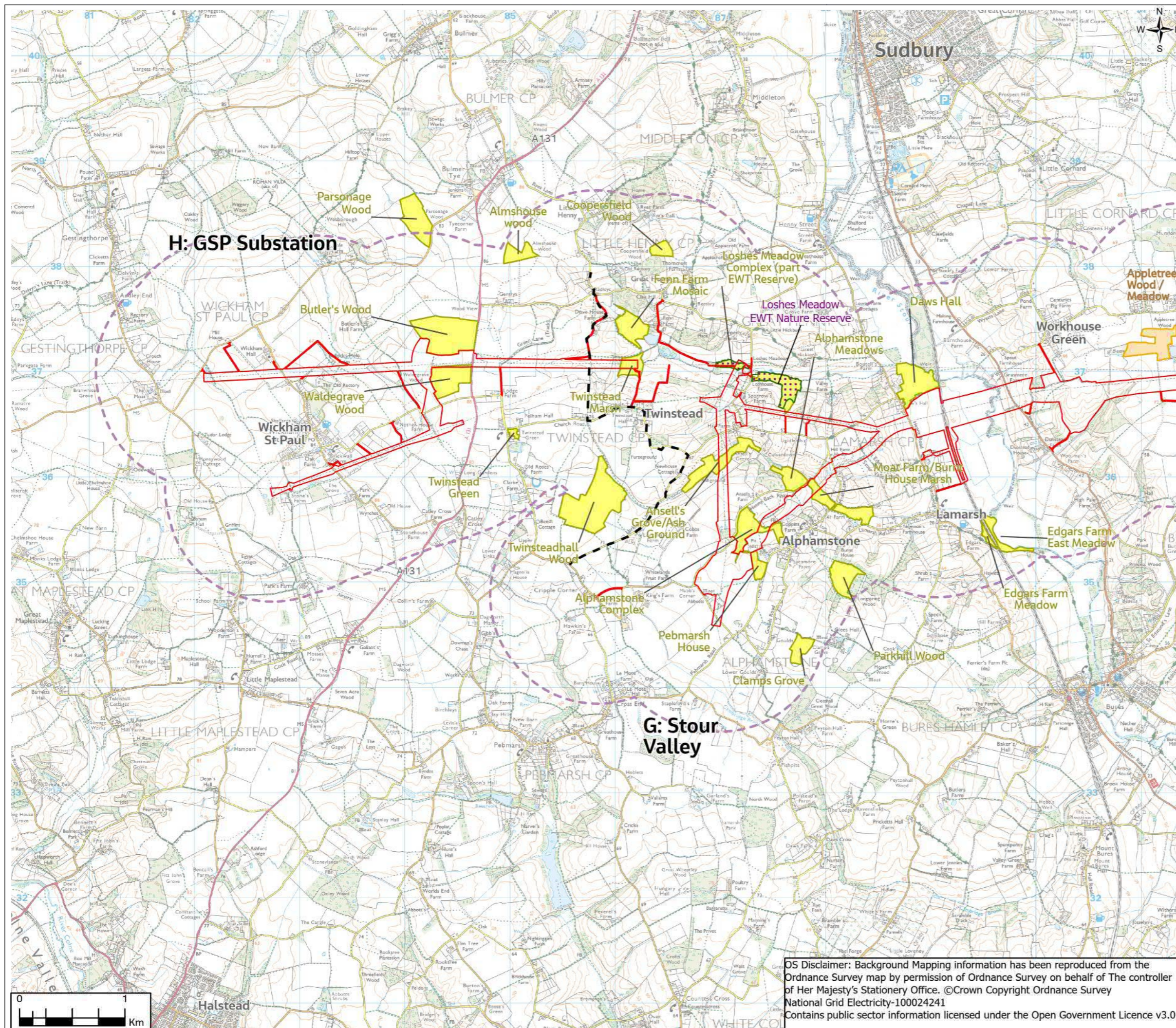
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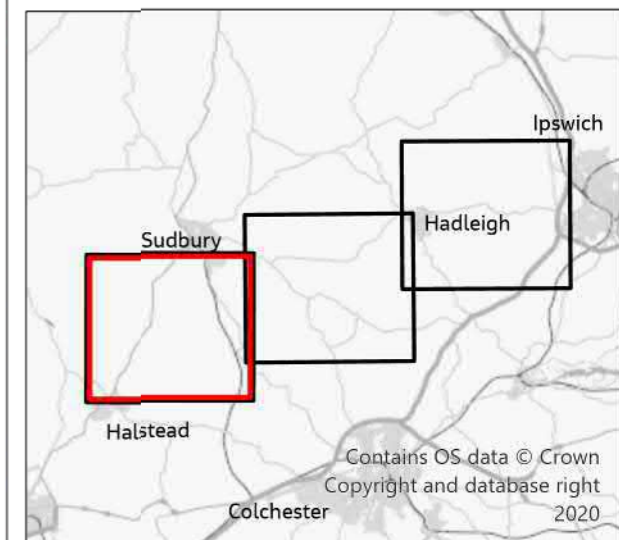
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FIGURE 7.2



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - - - Study Area (1km)
 - ▭ Local Wildlife Site (LWS)
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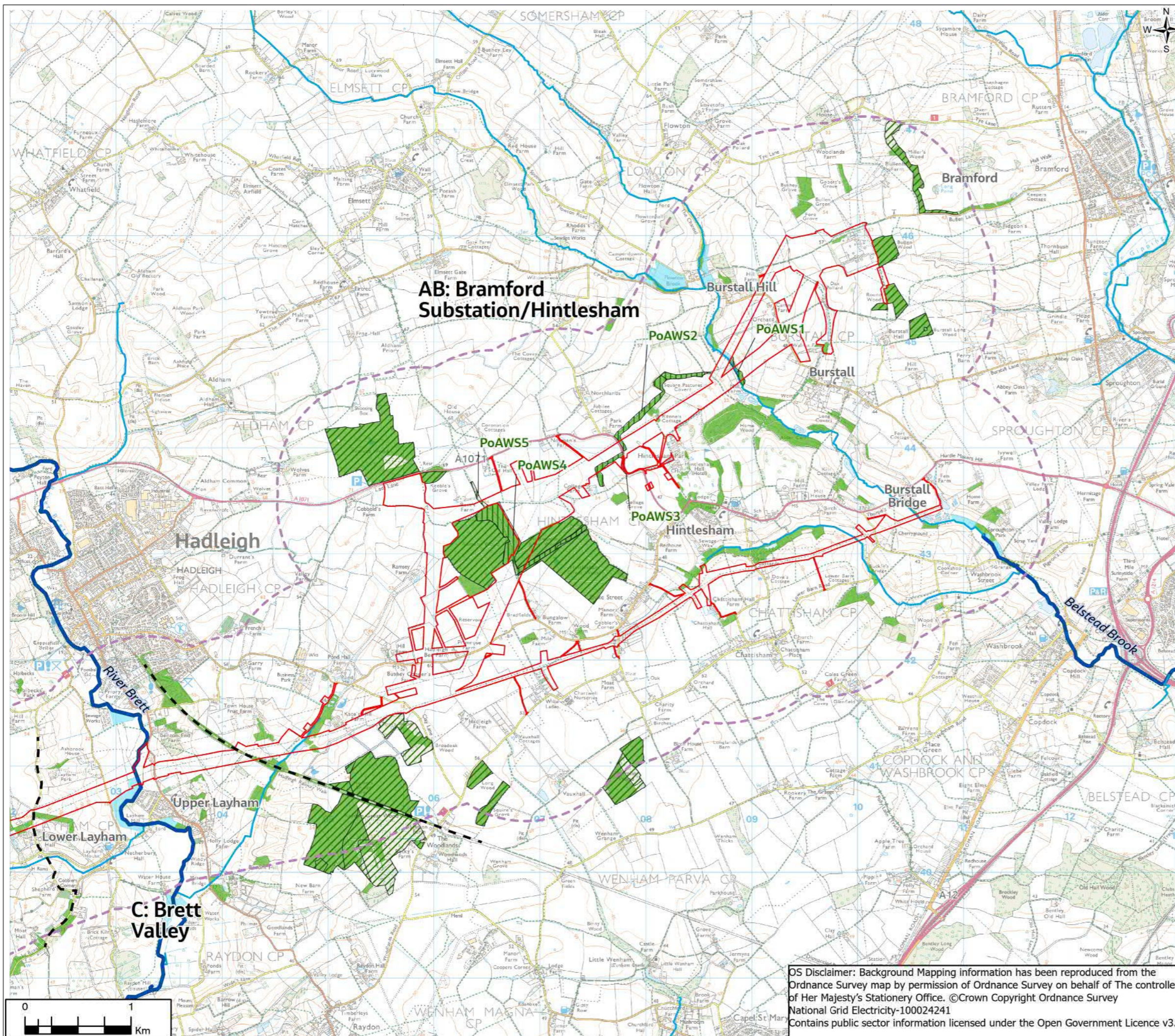
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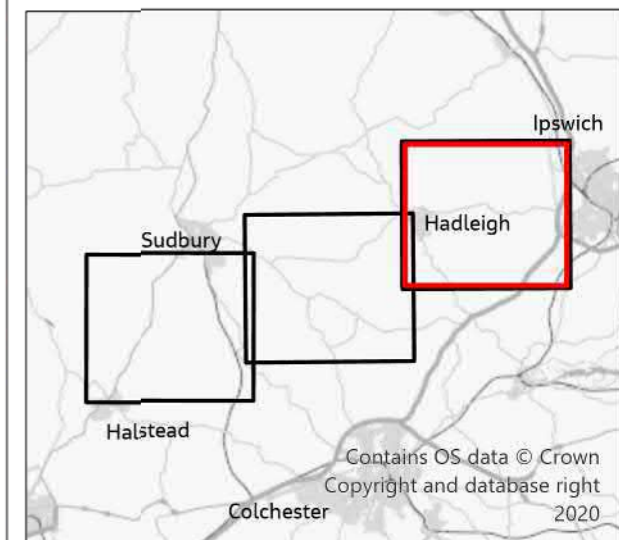
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FIGURE 7.3



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - ▬ Main Rivers
 - ▬ Ordinary Watercourses
 - ▨ Ancient Woodland Inventory Site
 - ▨ Potential Ancient Woodland (PoAWS)
- Priority Habitat Inventory**
- ▨ Coastal and Floodplain Grazing Marsh
 - ▨ Lowland Calcerous Grassland
 - ▨ Deciduous Woodland
 - ▨ Traditional Orchard



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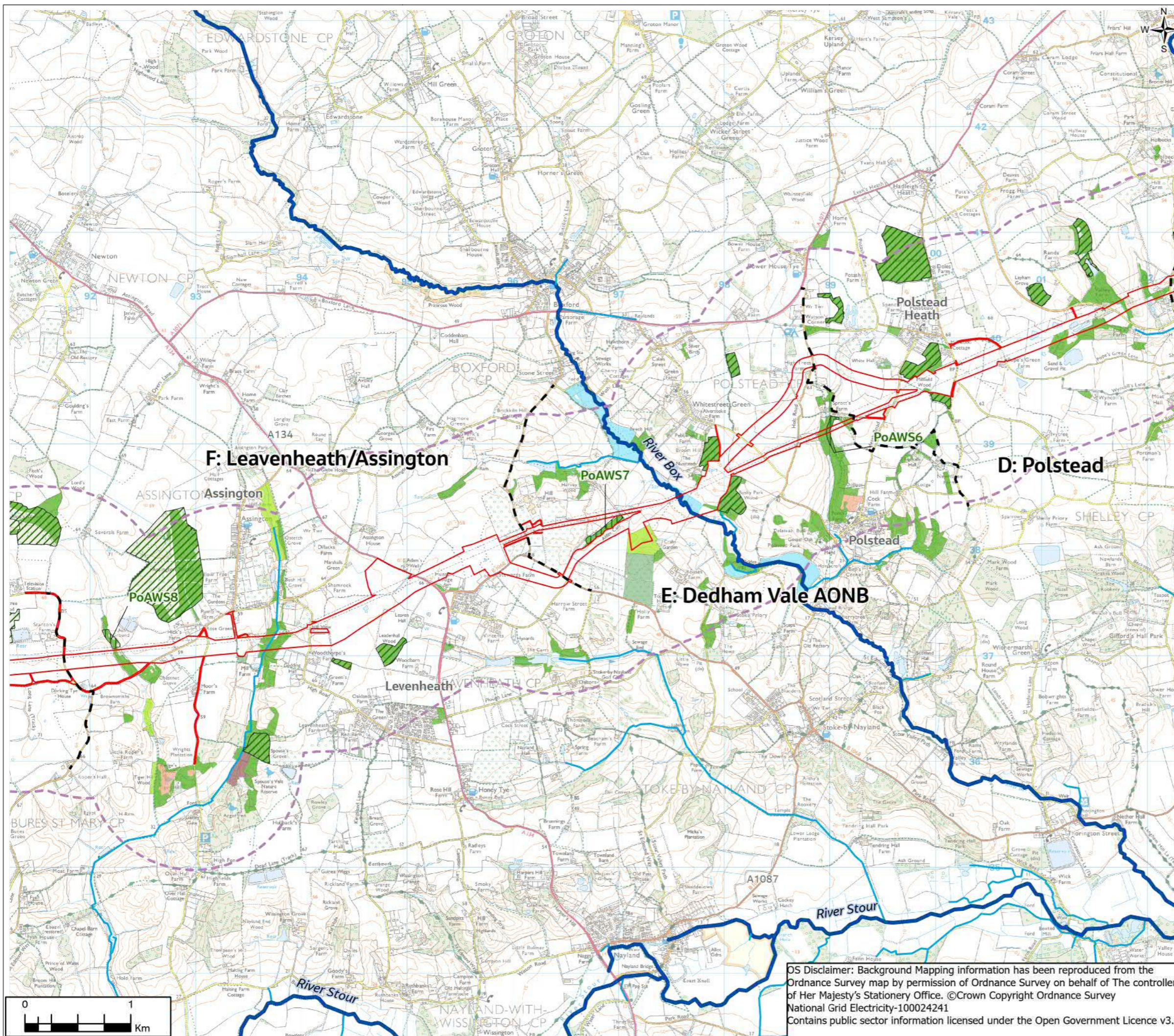
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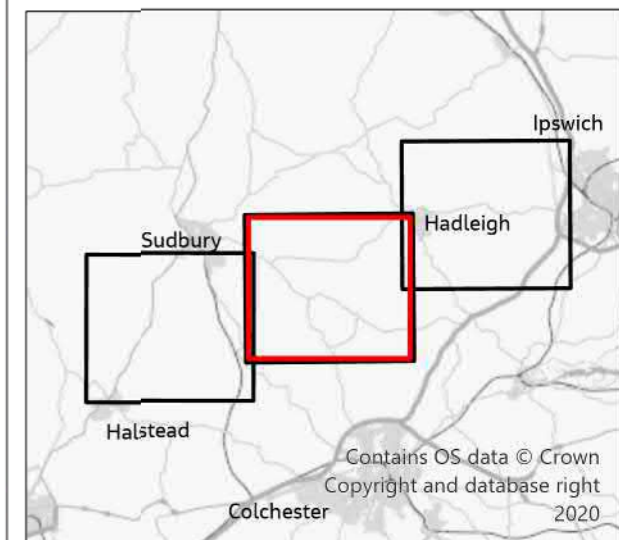
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FIGURE 7.3



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - ▬ Main Rivers
 - ▬ Ordinary Watercourses
 - ▨ Ancient Woodland Inventory Site
 - ▨ Potential Ancient Woodland (PoAWS)
- Priority Habitat Inventory**
- ▭ Coastal and Floodplain Grazing Marsh
 - ▭ Lowland Dry Acid Grassland
 - ▭ Lowland Meadows
 - ▭ Lowland Fens
 - ▭ Deciduous Woodland
 - ▭ Traditional Orchard



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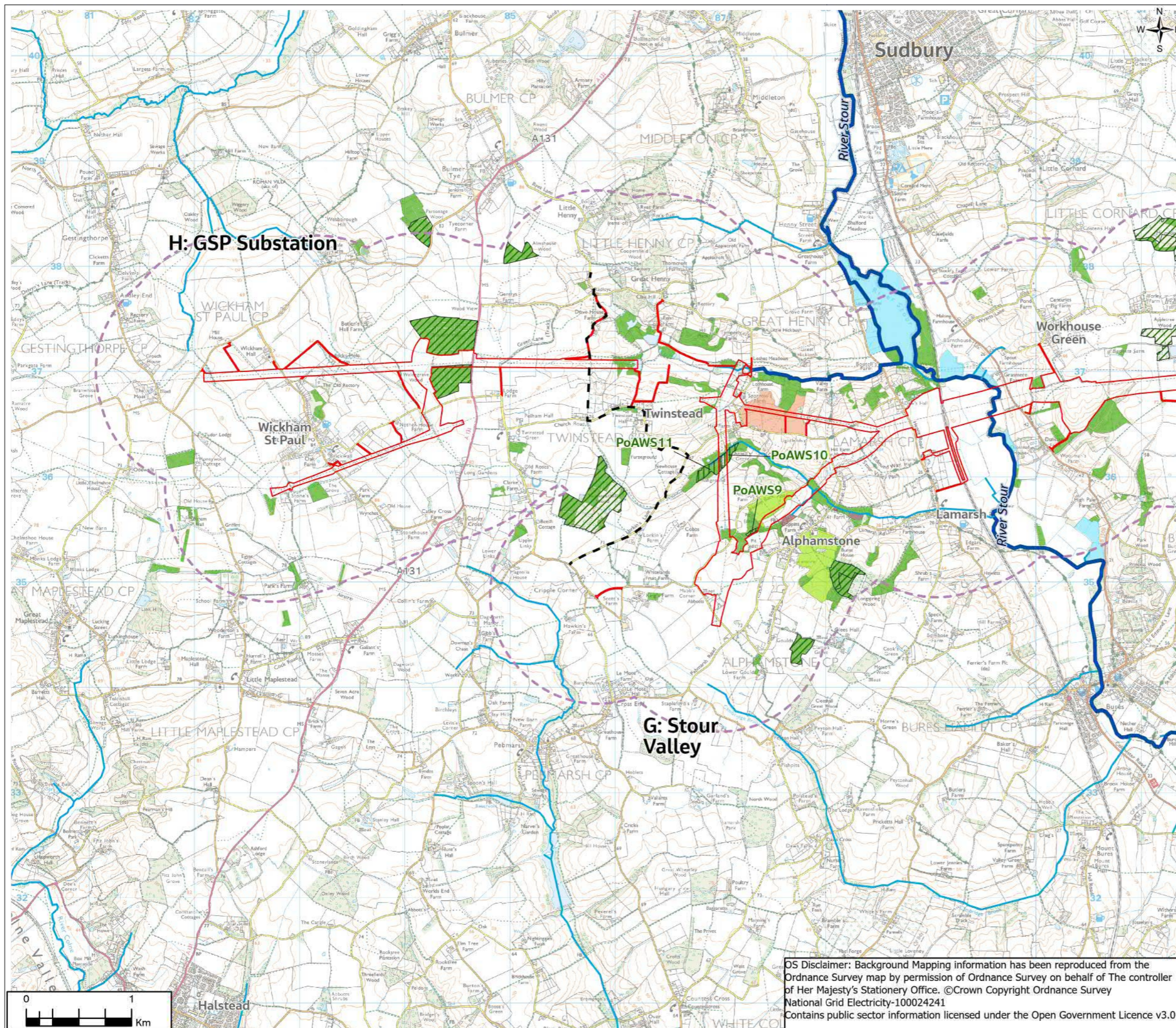
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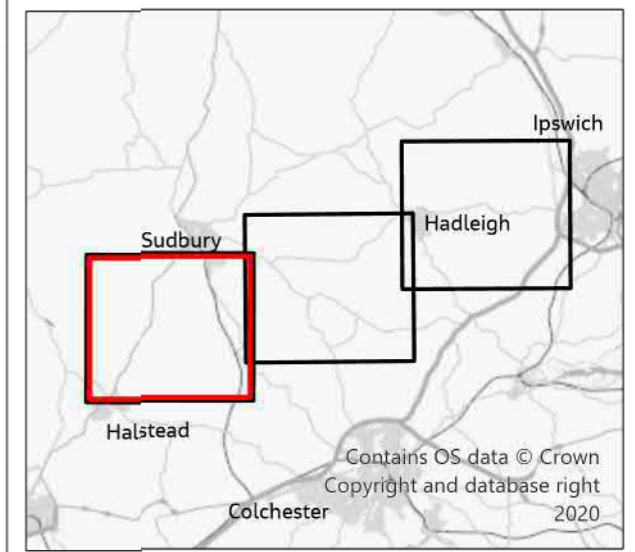
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FIGURE 7.3



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - Main Rivers
 - Ordinary Watercourses
 - ▨ Ancient Woodland Inventory Site
 - ▨ Potential Ancient Woodland (PoAWS)
- Priority Habitat Inventory**
- ▭ Coastal and Floodplain Grazing Marsh
 - ▭ Lowland Dry Acid Grassland
 - ▭ Lowland Meadows
 - ▭ Lowland Fens
 - ▭ Deciduous Woodland
 - ▭ Traditional Orchard



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Legend - Habitat Type

	A2.2 - Scattered scrub		J2.6 - Dry ditch		B5 - Marsh/marshy grassland
	A3.1 - Scattered broad-leaved tree		A1.1.1 - Semi-natural broad-leaved woodland		B6 - Poor semi-improved grassland
	A3.2 - Scattered coniferous tree		A1.1.2 - Plantation broad-leaved woodland		C1.1 - Continuous bracken
	C1.2 - Scattered bracken		A1.2.2 - Plantation coniferous woodland		C3.1 - Tall ruderal
	Conifer Hedge		A1.3.2 - Plantation mixed woodland		E2.1 - Acid/neutral flush
	A2.1 - Scrub - dense/continuous		A2.1 - Dense/continuous scrub		F1 - Swamp
	B6 - Poor semi-improved grassland		A2.2 - Scattered scrub		G1 - Standing water
	G1 - Standing water		A3.1 - Broad-leaved parkland/scattered trees		G2 - Running Water
	G2 - Running water		A5 - Orchard		J1.1 - Arable
	J2.11 - Native species-rich intact hedge		B1.1 - Unimproved acid grassland		J1.2 - Amenity grassland
	J2.12 - Species-poor intact hedge		B1.2 - Semi-improved acid grassland		J1.3 - Ephemeral/short perennial
	J2.21 - Native species-rich defunct hedge		B2.1 - Unimproved neutral grassland		J1.4 - Introduced shrub
	J2.22 - Species-poor defunct hedge		B2.2 - Semi-improved neutral grassland		J2.2.2 - Defunct hedge - species-poor
	J2.31 - Native species-rich hedge and trees		B2.3 - Species-rich modified neutral grassland		J3.6 - Buildings
	J2.32 - Species-poor hedge and trees		B2.4 - Species-poor modified neutral grassland		J3.7 - Track
	J2.4 - Fence		B4 - Improved grassland		J4 - Bare ground

AB: Bramford Substation/Hintlesham

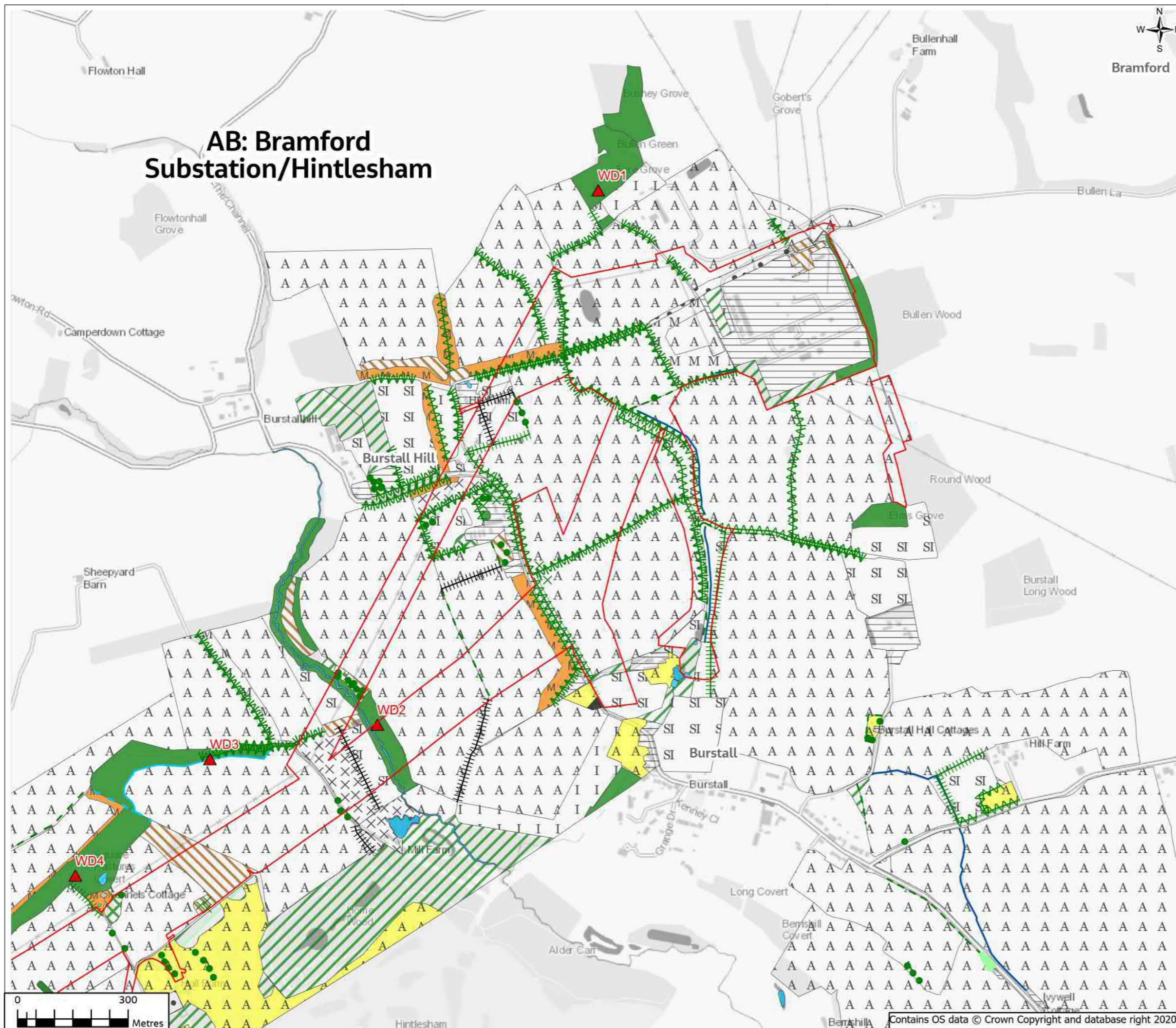
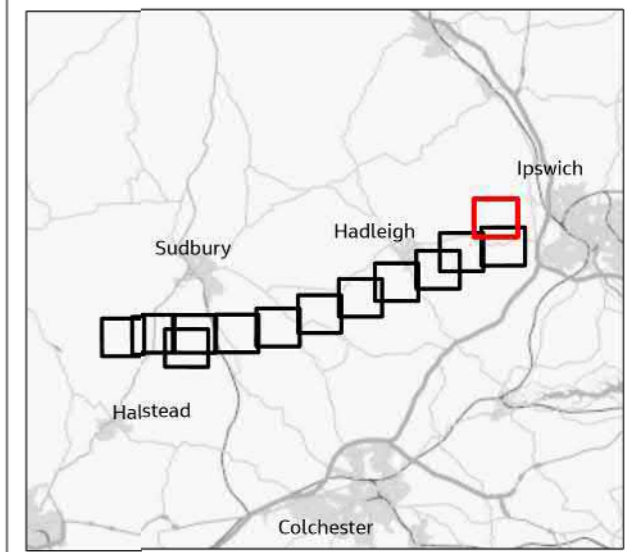


FIGURE 7.4

- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▲ Woodland National Vegetation Classification (NVC) Survey Location – 2012
 - WD Woodland NVC Reference Number
 - ▲ Grassland NVC Survey Location – 2012
 - G Grassland NVC Reference Number

For Phase 1 symbology please see first sheet



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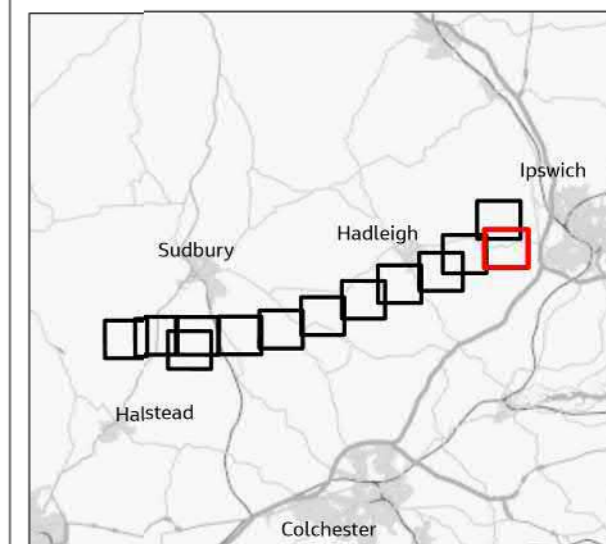


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- Legend
- Section Boundaries
 - Draft Order Limits
 - ▲ Woodland National Vegetation Classification (NVC) Survey Location – 2012
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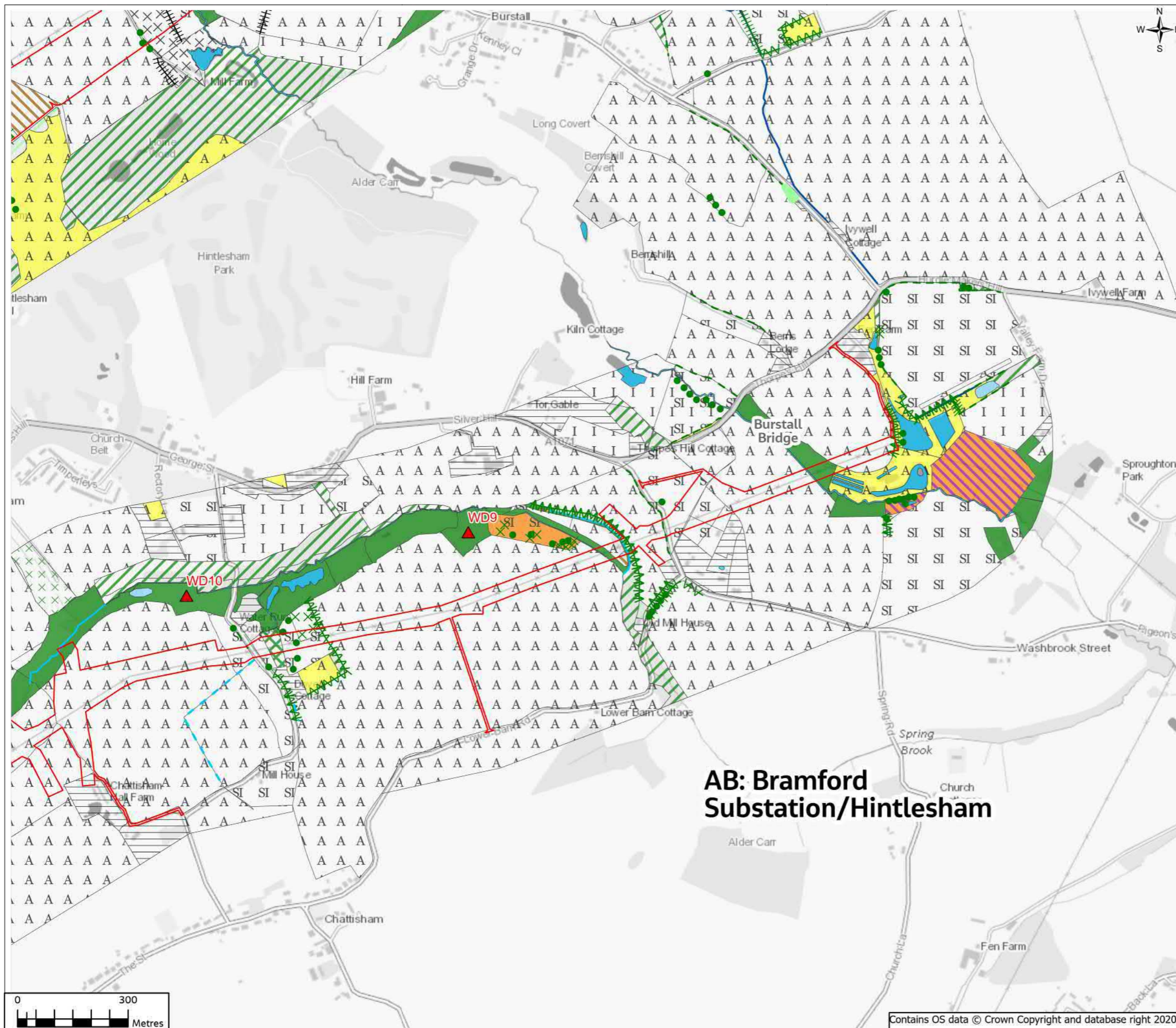
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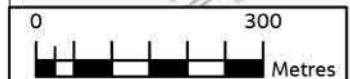
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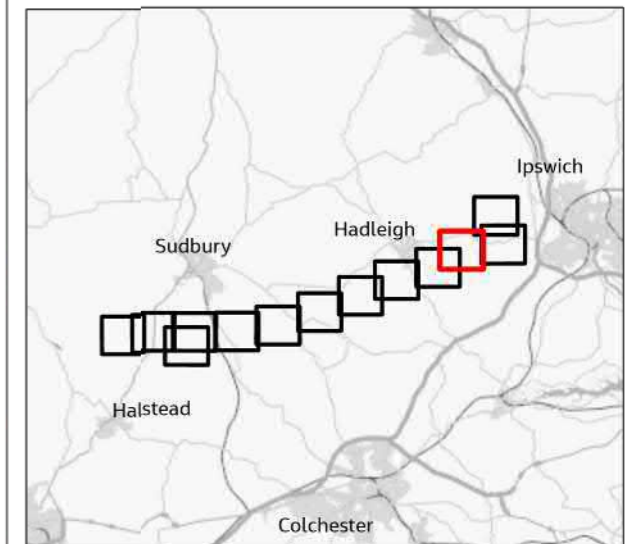


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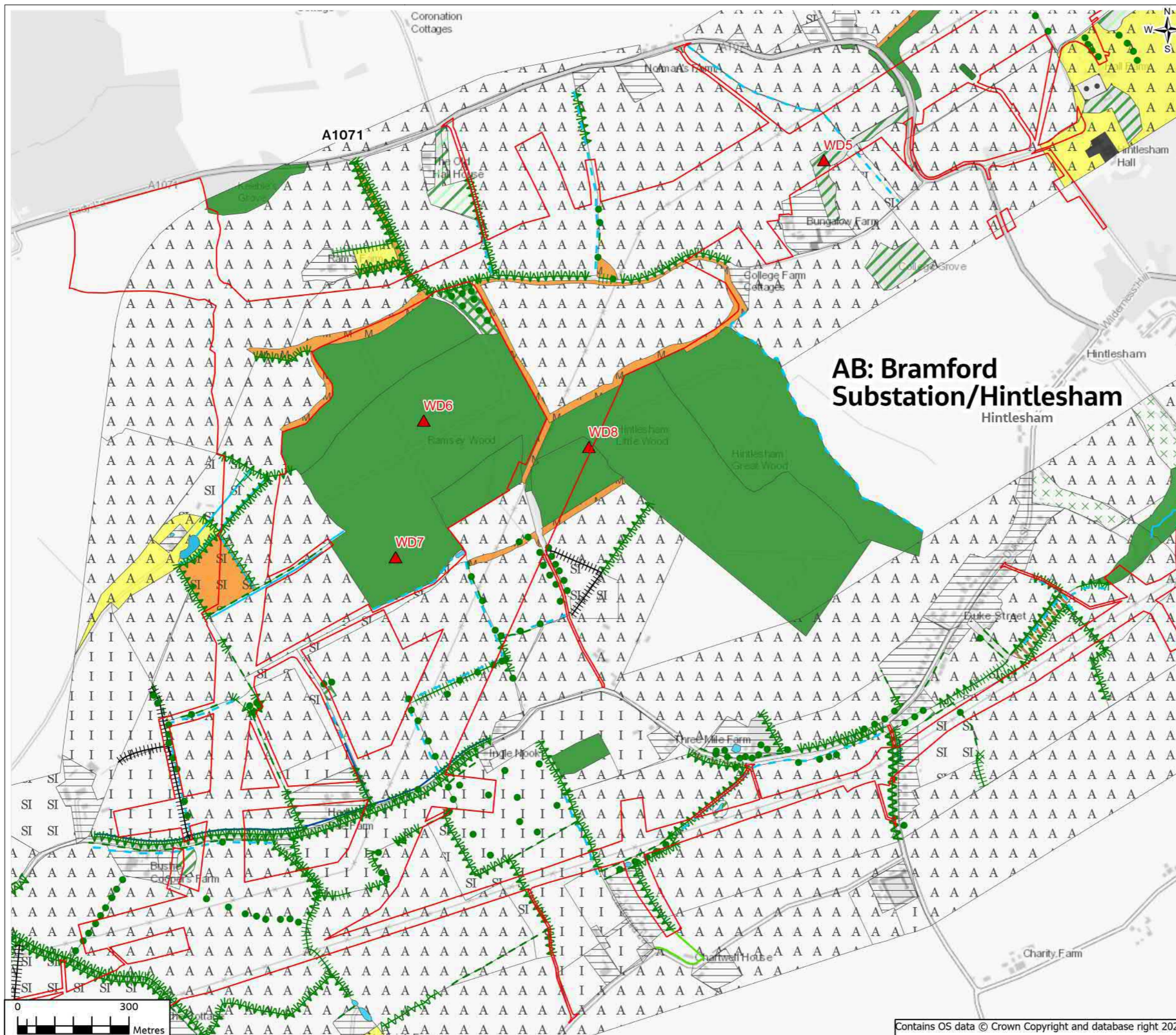
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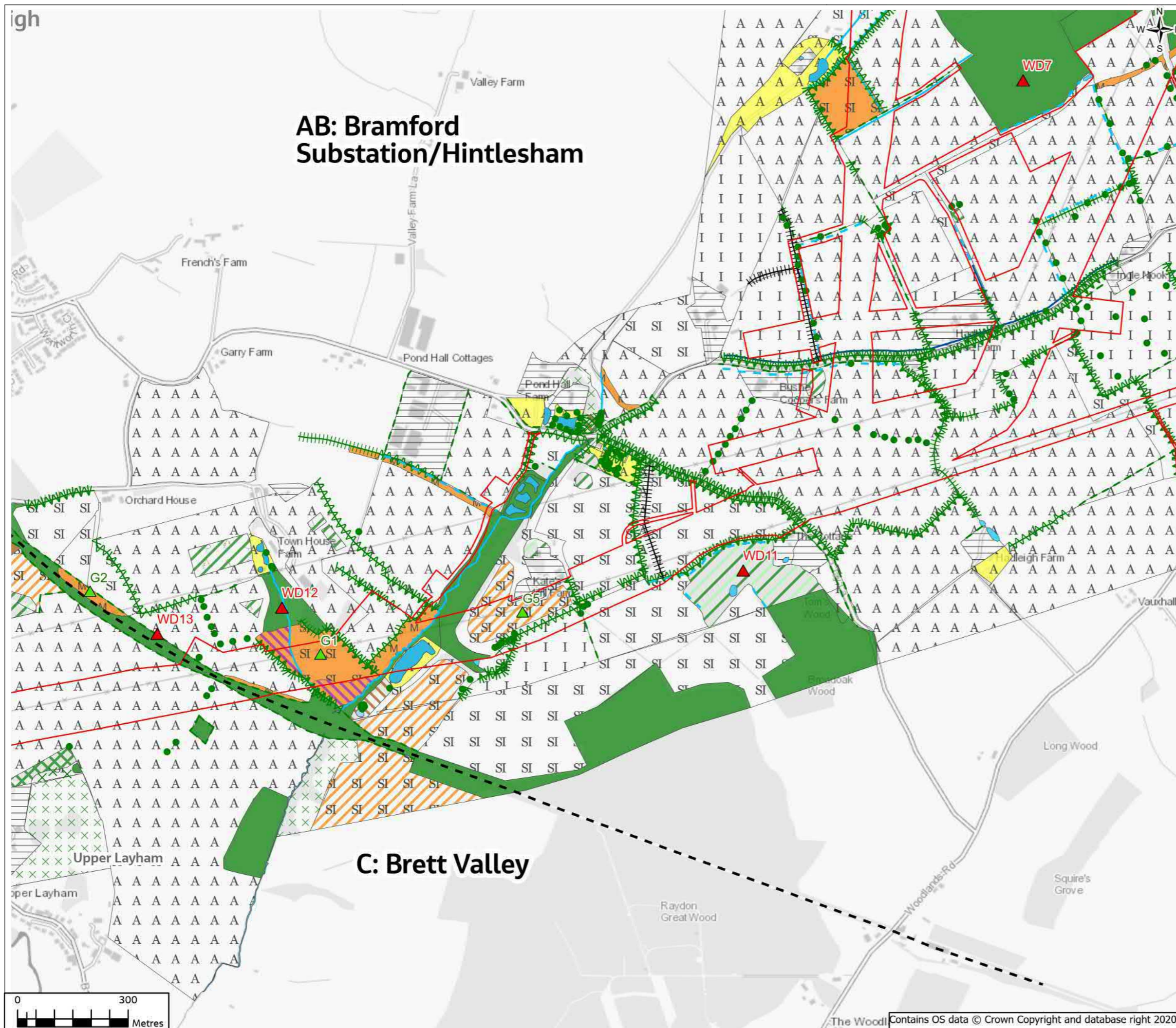
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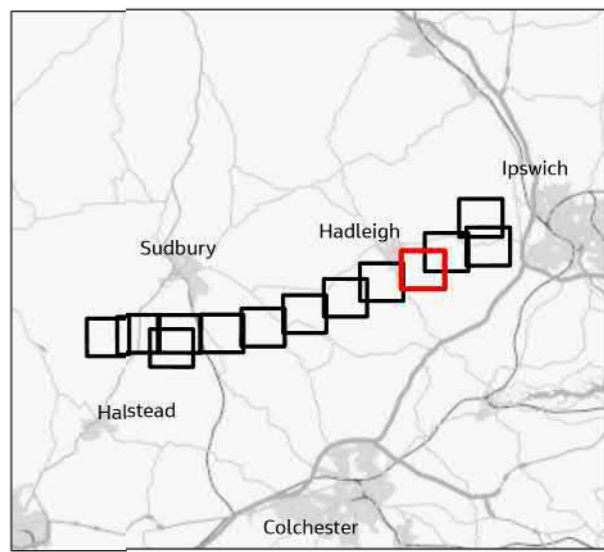
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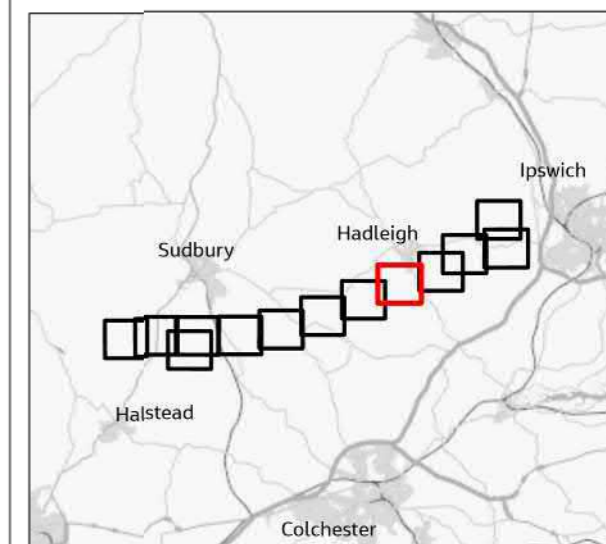
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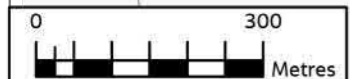
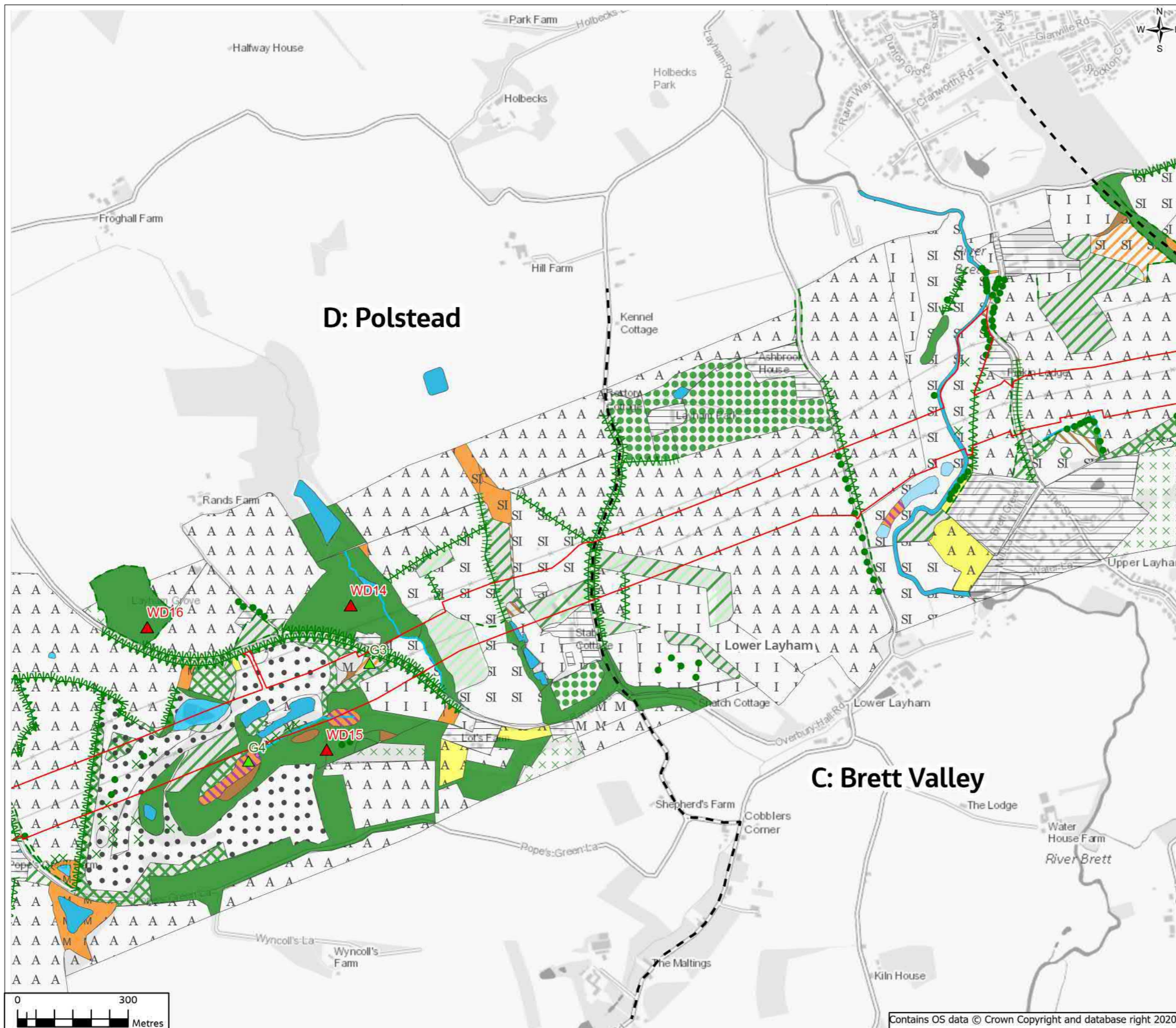
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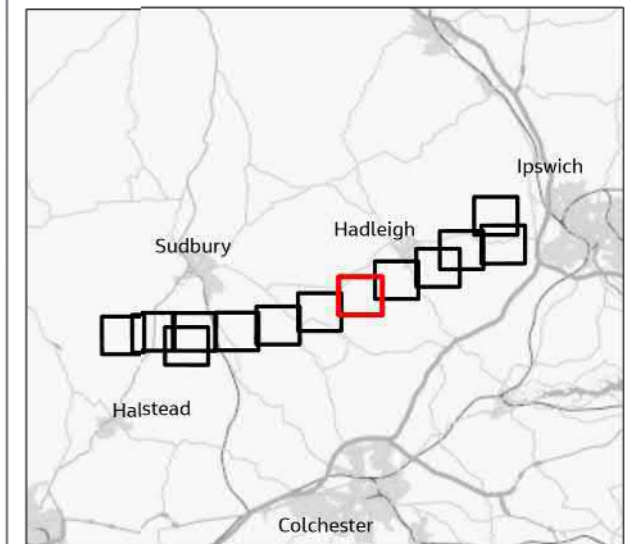


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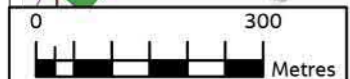
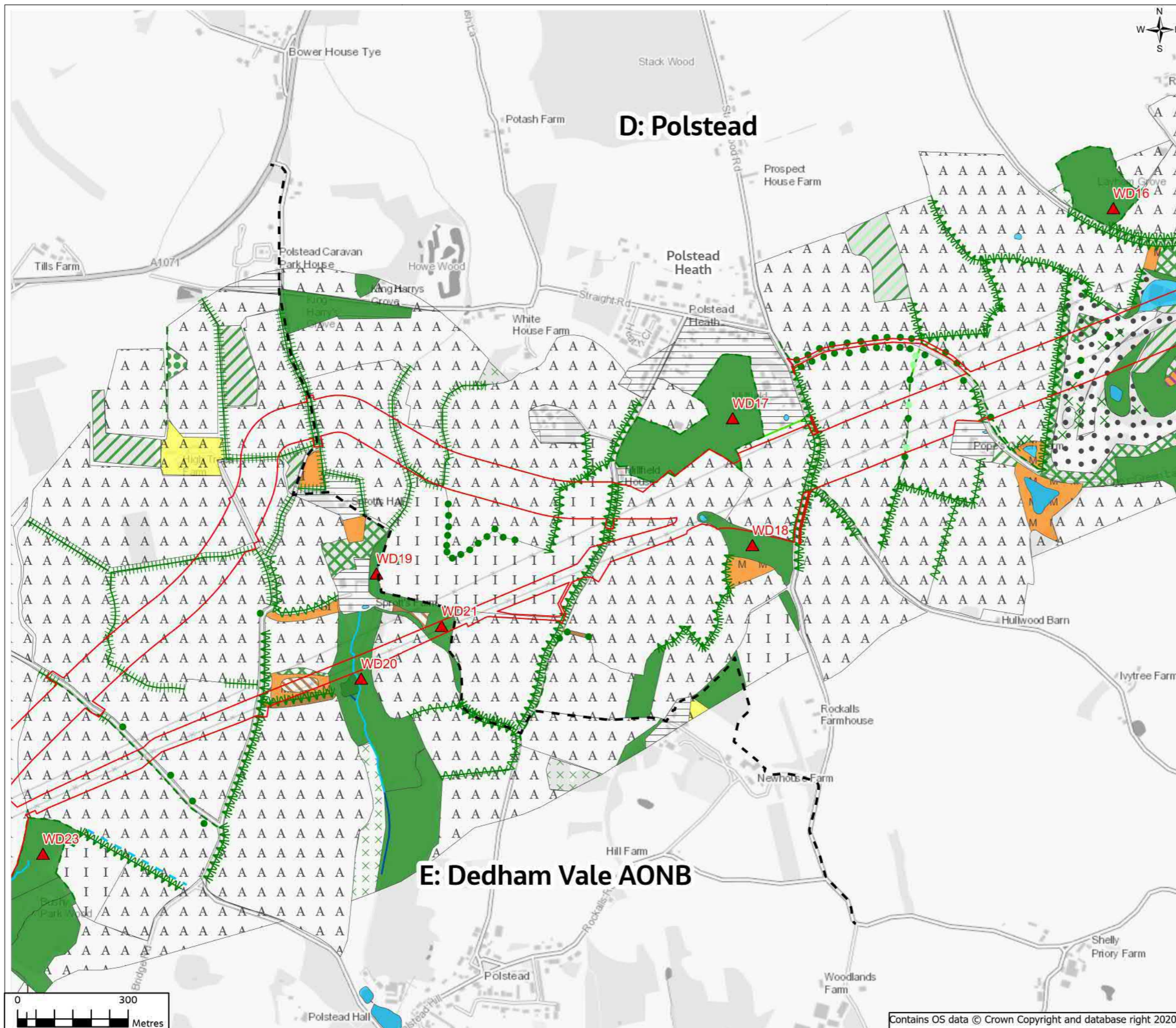
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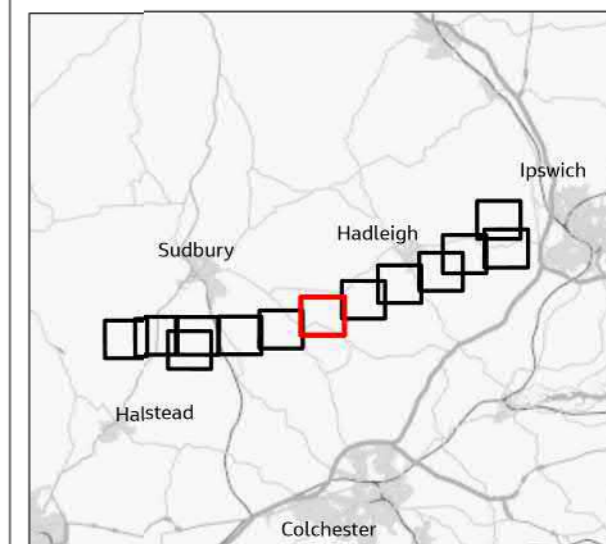


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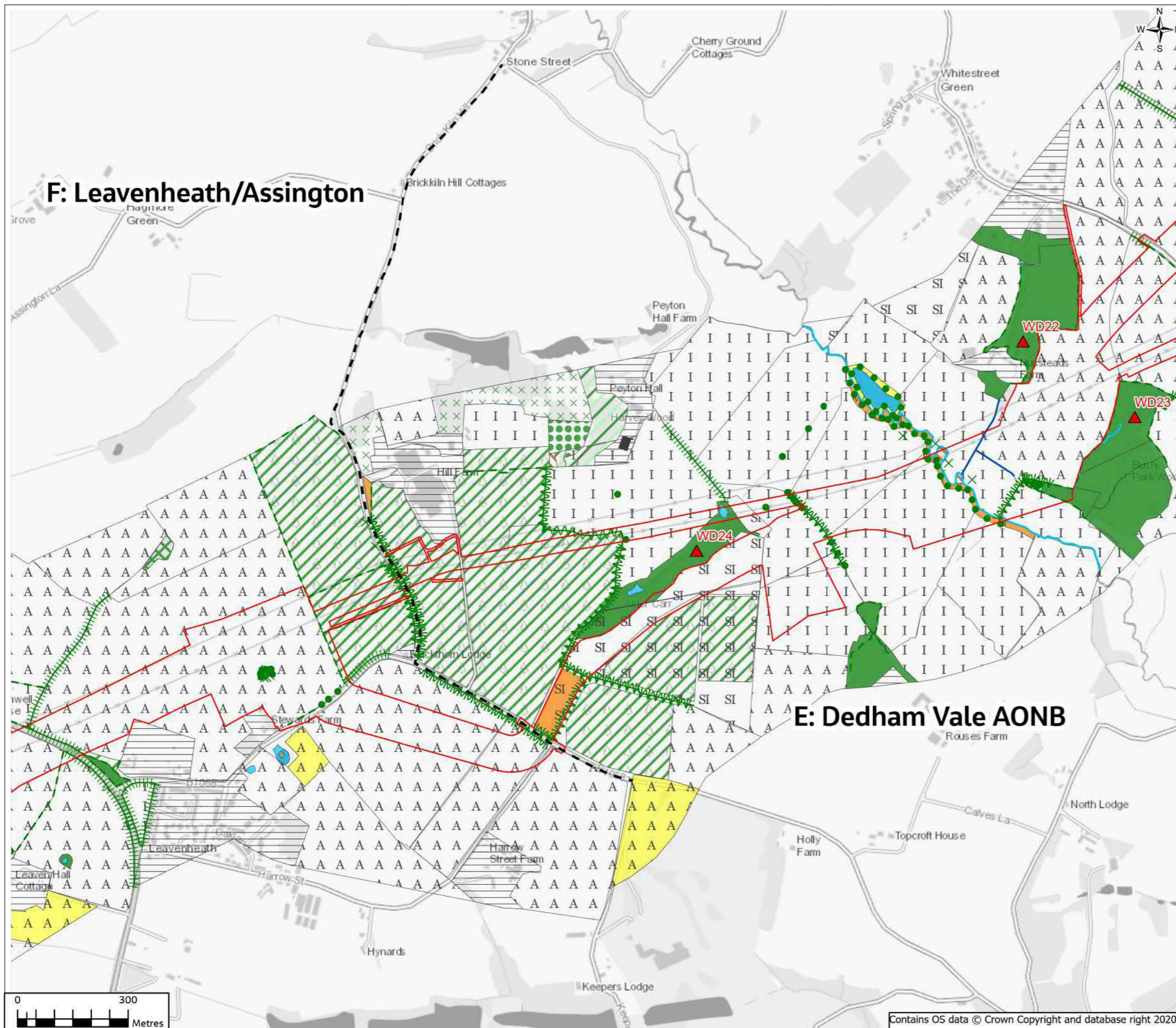
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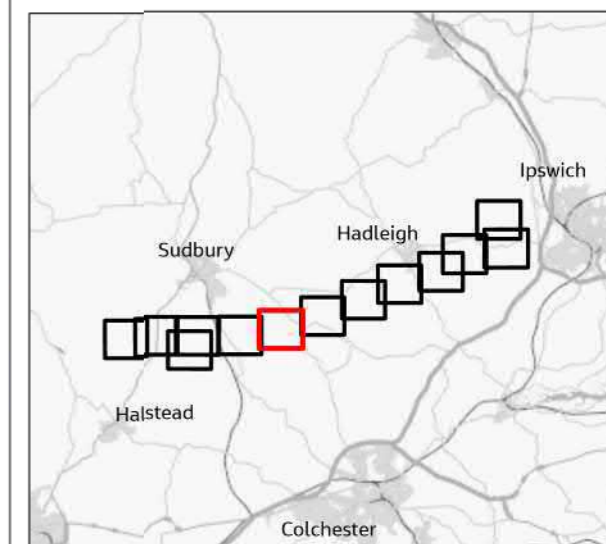


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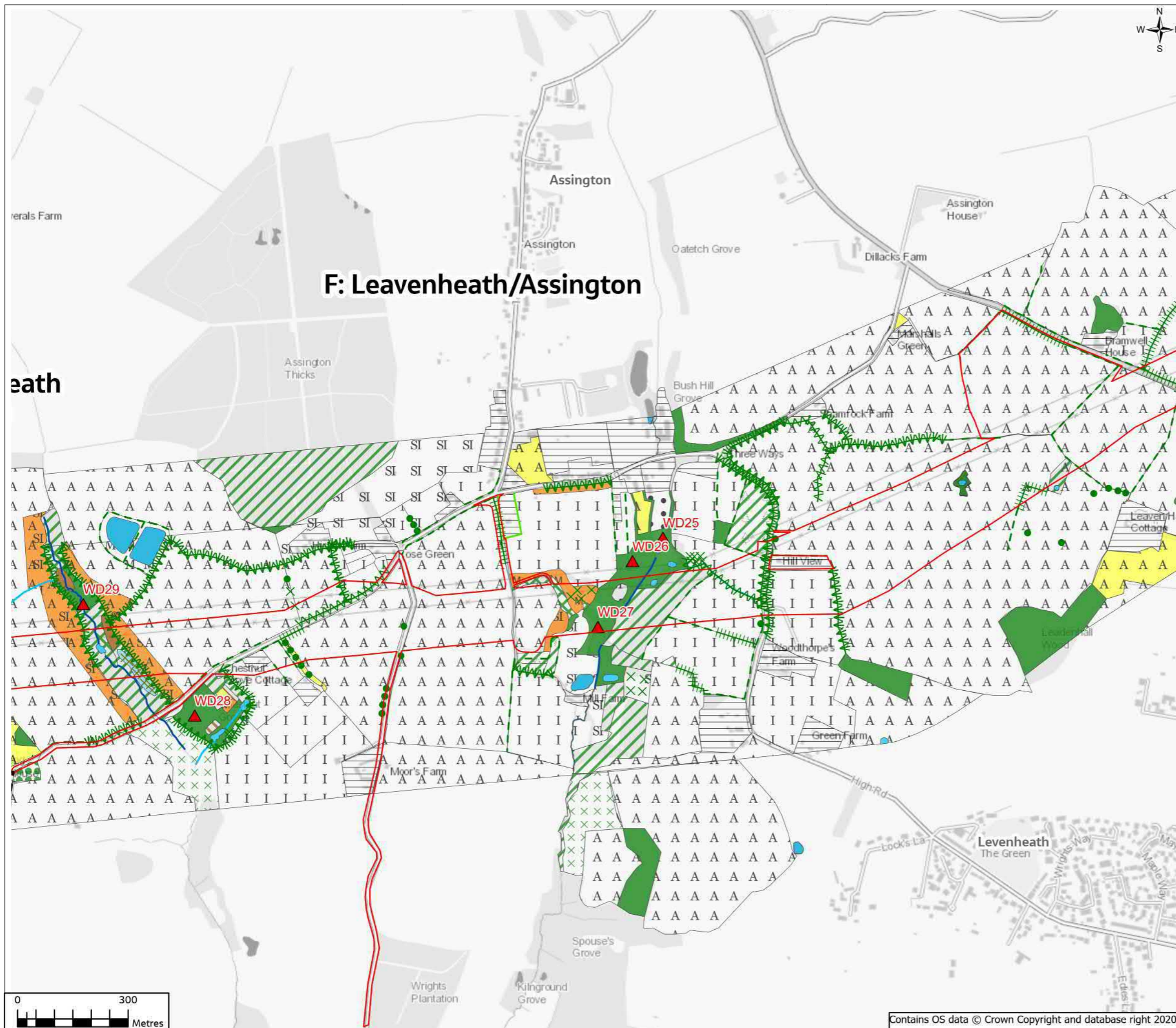
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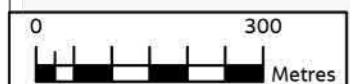
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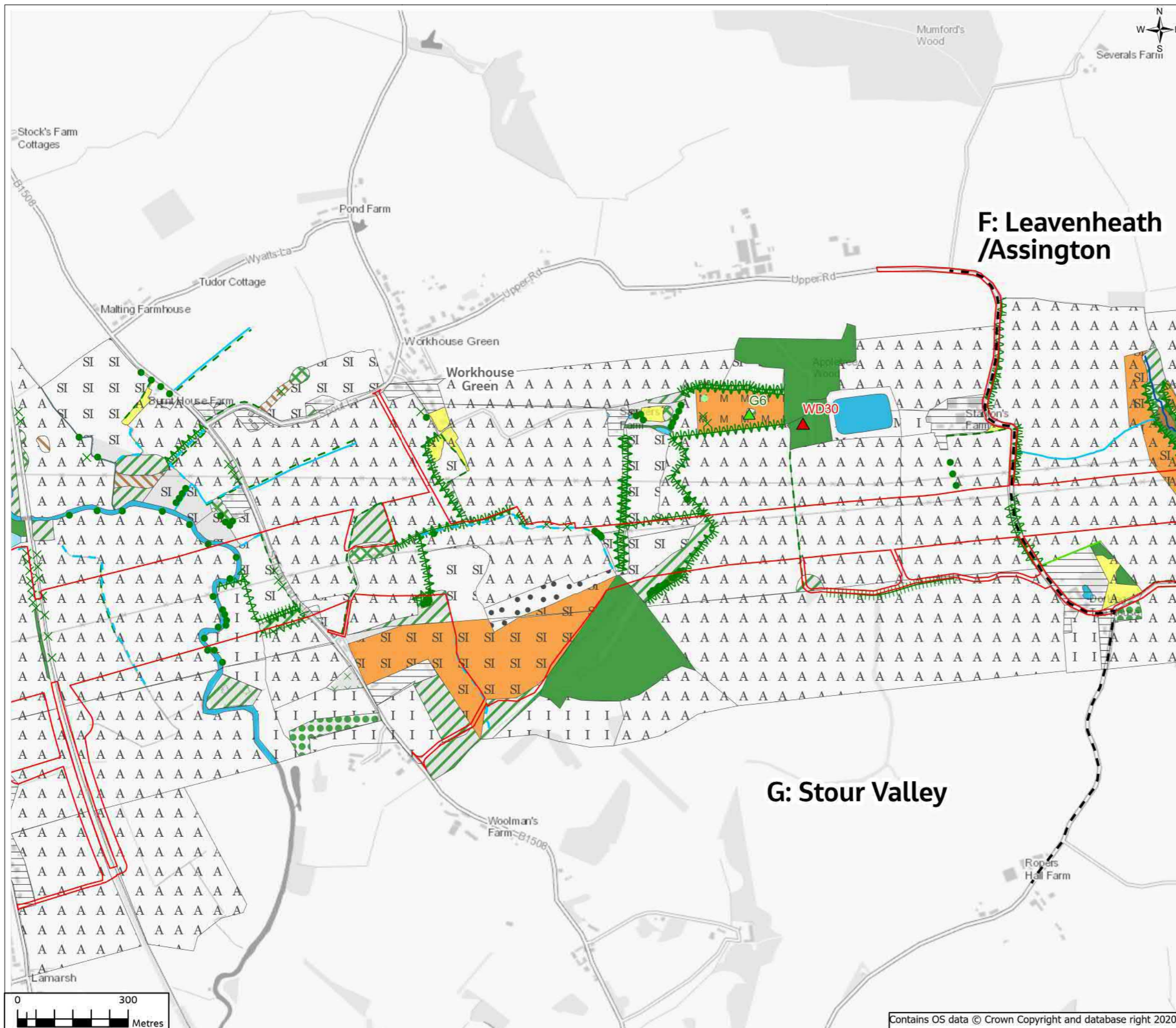
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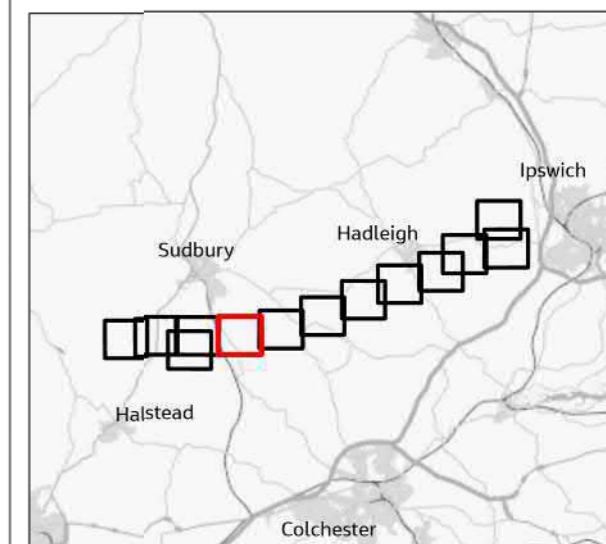
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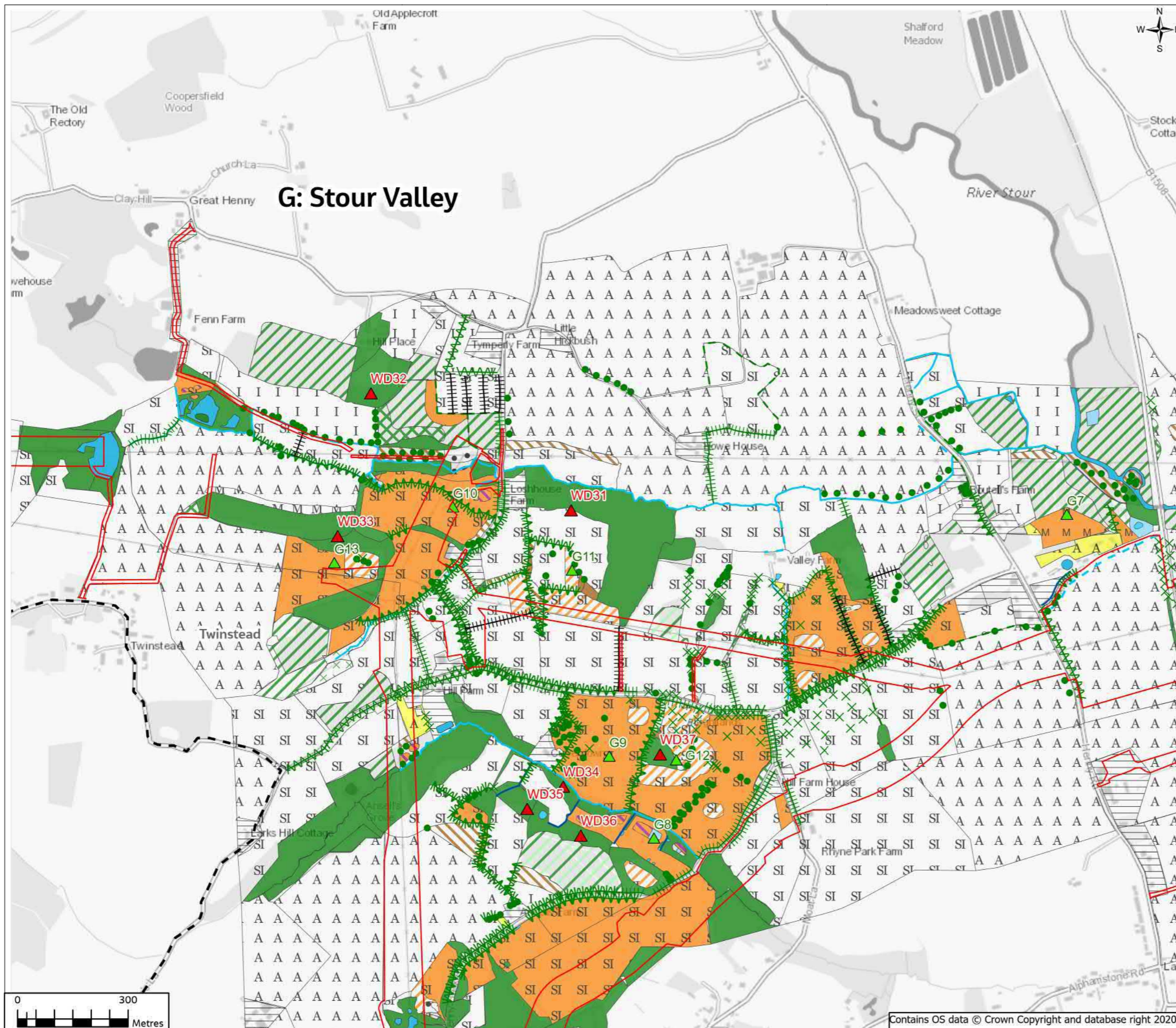
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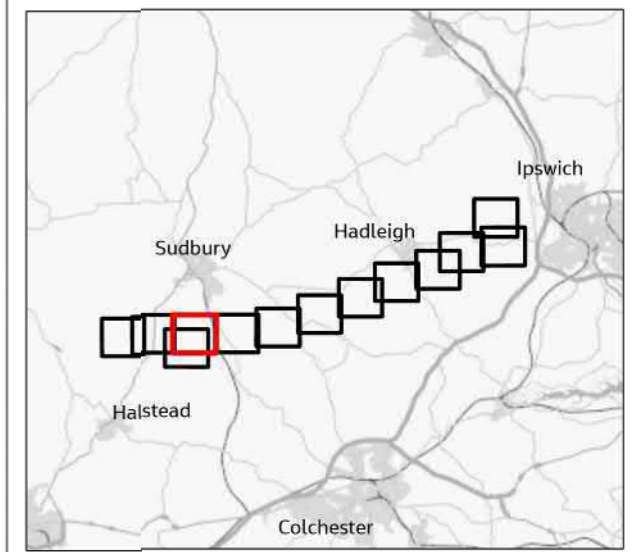


FIGURE 7.4



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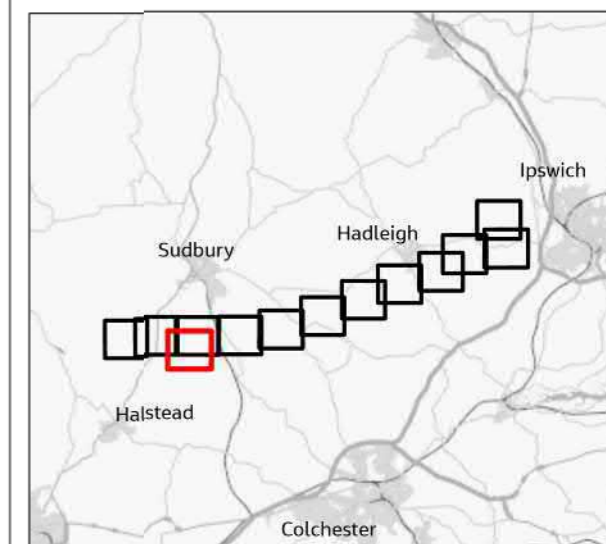
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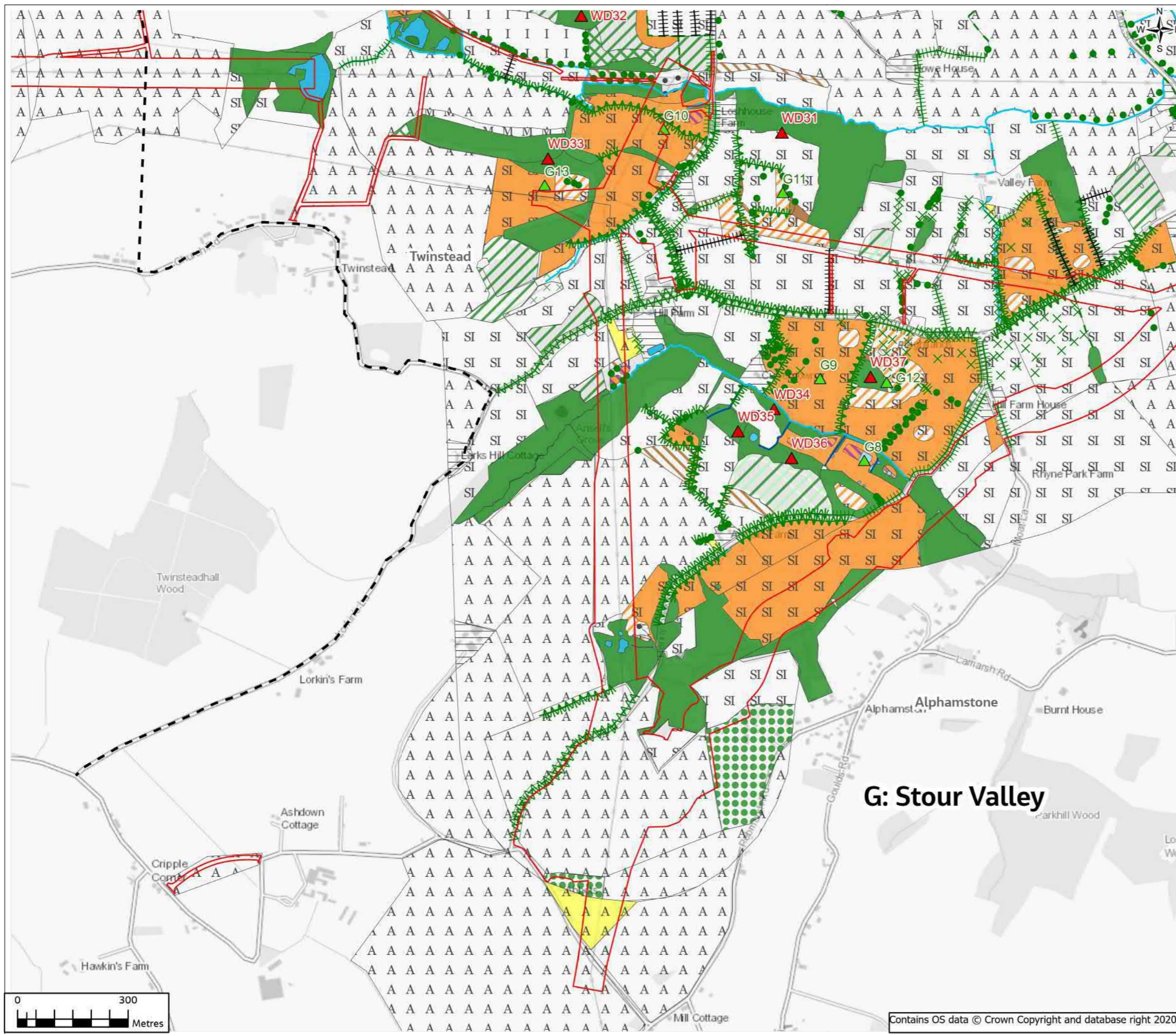
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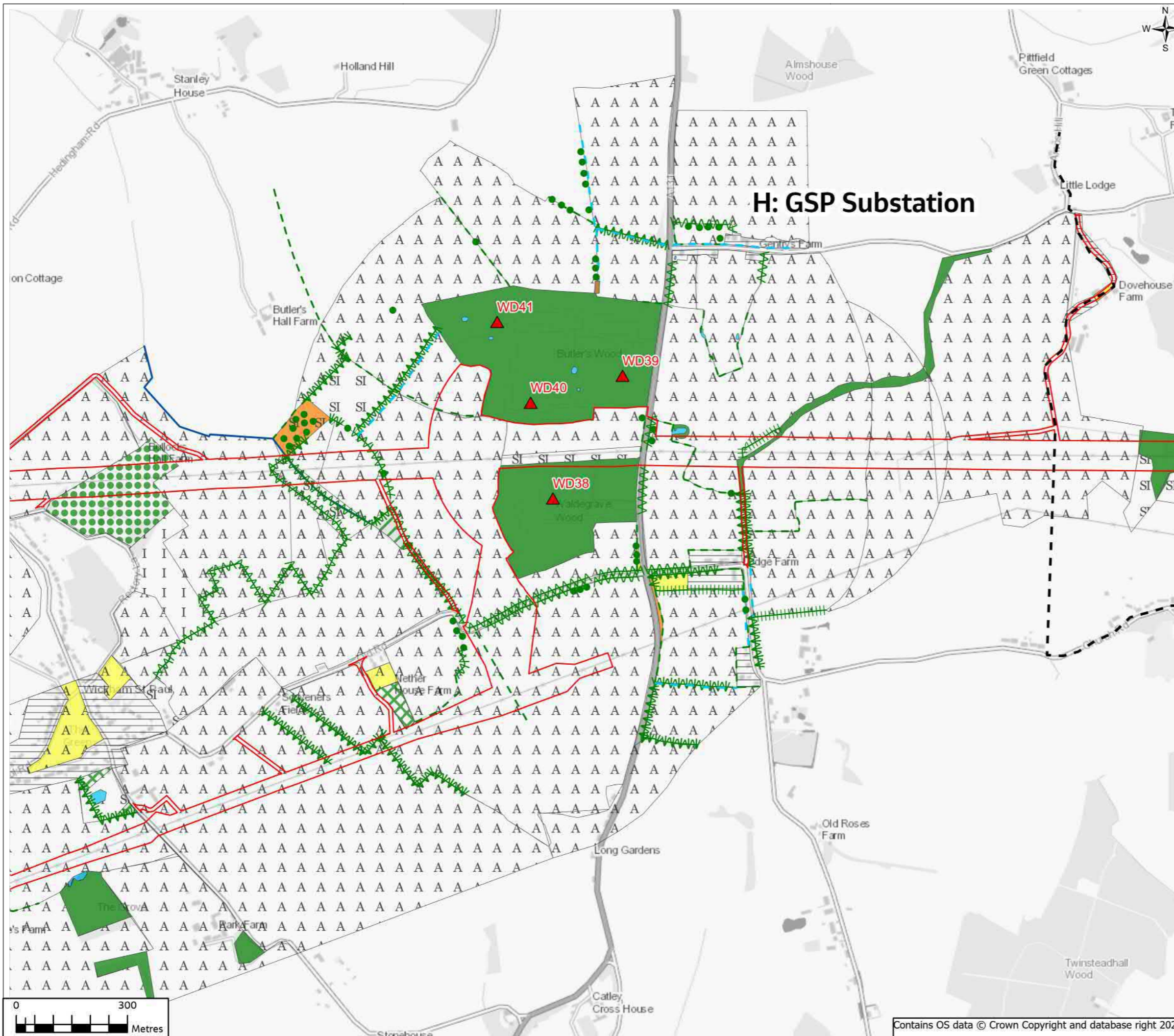


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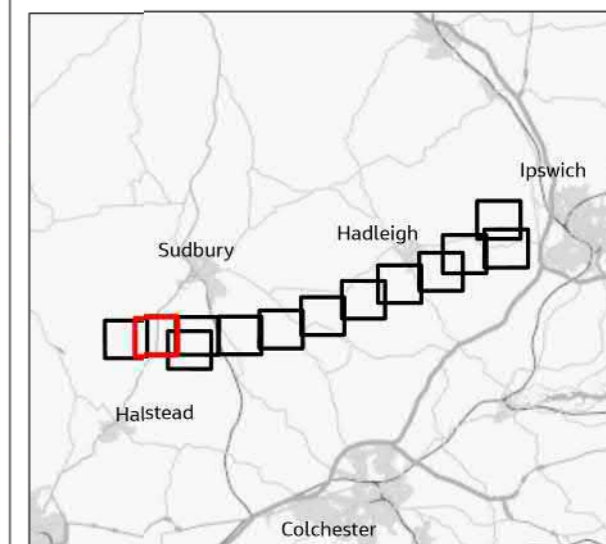
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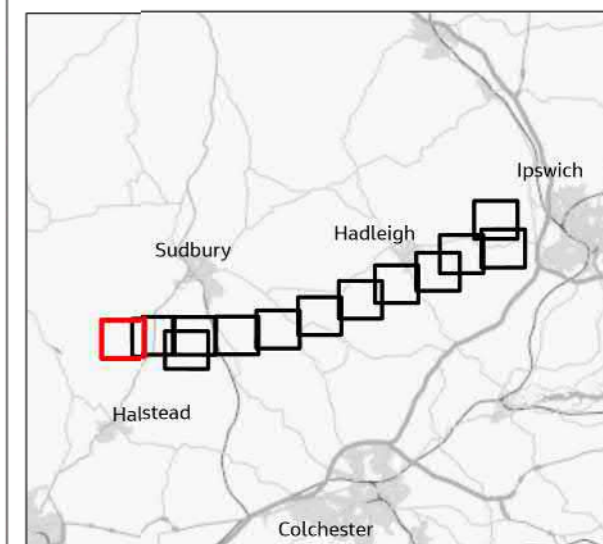
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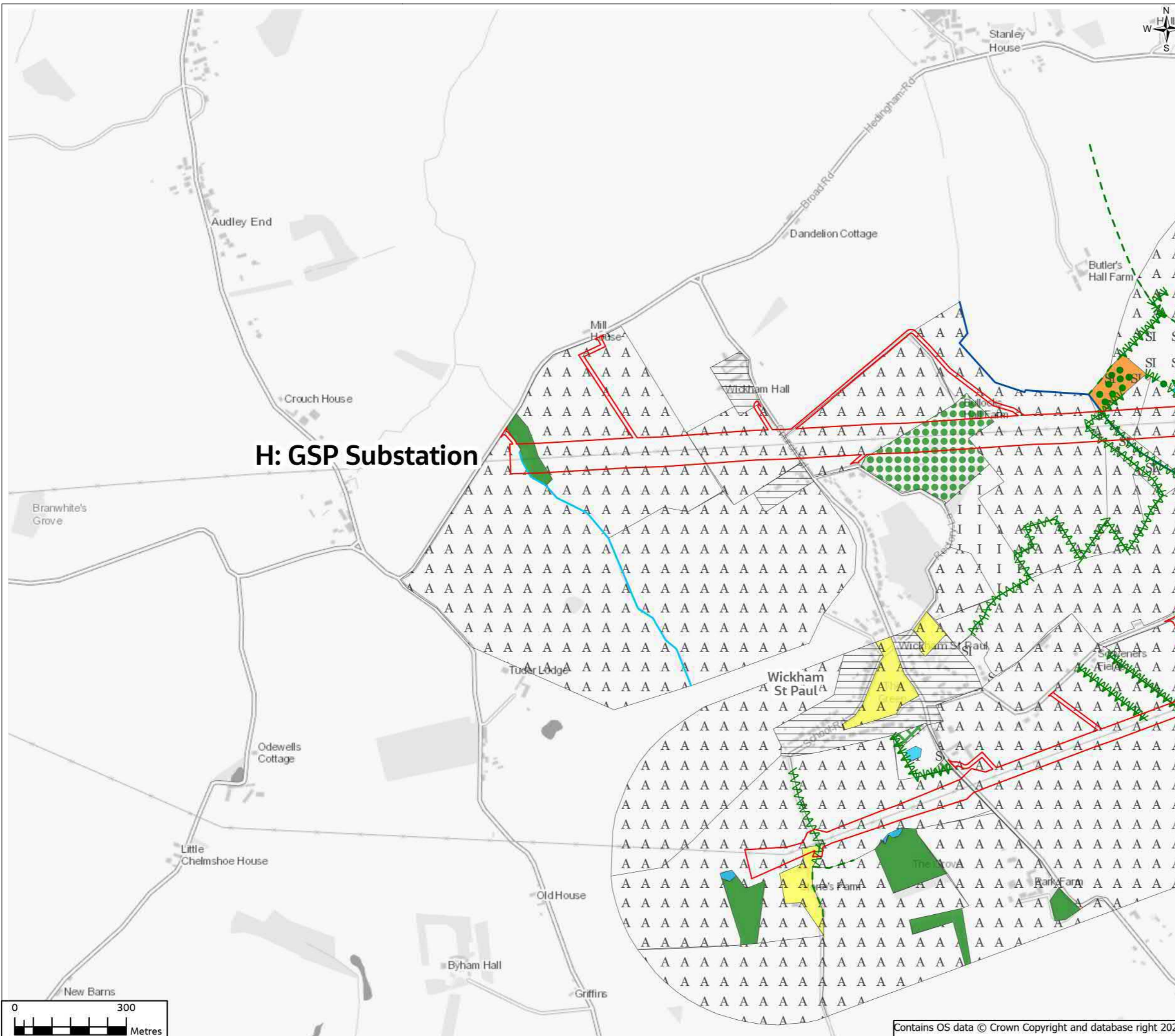
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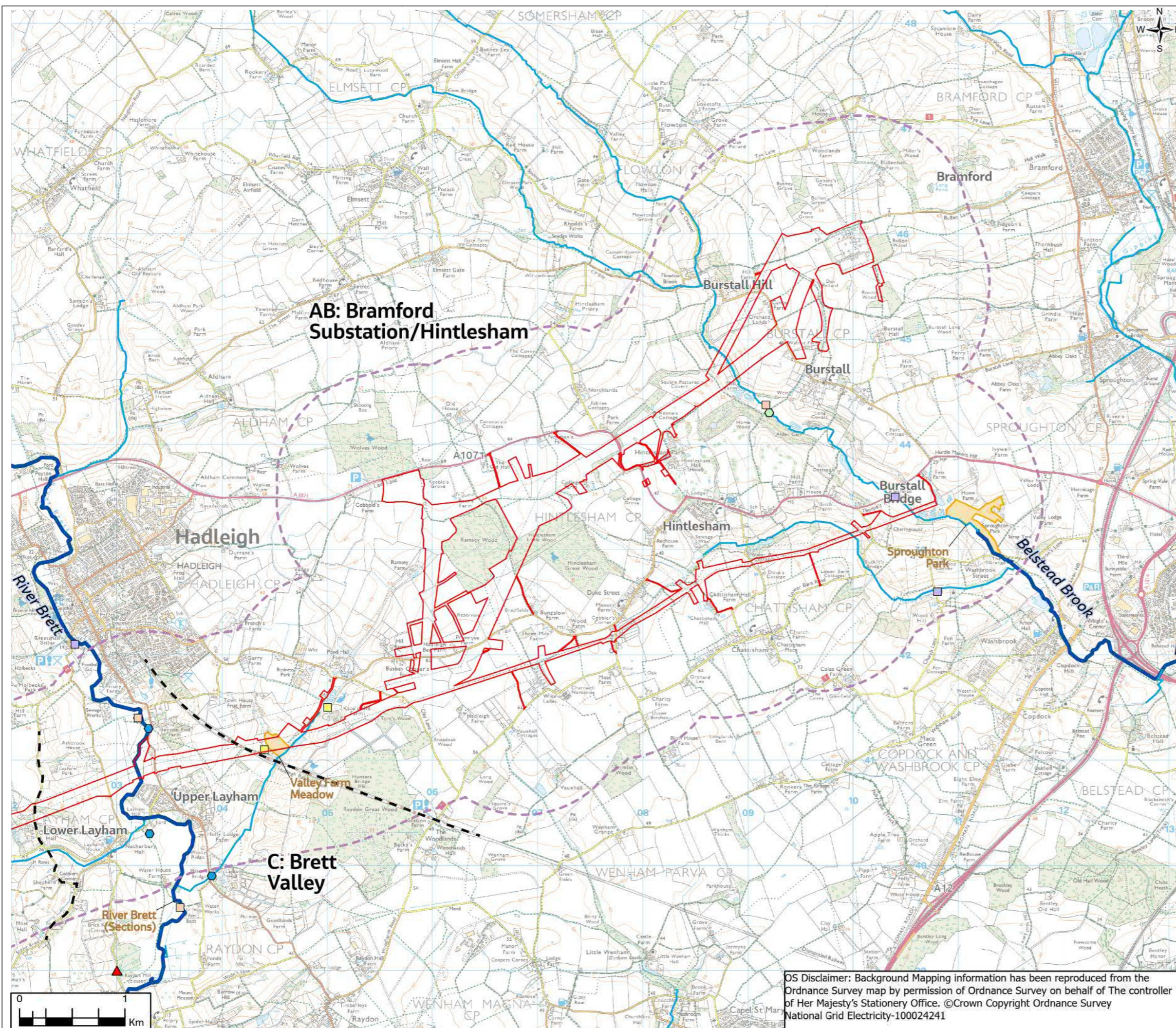
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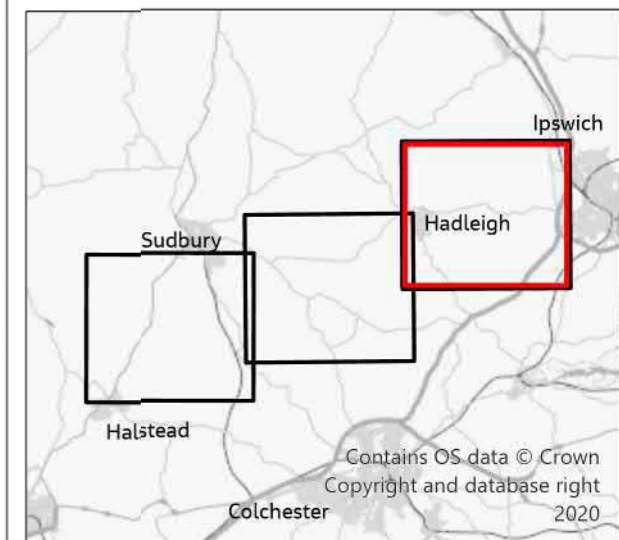
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- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - Main Rivers
 - Non-Main Rivers
- Designated Sites Supporting Aquatic Habitats and Features**
- County Wildlife Site (CWS)
- Sampling and Survey Points**
- Environment Agency Fisheries Sampling Point
 - Environment Agency Invertebrate Sampling Point
 - Environment Agency Macrophyte Sampling Point
 - Aquatic Invertebrate Survey Points 2010
- 2021 Desk Study**
- Brook Lamprey
 - Brown/Sea Trout
 - Bullhead
 - European Eel
 - Spined Loach
- Invertebrates**
- ▲ Water Beetle
 - ▲ Scarce Chaser

Only CWS supporting aquatic habitats and features are displayed.



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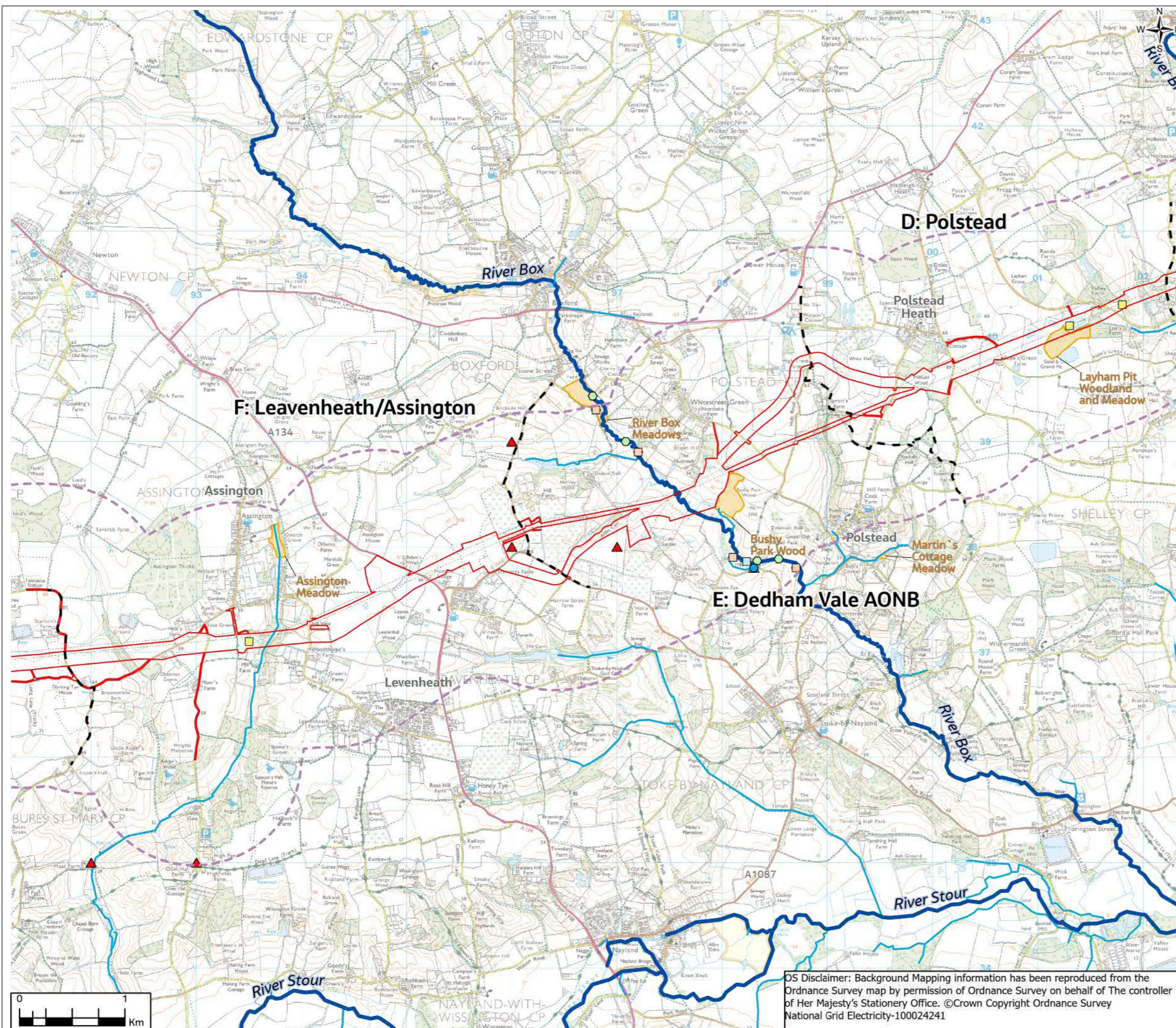
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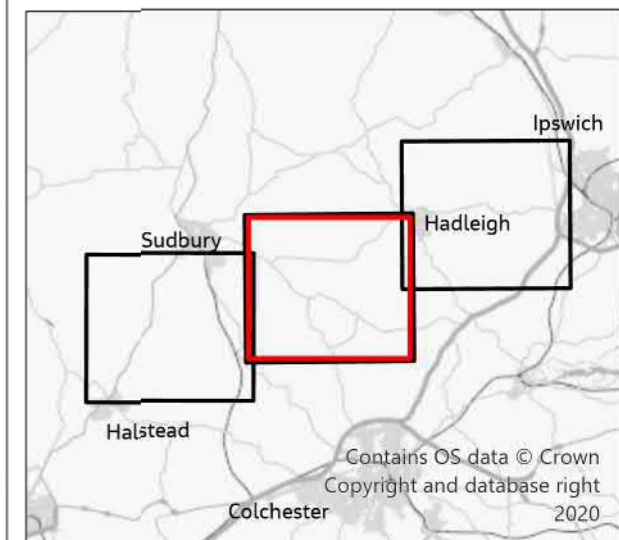
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FIGURE 7.5



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - Main Rivers
 - Non-Main Rivers
- Designated Sites Supporting Aquatic Habitats and Features**
- County Wildlife Site (CWS)
- Sampling and Survey Points**
- Environment Agency Fisheries Sampling Point
 - Environment Agency Invertebrate Sampling Point
 - Environment Agency Macrophyte Sampling Point
 - Aquatic Invertebrate Survey Points 2010
- 2021 Desk Study**
- Brook Lamprey
 - Brown/Sea Trout
 - Bullhead
 - European Eel
 - Spined Loach
- Invertebrates**
- ▲ Water Beetle
 - ▲ Scarce Chaser

Only CWS supporting aquatic habitats and features are displayed.



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Drawing Title
 Watercourses and Aquatic Ecology Baseline

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Drawing Status
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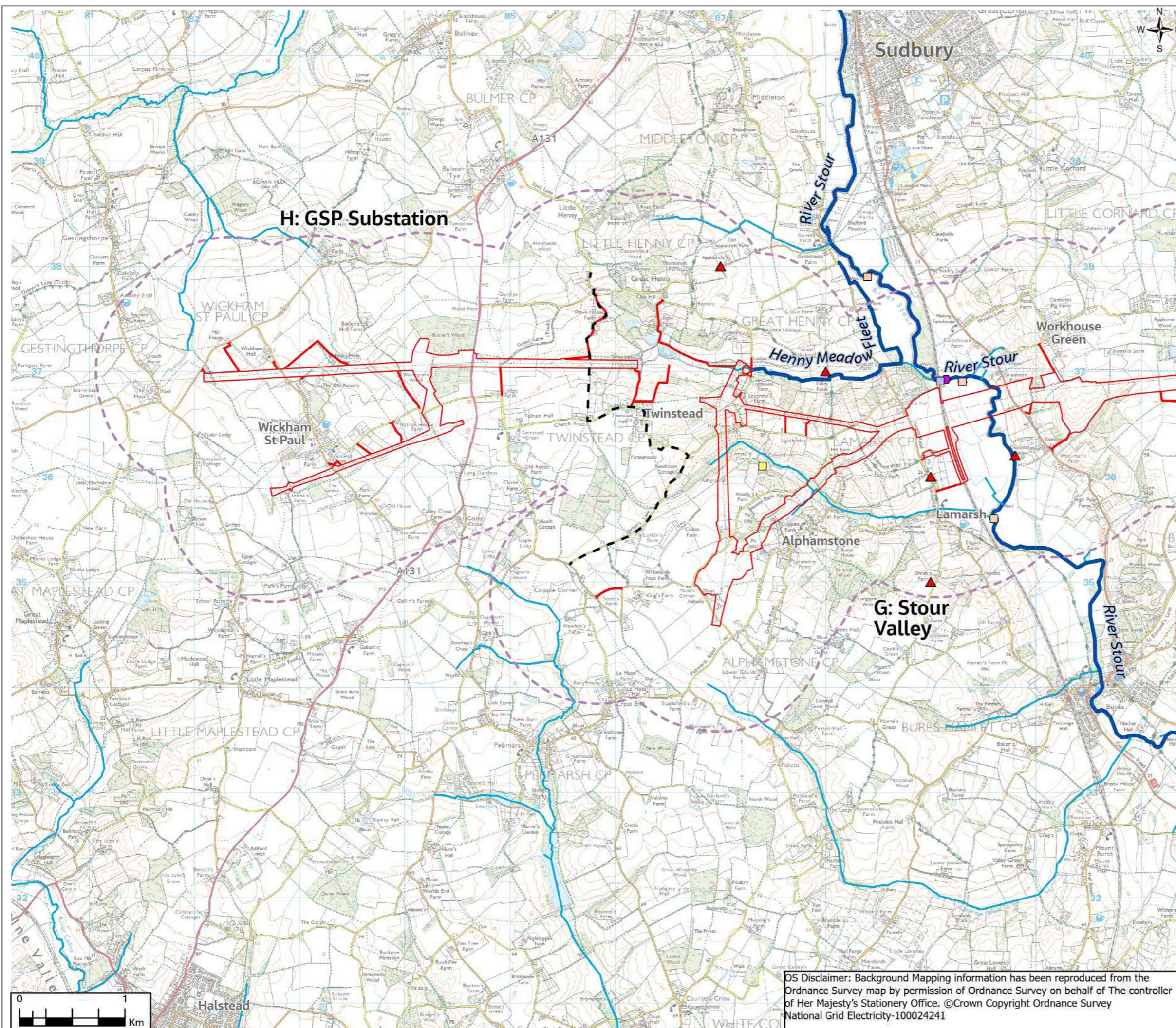
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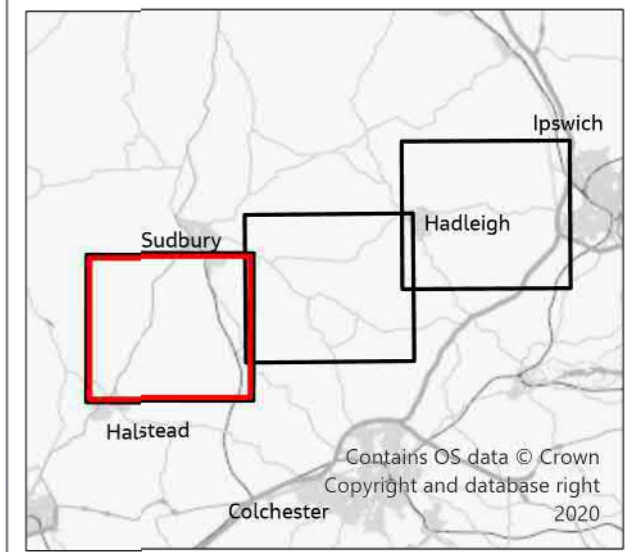
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FIGURE 7.5



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - ▬ Main Rivers
 - ▬ Non-Main Rivers
- Designated Sites Supporting Aquatic Habitats and Features**
- ▭ County Wildlife Site (CWS)
- Sampling and Survey Points**
- ▭ Environment Agency Fisheries Sampling Point
 - ▭ Environment Agency Invertebrate Sampling Point
 - ▭ Environment Agency Macrophyte Sampling Point
 - ▭ Aquatic Invertebrate Survey Points 2010
- 2021 Desk Study**
- Brook Lamprey
 - Brown/Sea Trout
 - Bullhead
 - European Eel
 - Spined Loach
- Invertebrates**
- △ Water Beetle
 - ▲ Scarce Chaser
- Only CWS supporting aquatic habitats and features are displayed.



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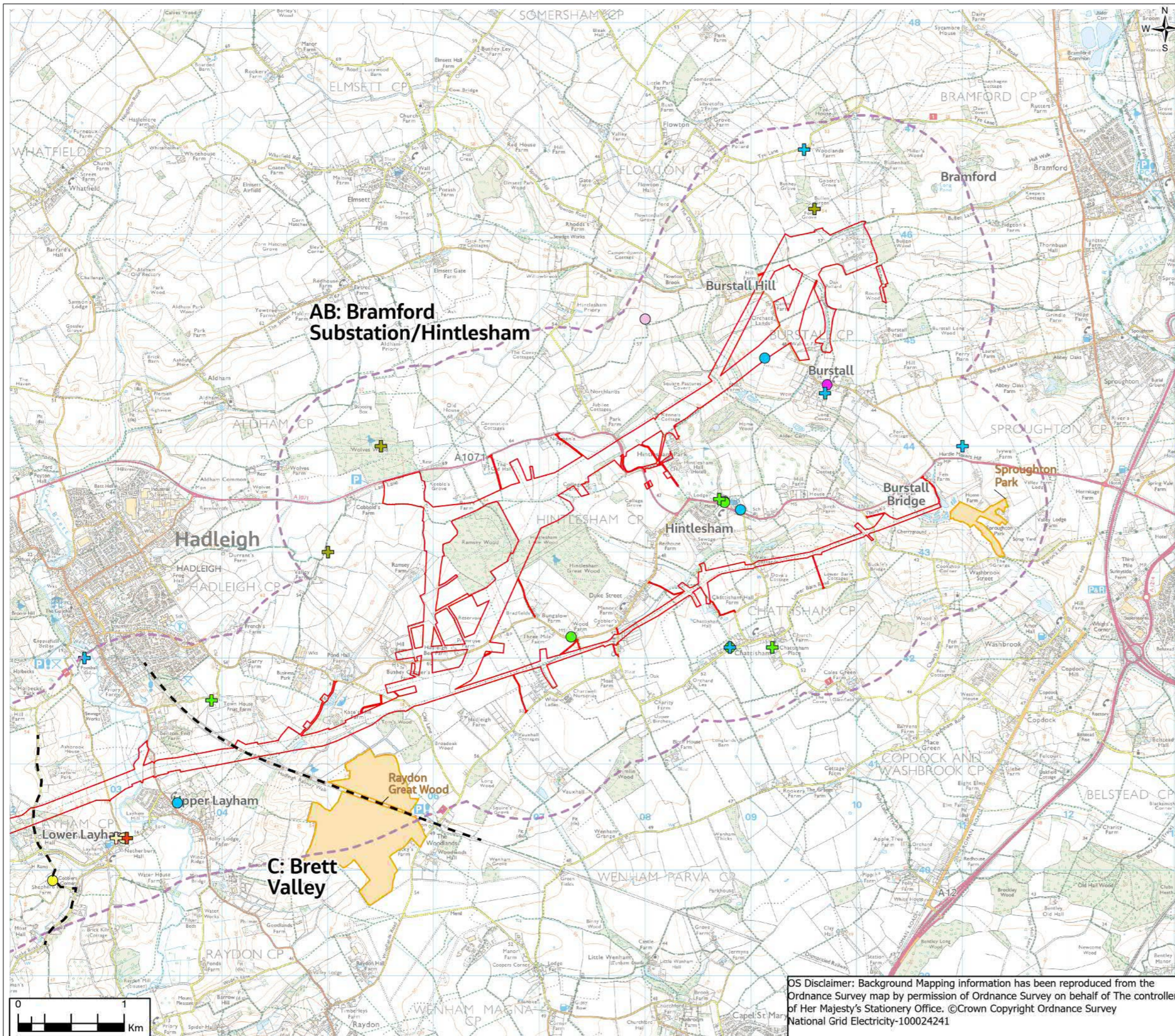
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Figure 7.6: Badger Baseline (CONFIDENTIAL)

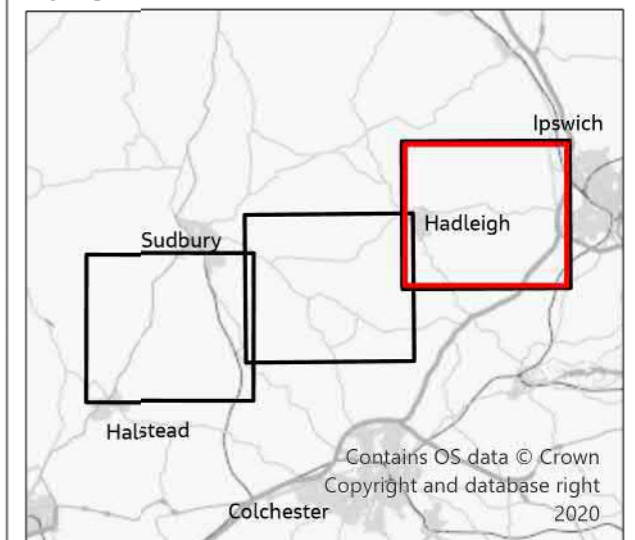
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FIGURE 7.7a



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - Designated Sites With Bats Cited
 - Suffolk Wildlife Trust (SWT) Nature Reserves
 - Local Nature Reserve (LNR)
 - County Wildlife Site (CWS)
 - 2021 Desk Study
 - Confirmed Roost
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Long-eared Bat species
 - Natterer's Bat
 - Pipistrelle species
 - Serotine
 - Soprano Pipistrelle
 - Unidentified bat
 - Undefined Bat Record
 - Barbastelle
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Daubenton's Bat
 - Leisler's Bat
 - Long-eared Bat species
 - Natterer's Bat
 - Pipistrelle species
 - Noctule Bat
 - Serotine
 - Soprano Pipistrelle
 - Unidentified Bat

Only Designated Sites with Bats cited are displayed.



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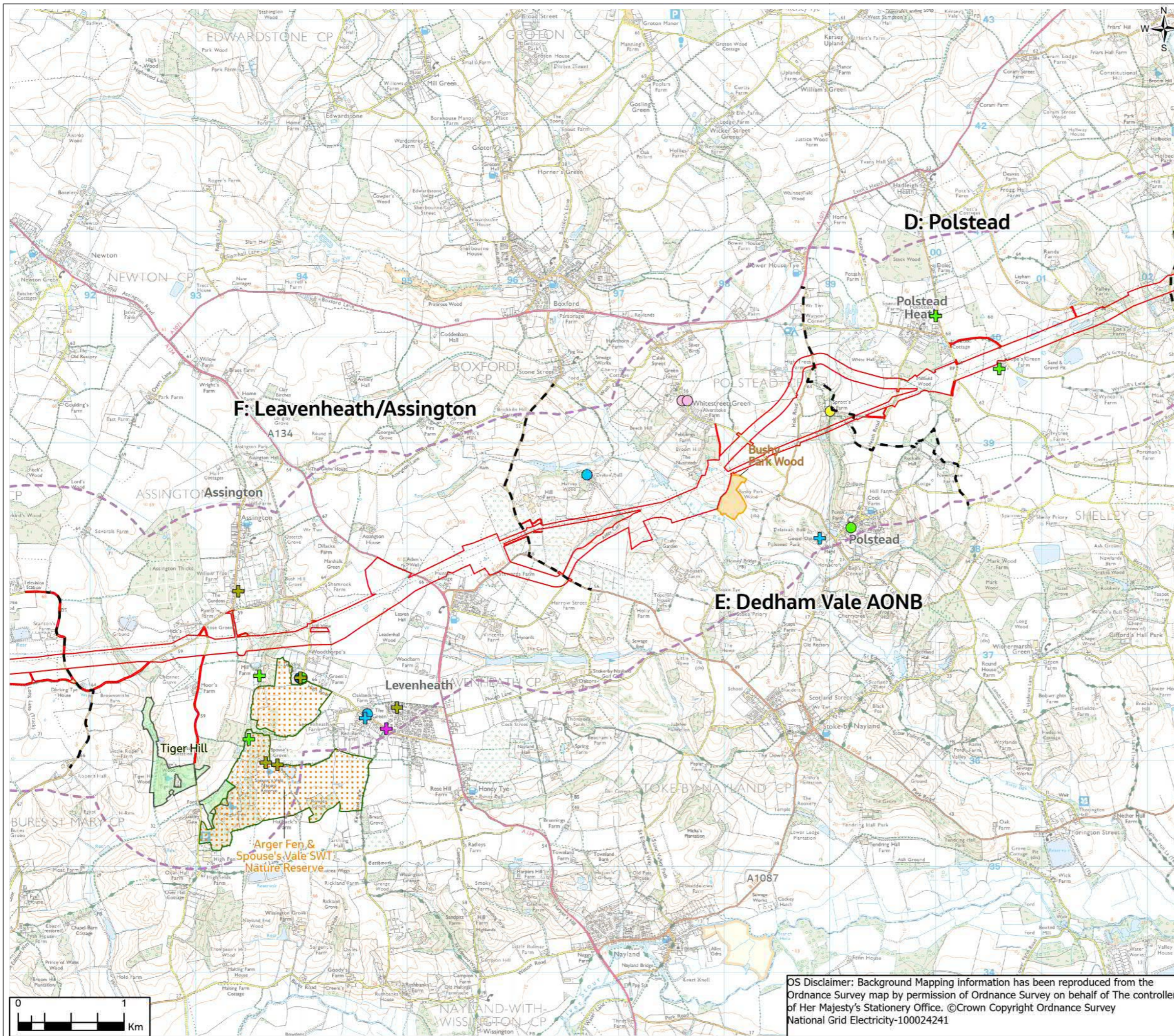
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 Drawing No.
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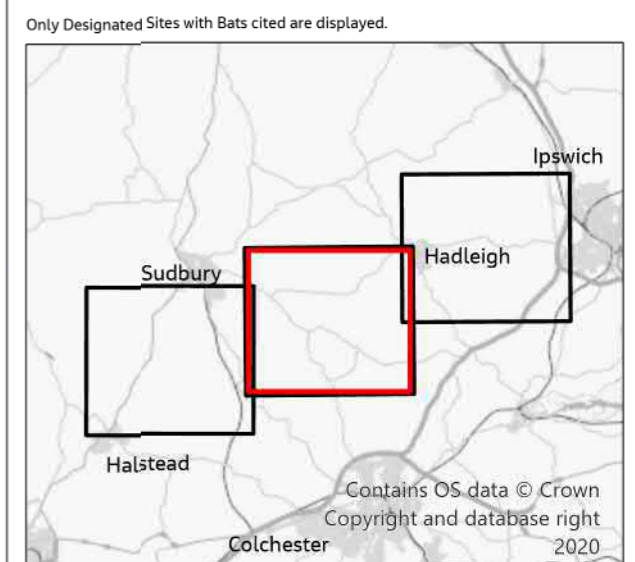
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FIGURE 7.7a



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - Designated Sites With Bats Cited
 - Suffolk Wildlife Trust (SWT) Nature Reserves
 - Local Nature Reserve (LNR)
 - County Wildlife Site (CWS)
 - 2021 Desk Study
 - Confirmed Roost
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Long-eared Bat species
 - Natterer's Bat
 - Pipistrelle species
 - Serotine
 - Soprano Pipistrelle
 - Unidentified bat
 - Undefined Bat Record
 - Barbastelle
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Daubenton's Bat
 - Leisler's Bat
 - Long-eared Bat species
 - Natterer's Bat
 - Pipistrelle species
 - Noctule Bat
 - Serotine
 - Soprano Pipistrelle
 - Unidentified Bat



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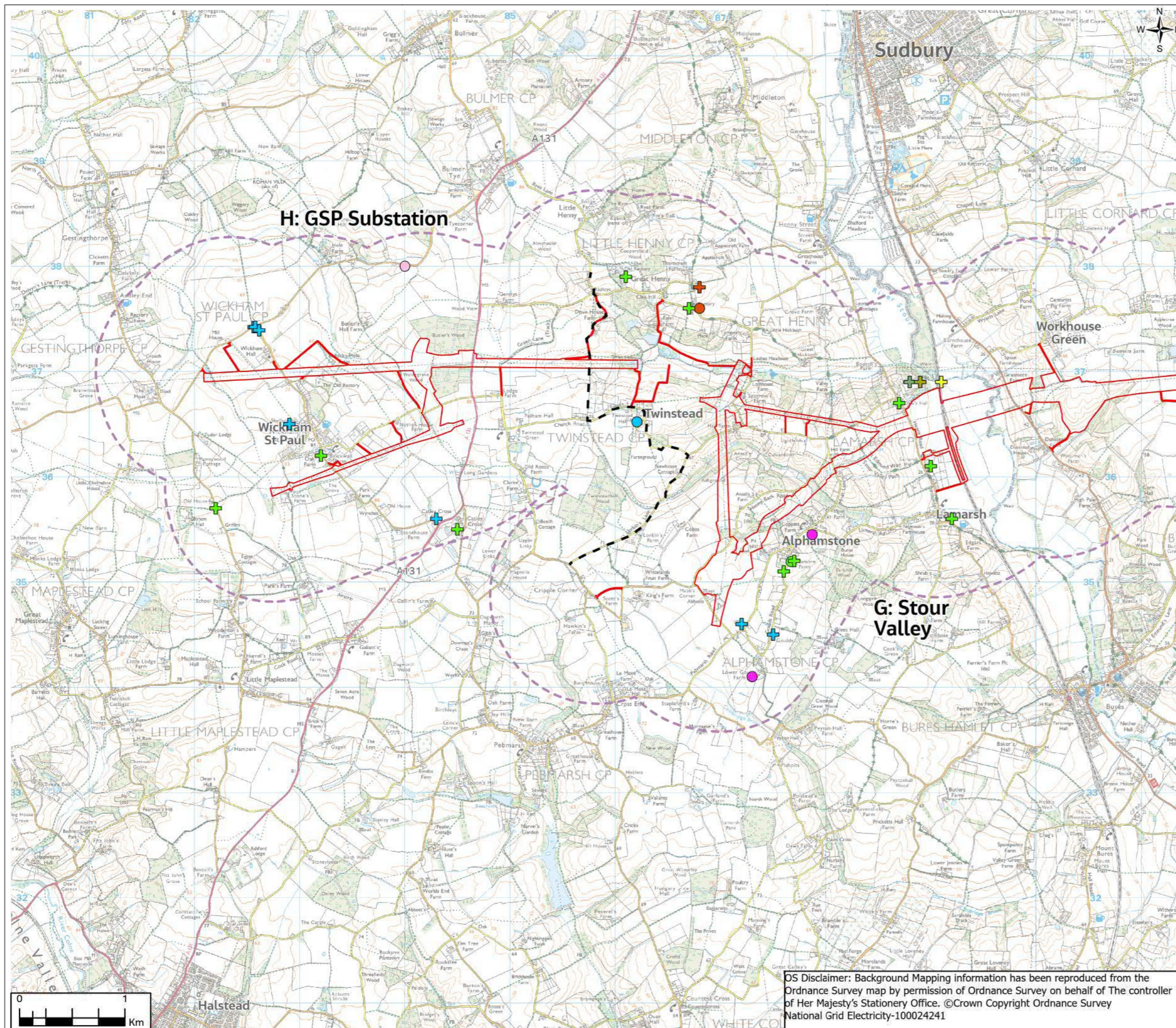
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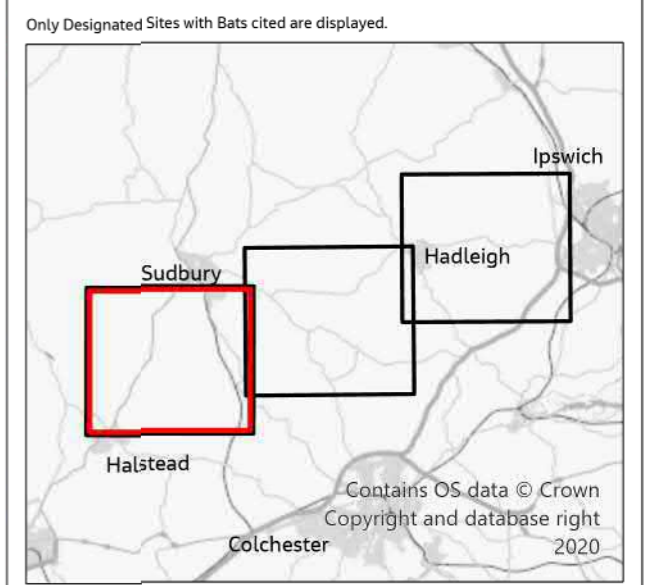
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FIGURE 7.7a



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - Designated Sites With Bats Cited
 - Suffolk Wildlife Trust (SWT) Nature Reserves
 - Local Nature Reserve (LNR)
 - County Wildlife Site (CW5)
 - 2021 Desk Study
 - Confirmed Roost
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Long-eared Bat species
 - Natterer's Bat
 - Pipistrelle species
 - Serotine
 - Soprano Pipistrelle
 - Unidentified bat
 - Undefined Bat Record
 - Barbastelle
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Daubenton's Bat
 - Leisler's Bat
 - Long-eared Bat species
 - Natterer's Bat
 - Pipistrelle species
 - Noctule Bat
 - Serotine
 - Soprano Pipistrelle
 - Unidentified Bat



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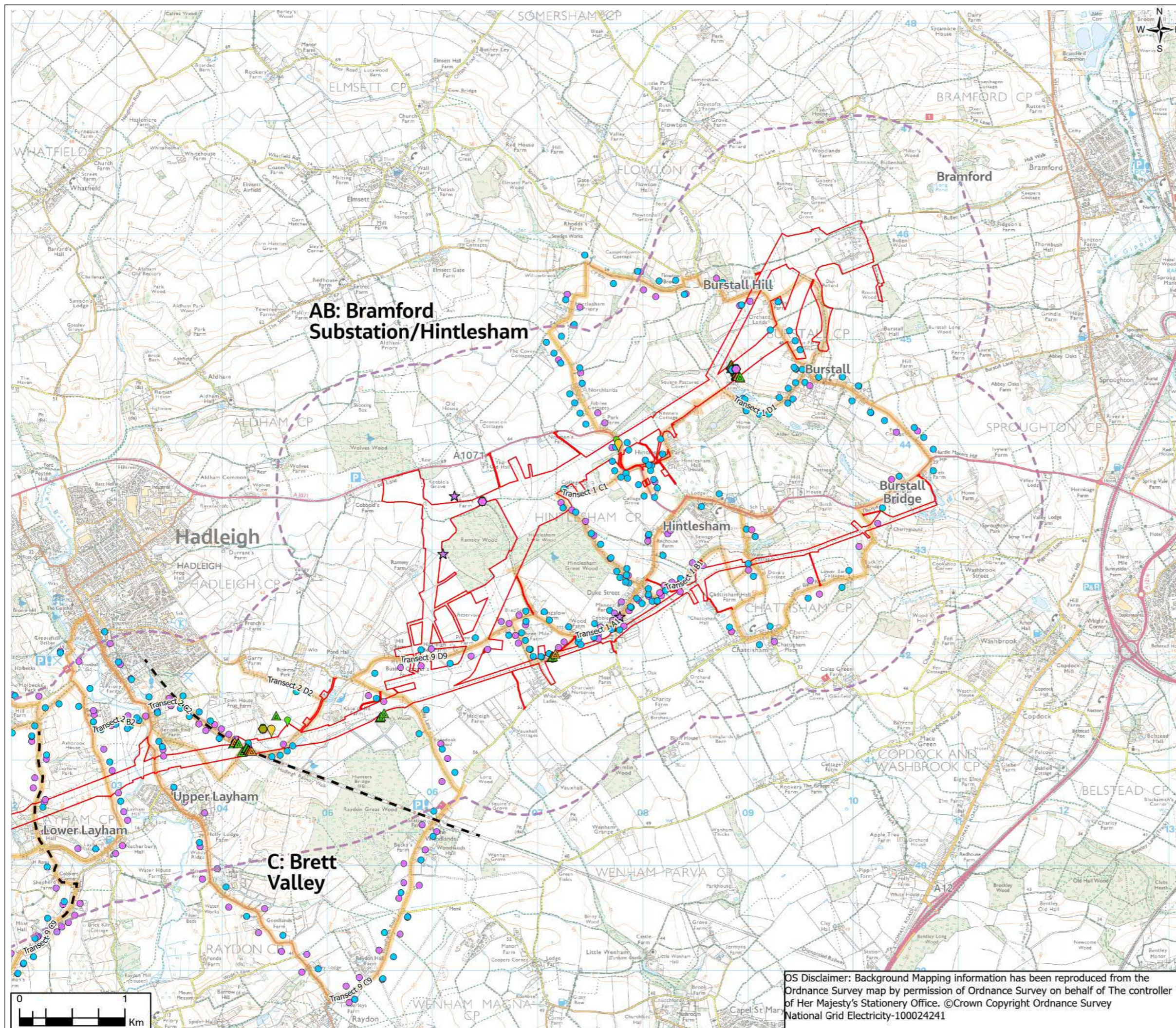
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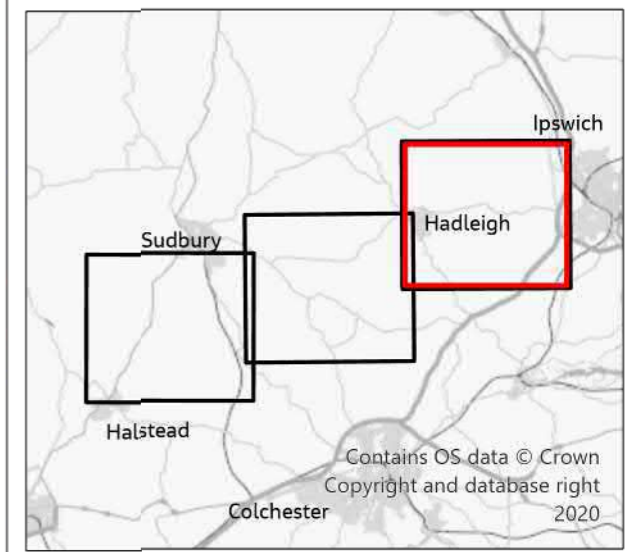
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FIGURE 7.7b



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
 - Bat Roosts in Trees 2012/3**
 - Confirmed
 - Possible
 - Bat Activity Transect Record 2012/3**
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Myotis Species
 - Noctule Bat
 - Pipistrelle Species
 - Soprano Pipistrelle
 - Unknown
 - Bat Transect
 - ★ 2012/3 Survey
 - ★ Barbastelle bat
 - ★ Brown Long-Eared Bat
 - ★ Common Pipistrelle Bat
 - ★ Daubenton's Bat
 - ★ Natterer's Bat
 - ★ Noctule Bat
 - ★ Serotine Bat
 - ★ Soprano Pipistrelle Bat
 - ★ Unknown
 - 2012/3 Bat Activity Field Survey**
 - Common pipistrelle
 - Pipistrelle spp
 - Soprano pipistrelle
 - Unknown
 - Bats Roosts in Trees - Potential - Survey 2021 (up to July 2021)**
 - ▲ High
 - ▲ Moderate
 - ▲ Low



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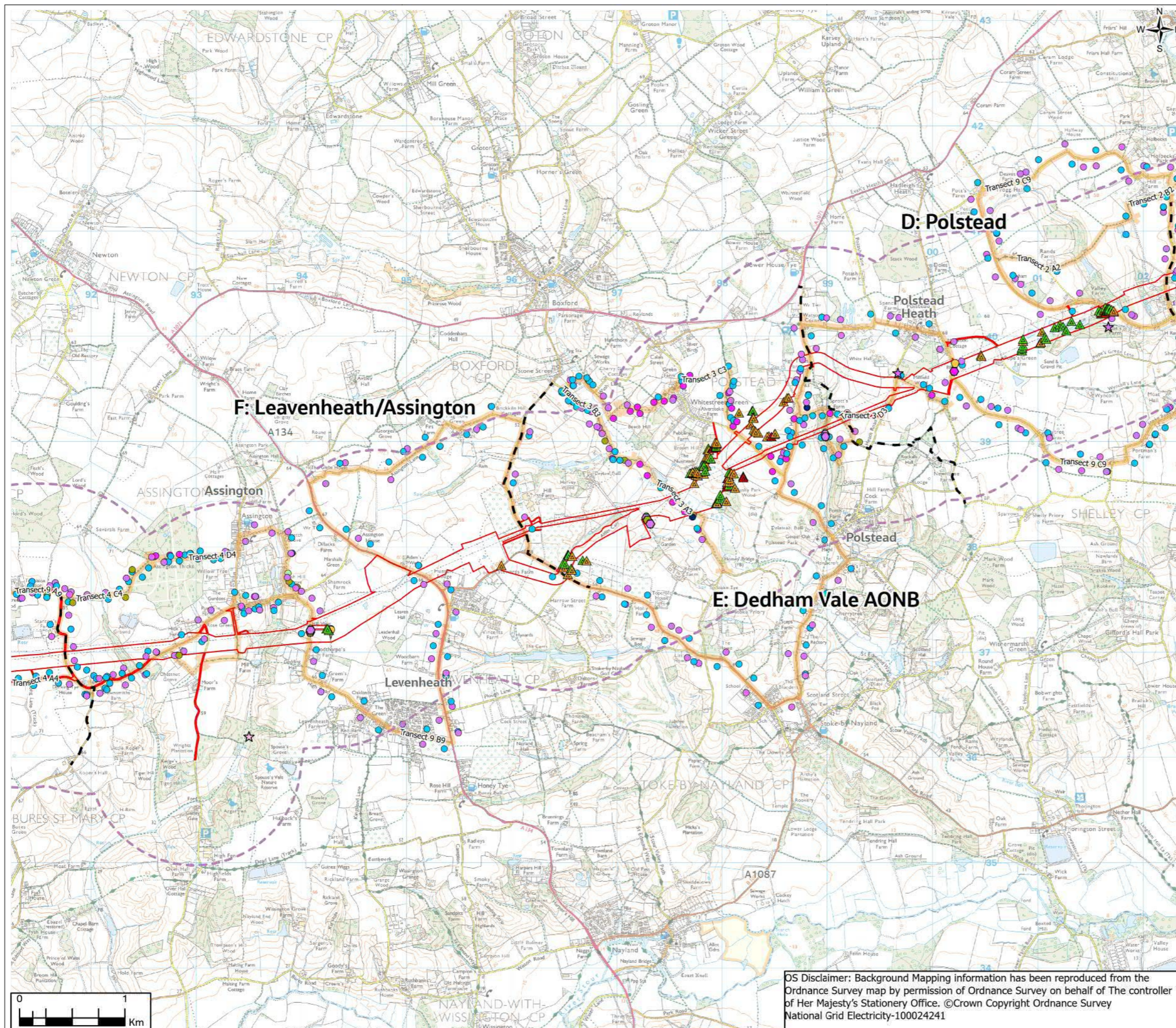
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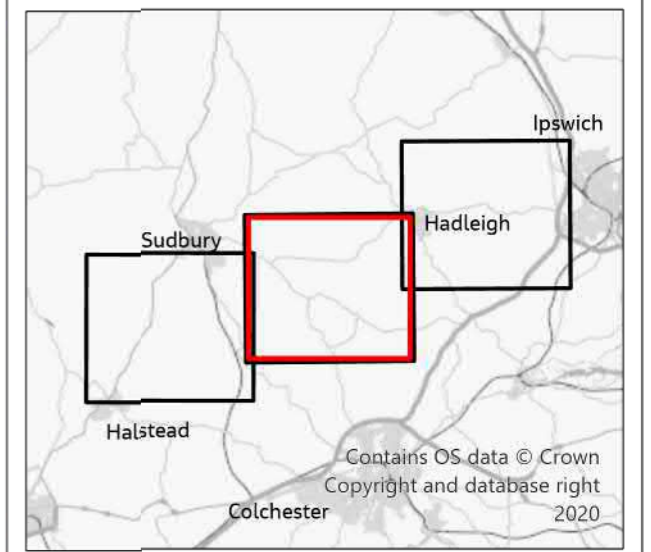
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FIGURE 7.7b



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
 - Confirmed
 - Possible
 - Brown Long-eared Bat
 - Common Pipistrelle
 - Myotis Species
 - Noctule Bat
 - Pipistrelle Species
 - Soprano Pipistrelle
 - Unknown
 - Bat Transect
 - ★ Barbastelle bat
 - ★ Brown Long-Eared Bat
 - ★ Common Pipistrelle Bat
 - ★ Daubenton's Bat
 - ★ Natterer's Bat
 - ★ Noctule Bat
 - ★ Serotine Bat
 - ★ Soprano Pipistrelle Bat
 - ★ Unknown
 - ▲ High
 - ▲ Moderate
 - ▲ Low
- Bat Roosts in Trees 2012/3**
- Bat Activity Transect Record 2012/3**
- 2012/3 Bat Activity Field Survey**
- Bats Roosts in Trees - Potential - Survey 2021 (up to July 2021)**



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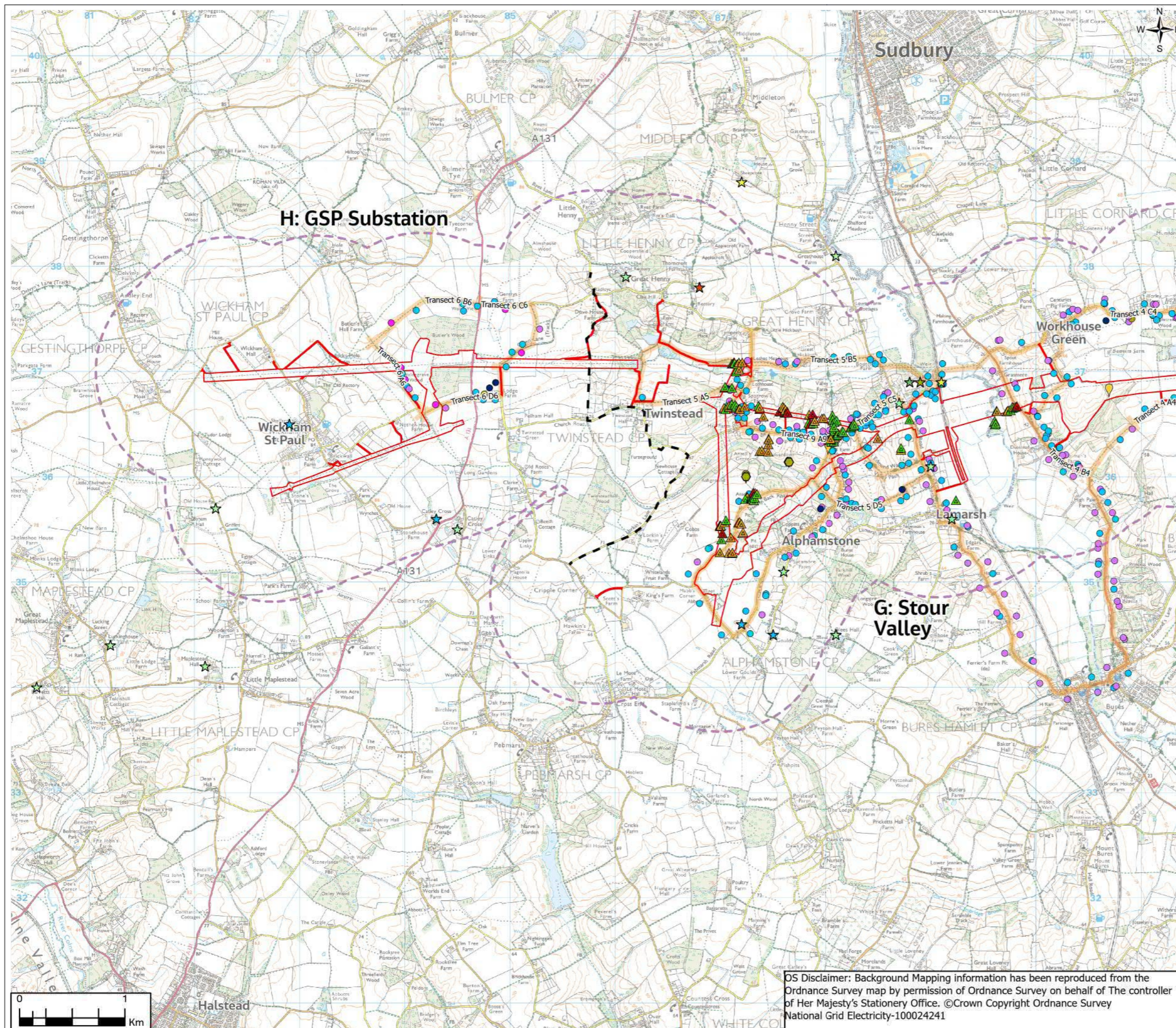
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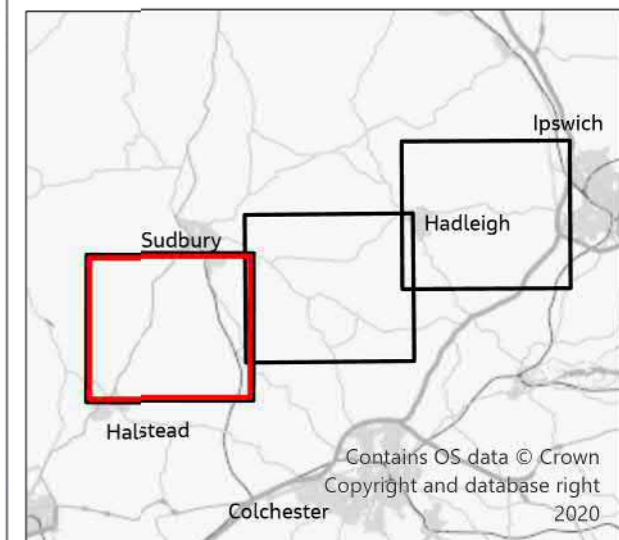
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FIGURE 7.7b



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
- Bat Roosts in Trees 2012/3**
- Confirmed
 - Possible
- Bat Activity Transect Record 2012/3**
- Brown Long-eared Bat
 - Common Pipistrelle
 - Myotis Species
 - Noctule Bat
 - Pipistrelle Species
 - Soprano Pipistrelle
 - Unknown
- 2012/3 Bat Activity Field Survey**
- Common pipistrelle
 - Pipistrelle spp
 - Soprano pipistrelle
 - Unknown
- Bats Roosts in Trees – Potential – Survey 2021 (up to July 2021)**
- ▲ High
 - ▲ Moderate
 - ▲ Low
- Bat Transect**
- ☆ Barbastelle bat
 - ☆ Brown Long-Eared Bat
 - ☆ Common Pipistrelle Bat
 - ☆ Daubenton's Bat
 - ☆ Natterer's Bat
 - ☆ Noctule Bat
 - ☆ Serotine Bat
 - ☆ Soprano Pipistrelle Bat
 - ☆ Unknown



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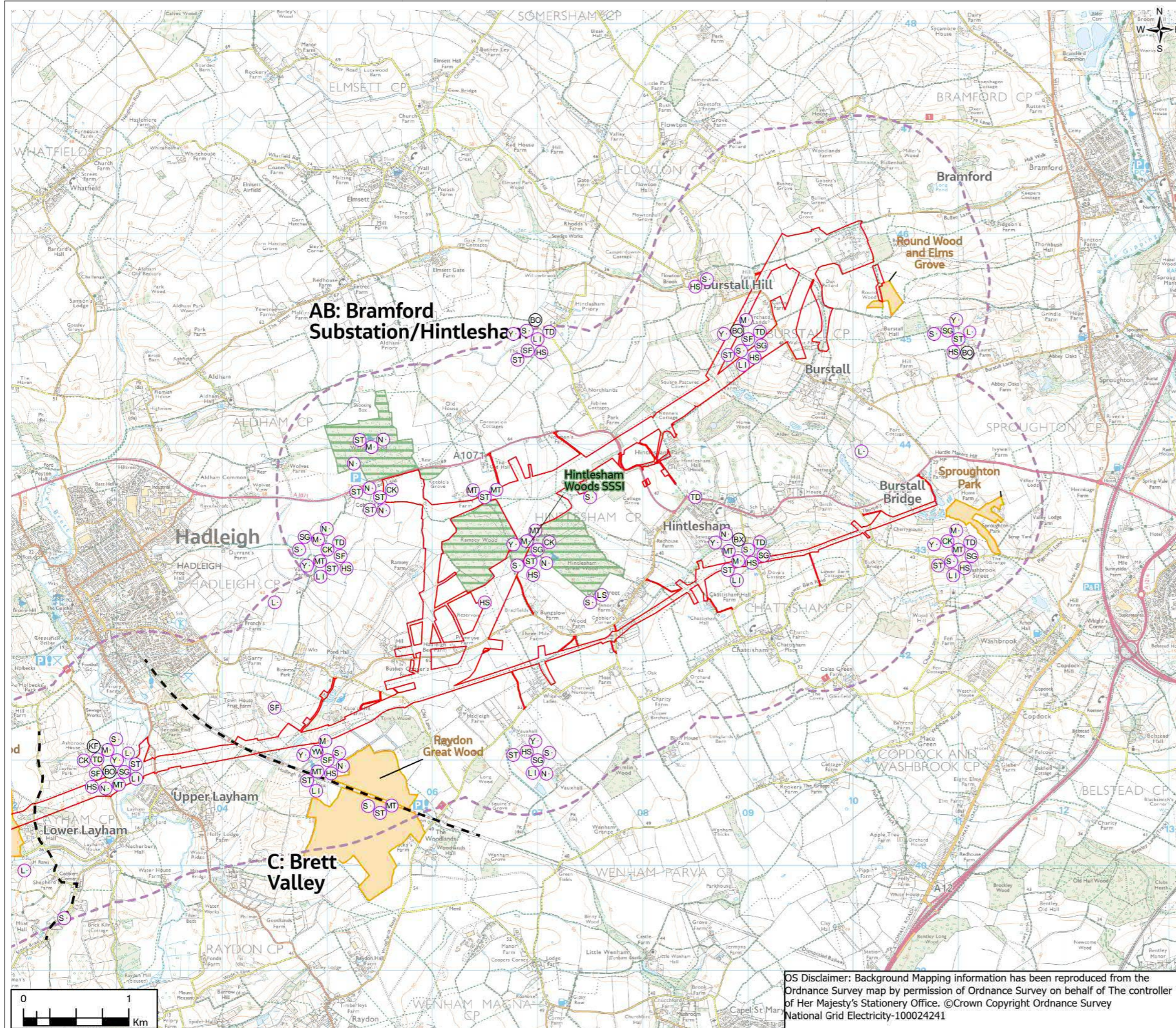
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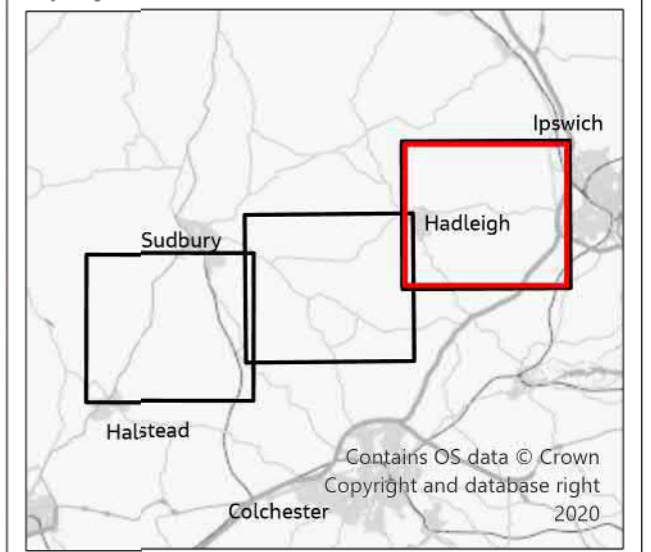
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FIGURE 7.8a



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
 - ▭ Designated Sites With Breeding Birds and Raptors Cited
 - ▭ Site of Special Scientific Interest (SSSI)
 - ▭ County Wildlife Site (CWS)
 - ▭ Essex Wildlife Trust (EWT) Nature Reserves
- 2021 Desk Study Schedule 1 Species**
- BO Barn Owl
 - KF Kingfisher
 - KT Red Kite
 - CK Cuckoo
 - CU Curlew
 - P Grey Partridge
 - GL Grey Wagtail
 - HS House Sparrow
 - L Lapwing
 - LS Lesser Spotted Woodpecker
 - LI Linnet
 - LP Little Ringed Plover
 - MT Marsh Tit
 - M Mistle Thrush
 - N Nightingale
 - S Skylark
 - ST Song Thrush
 - SF Spotted Flycatcher
 - SG Starling
 - TD Turtle Dove
 - YW Yellow Wagtail
 - Y Yellowhammer

Only Designated Sites with breeding birds and raptors in citation are displayed.



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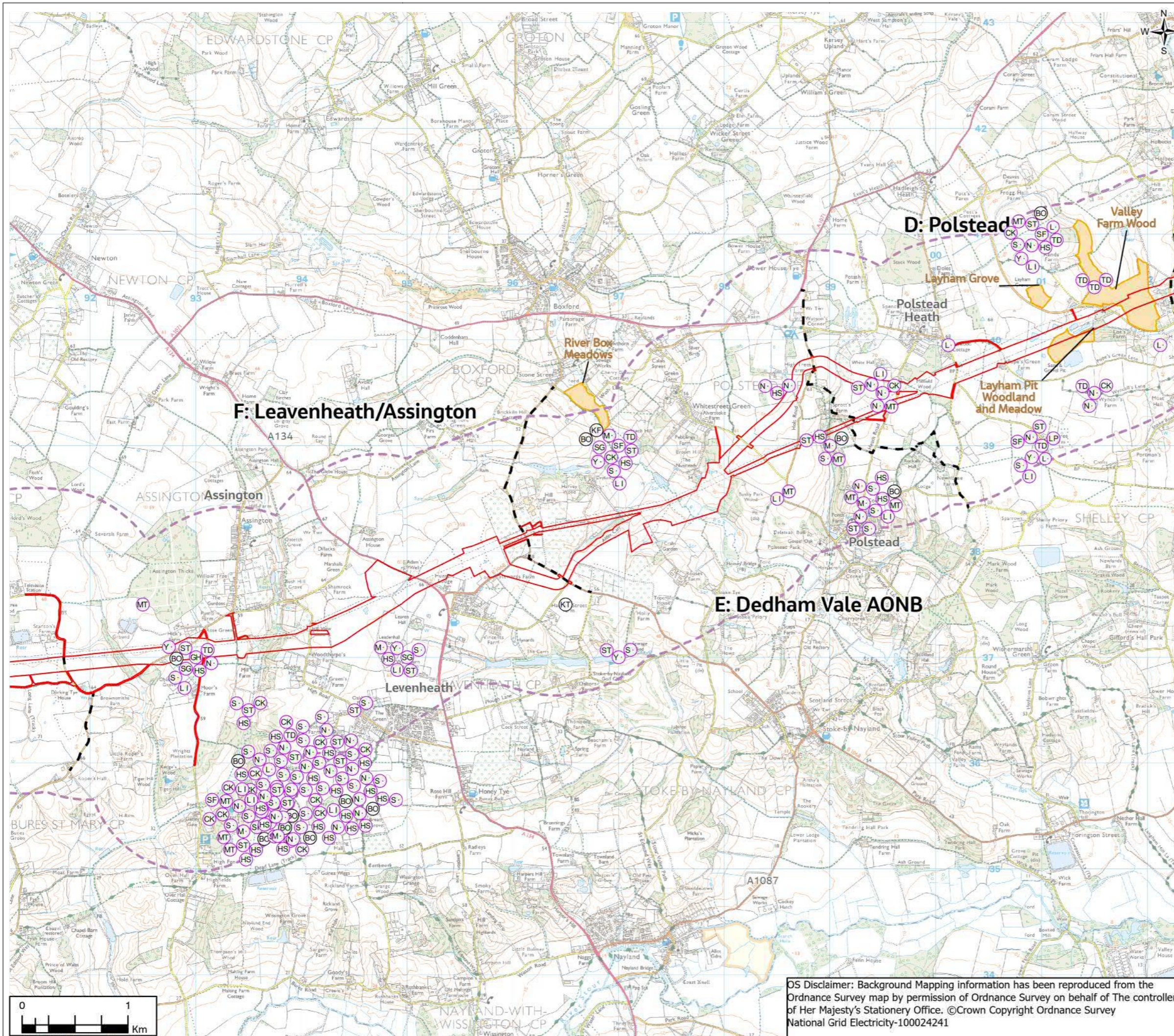
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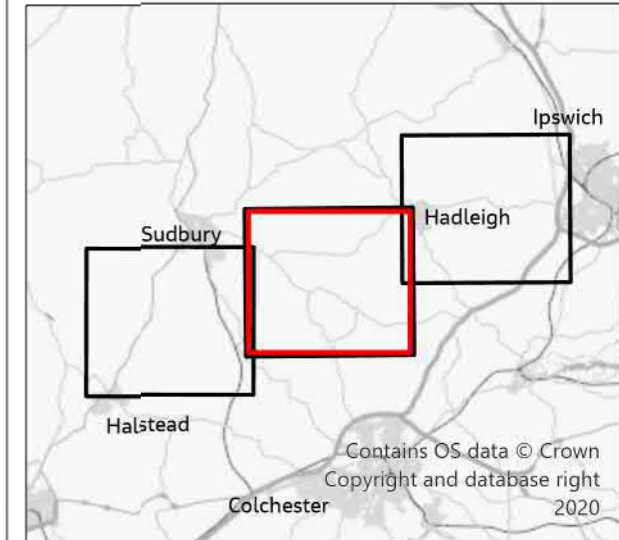
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FIGURE 7.8a



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - ▭ Designated Sites With Breeding Birds and Raptors Cited
 - ▭ Site of Special Scientific Interest (SSSI)
 - ▭ County Wildlife Site (CWS)
 - ▭ Essex Wildlife Trust (EWT) Nature Reserves
- 2021 Desk Study Schedule 1 Species**
- BO Barn Owl
 - KF Kingfisher
 - KT Red Kite
 - Red List
 - CK Cuckoo
 - CU Curlew
 - P Grey Partridge
 - GL Grey Wagtail
 - HS House Sparrow
 - L Lapwing
 - LS Lesser Spotted Woodpecker
 - LI Linnet
 - LP Little Ringed Plover
 - MT Marsh Tit
 - M Mistle Thrush
 - N Nightingale
 - S Skylark
 - ST Song Thrush
 - SF Spotted Flycatcher
 - SG Starling
 - TD Turtle Dove
 - YW Yellow Wagtail
 - Y Yellowhammer

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Drawing Title: **Breeding Birds and Raptor Desk Study**

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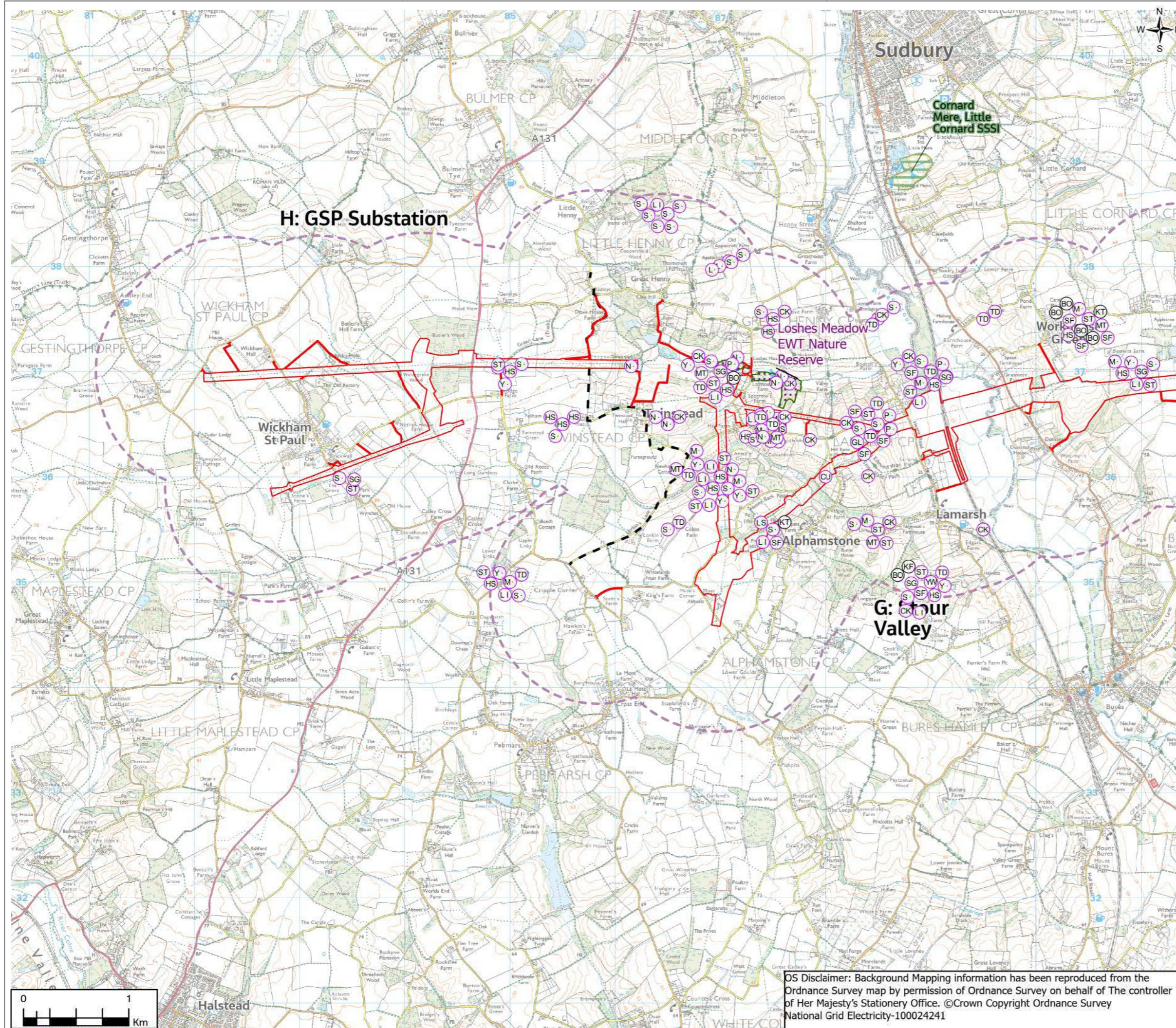
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Drawing No: **AAA_B2T_A7_1_Biodiversity_Baseline**

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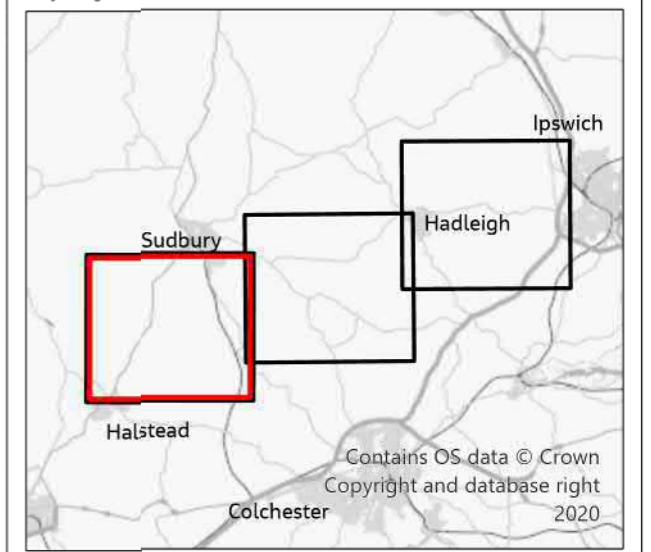
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FIGURE 7.8a



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - ▭ Designated Sites With Breeding Birds and Raptors Cited
 - ▭ Site of Special Scientific Interest (SSSI)
 - ▭ County Wildlife Site (CWS)
 - ▭ Essex Wildlife Trust (EWT) Nature Reserves
 - 2021 Desk Study Schedule 1 Species
 - (B) Barn Owl
 - (KF) Kingfisher
 - (KT) Red Kite
 - (C) Cuckoo
 - (CU) Curlew
 - (P) Grey Partridge
 - (GL) Grey Wagtail
 - (HS) House Sparrow
 - (L) Lapwing
 - (LS) Lesser Spotted Woodpecker
 - (LI) Linnet
 - (LP) Little Ringed Plover
 - (MT) Marsh Tit
 - (M) Mistle Thrush
 - (N) Nightingale
 - (S) Skylark
 - (ST) Song Thrush
 - (SF) Spotted Flycatcher
 - (SG) Starling
 - (TD) Turtle Dove
 - (YW) Yellow Wagtail
 - (Y) Yellowhammer

Only Designated Sites with breeding birds and raptors in citation are displayed.



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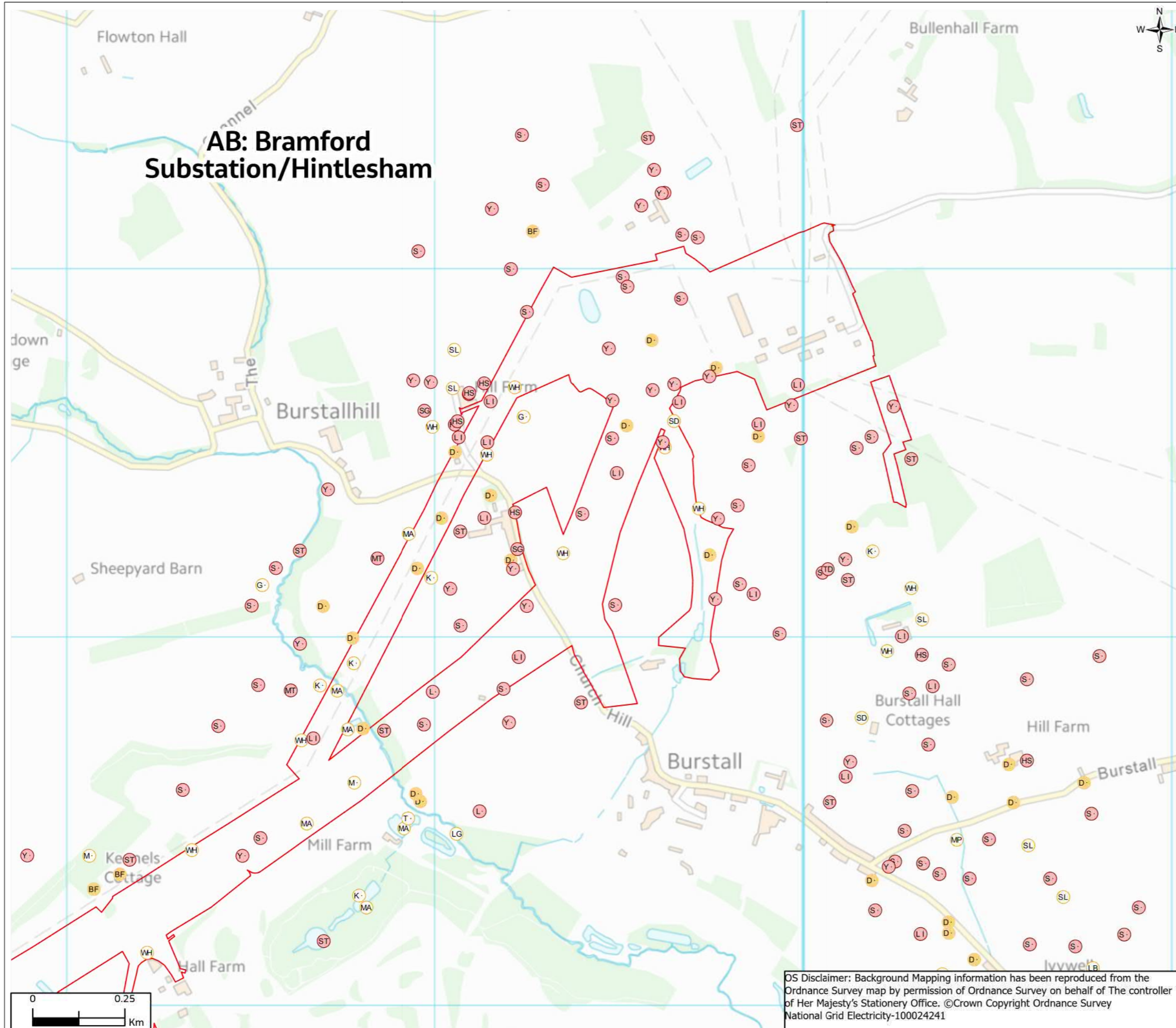
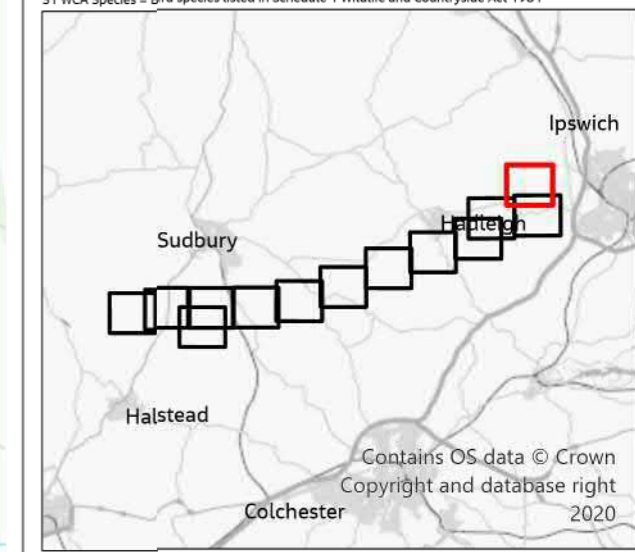


FIGURE 7.8b

- Legend**
- Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - Amber List Species (BoCC) and S41 NERC Act Species
 - HS House Sparrow
 - L Lapwing
 - LI Linnet
 - MT Marsh Tit
 - S Skylark
 - ST Song Thrush
 - SG Starling
 - TD Turtle Dove
 - Y Yellowhammer
 - D Dunnock
 - G Green Woodpecker
 - K Kestrel
 - LB Lesser Black-backed Gull
 - LG Little Grebe
 - MP Meadow Pipit
 - MA Mallard
 - M Mistle Thrush
 - SD Stock Dove
 - SL Swallow
 - T Teal
 - WH Whitethroat
 - BF Bullfinch

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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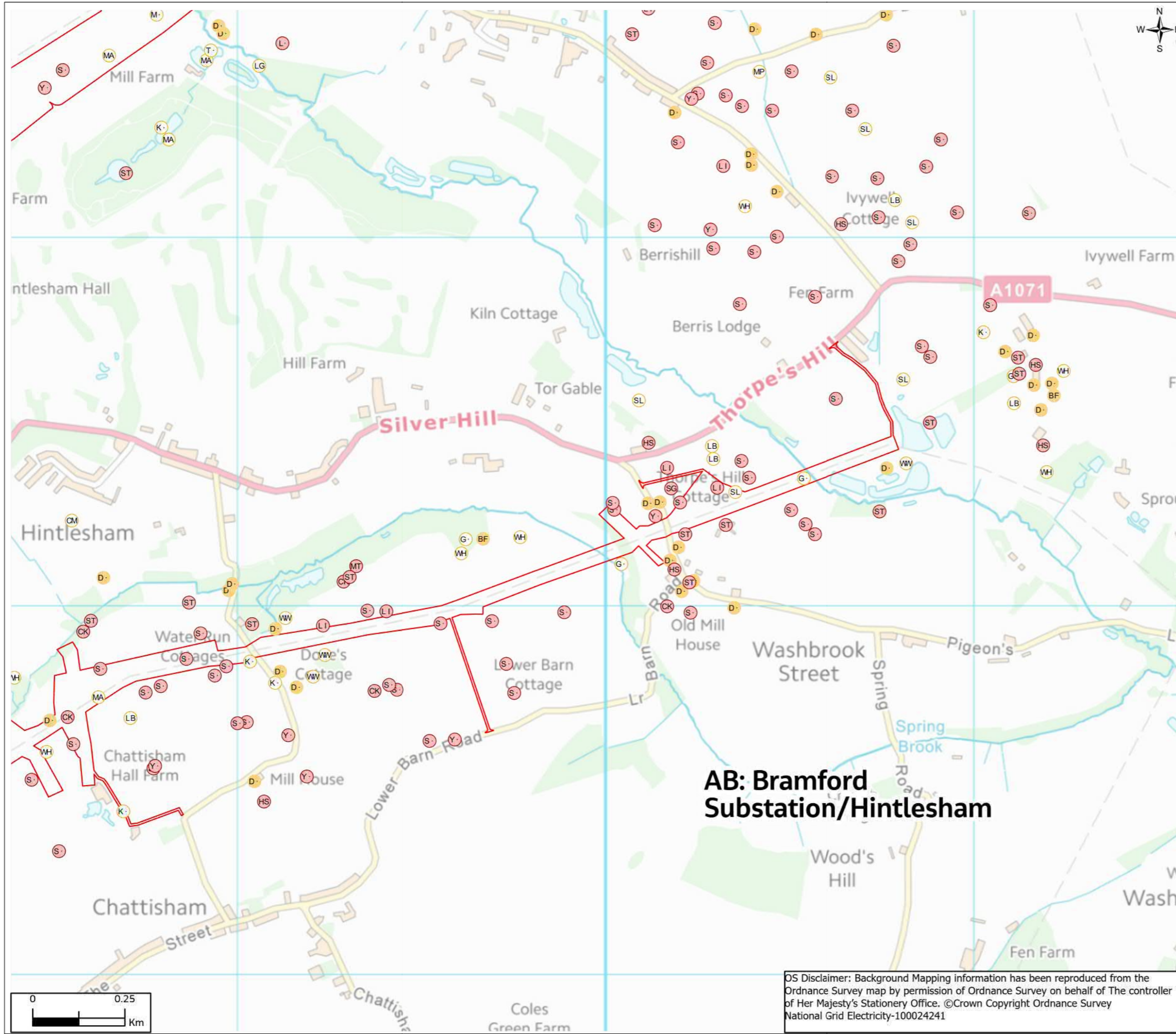
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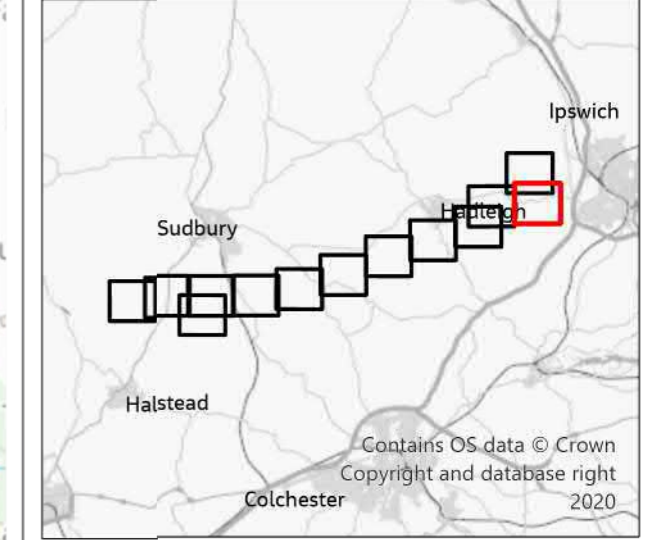
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FIGURE 7.8b



- Legend**
- Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - Amber List Species (BoCC) and S41 NERC Act Species
 - Bullfinch
 - Cuckoo
 - House Sparrow
 - Lapwing
 - Linnet
 - Marsh Tit
 - Skylark
 - Song Thrush
 - Starling
 - Yellowhammer
 - Dunnock
 - Common Gull
 - Green Woodpecker
 - Kestrel
 - Lesser Black-backed Gull
 - Little Grebe
 - Meadow Pipit
 - Mallard
 - Mistle Thrush
 - Swallow
 - Teal
 - Whitethroat
 - Willow Warbler

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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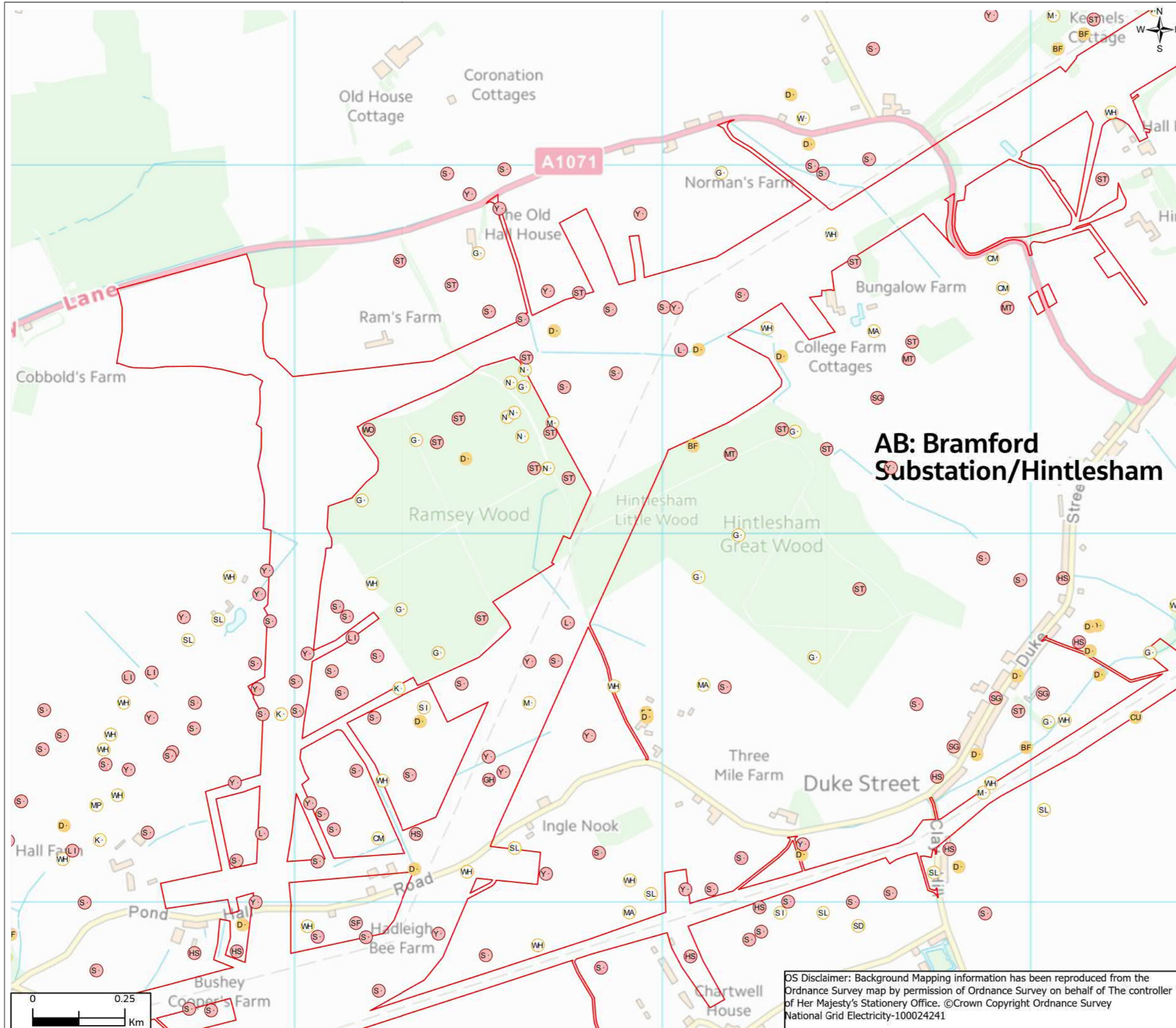
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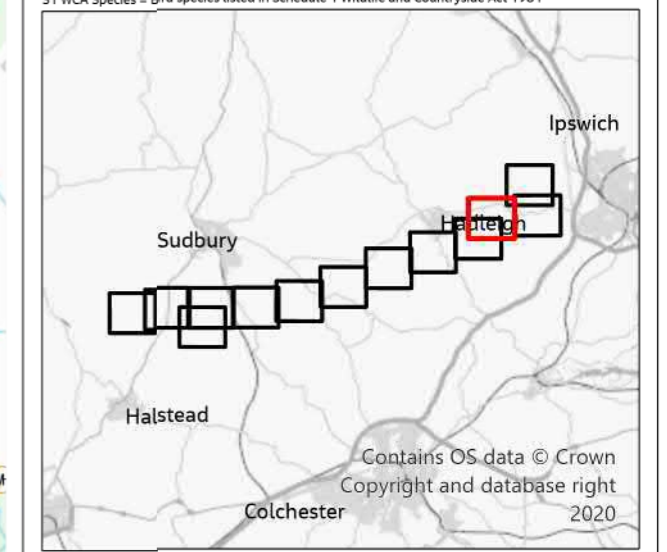
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FIGURE 7.8b



- Legend**
- Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - Amber List Species (BoCC)
 - Curlew
 - Dunnock
 - Grasshopper Warbler
 - Common Gull
 - House Sparrow
 - Green Woodpecker
 - Lapwing
 - Kestrel
 - Linnet
 - Meadow Pipit
 - Marsh Tit
 - Mallard
 - Skylark
 - Mistle Thrush
 - Song Thrush
 - Nightingale
 - Spotted Flycatcher
 - Stock Dove
 - Starling
 - Swallow
 - Wood Warbler
 - Swift
 - Yellowhammer
 - Wheatear
 - Whitethroat
 - Bullfinch

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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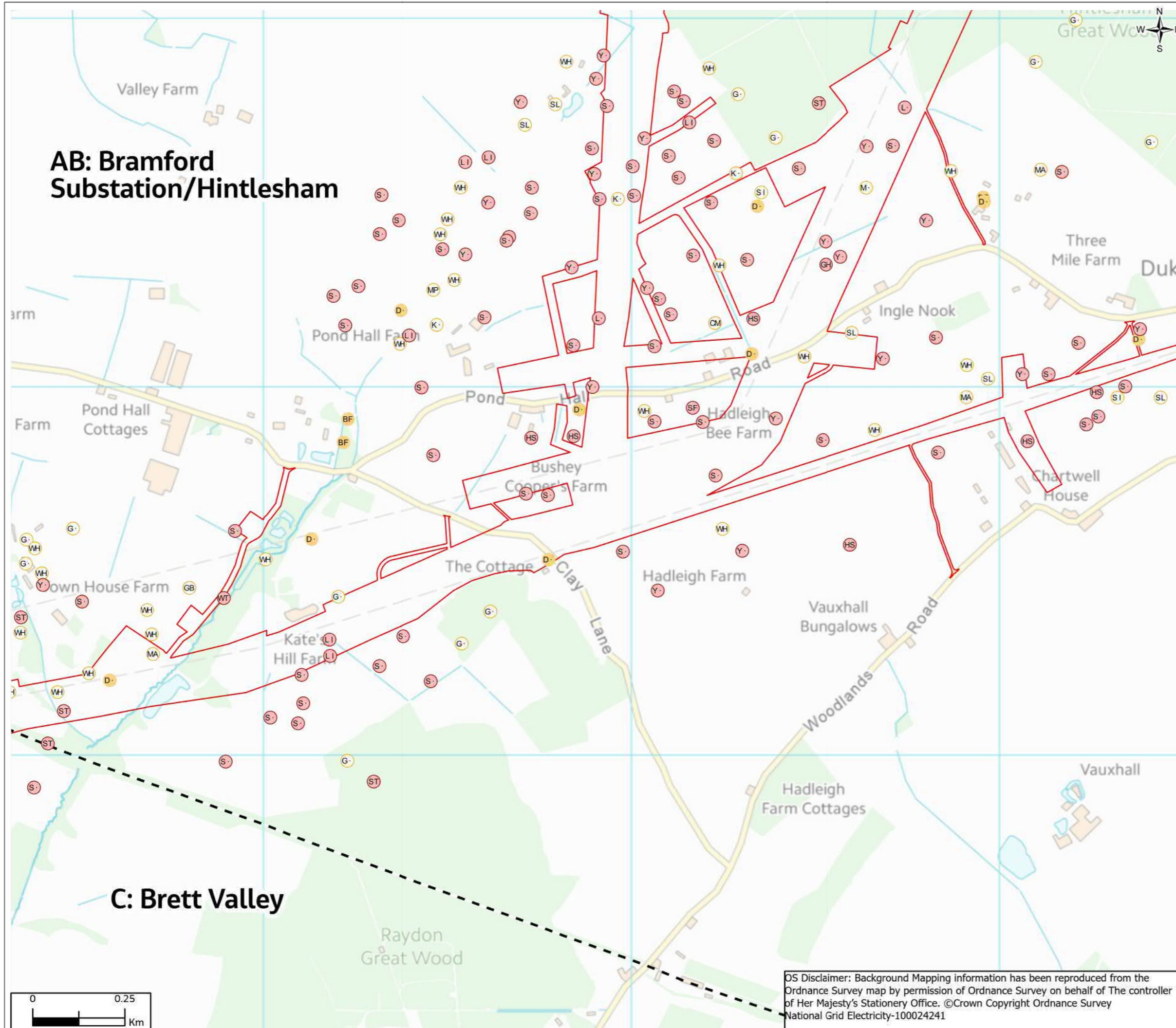
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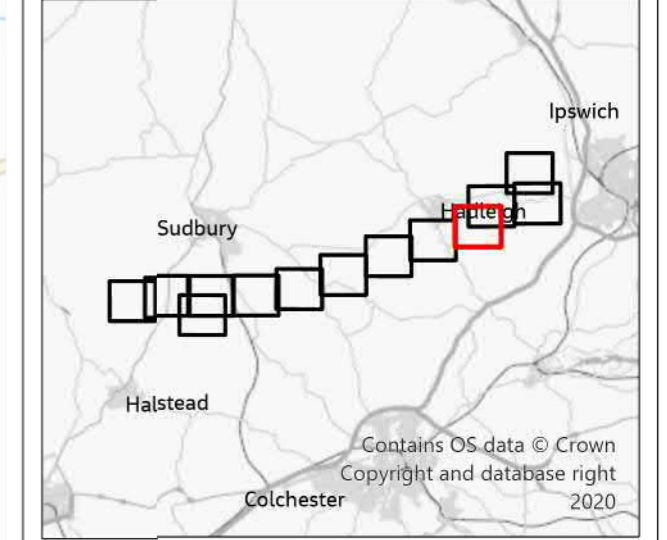
FIGURE 7.8b

AB: Bramford Substation/Hintlesham



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
- Red List Species (BoCC) and S41 NERC Act Species**
- ⊙ Grasshopper Warbler
 - ⊙ House Sparrow
 - ⊙ Lapwing
 - ⊙ Linnet
 - ⊙ Skylark
 - ⊙ Song Thrush
 - ⊙ Spotted Flycatcher
 - ⊙ Willow Tit
 - ⊙ Yellowhammer
- Amber List Species (BoCC) and S41 NERC Act Species**
- ⊙ Bullfinch
 - ⊙ Dunnock
 - ⊙ Common Gull
 - ⊙ Great Black-backed Gull
 - ⊙ Green Woodpecker
 - ⊙ Kestrel
 - ⊙ Meadow Pipit
 - ⊙ Mallard
 - ⊙ Mistle Thrush
 - ⊙ Swallow
 - ⊙ Swift
 - ⊙ Whitethroat

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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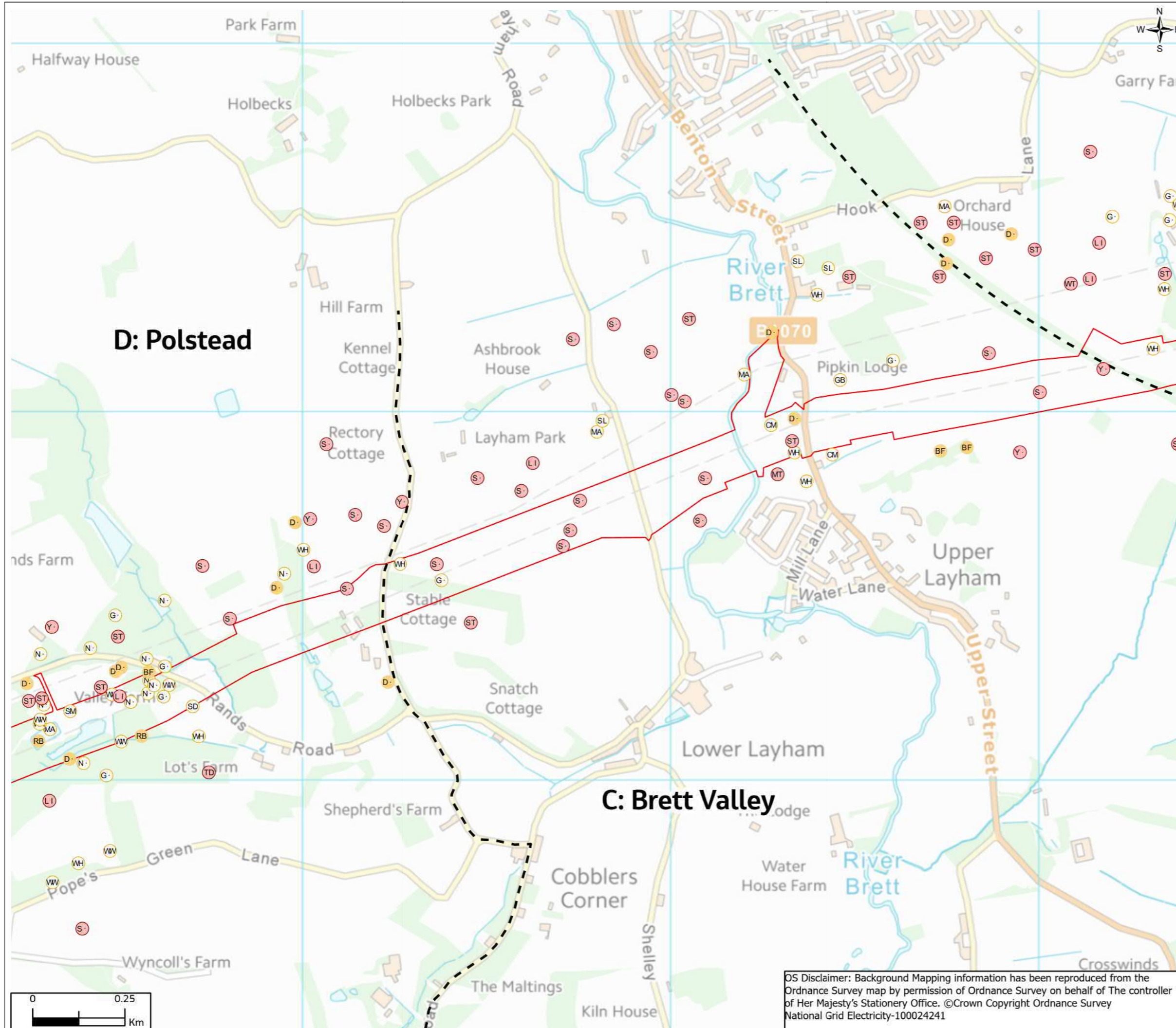
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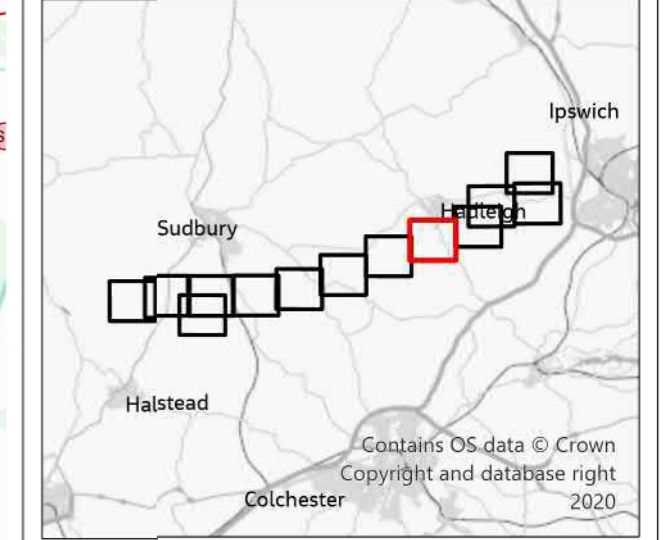
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FIGURE 7.8b



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - LI Linnet
 - MT Marsh Tit
 - S Skylark
 - ST Song Thrush
 - TD Turtle Dove
 - WT Willow Tit
 - Y Yellowhammer
 - Amber List Species (BoCC) and S41 NERC Act Species
 - BF Bullfinch
 - D Dunnoek
 - RB Reed Bunting
 - Amber List Species (BoCC)
 - CG Common Gull
 - GB Great Black-backed Gull
 - GW Green Woodpecker
 - MA Mallard
 - N Nightingale
 - SM Sand Martin
 - SD Stock Dove
 - SL Swallow
 - WH Whitethroat
 - WW Willow Warbler

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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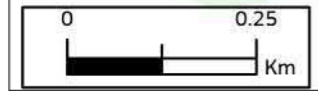
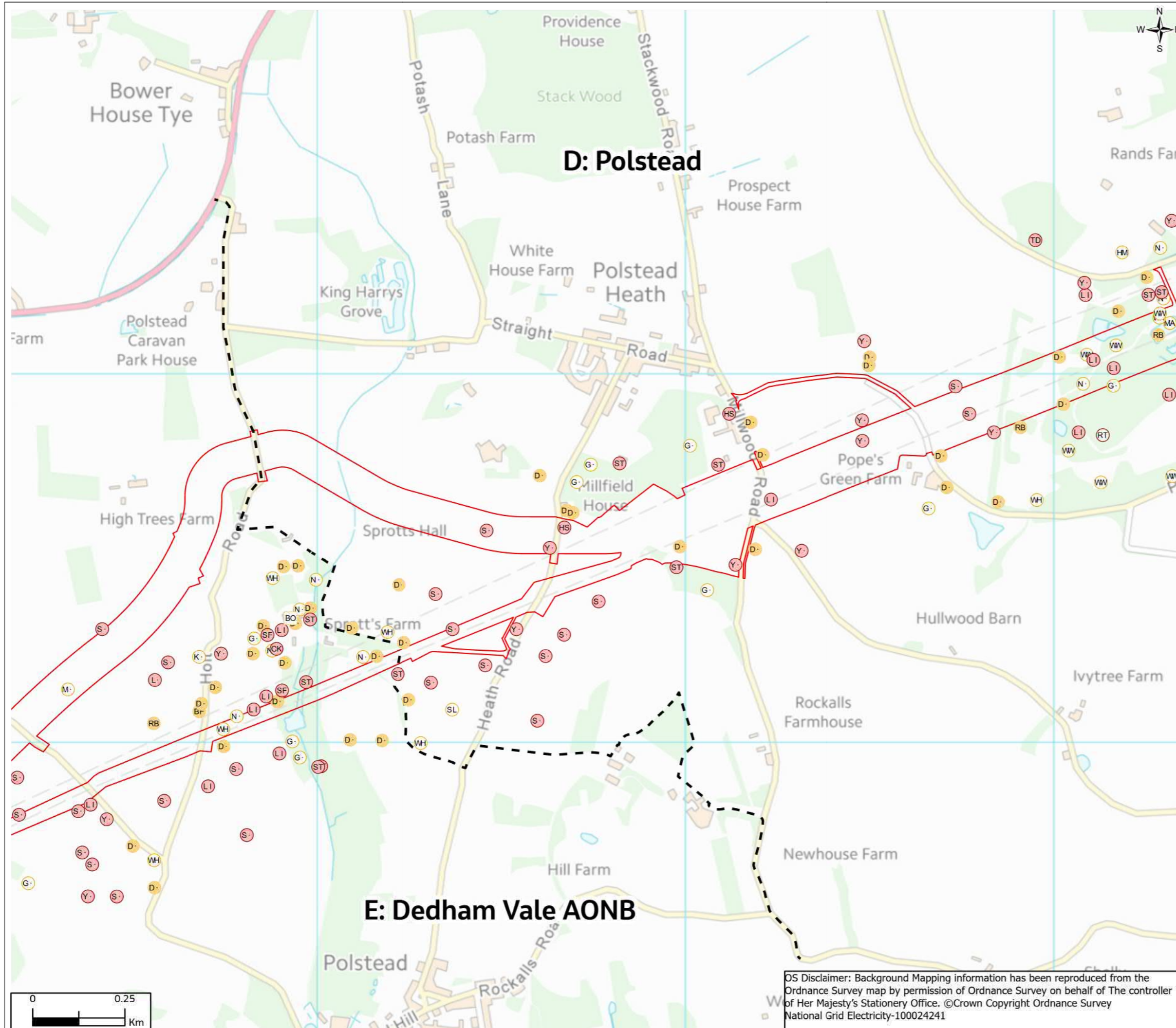
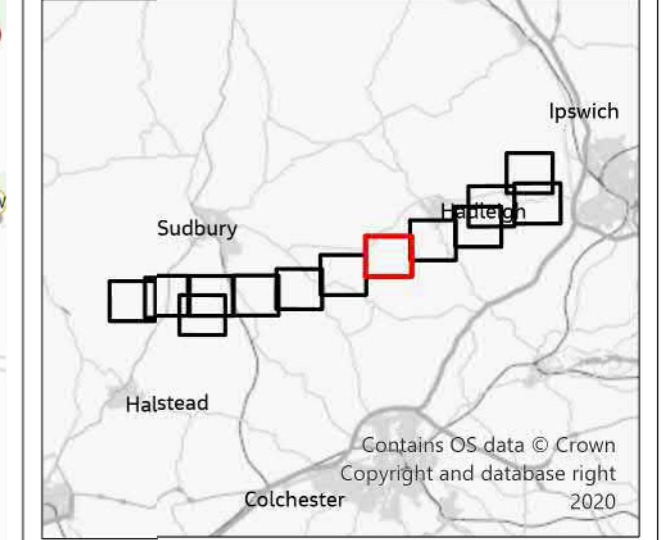


FIGURE 7.8b



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - S1 WCA Species and Amber List Species (BoCC)
 - BO Barn Owl
 - Red List Species (BoCC) and S41 NERC Act Species
 - CK Cuckoo
 - HS House Sparrow
 - L Lapwing
 - LI Linnat
 - S Skylark
 - ST Song Thrush
 - SF Spotted Flycatcher
 - TD Turtle Dove
 - Y Yellowhammer
- Red List Species (BoCC)**
- RT Redstart
- Amber List Species (BoCC) and S41 NERC Act Species**
- BF Bullfinch
 - D Dunnock
 - RB Reed Bunting
 - Green Woodpecker
 - House Martin
 - K Kestrel
 - M Mallard
 - M Mistle Thrush
 - N Nightingale
 - SL Swallow
 - WH Whitethroat
 - WW Willow Warbler

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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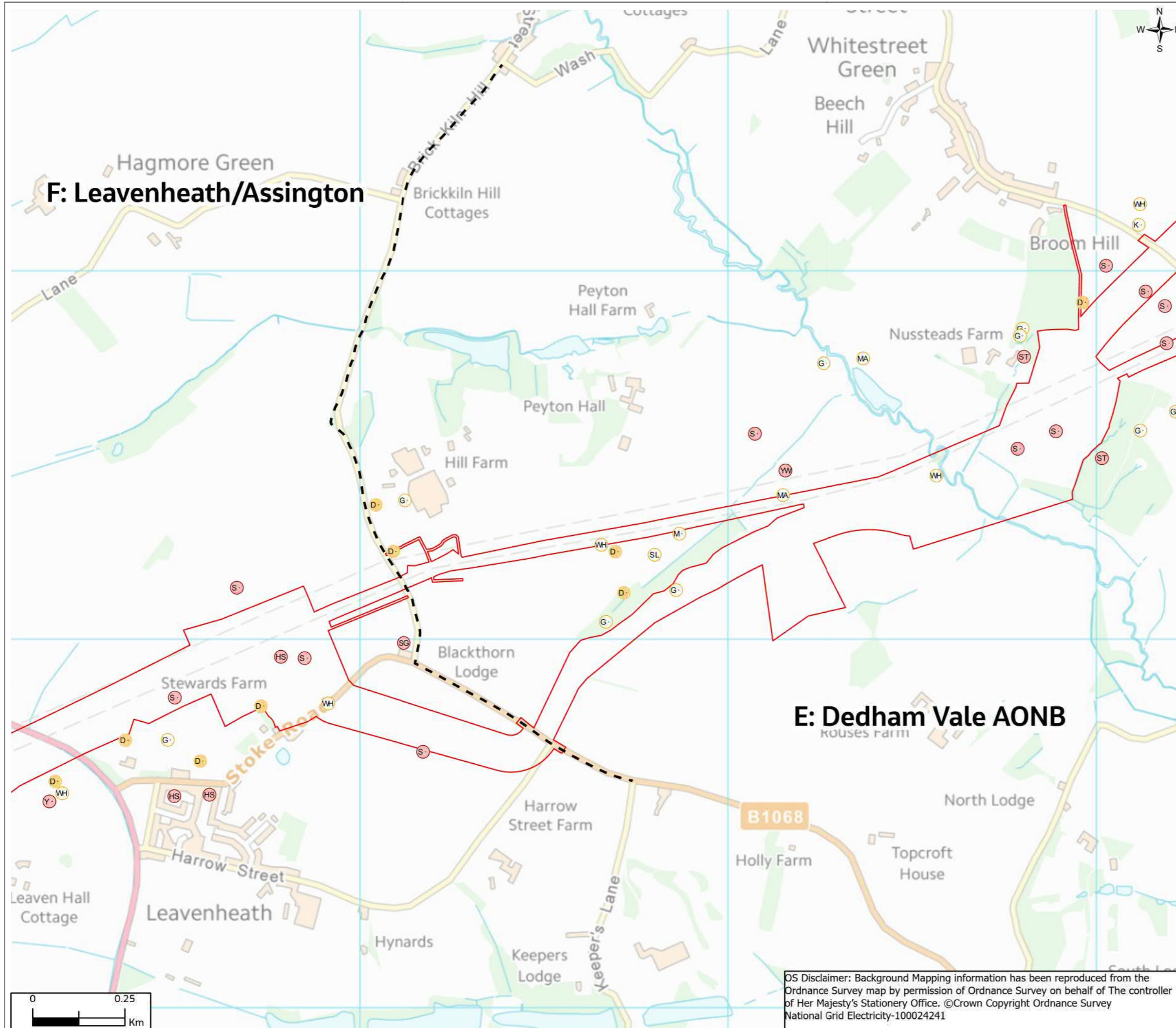
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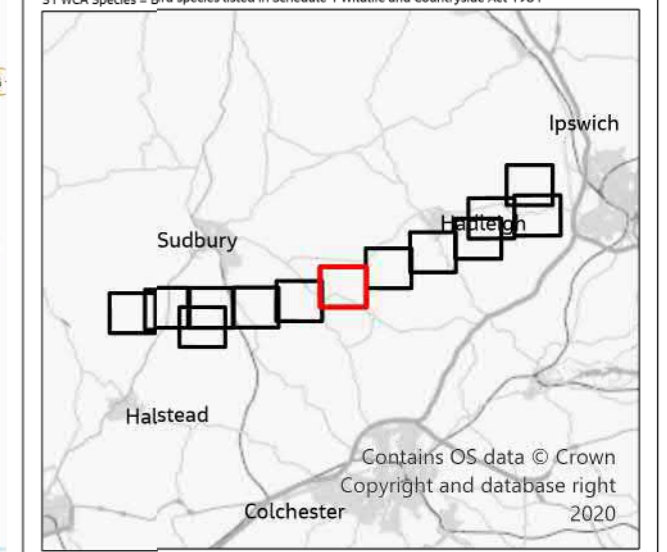
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FIGURE 7.8b



- Legend
- Section Boundaries
 - ▭ Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - Grey Partridge (G)
 - House Sparrow (HS)
 - Skylark (S)
 - Song Thrush (ST)
 - Starling (S)
 - Yellow Wagtail (YW)
 - Yellowhammer (Y)
 - Amber List Species (BoCC) and S41 NERC Act Species
 - Duncock (D)
 - Amber List Species (BoCC)
 - Green Woodpecker (G)
 - Kestrel (K)
 - Mallard (MA)
 - Mistle Thrush (M)
 - Swallow (SL)
 - Whitethroat (WH)
- BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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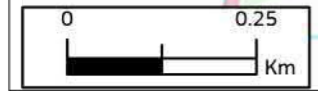
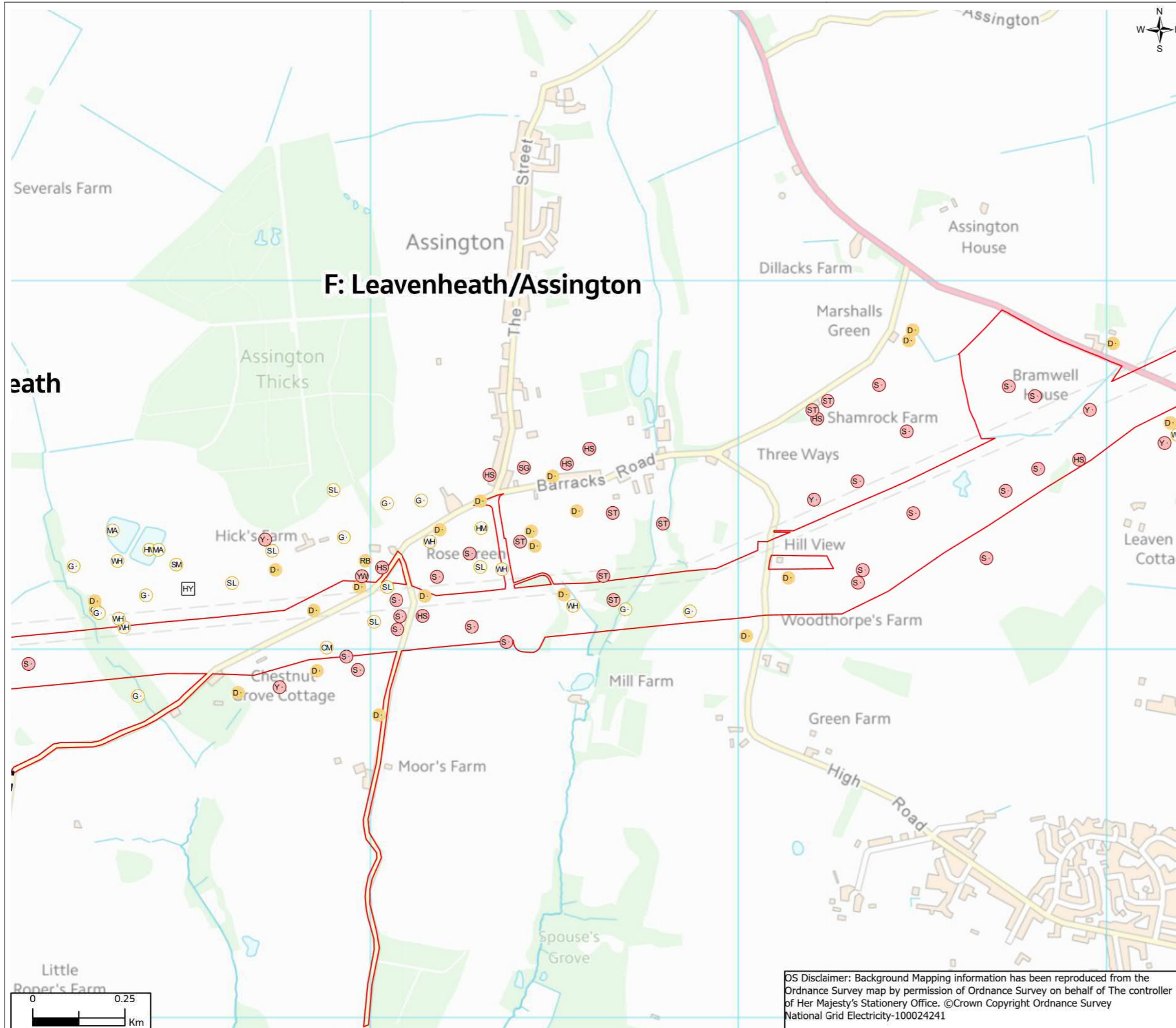
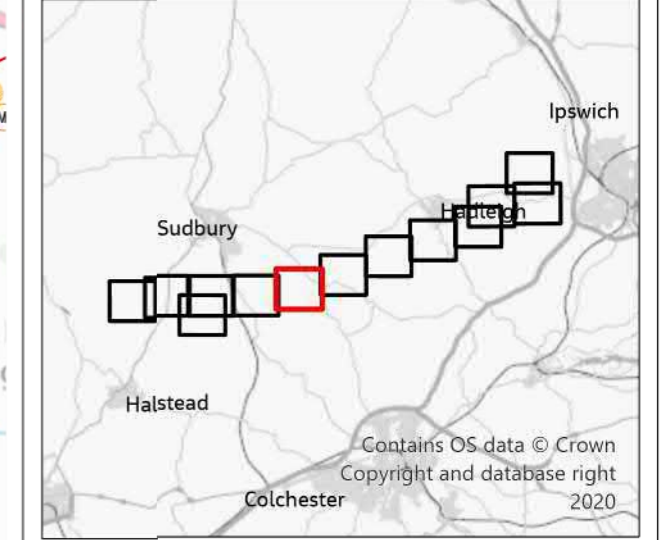


FIGURE 7.8b



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - S1 WCA Species**
 - ▭ Hobby
 - Red List Species (BoCC) and S41 NERC Act Species**
 - Grey Partridge
 - House Sparrow
 - Skylark
 - Song Thrush
 - Starling
 - Yellow Wagtail
 - Yellowhammer
 - Amber List Species (BoCC) and S41 NERC Act Species**
 - Dunnock
 - Reed Bunting
 - Amber List Species (BoCC)**
 - Common Gull
 - Green Woodpecker
 - House Martin
 - Mallard
 - Sand Martin
 - Swallow
 - Whitethroat

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
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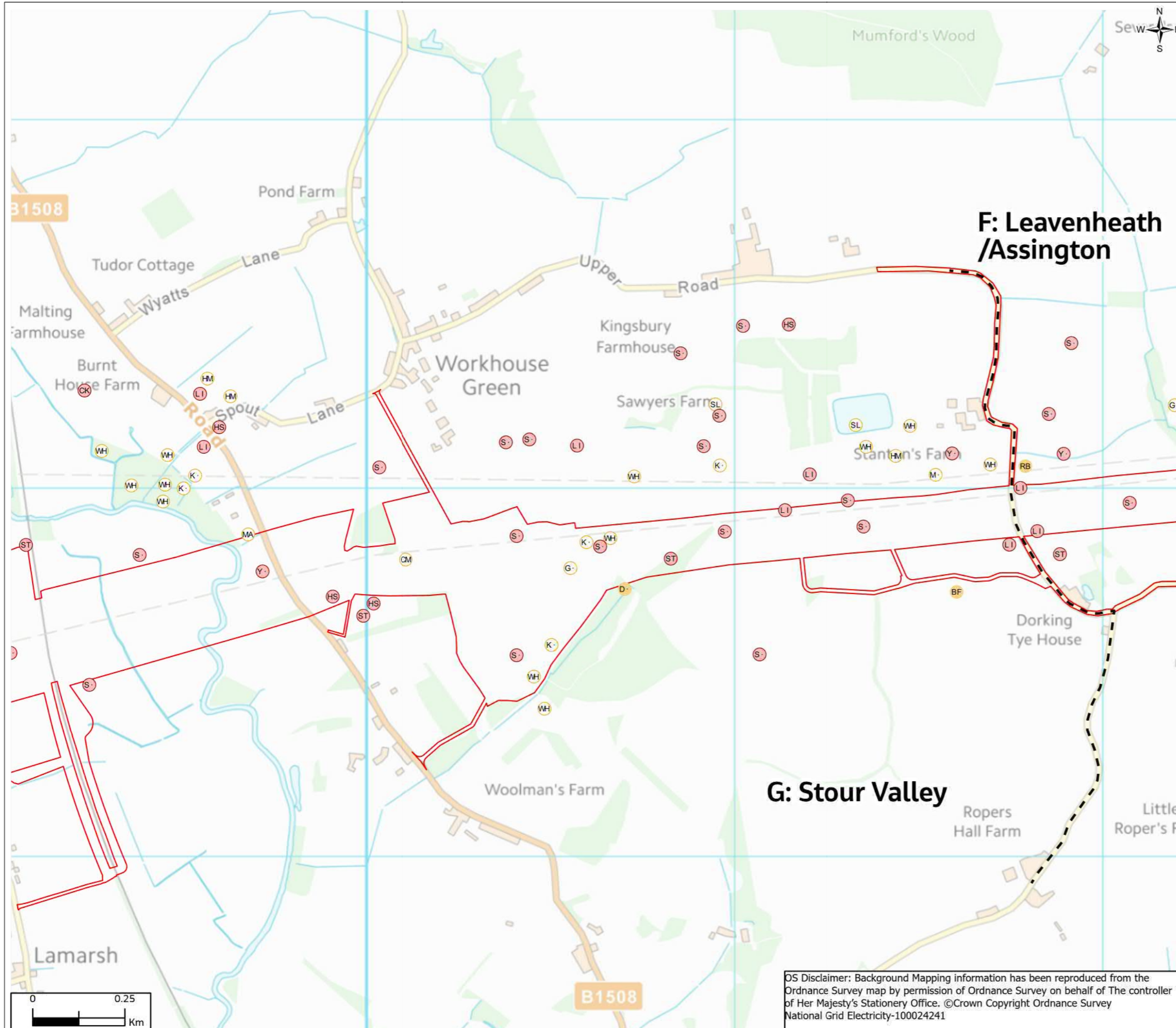
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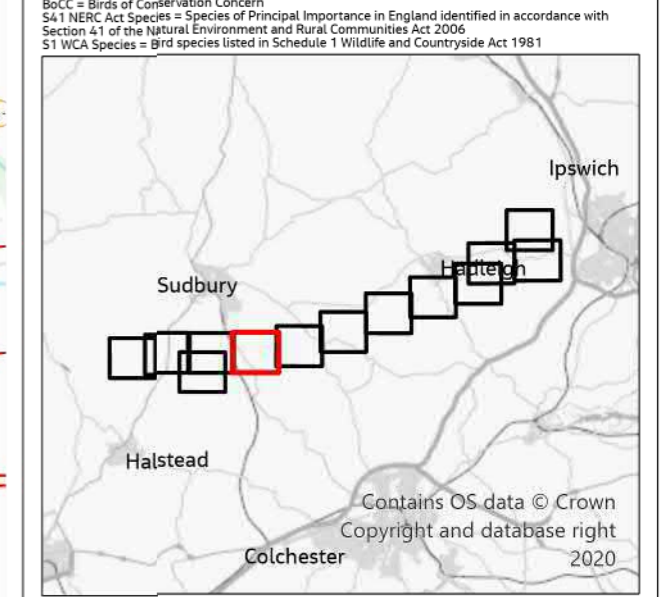
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FIGURE 7.8b



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - Cuckoo
 - Grey Partridge
 - Linnet
 - Skylark
 - Song Thrush
 - Yellowhammer
 - Amber List Species (BoCC) and S41 NERC Act Species
 - Bullfinch
 - Dunnock
 - Reed Bunting
 - Amber List Species (BoCC)
 - Common Gull
 - Green Woodpecker
 - House Martin
 - Kestrel
 - Mallard
 - Mistle Thrush
 - Swallow
 - Whitethroat

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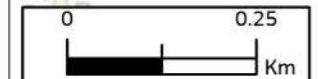
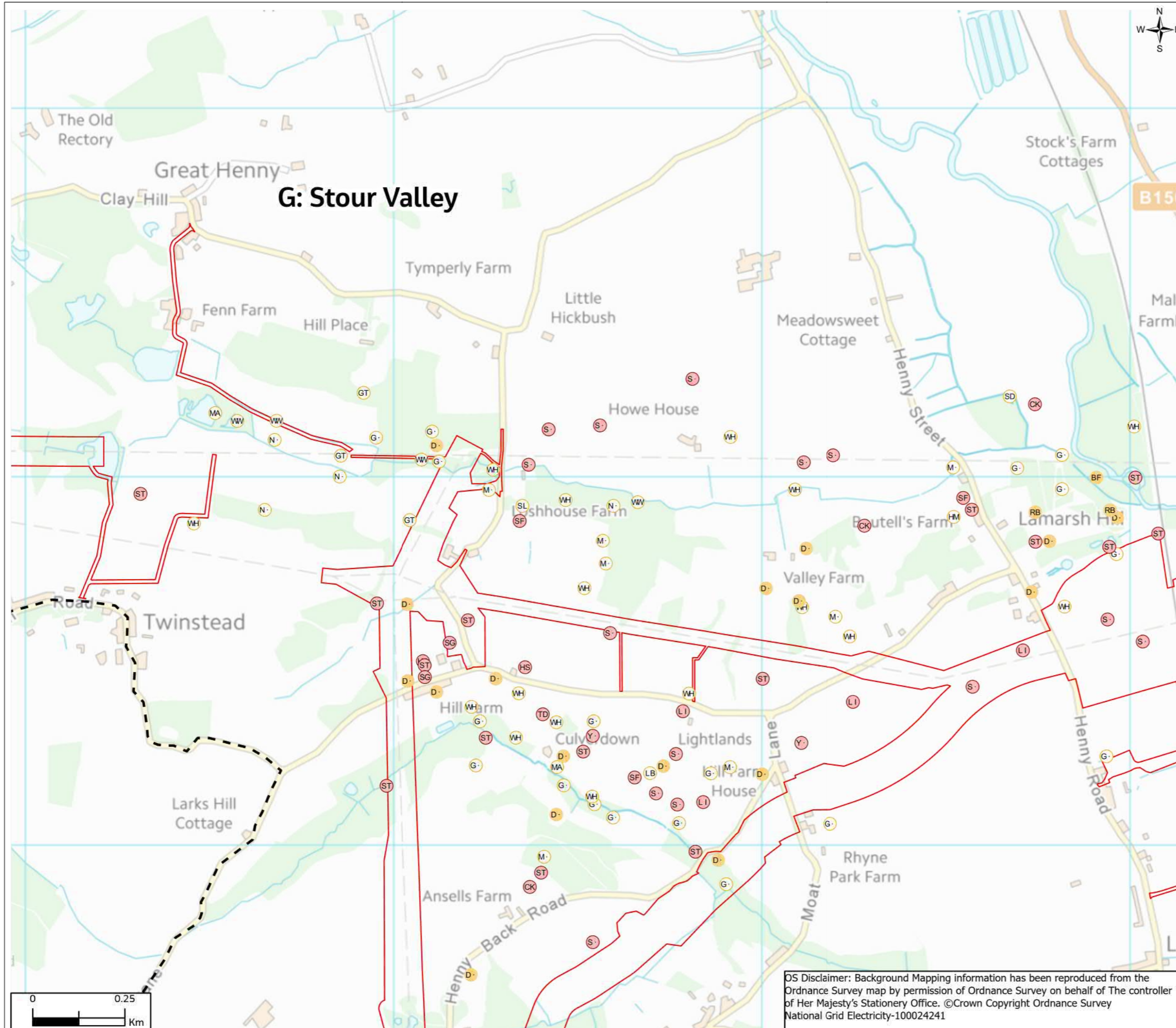
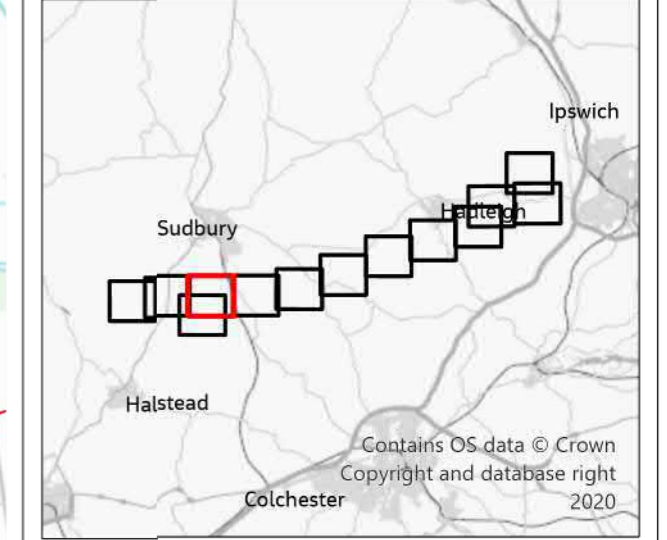


FIGURE 7.8b



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - Amber List Species (BoCC) and S41 NERC Act Species
 - Bullfinch
 - Duncock
 - Reed Bunting
 - Great Tit
 - Green Woodpecker
 - House Martin
 - Lesser Black-backed Gull
 - Mallard
 - Mistle Thrush
 - Nightingale
 - Stock Dove
 - Swallow
 - Whitethroat
 - Willow Warbler

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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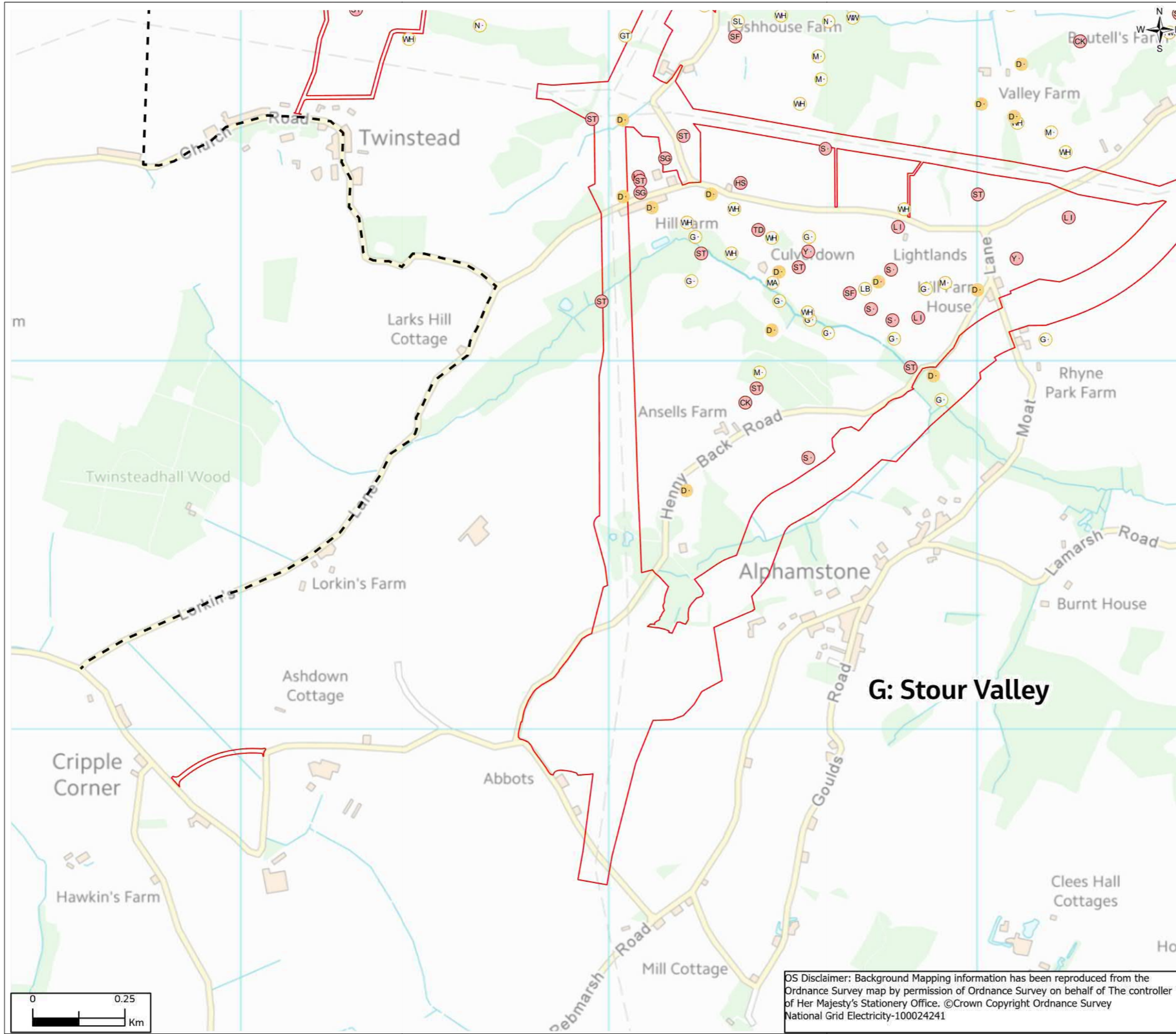
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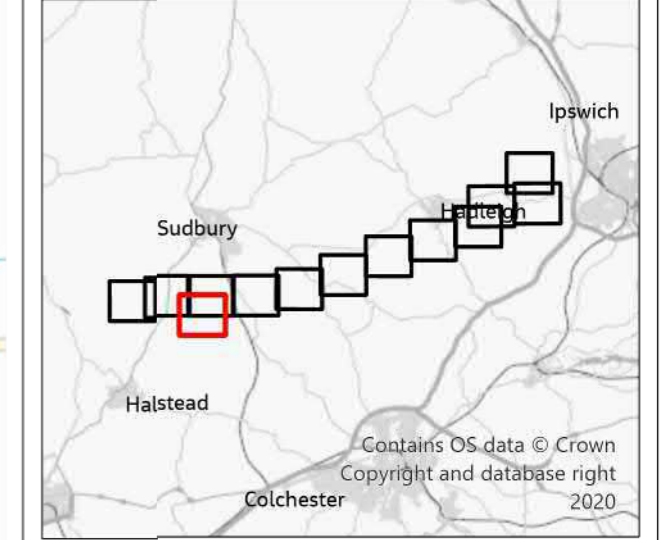
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FIGURE 7.8b



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
- Red List Species (BoCC) and S41 NERC Act Species**
- CK Cuckoo
 - HS House Sparrow
 - LI Linnets
 - SK Skylark
 - ST Song Thrush
 - SP Spotted Flycatcher
 - SR Starling
 - TD Turtle Dove
 - Y Yellowhammer
- Amber List Species (BoCC) and S41 NERC Act Species**
- D Dunnock
 - GT Great Tit
 - GW Green Woodpecker
 - HM House Martin
 - LB Lesser Black-backed Gull
 - MA Mallard
 - MT Mistle Thrush
 - N Nightingale
 - SL Swallow
 - WH Whitethroat
 - WW Willow Warbler

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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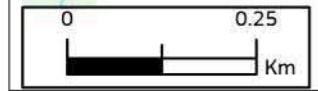
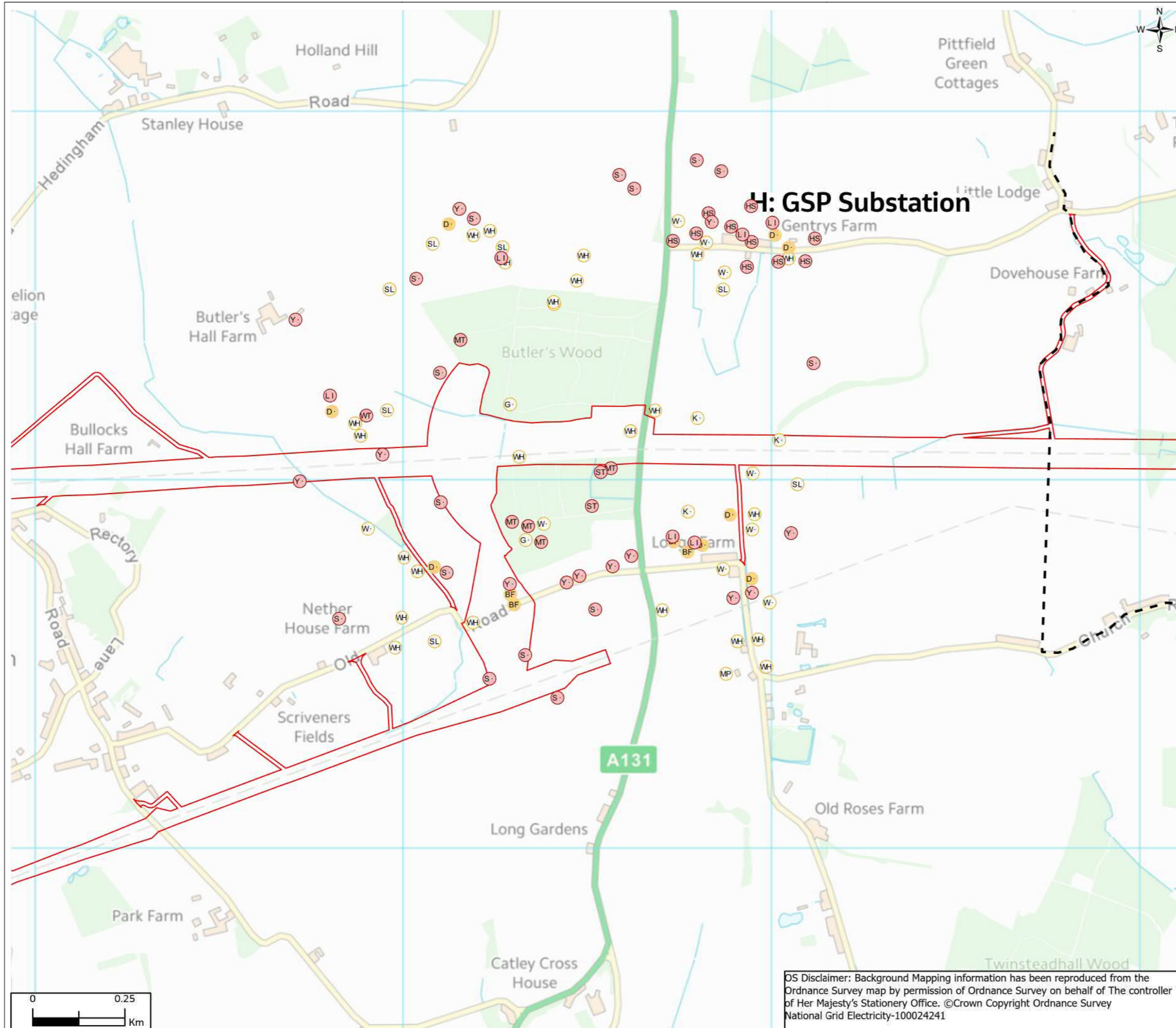
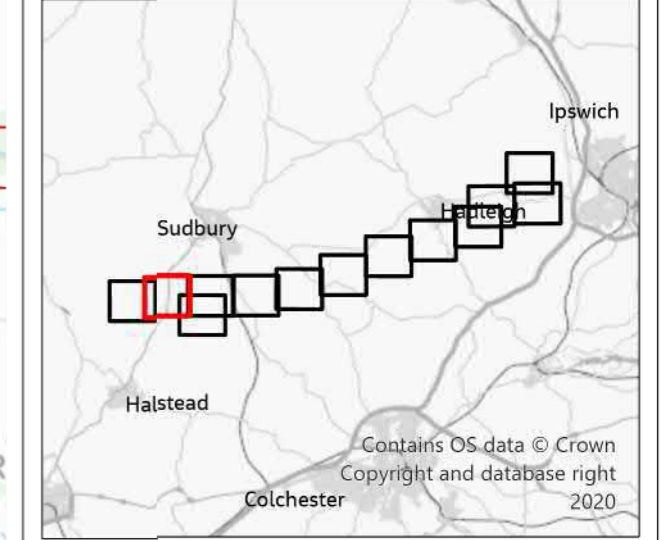


FIGURE 7.8b



- Legend**
- Section Boundaries
 - - - Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - Amber List Species (BoCC) and S41 NERC Act Species
- | | |
|-----------------|--------------------|
| ● House Sparrow | ● Bullfinch |
| ● Linnets | ● Dunnock |
| ● Marsh Tit | ● Green Woodpecker |
| ● Skylark | ● Kestrel |
| ● Song Thrush | ● Meadow Pipit |
| ● Willow Tit | ● Mallard |
| ● Yellowhammer | ● Swallow |
| | ● Wheatear |
| | ● Whitethroat |

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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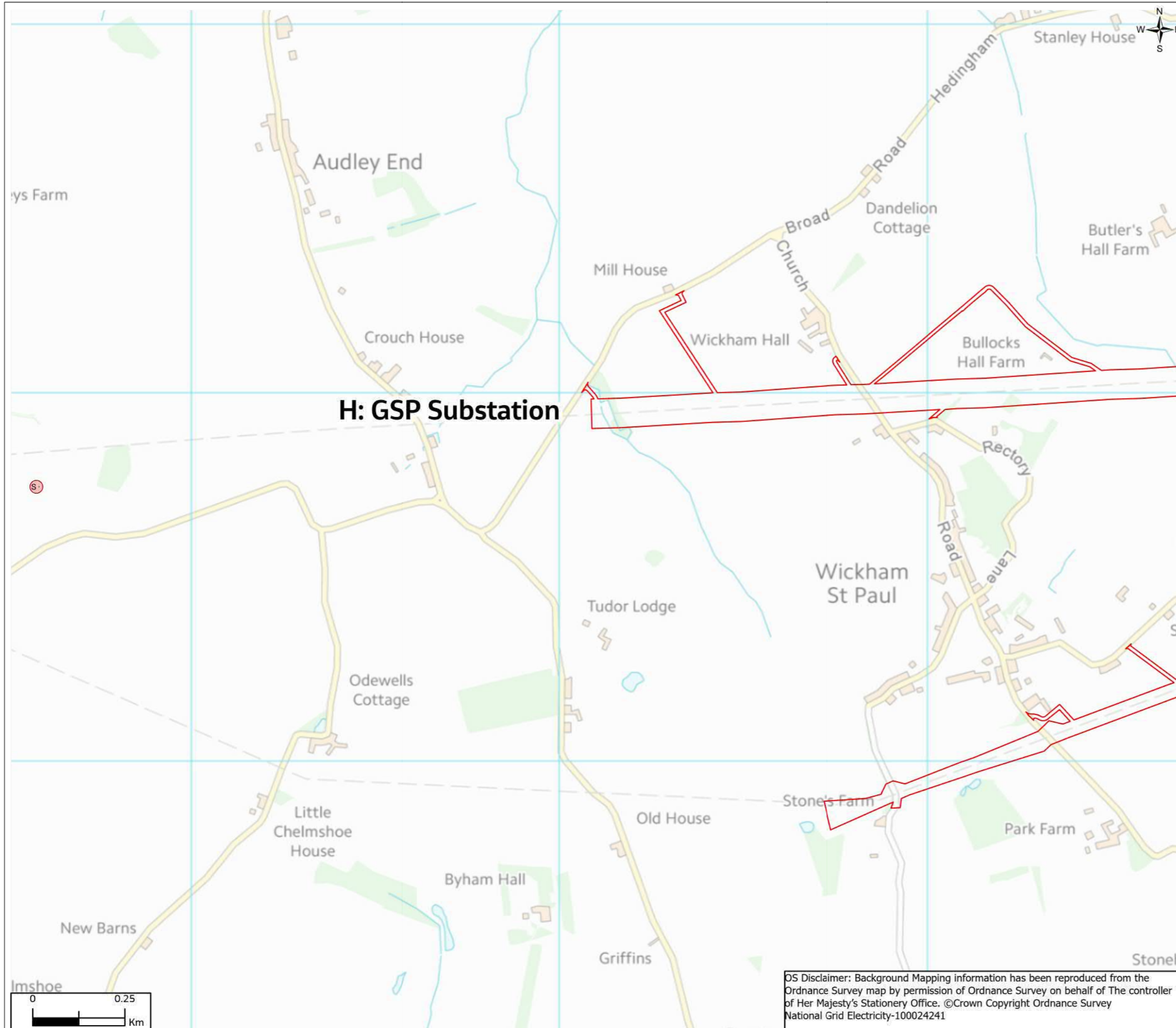
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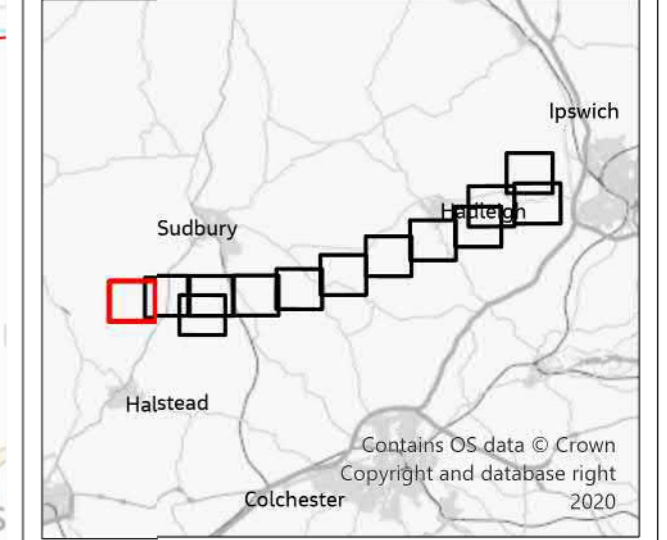
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FIGURE 7.8b



- Legend
- Draft Order Limits
 - Red List Species (BoCC) and S41 NERC Act Species
 - S Skylark

BoCC = Birds of Conservation Concern
 S41 NERC Act Species = Species of Principal Importance in England identified in accordance with Section 41 of the Natural Environment and Rural Communities Act 2006
 S1 WCA Species = Bird species listed in Schedule 1 Wildlife and Countryside Act 1981



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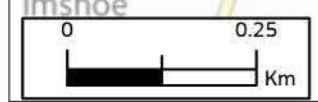
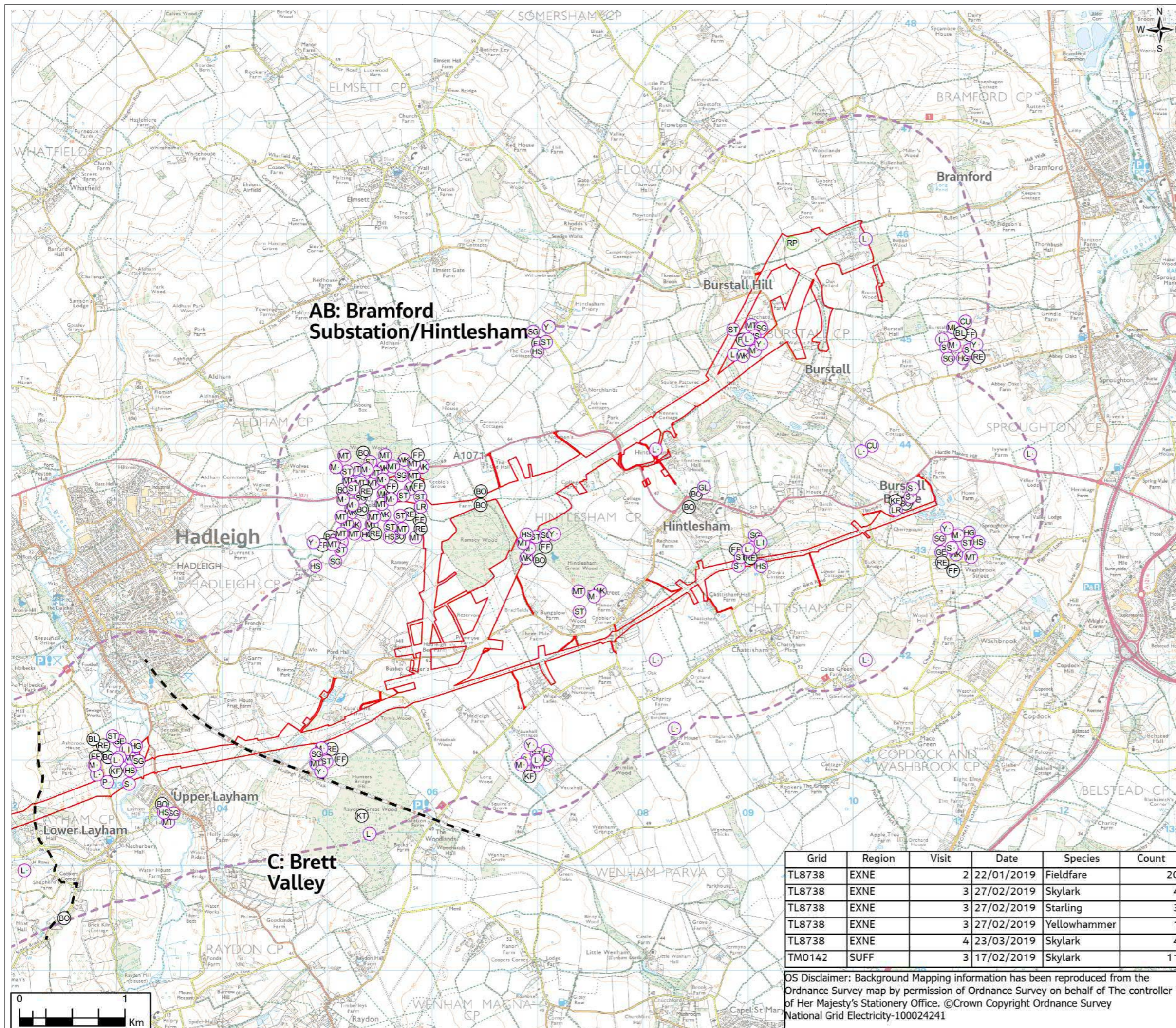
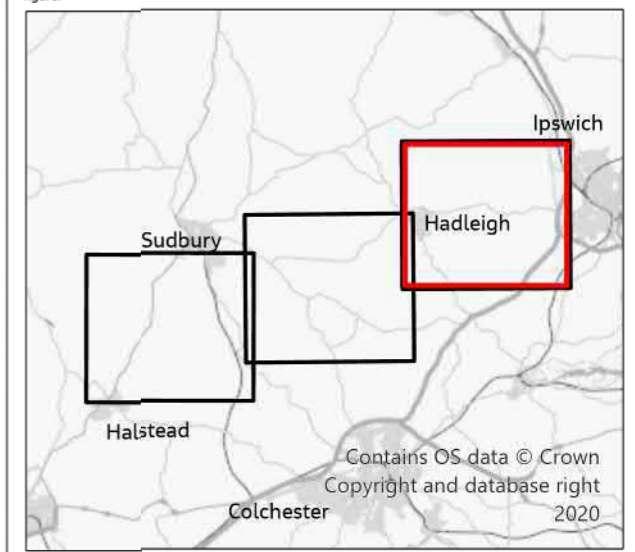


FIGURE 7.9



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - Schedule 1 Species
 - Grey Partridge
 - Grey Wagtail
 - Herring Gull
 - House Sparrow
 - Lapwing
 - Lesser Redpoll
 - Linnet
 - Marsh Tit
 - Mistle Thrush
 - Skylark
 - Song Thrush
 - Starling
 - Woodcock
 - Yellowhammer
 - Cuckoo
 - Green Sandpiper
 - Scaup
 - Merlin
 - Nightingale
 - Amber List
 - Redshank
 - Other
 - Common Ringed Plover
 - Cormorant
 - 2021 Desk Study - Red List
 - Curlew

For English Wintering Birds Survey study area summary see inset table. Survey Area beyond scale of figure.



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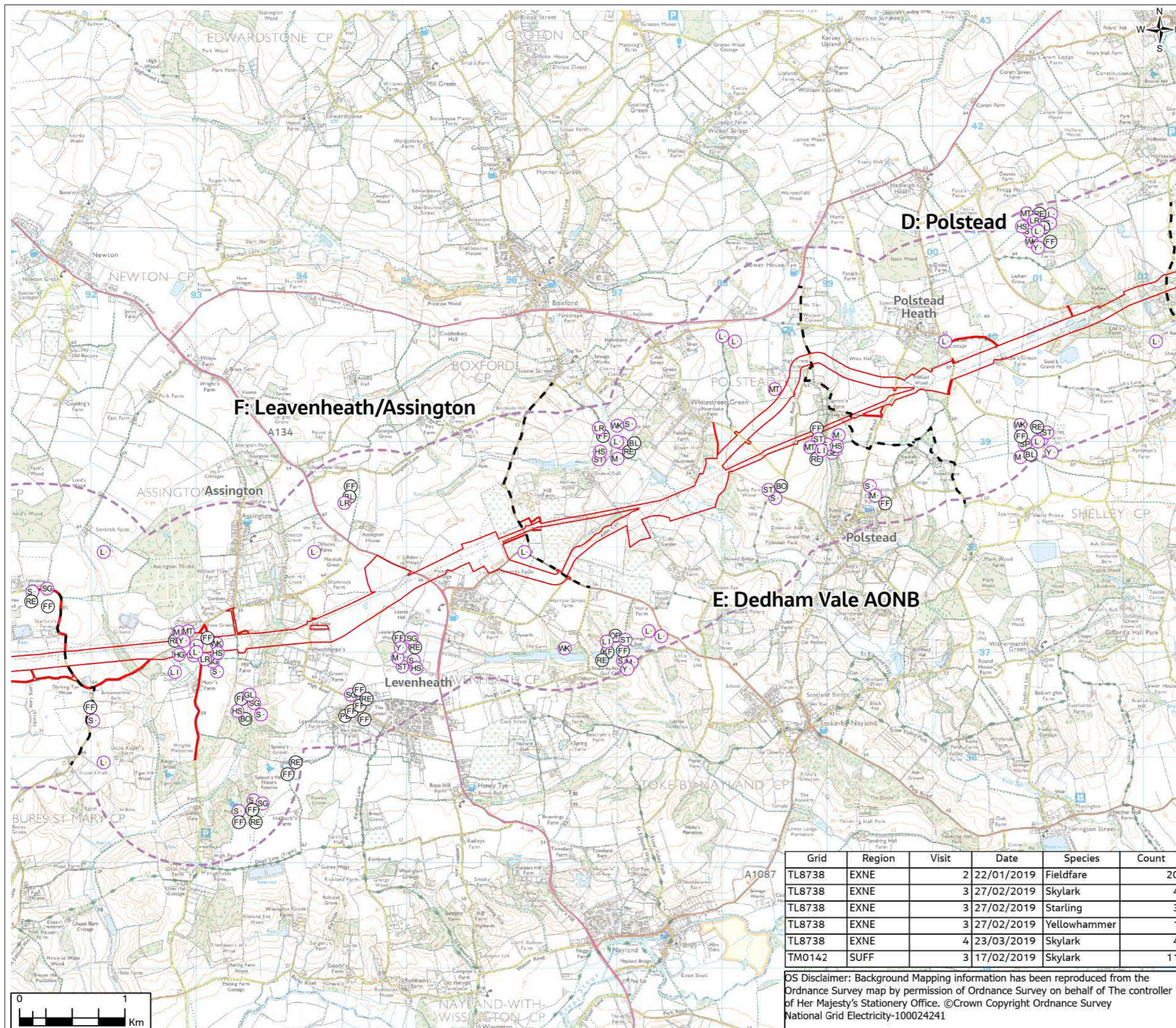
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Grid	Region	Visit	Date	Species	Count
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TL8738	EXNE	3	27/02/2019	Skylark	4
TL8738	EXNE	3	27/02/2019	Starling	3
TL8738	EXNE	3	27/02/2019	Yellowhammer	1
TL8738	EXNE	4	23/03/2019	Skylark	4
TM0142	SUFF	3	17/02/2019	Skylark	11

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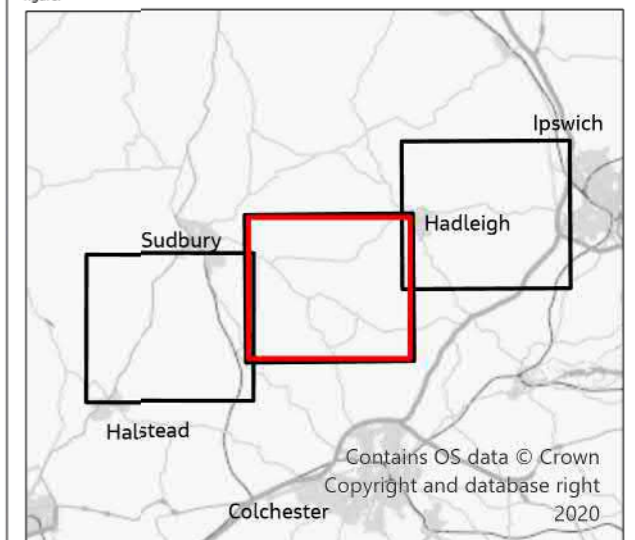
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FIGURE 7.9



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
- Schedule 1 Species**
- BO Barn Owl
 - BL Brambling
 - FF Fieldfare
 - KF Kingfisher
 - PE Peregrine
 - KT Red Kite
 - RE Redwing
 - OP Osprey
 - 2021 Desk Study - Red List
 - CU Curlew
- P Grey Partridge
 - GL Grey Wagtail
 - HG Herring Gull
 - HS House Sparrow
 - L Lapwing
 - LR Lesser Redpoll
 - LI Linnet
 - MT Marsh Tit
 - M Mistle Thrush
 - S Skylark
 - ST Song Thrush
 - SG Starling
 - WK Woodcock
- Y Yellowhammer
 - CK Cuckoo
 - GE Green Sandpiper
 - SP Scaup
 - ML Merlin
 - N Nightingale
 - Amber List
 - RK Redshank
 - Other
 - RP Common Ringed Plover
 - CA Cormorant

For English Wintering Birds Survey study area summary see inset table. Survey Area beyond scale of figure.



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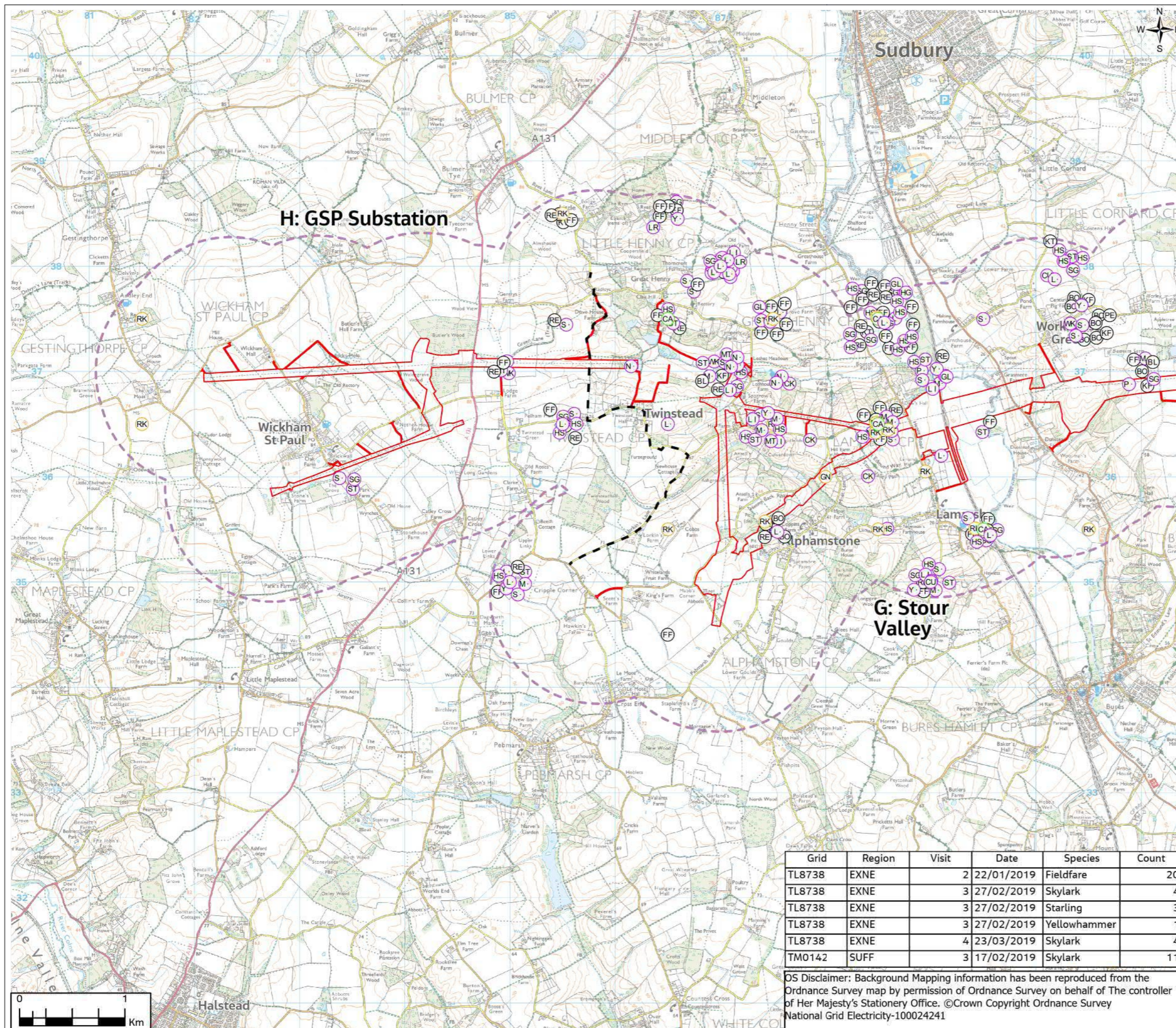
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TL8738	EXNE	3	27/02/2019	Skylark	4
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TL8738	EXNE	3	27/02/2019	Yellowhammer	1
TL8738	EXNE	4	23/03/2019	Skylark	4
TM0142	SUFF	3	17/02/2019	Skylark	11

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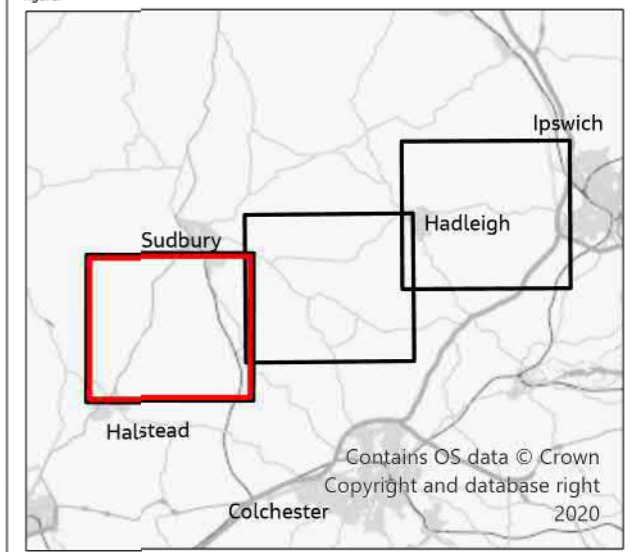
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FIGURE 7.9



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
- Schedule 1 Species**
- BO Barn Owl
 - BL Brambling
 - FF Fieldfare
 - KF Kingfisher
 - PE Peregrine
 - KT Red Kite
 - RE Redwing
 - OP Osprey
 - 2021 Desk Study - Red List
 - CU Curlew
- P Grey Partridge
 - GL Grey Wagtail
 - HG Herring Gull
 - HS House Sparrow
 - L Lapwing
 - LR Lesser Redpoll
 - LI Linnet
 - MT Marsh Tit
 - M Mistle Thrush
 - S Skylark
 - ST Song Thrush
 - SG Starling
 - YK Woodcock
- Y Yellowhammer
 - CK Cuckoo
 - GE Green Sandpiper
 - SP Scaup
 - ML Merlin
 - N Nightingale
 - Amber List
 - RK Redshank
 - Other
 - RP Common Ringed Plover
 - CA Cormorant

For English Wintering Birds Survey study area summary see inset table. Survey Area beyond scale of figure.



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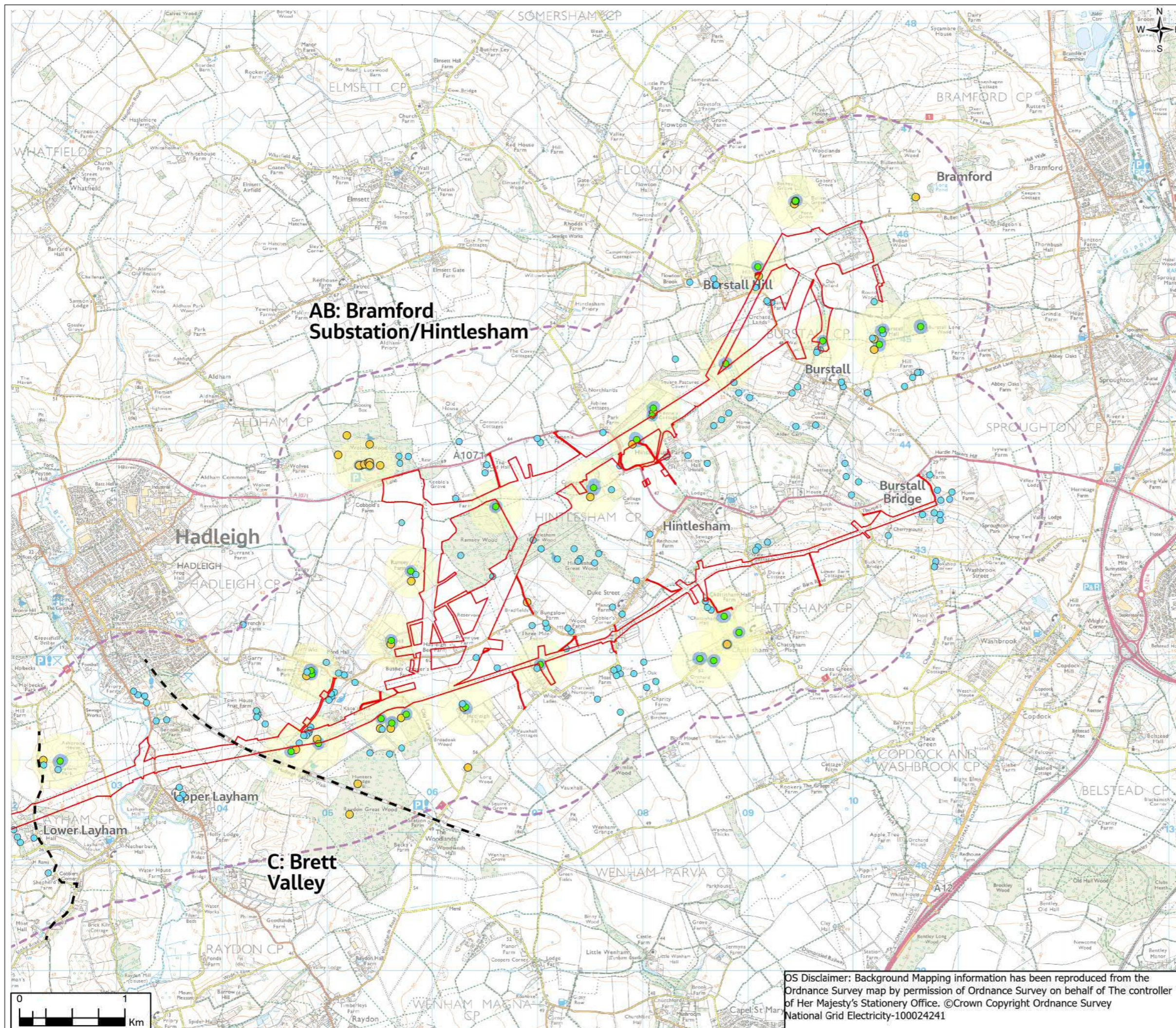
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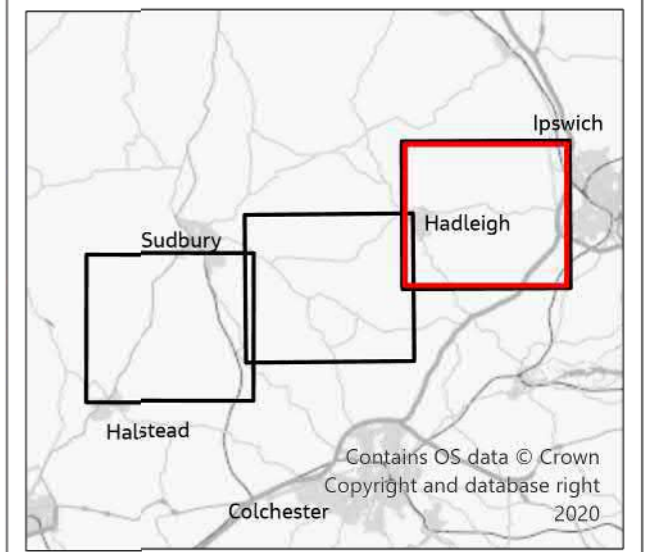
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TL8738	EXNE	3	27/02/2019	Yellowhammer	1
TL8738	EXNE	4	23/03/2019	Skylark	4
TM0142	SUFF	3	17/02/2019	Skylark	11

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FIGURE 7.10



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
- 2012/3 Field Survey**
- GCN Assumed Present
 - GCN Assumed Absent
- 2021 Desk Study**
- Great Crested Newt Desk Study Record
- Great Crested Newt Habitat**
- ▭ Core Terrestrial Habitat (50m)
 - ▭ Intermediate Terrestrial Habitat (250m)



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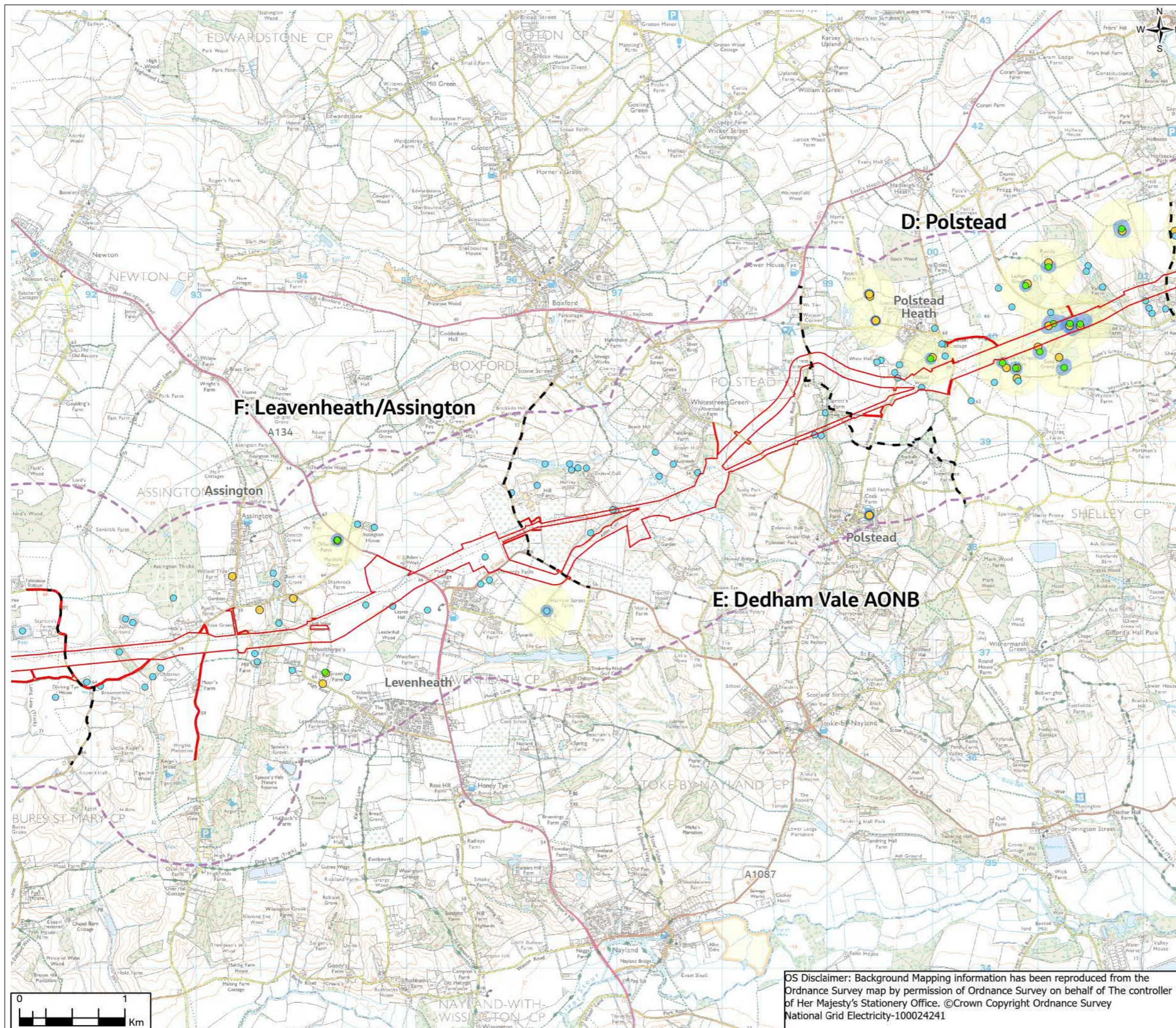
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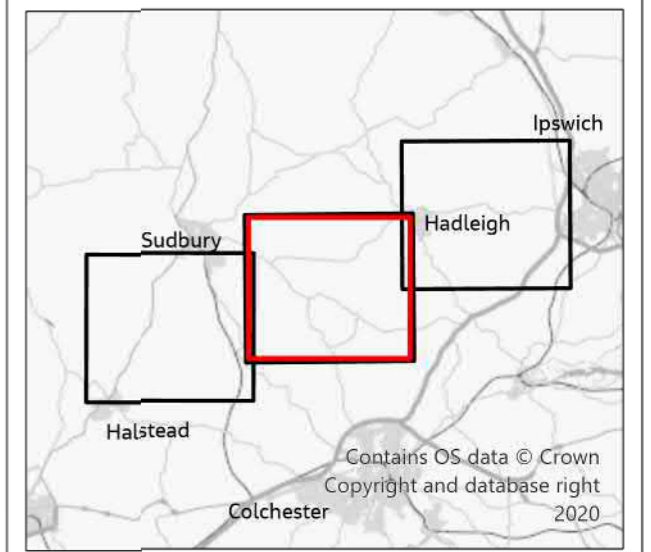
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FIGURE 7.10



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - 2012/3 Field Survey**
 - GCN Assumed Present
 - GCN Assumed Absent
 - 2021 Desk Study**
 - Great Crested Newt Desk Study Record
 - Great Crested Newt Habitat**
 - ▭ Core Terrestrial Habitat (50m)
 - ▭ Intermediate Terrestrial Habitat (250m)



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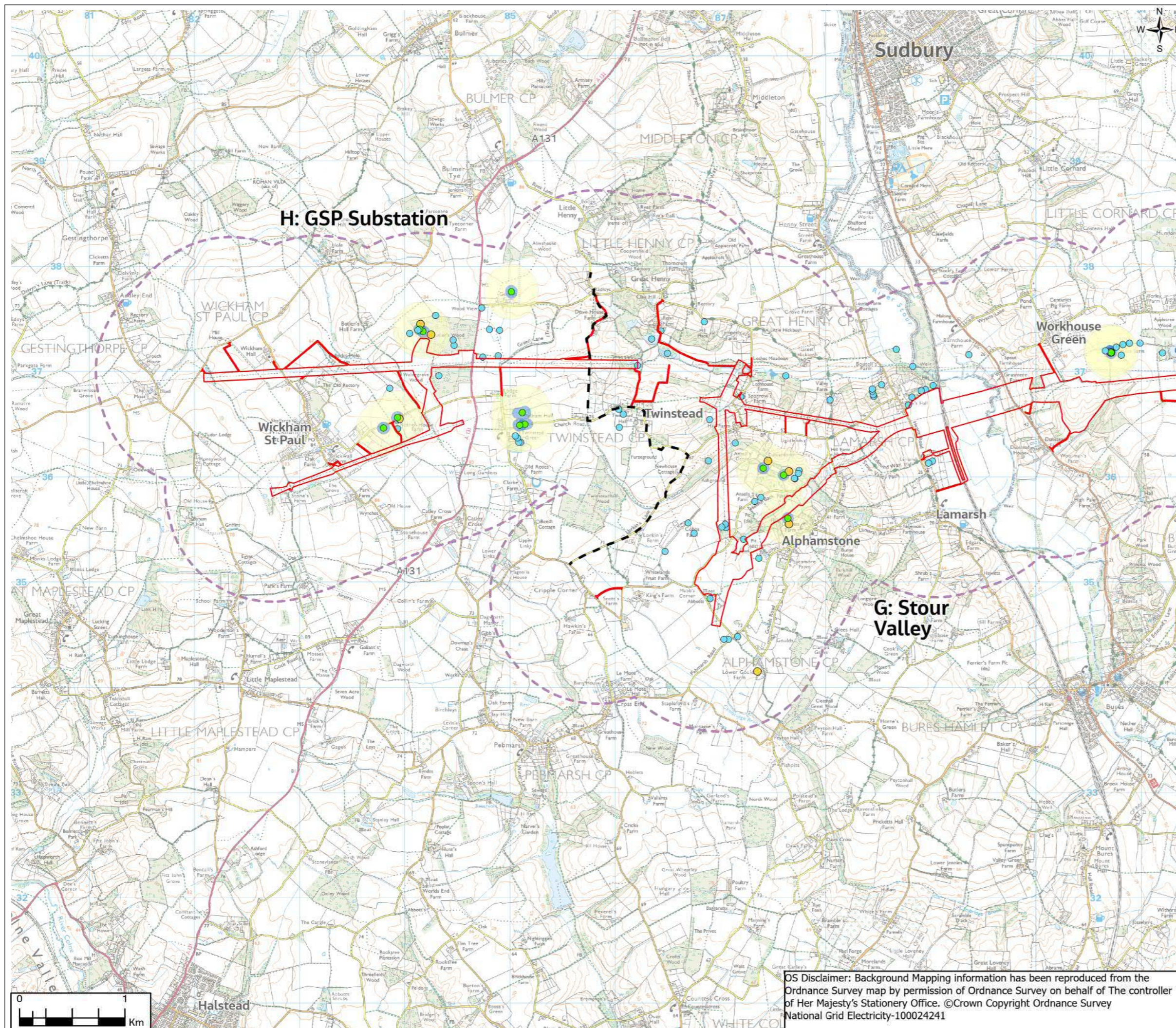
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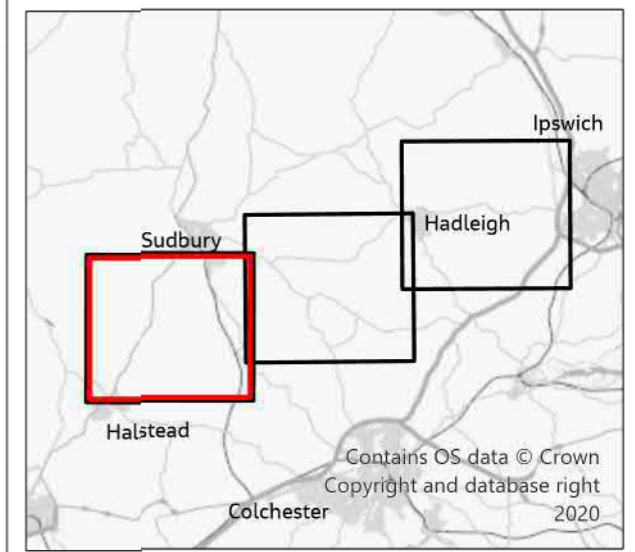
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FIGURE 7.10



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - - - Study Area (1km)
- 2012/3 Field Survey**
- GCN Assumed Present
 - GCN Assumed Absent
- 2021 Desk Study**
- Great Crested Newt Desk Study Record
- Great Crested Newt Habitat**
- ▭ Core Terrestrial Habitat (50m)
 - ▭ Intermediate Terrestrial Habitat (250m)



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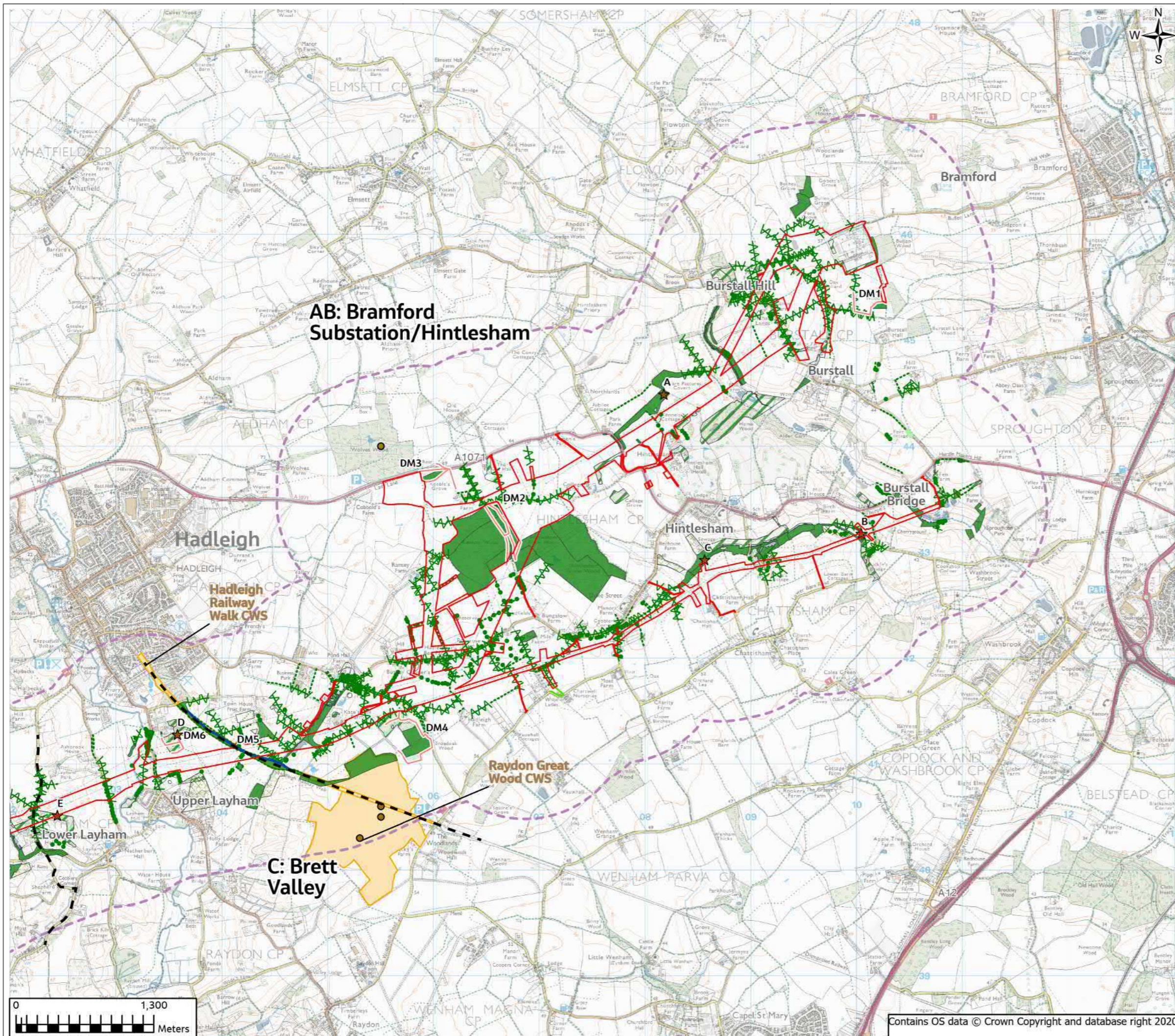
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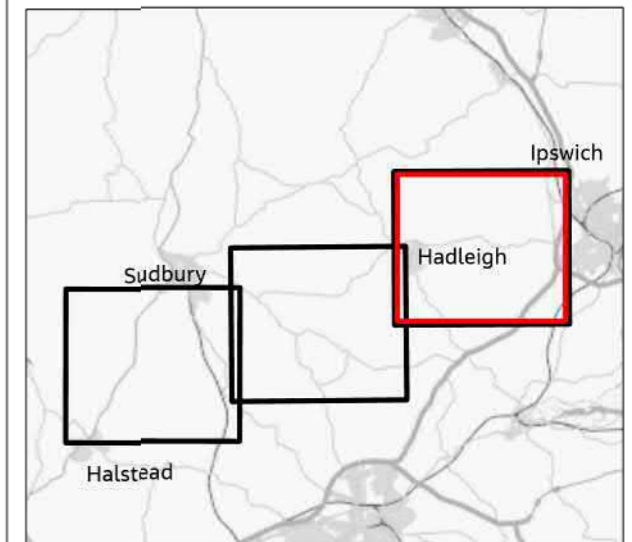
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FIGURE 7.11



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - 2021 Desk Study Hazel Dormouse Records
 - 2012 Field Survey Hazel Dormouse Records
 - Dormouse likely absence
 - Dormouse presence
 - ★ DM1 Field Survey Site Reference
 - ★ Habitats Assessed as Not Requiring Nest Tube Survey
 - ★ Habitat Suitable to Support Dormouse
 - × Scattered scrub
 - Scattered broad-leaved tree
 - Scattered coniferous tree
 - Conifer Hedge
 - Scrub
 - Species Rich Hedge
 - Species Poor Hedge
 - Scrub
 - Hedgerow
 - Semi-natural broad-leaved woodland
 - Plantation broad-leaved woodland
 - Plantation coniferous woodland
 - Plantation mixed woodland
 - Orchard
 - Designated Sites With Dormouse Presence Cited
 - Local Nature Reserve (LNR)
 - County Wildlife Site (CWS)
 - Suffolk Wildlife Trust (SWT) Nature Reserves

Only Designated Sites with Hazel Dormouse in citation are displayed.



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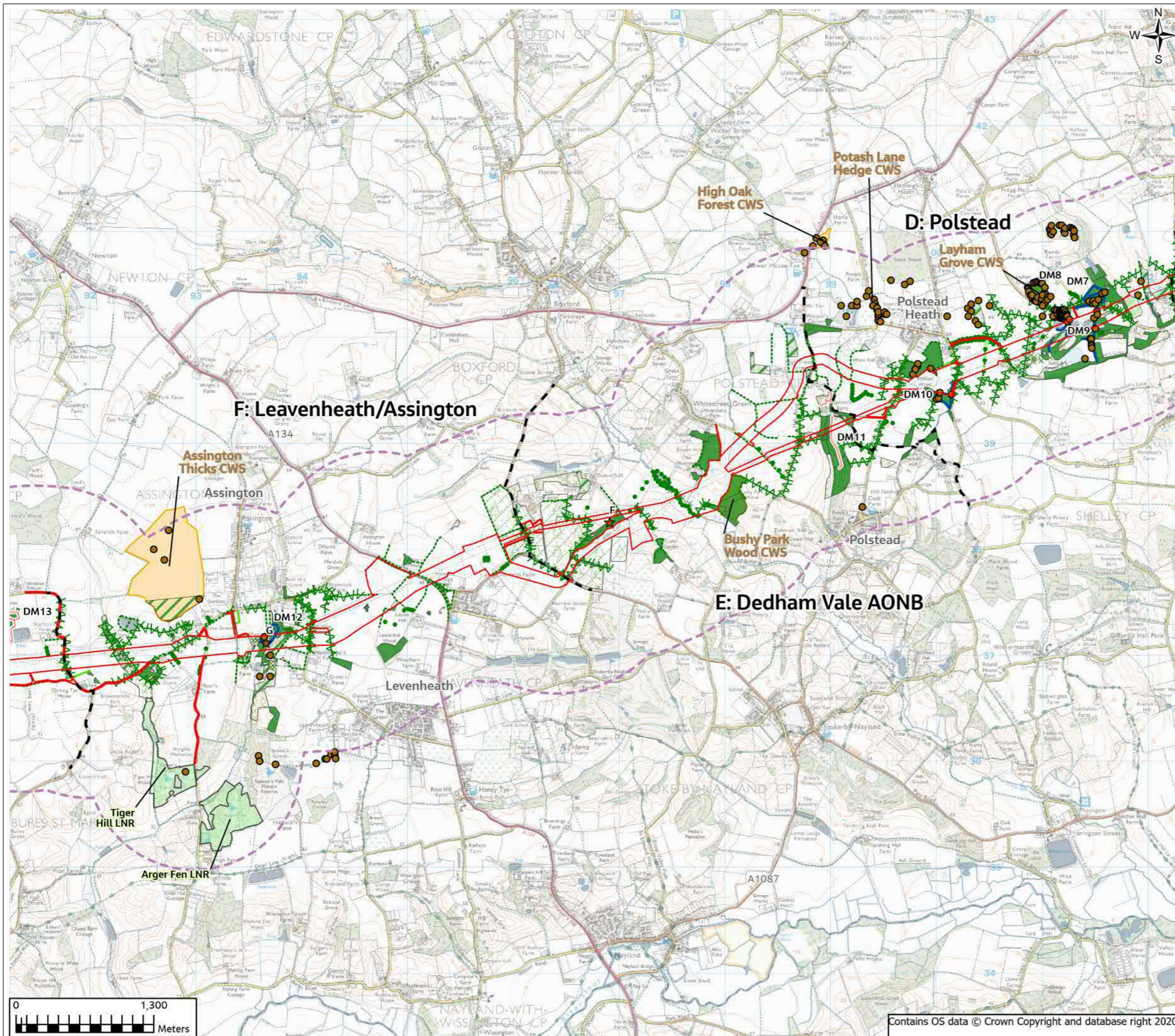
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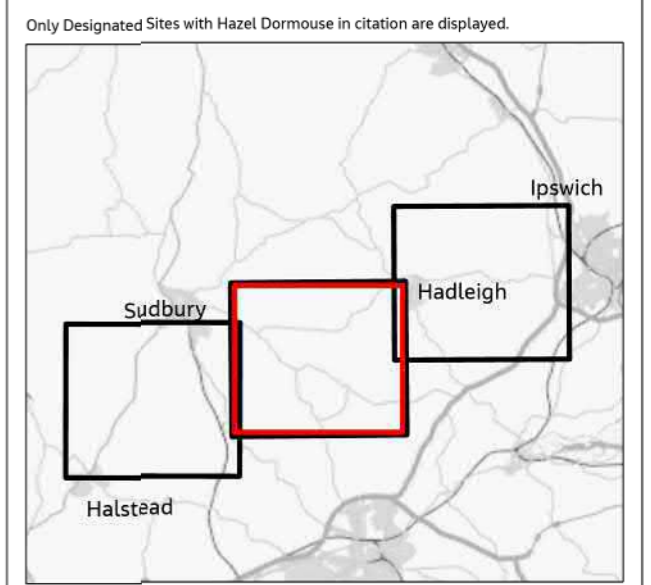
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FIGURE 7.11



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
 - Hazel Dormouse Records
 - Dormouse likely absence
 - Dormouse presence
 - ★ Habitats Assessed as Not Requiring Nest Tube Survey
 - ✕ Habitat Suitable to Support Dormouse
 - ✕ Scattered scrub
 - Scattered broad-leaved tree
 - Scattered coniferous tree
 - Conifer Hedge
 - Scrub
 - Species Rich Hedge
 - Species Poor Hedge
 - Scrub
 - Hedgerow
 - Semi-natural broad-leaved woodland
 - Plantation broad-leaved woodland
 - Plantation coniferous woodland
 - Plantation mixed woodland
 - Orchard
 - Designated Sites With Dormouse Presence Cited
 - Local Nature Reserve (LNR)
 - County Wildlife Site (CWS)
 - Suffolk Wildlife Trust (SWT) Nature Reserves



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Drawing Title
 Hazel Dormouse Baseline
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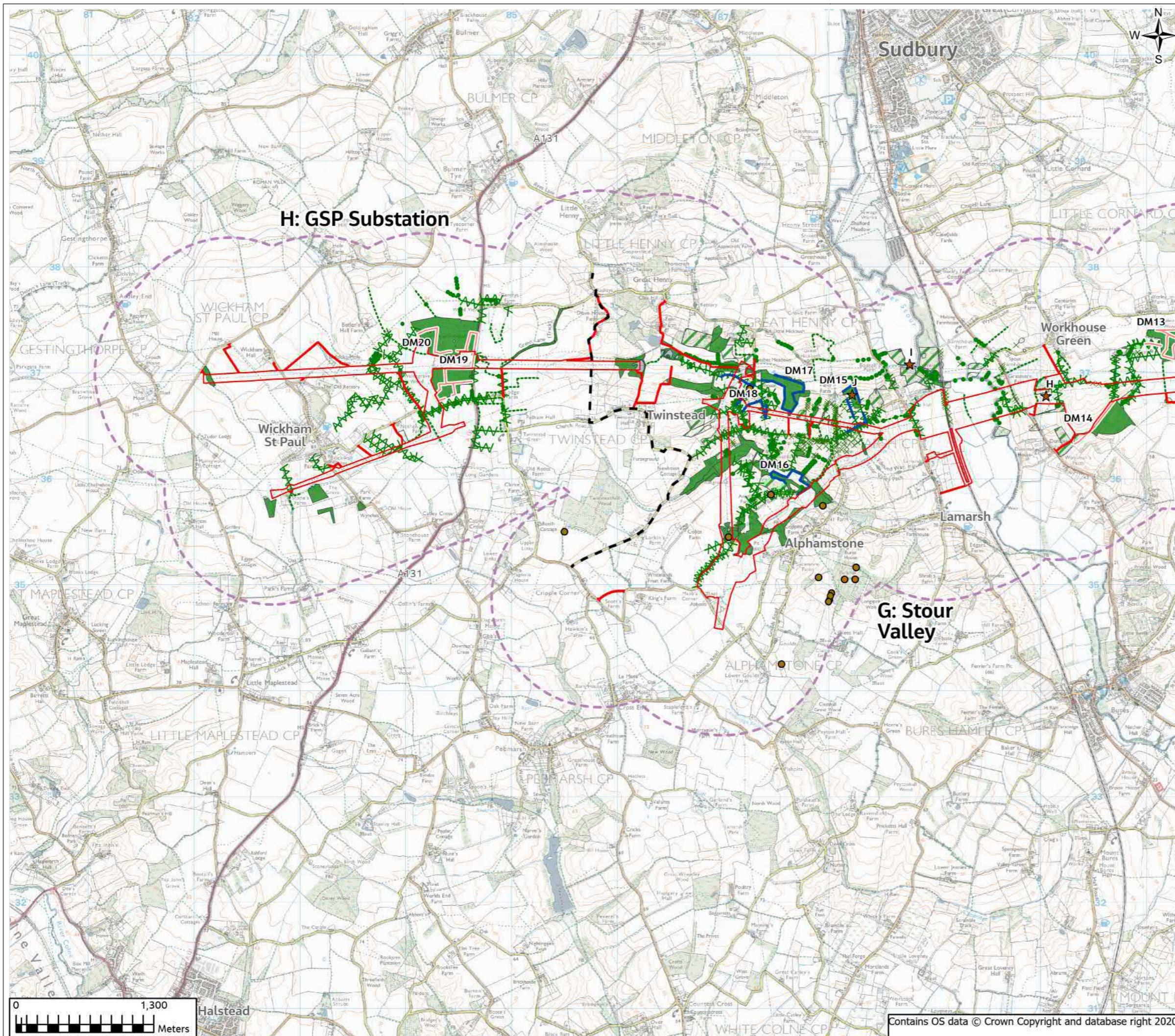
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Drawing No.
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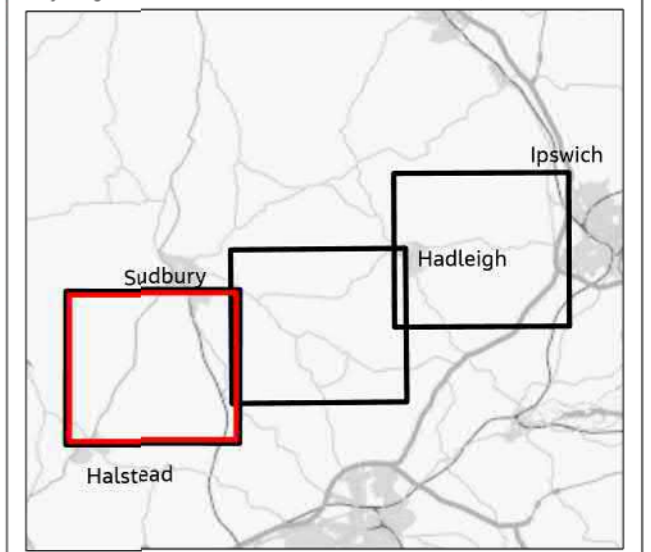
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FIGURE 7.11



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
 - 2021 Desk Study Hazel Dormouse Records
 - 2012 Field Survey Dormouse likely absence
 - 2012 Field Survey Dormouse presence
 - ★ DM1 Field Survey Site Reference
 - ★ Habitats Assessed as Not Requiring Nest Tube Survey
 - ★ Habitat Suitable to Support Dormouse
 - × Scattered scrub
 - Scattered broad-leaved tree
 - Scattered coniferous tree
 - Conifer Hedge
 - Scrub
 - Species Rich Hedge
 - Species Poor Hedge
 - Scrub
 - Hedgerow
 - Semi-natural broad-leaved woodland
 - Plantation broad-leaved woodland
 - Plantation coniferous woodland
 - Plantation mixed woodland
 - Orchard
 - Designated Sites With Dormouse Presence Cited
 - Local Nature Reserve (LNR)
 - County Wildlife Site (CWS)
 - Suffolk Wildlife Trust (SWT) Nature Reserves

Only Designated Sites with Hazel Dormouse in citation are displayed.



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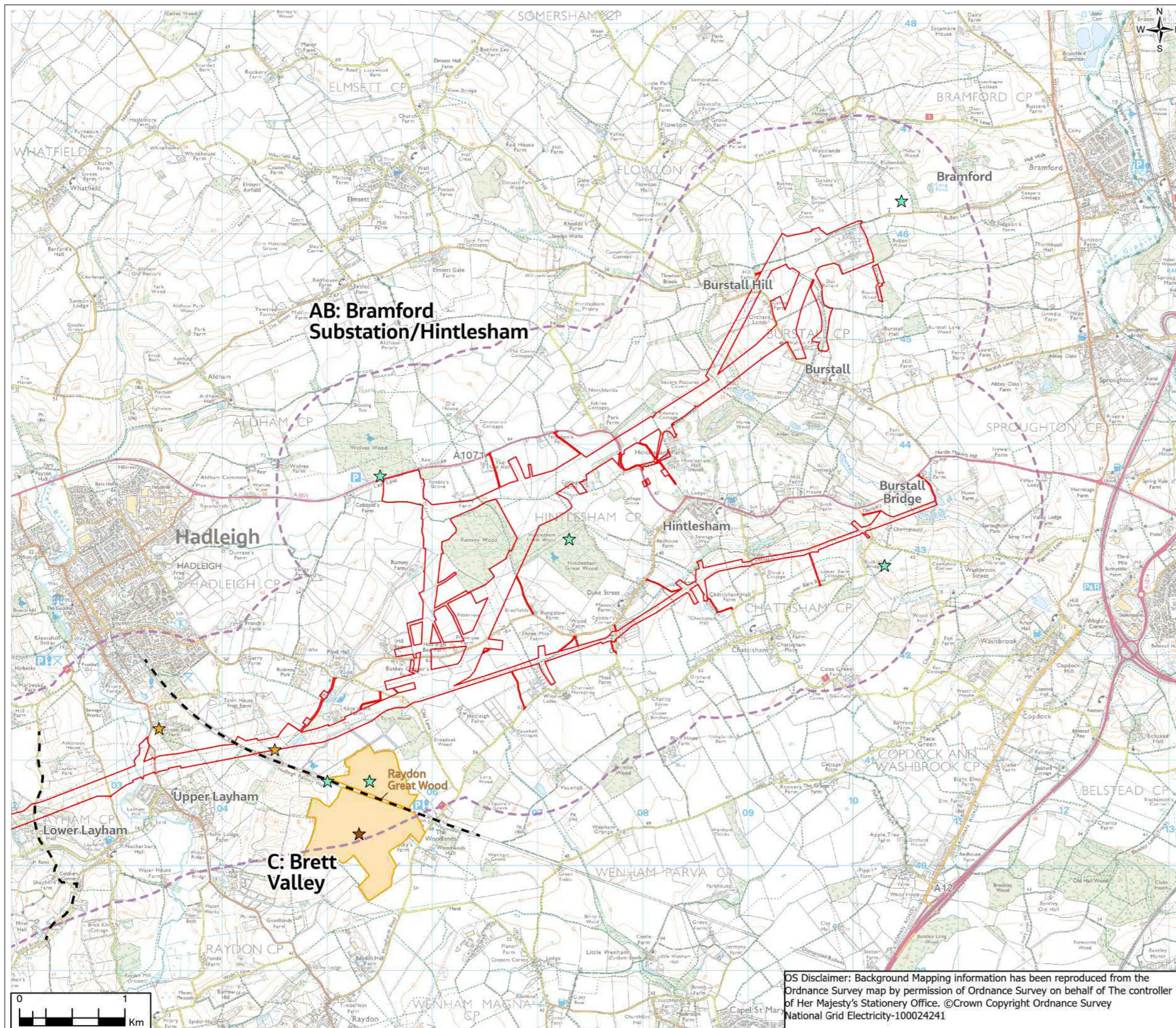
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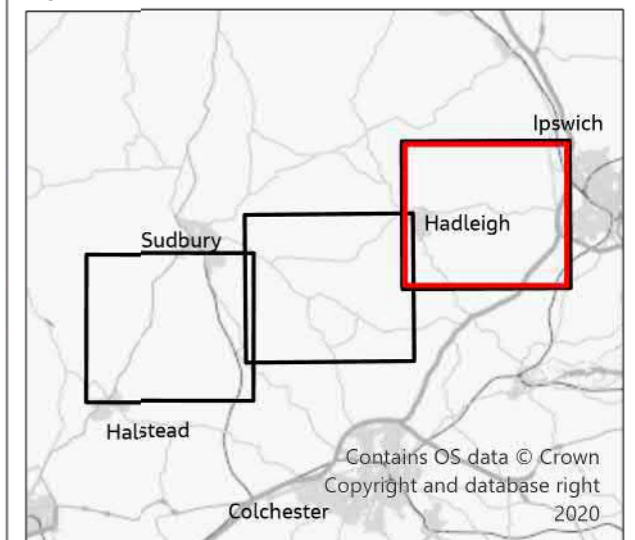
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FIGURE 7.12



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
- Designated Sites with Reptiles Cited**
- ▭ County Wildlife Site (CWS)
- 2013 Field Survey**
- ⊕ Slow Worm
 - ⊕ Common Lizard
 - ⊕ Grass Snake
- 2021 Desk Study**
- ★ Common Lizard
 - ★ Grass Snake
 - ★ Slow-worm
- Only CWS with reptiles cited are shown.



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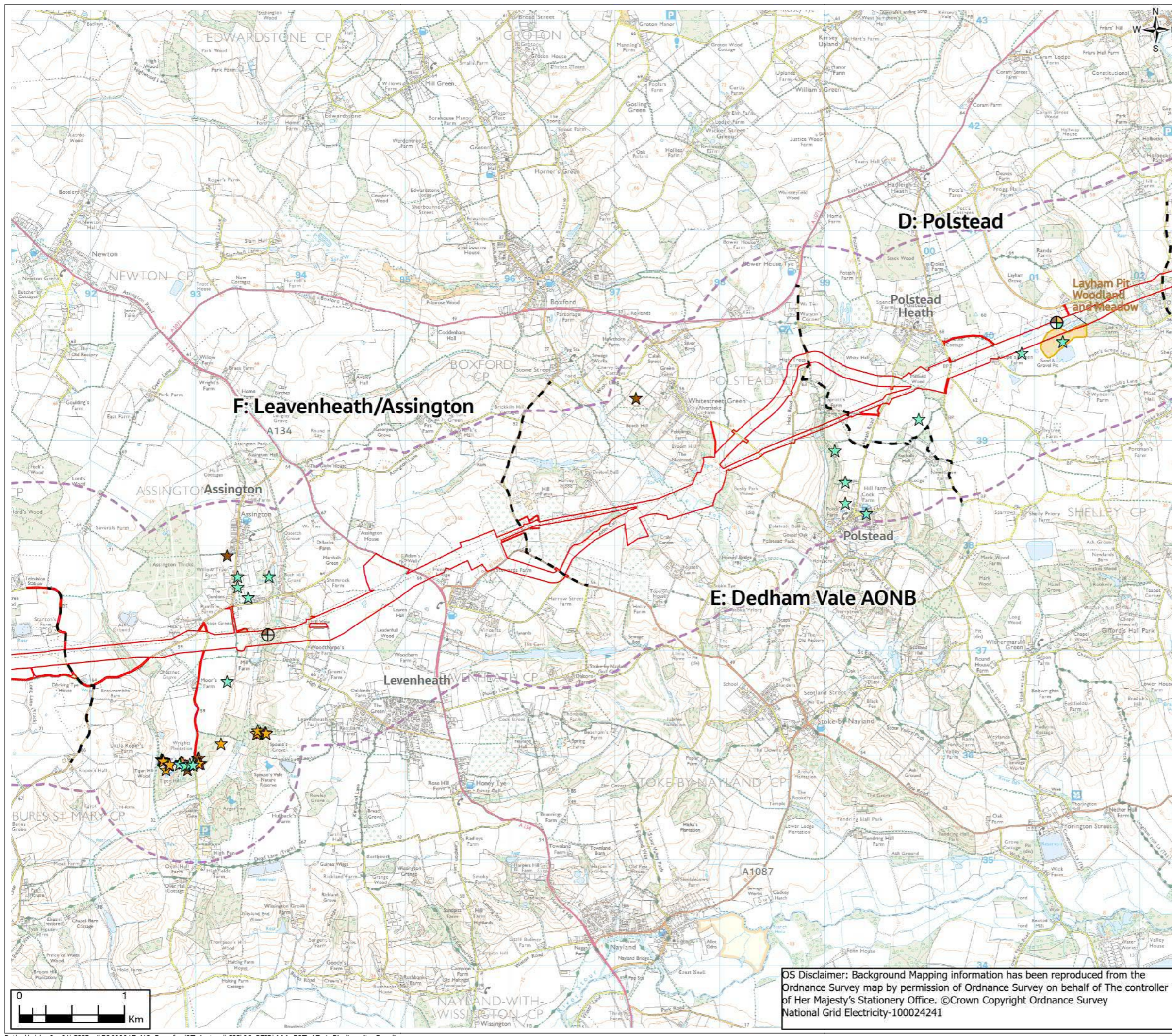
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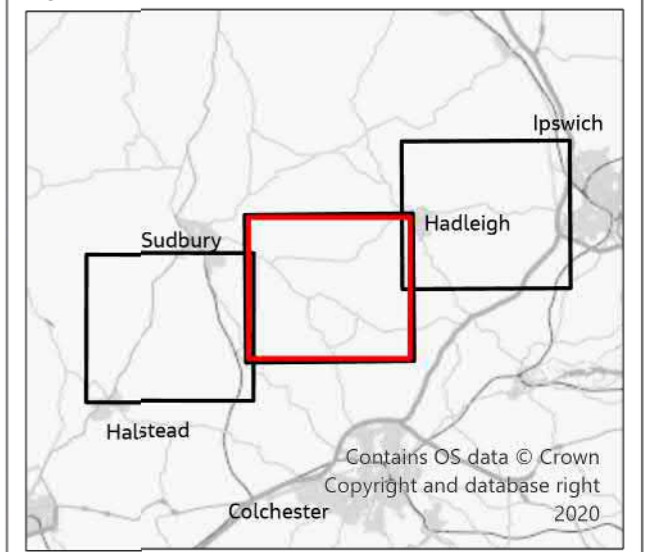
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FIGURE 7.12



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
- Designated Sites with Reptiles Cited**
- ▭ County Wildlife Site (CWS)
- 2013 Field Survey**
- ⊕ Slow Worm
 - ⊕ Common Lizard
 - ⊕ Grass Snake
- 2021 Desk Study**
- ★ Common Lizard
 - ★ Grass Snake
 - ★ Slow-worm
- Only CWS with reptiles cited are shown.



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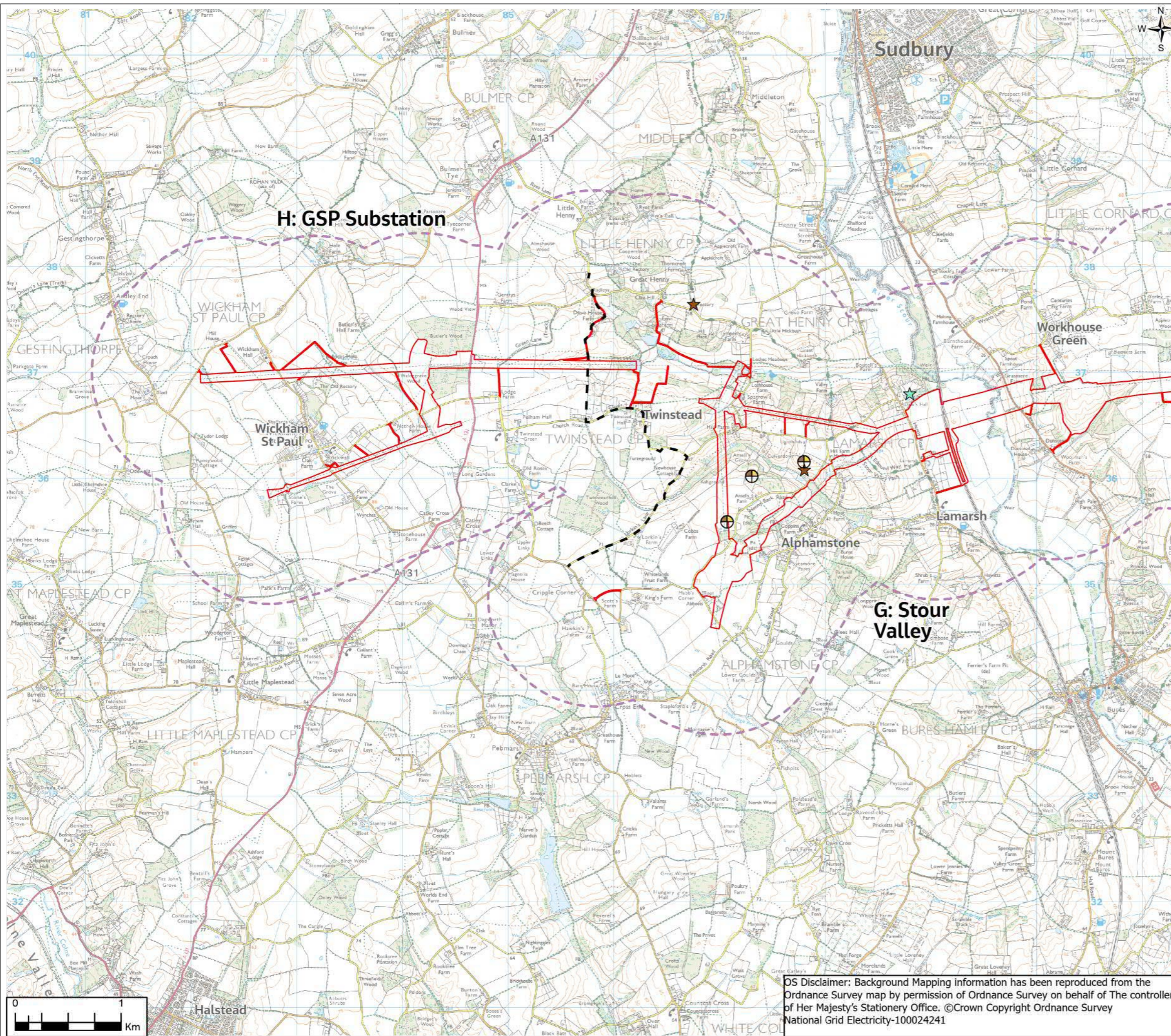
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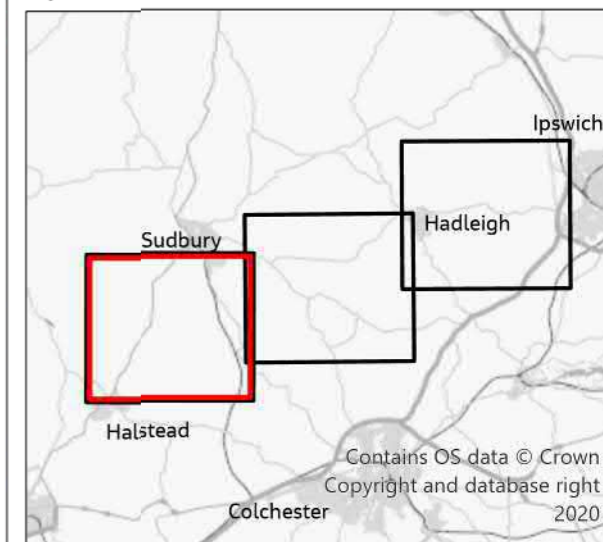
FIGURE 7.12



Legend

- - Section Boundaries
- ▭ Draft Order Limits
- ▭ Study Area (1km)
- ▭ Designated Sites with Reptiles Cited
- ▭ County Wildlife Site (CWS)
- 2013 Field Survey
 - ⊕ Slow Worm
 - ⊕ Common Lizard
 - ⊕ Grass Snake
- 2021 Desk Study
 - ★ Common Lizard
 - ★ Grass Snake
 - ★ Slow-worm

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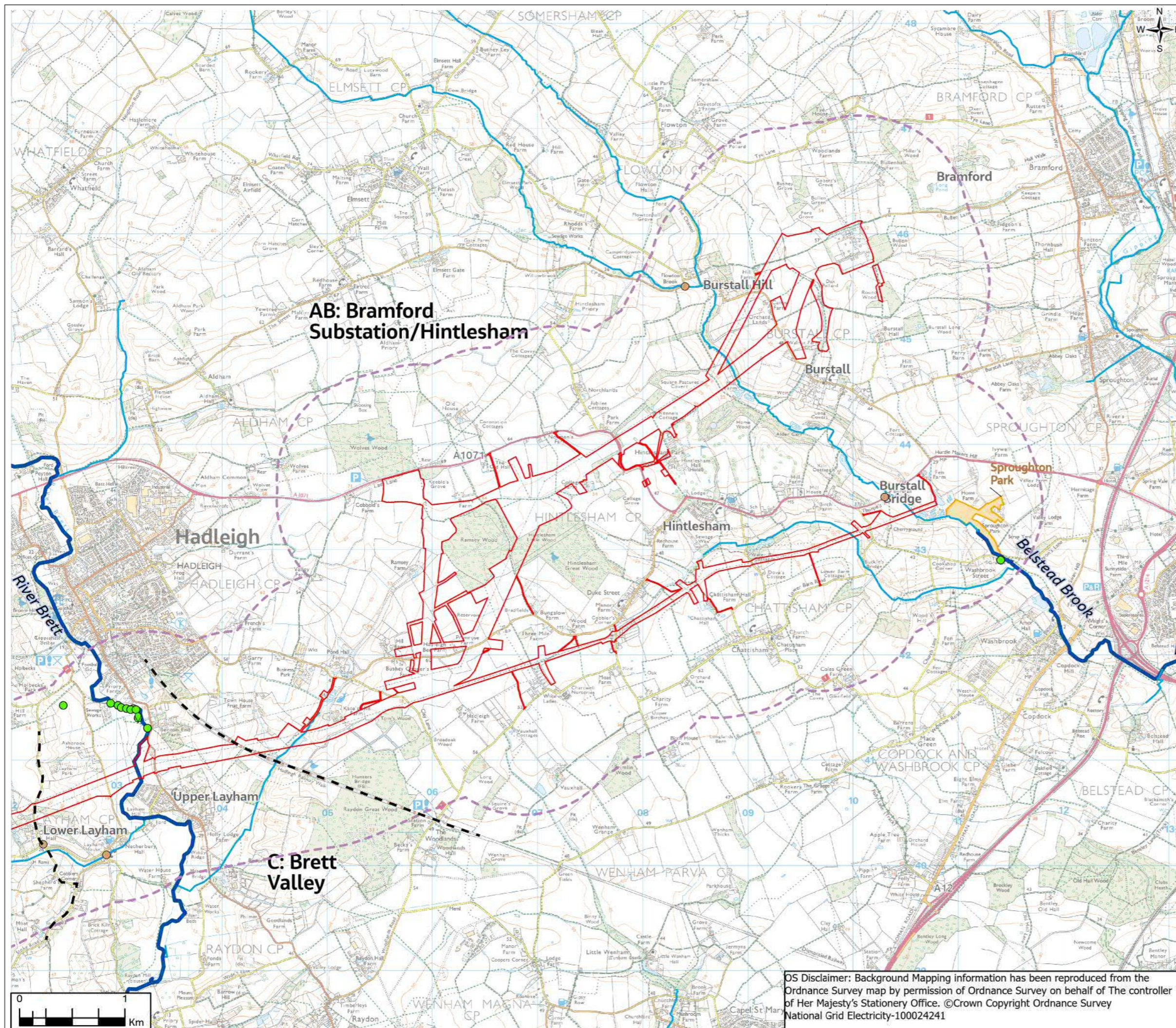
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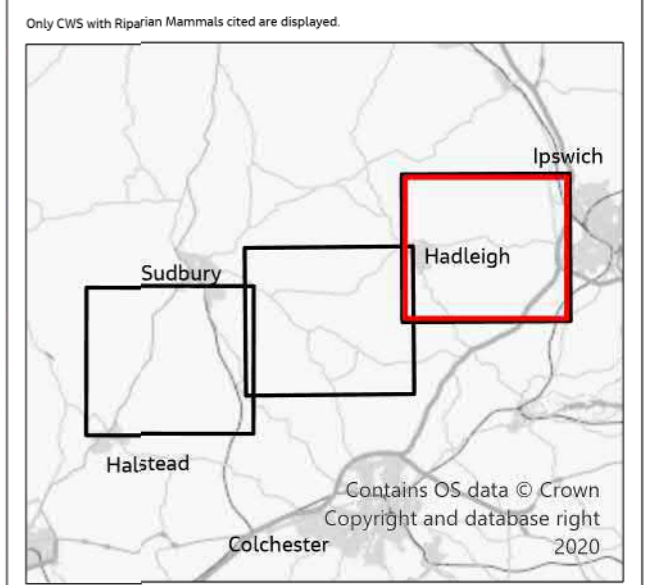
FIGURE 7.13



- Section boundaries
- ▭ Draft Order Limits
- ▭ Study Area (1km)
- ▬ Main Rivers
- ▬ Non-Main Rivers
- ▲ Designated Sites with Riparian Mammals Cited
- ▭ County Wildlife Site (CWS)
- ★ 2012/2013 Field Survey
- ★ Water Vole
- ★ Otter
- ★ 2021 Desk Study
- ★ Water Vole
- ★ Otter
- ★ Burrow
- ★ Footprints
- Latrine
- ▲ Live sighting
- ▲ Pathway
- Undefined record
- ▲ Otter
- ▲ Footprint
- ▲ Spraint
- Undefined Record
- ★ 2021 Field Survey (May to July 2021)
- ★ Water Vole
- ★ Burrow
- ▲ Cropped vegetation
- ▲ Food pile
- ▲ Pathway

AB: Bramford Substation/Hintlesham

C: Brett Valley



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Drawing No. **AAA_B2T_A7_1_Biodiversity_Baseline**

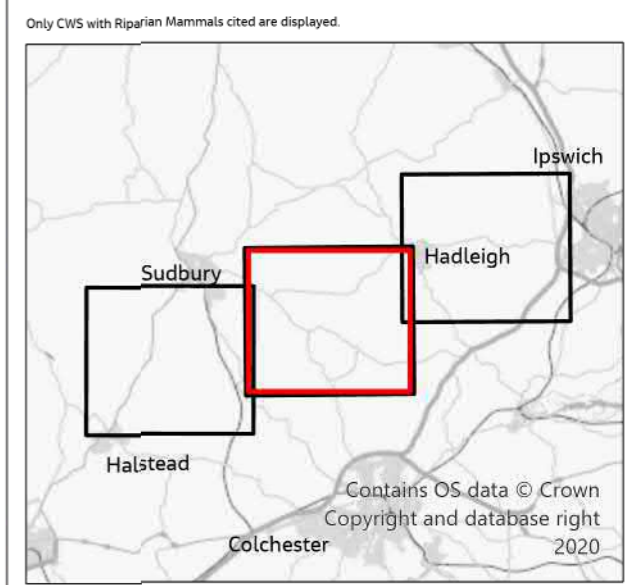
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FIGURE 7.13



- Section boundaries
- ▭ Draft Order Limits
- ▭ Study Area (1km)
- Main Rivers
- Non-Main Rivers
- ★ Designated Sites with Riparian Mammals Cited
- ▭ County Wildlife Site (CWS)
- ★ 2012/2013 Field Survey
 - ★ Water Vole
 - ★ Otter
 - ★ Water Vole
 - ★ Burrow
 - ★ Footprints
- Latrine
- ▲ Live sighting
- ▲ Pathway
- Undefined record
- ▲ Otter
- ▲ Footprint
- ▲ Spraint
- Undefined Record
- ★ 2021 Field Survey (May to July 2021)
 - ★ Water Vole
 - ★ Burrow
 - ★ Cropped vegetation
 - ★ Food pile
 - ★ Pathway



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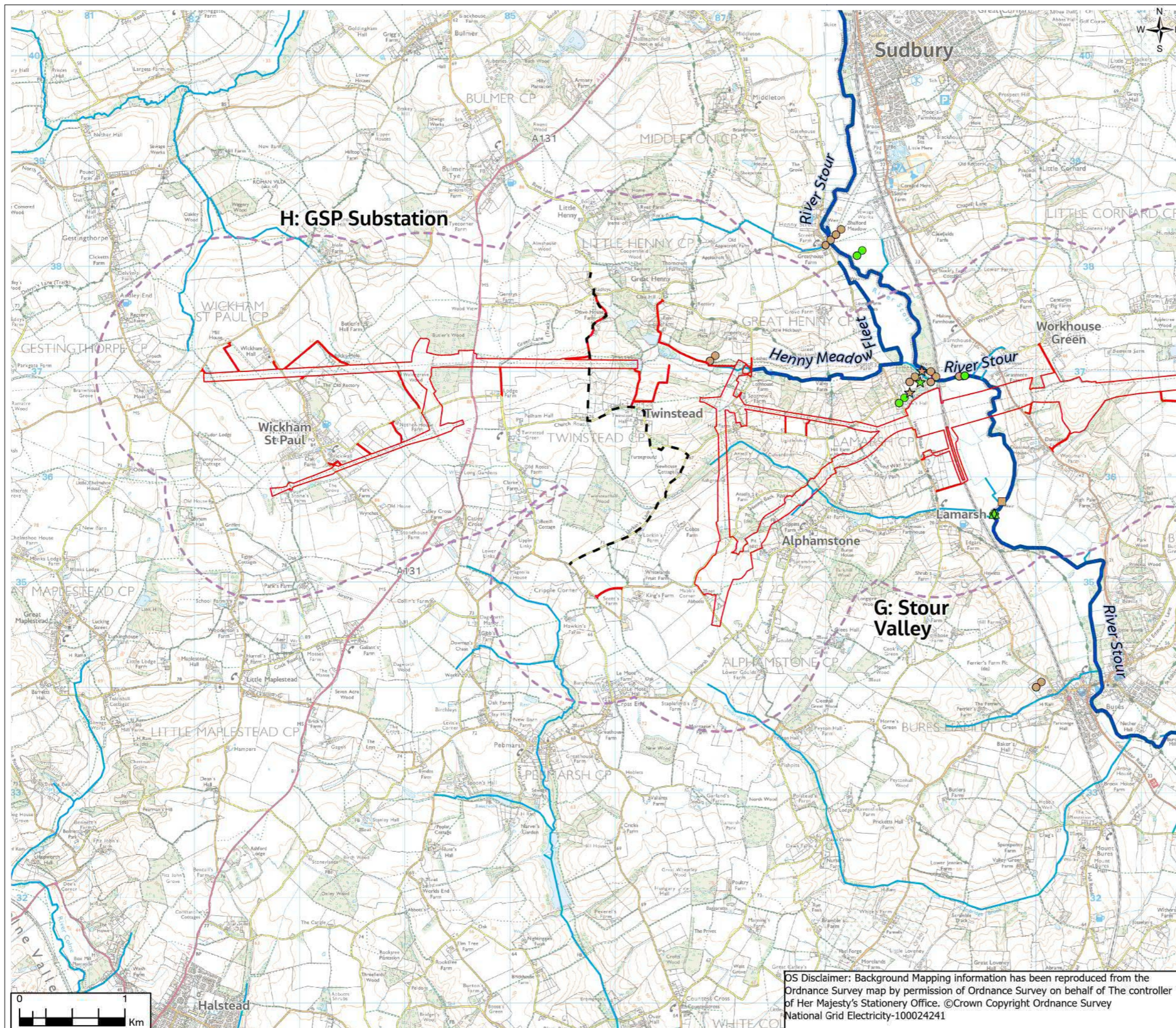
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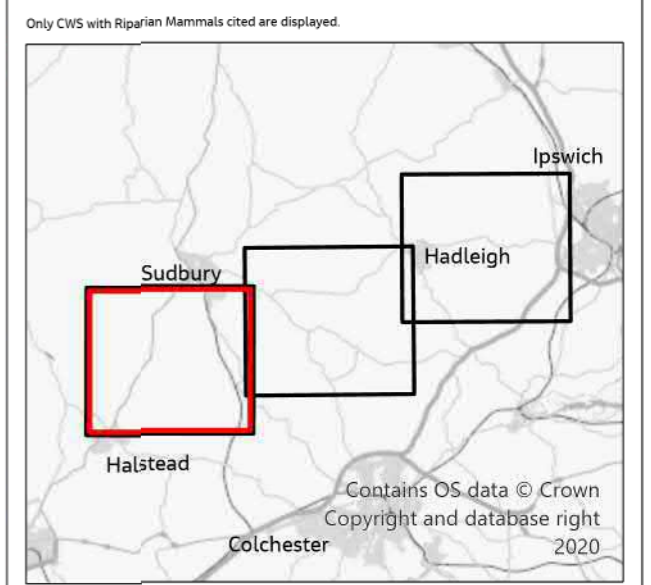
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FIGURE 7.13



- Section boundaries
- ▭ Draft Order Limits
- ▭ Study Area (1km)
- ▬ Main Rivers
- ▬ Non-Main Rivers
- ★ Designated Sites with Riparian Mammals Cited
- ▭ County Wildlife Site (CWS)
- ★ 2012/2013 Field Survey
 - ★ Water Vole
 - ★ Otter
 - Burrow
 - Footprints
- Latrine
- ▲ Live sighting
- ▲ Pathway
- Undefined record
- ▲ Otter
- ▲ Footprint
- ▲ Spraint
- Undefined Record
- ★ 2021 Field Survey (May to July 2021)
 - Water Vole
 - Burrow
 - ▲ Cropped vegetation
 - ▲ Food pile
 - ▲ Pathway



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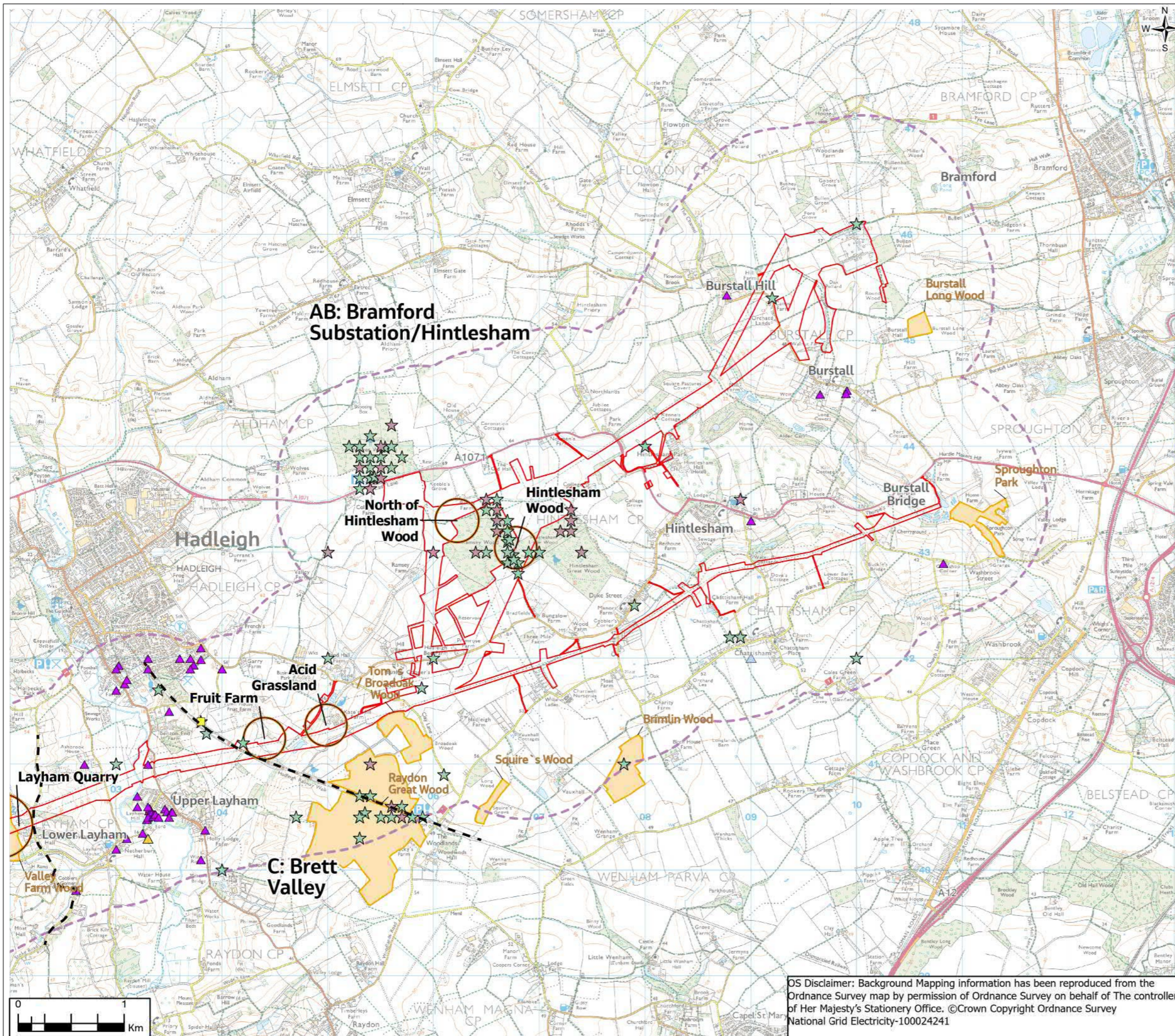
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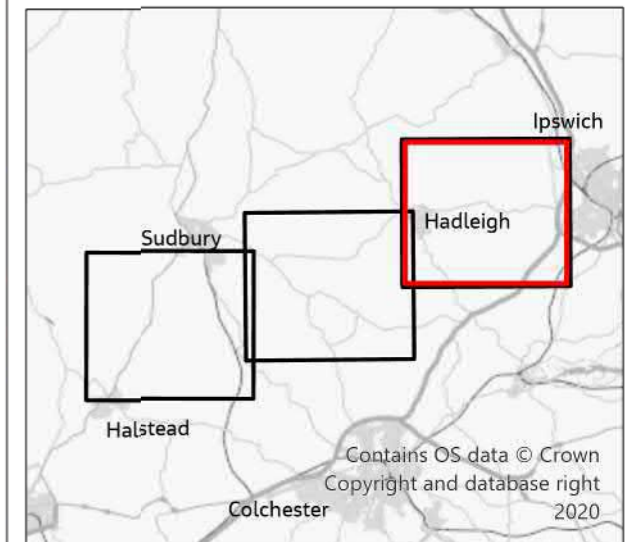
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FIGURE 7.14



- Legend**
- Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
 - ▭ 2013 Field Survey Locations
 - ▭ Designated Sites with Invertebrate Cited
 - ▭ County Wildlife Site (CWS)
 - 2021 Desk Study**
 - Ant - Regionally Important
 - Bee - Regionally Important
 - Beetle - Nationally Scarce
 - Coleoptera - Nationally Scarce
 - Centipede - Nationally Scarce
 - Fly - Nationally Scarce
 - Mollusc - Nationally Scarce
 - Wasp - Nationally Scarce
 - ▲ Caddisfly - Nationally Notable
 - ▲ Dragonfly - Near Threatened
 - ★ Moth - Species of Principal Importance in England
 - ★ Bee - Species of Principal Importance in England
 - ★ Butterfly - Species of Principal Importance in England
 - ▲ Stag Beetle

Note: Only CWS with Terrestrial Invertebrate citation are shown.



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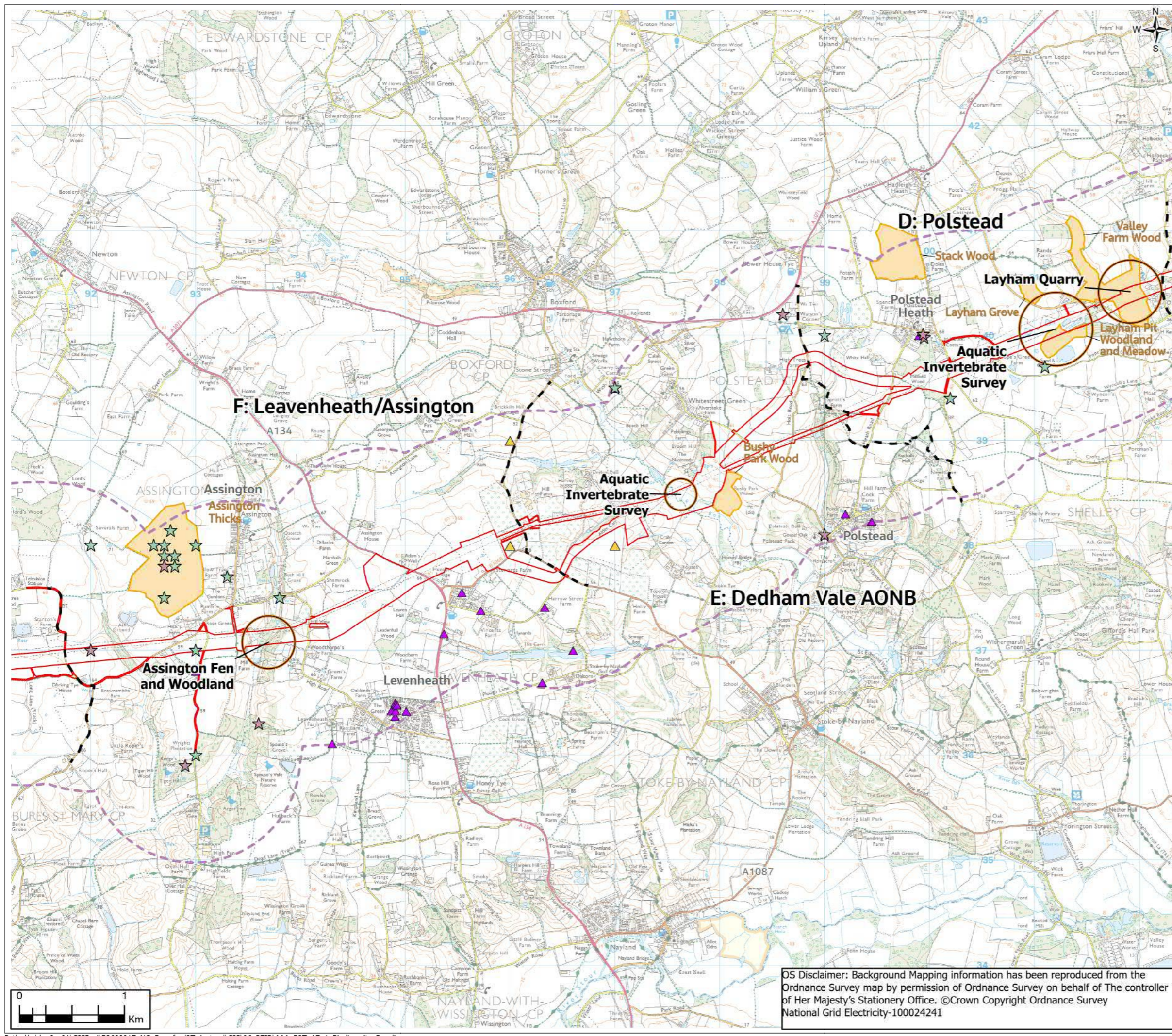
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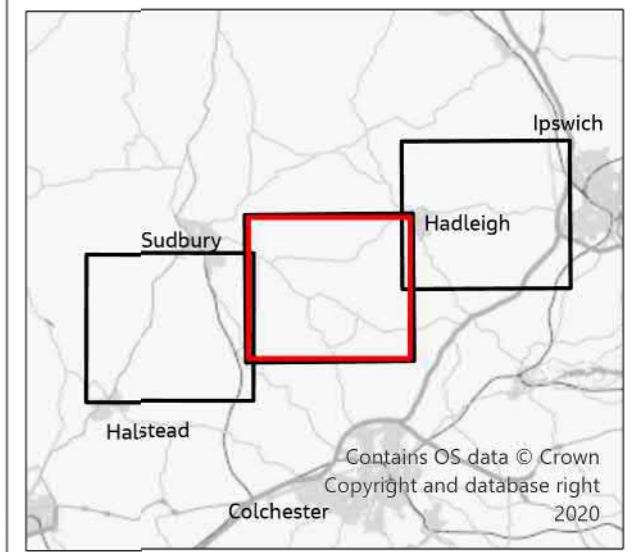
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FIGURE 7.14



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - 2013 Field Survey Locations
- Designated Sites with Invertebrate Cited**
- County Wildlife Site (CWS)
- 2021 Desk Study**
- Ant - Regionally Important
 - Bee - Regionally Important
 - Beetle - Nationally Scarce
 - Coleoptera - Nationally Scarce
 - Centipede - Nationally Scarce
 - Fly - Nationally Scarce
 - Mollusc - Nationally Scarce
 - Wasp - Nationally Scarce
 - ▲ Caddisfly - Nationally Notable
 - ▲ Dragonfly - Near Threatened
 - ★ Moth - Species of Principal Importance in England
 - ★ Bee - Species of Principal Importance in England
 - ★ Butterfly - Species of Principal Importance in England
 - ▲ Stag Beetle

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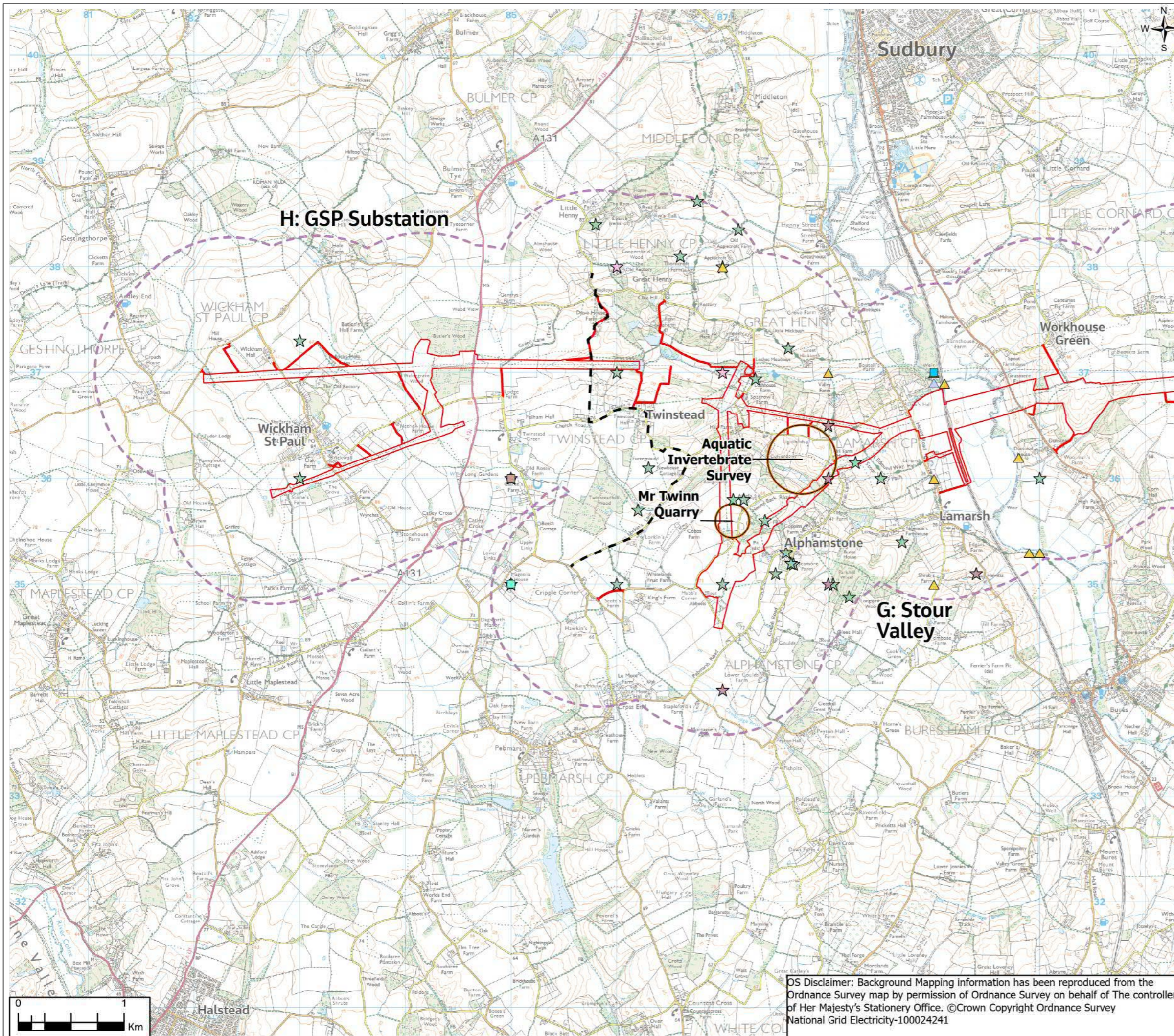
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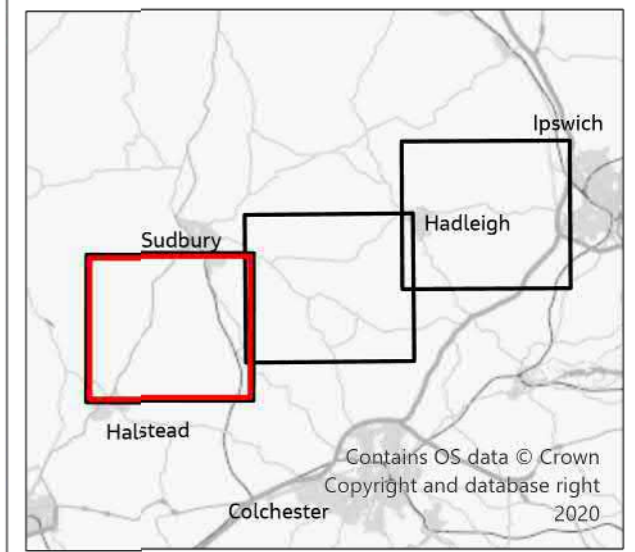
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FIGURE 7.14



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
 - 2013 Field Survey Locations
 - ▭ Designated Sites with Invertebrate Cited
 - County Wildlife Site (CWS)
 - 2021 Desk Study
 - Ant - Regionally Important
 - Bee - Regionally Important
 - Beetle - Nationally Scarce
 - Coleoptera - Nationally Scarce
 - Centipede - Nationally Scarce
 - Fly - Nationally Scarce
 - Mollusc - Nationally Scarce
 - Wasp - Nationally Scarce
 - ▲ Caddisfly - Nationally Notable
 - ▲ Dragonfly - Near Threatened
 - ★ Moth - Species of Principal Importance in England
 - ★ Bee - Species of Principal Importance in England
 - ★ Butterfly - Species of Principal Importance in England
 - ★ Stag Beetle

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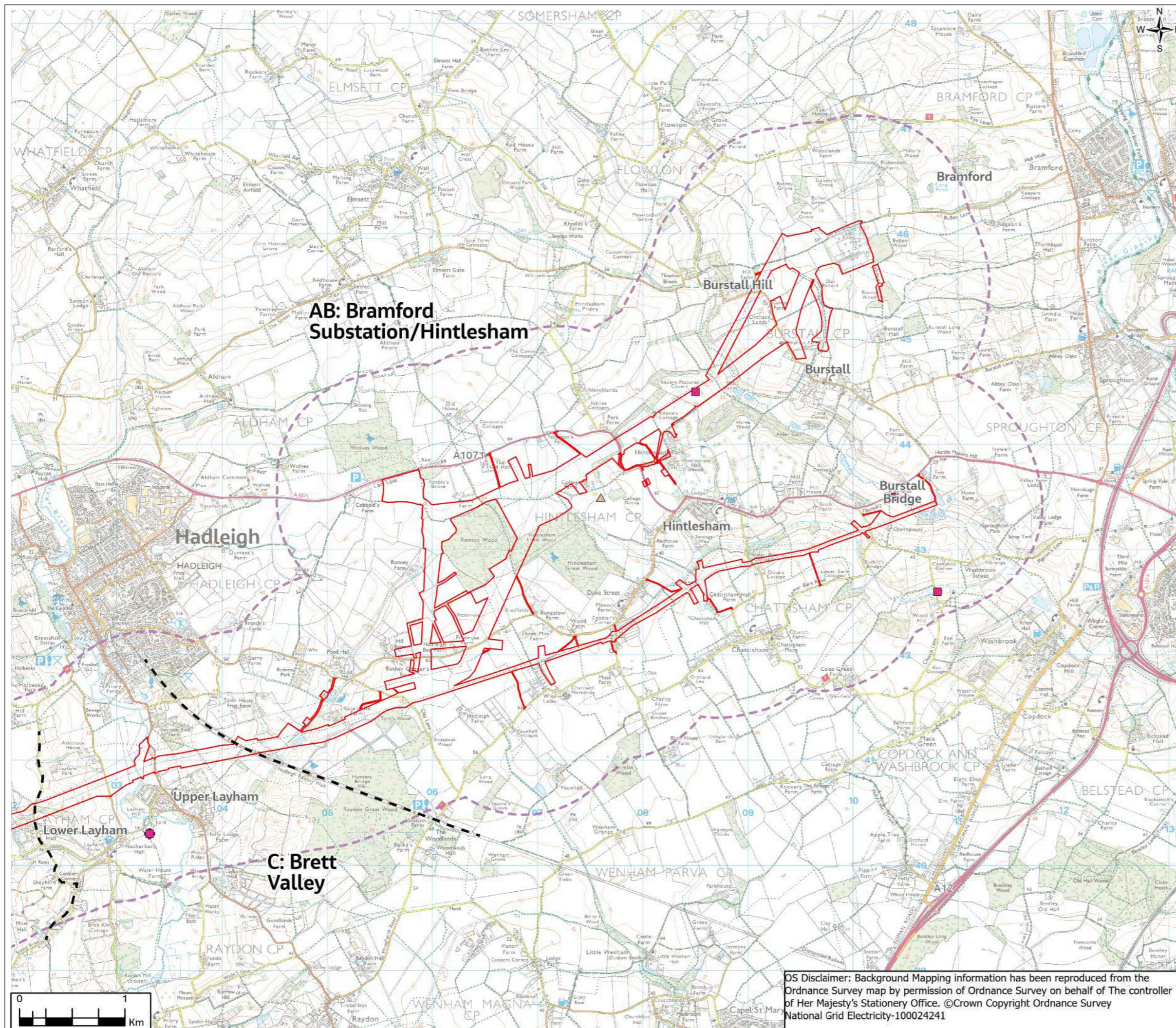
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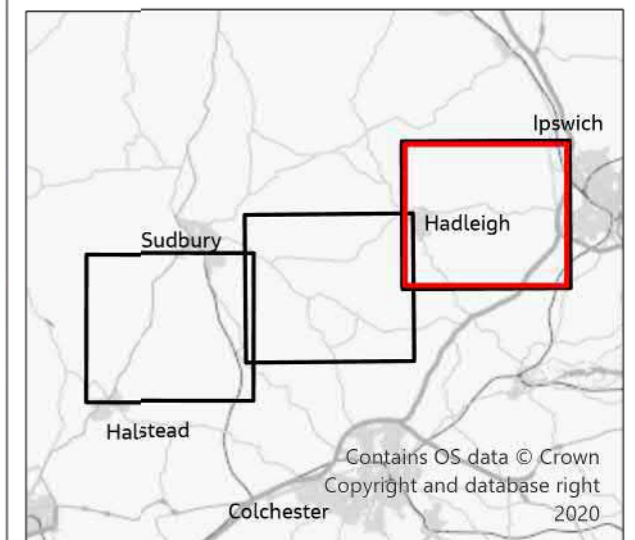
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FIGURE 7.15



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
- 2021 Desk Study**
- Animal - Schedule 9**
- American Mink
 - Canada Goose
 - Chinese Muntjac
 - Red-eared Terrapin
 - Ring-necked Parakeet
 - Turkish Crayfish
- Animal - Other INNS**
- Crangonyx pseudogracilis/floridanus
 - Drosophila suzukii (fly)
 - Harlequin Ladybird
 - Jenkins' Spire Snail
 - New Zealand Mud Snail
- Plant - Schedule 9**
- Bohemian Knotweed
 - Elodea canadensis
 - Elodea nuttallii
 - Giant Hogweed
 - Giant Knotweed
 - Himalayan Balsam
 - New Zealand Pigmyweed
- Plant - Other INNS**
- Alexanders
 - Butterfly-bush
 - Canadian Goldenrod
 - False-acacia
 - Fringed Water-lily
 - Italian Alder
 - Least Duckweed
 - Lesser Bulrush
 - Turkey Oak
 - Winter Heliotrope



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Drawing Title
 Invasive Non-Native Species Baseline
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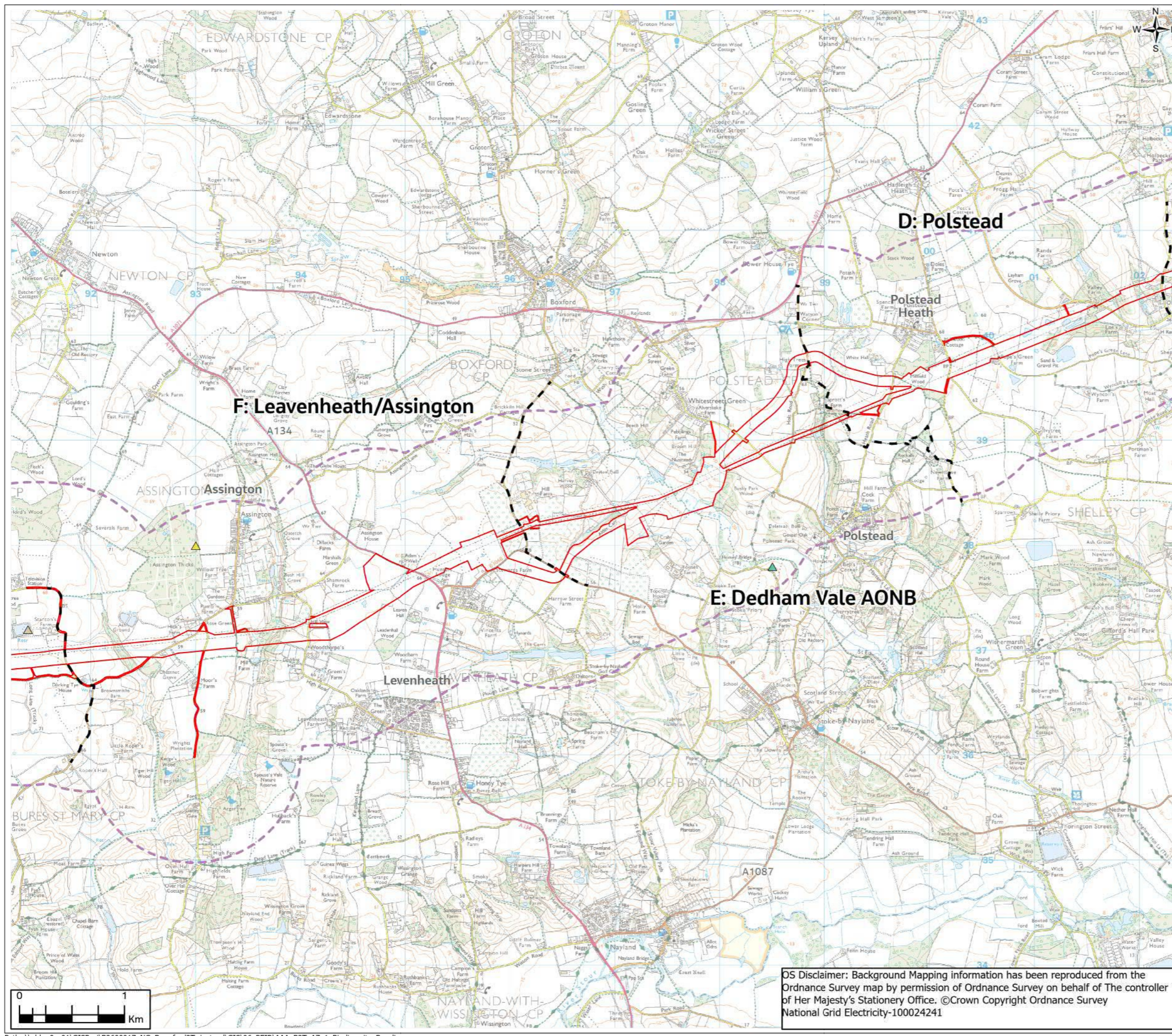
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Drawing No.
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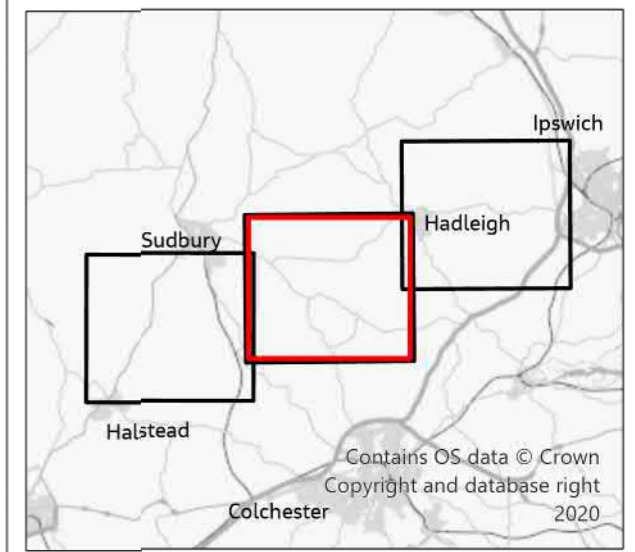
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FIGURE 7.15



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Study Area (1km)
 - 2021 Desk Study
 - Animal - Schedule 9
 - American Mink
 - Canada Goose
 - Chinese Muntjac
 - Red-eared Terrapin
 - Ring-necked Parakeet
 - Signal Crayfish
 - Turkish Crayfish
 - Animal - Other INNS
 - Crangonyx pseudogracilis/floridanus
 - Drosophila suzukii (fly)
 - Harlequin Ladybird
 - Jenkins' Spire Snail
 - New Zealand Mud Snail
 - Plant - Schedule 9
 - Bohemian Knotweed
 - Elodea canadensis
 - Elodea nuttallii
 - Giant Hogweed
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 - Plant - Other INNS
 - Alexanders
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 - Turkey Oak
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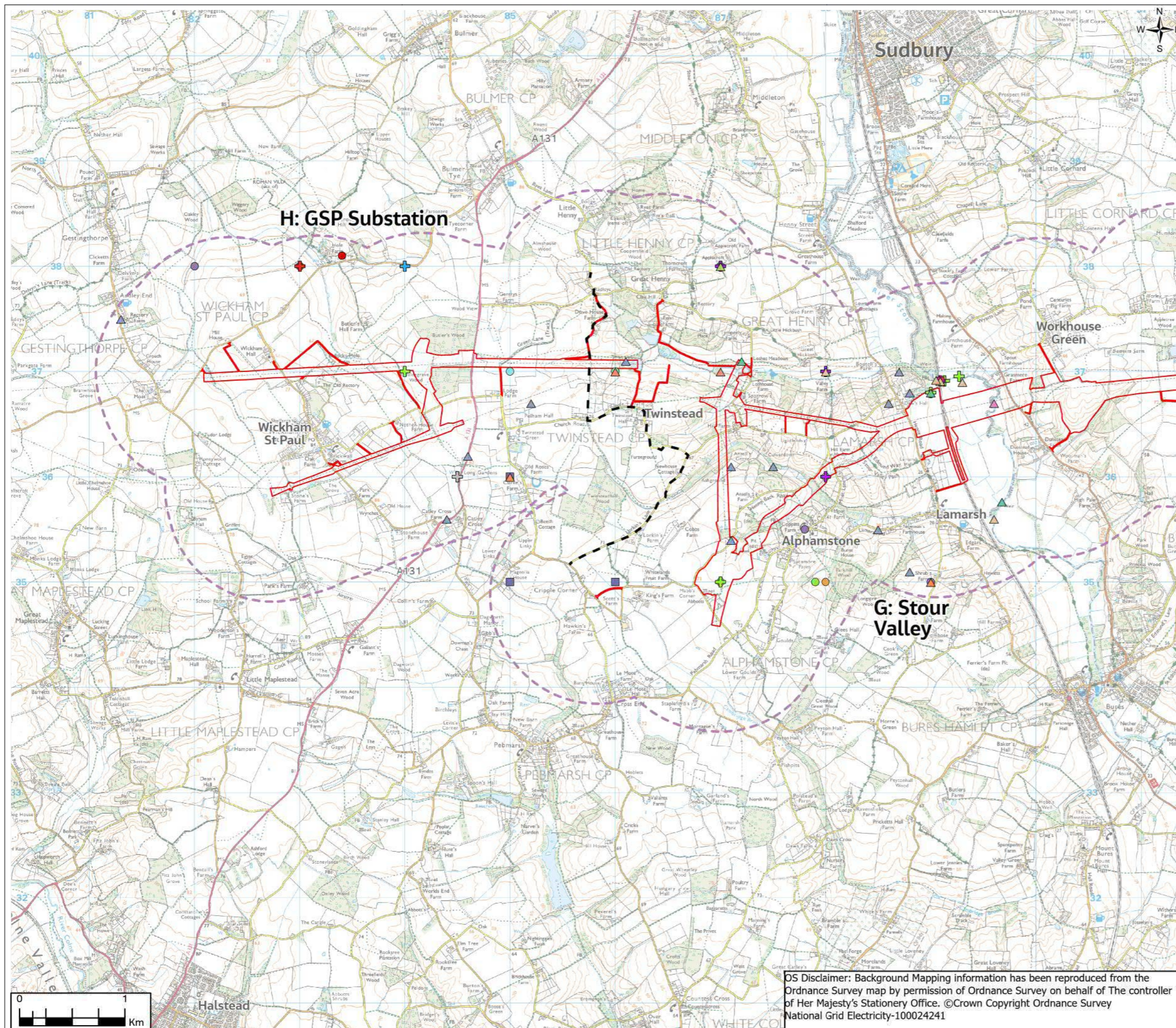
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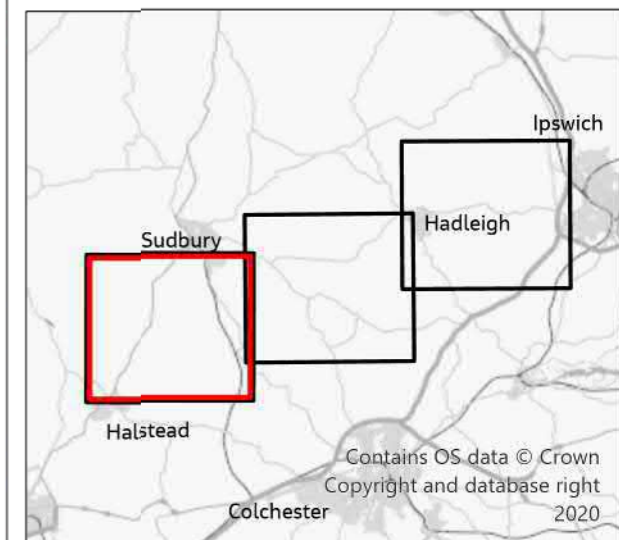
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FIGURE 7.15



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Study Area (1km)
- 2021 Desk Study**
- Animal - Schedule 9**
- ▲ American Mink
 - ▲ Canada Goose
 - ▲ Chinese Muntjac
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 - ▲ Turkish Crayfish
- Animal - Other INNS**
- Crangonyx pseudogracilis/floridanus
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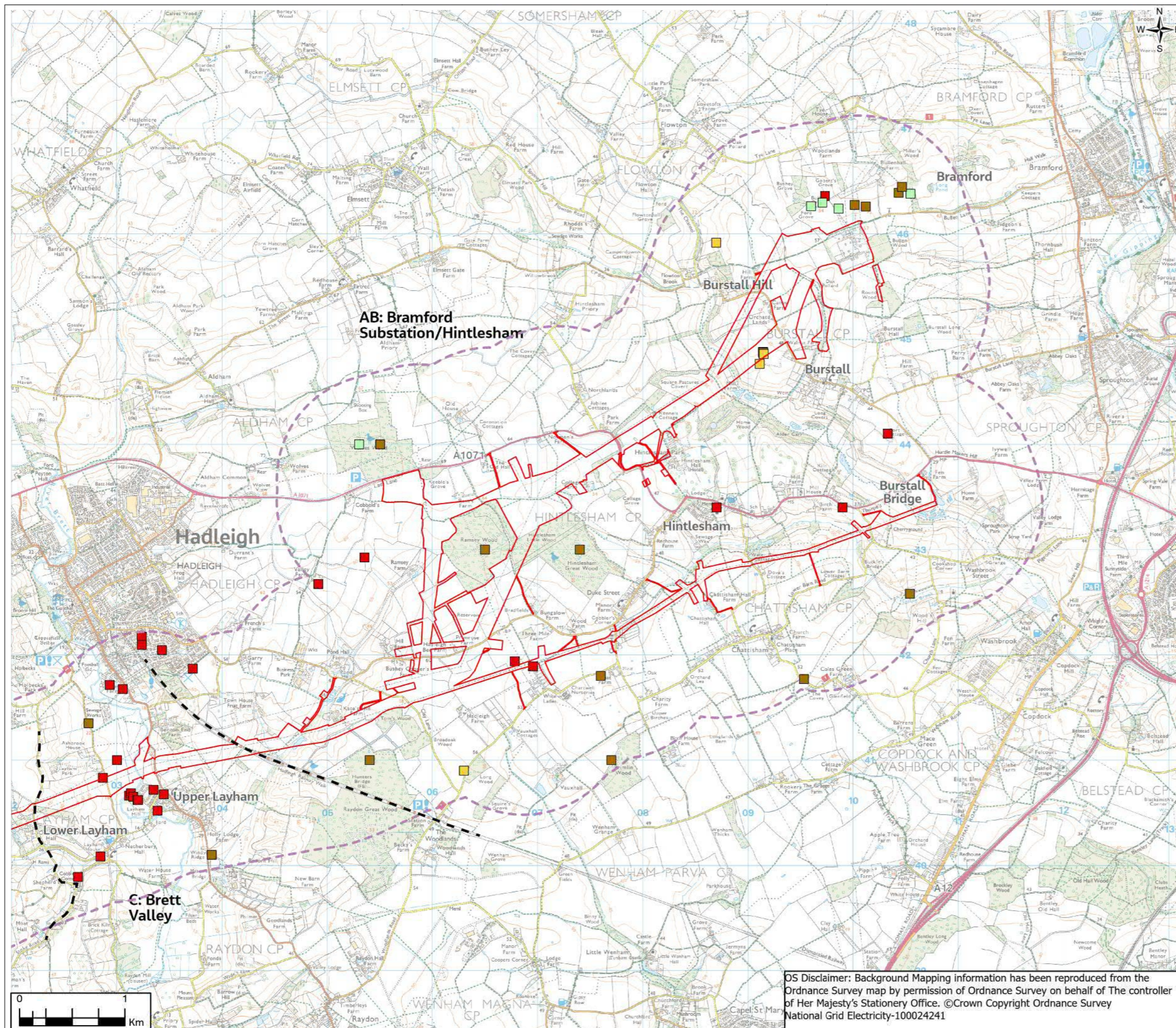
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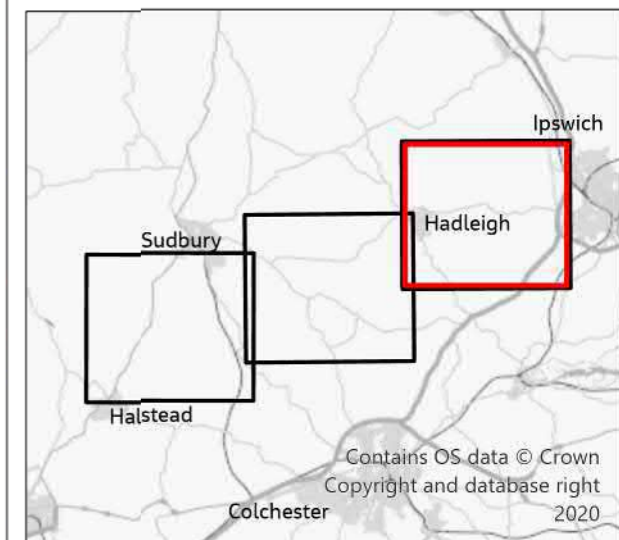
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FIGURE 7.16



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - - - Study Area (1km)
- 2021 Desk Study**
- Brown Hare
 - Common Toad
 - Harvest Mouse
 - Polecat
 - Hedgehog



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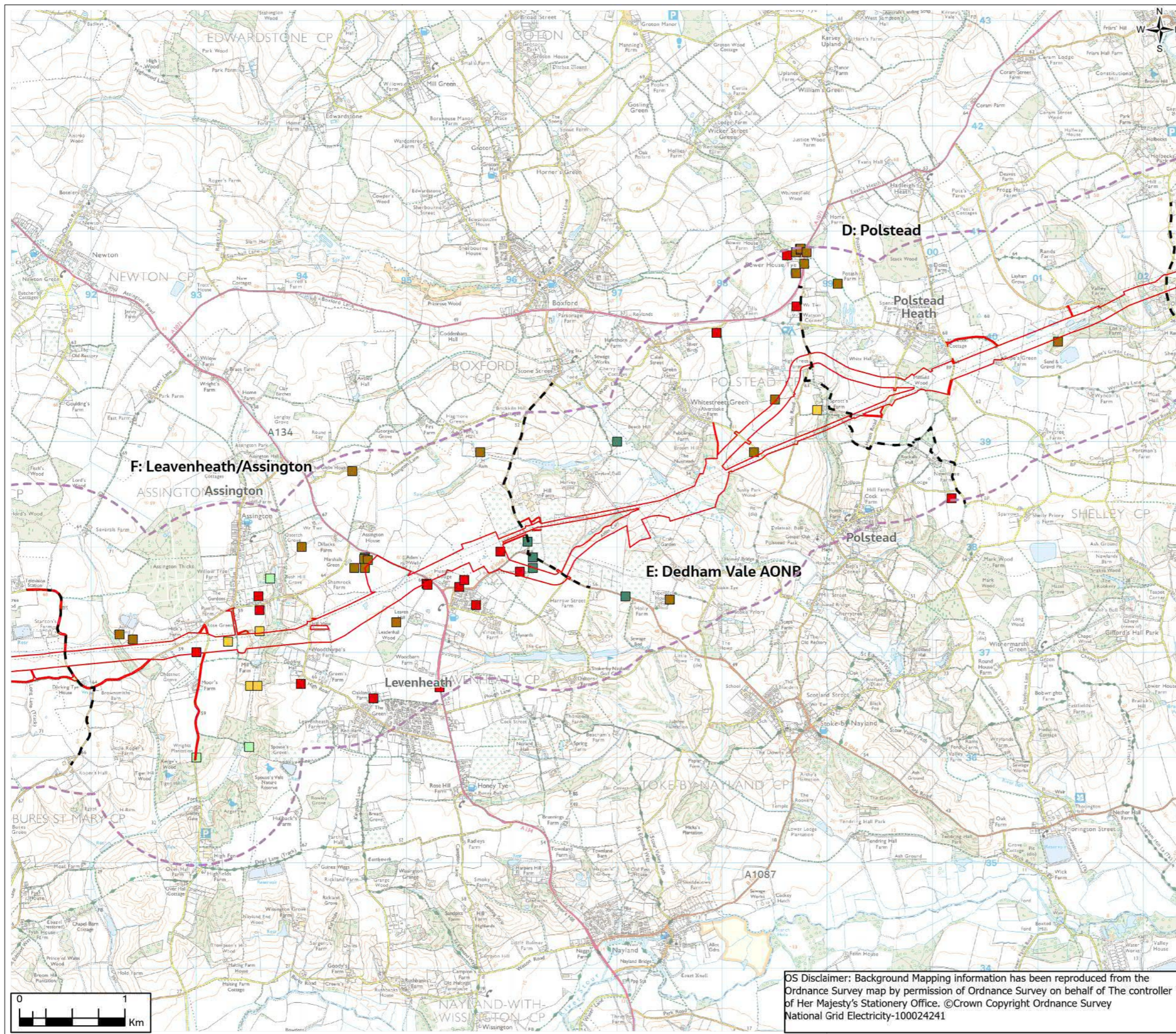
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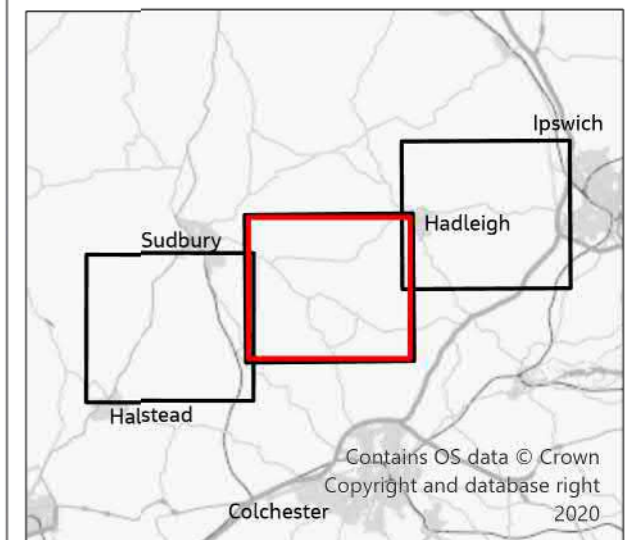
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FIGURE 7.16



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (1km)
- 2021 Desk Study**
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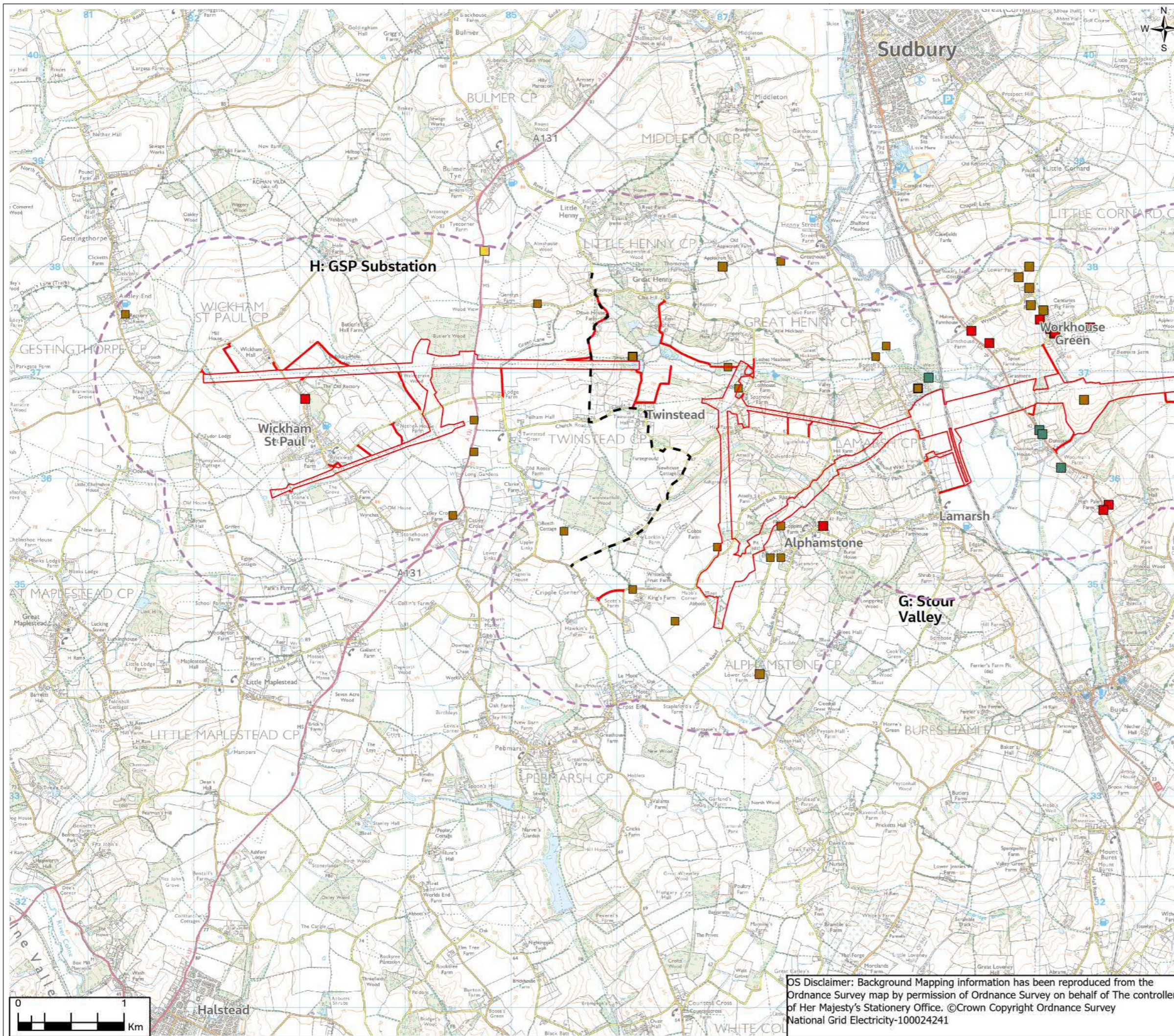
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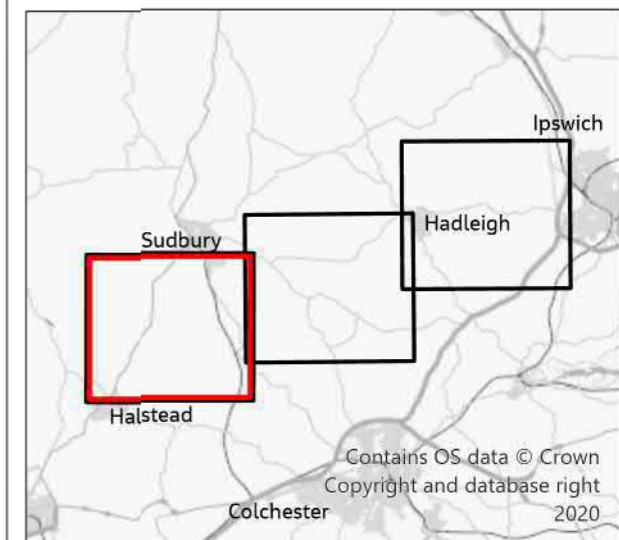
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FIGURE 7.16



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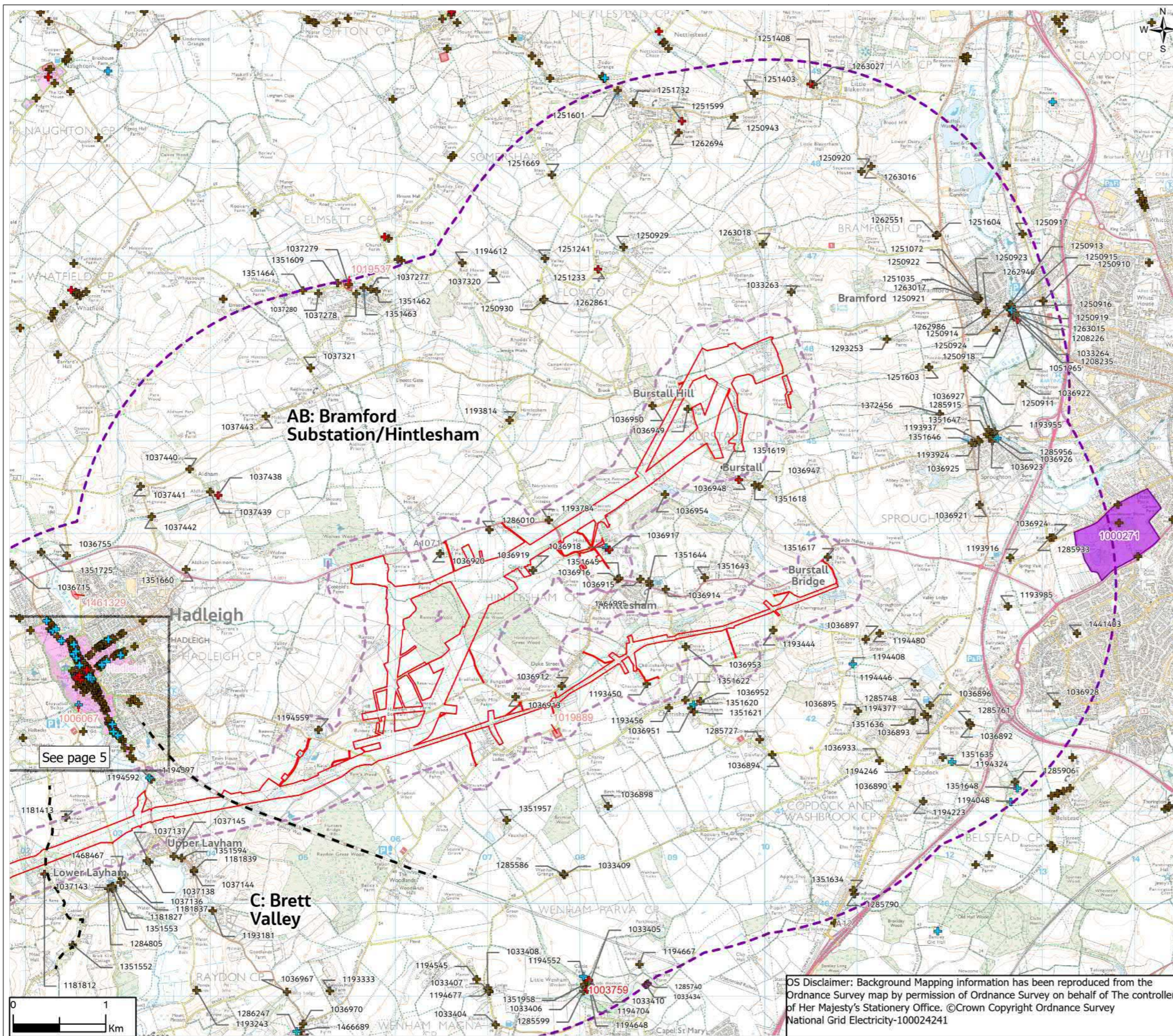
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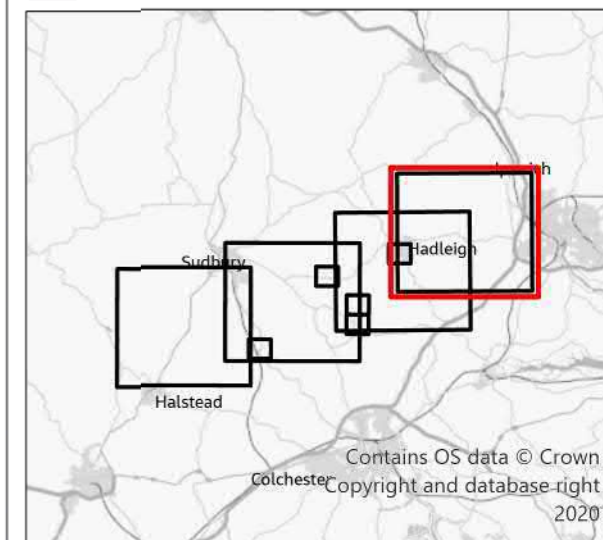
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FIGURE 8.1



- Legend**
- - Section boundaries
 - ▭ Draft Order Limits
 - - - Study Area (250m)
 - - - Wider Study Area (3km)
 - ⊕ Grade I Listed Buildings
 - ⊕ Grade II* Listed Buildings
 - ⊕ Grade II Listed Buildings
 - 1194612 Listed Building Heritage ID (Within the 3km Study Area)
 - Protected Lanes
 - Conservation Areas
 - Scheduled Monuments
 - Registered Parks and Gardens



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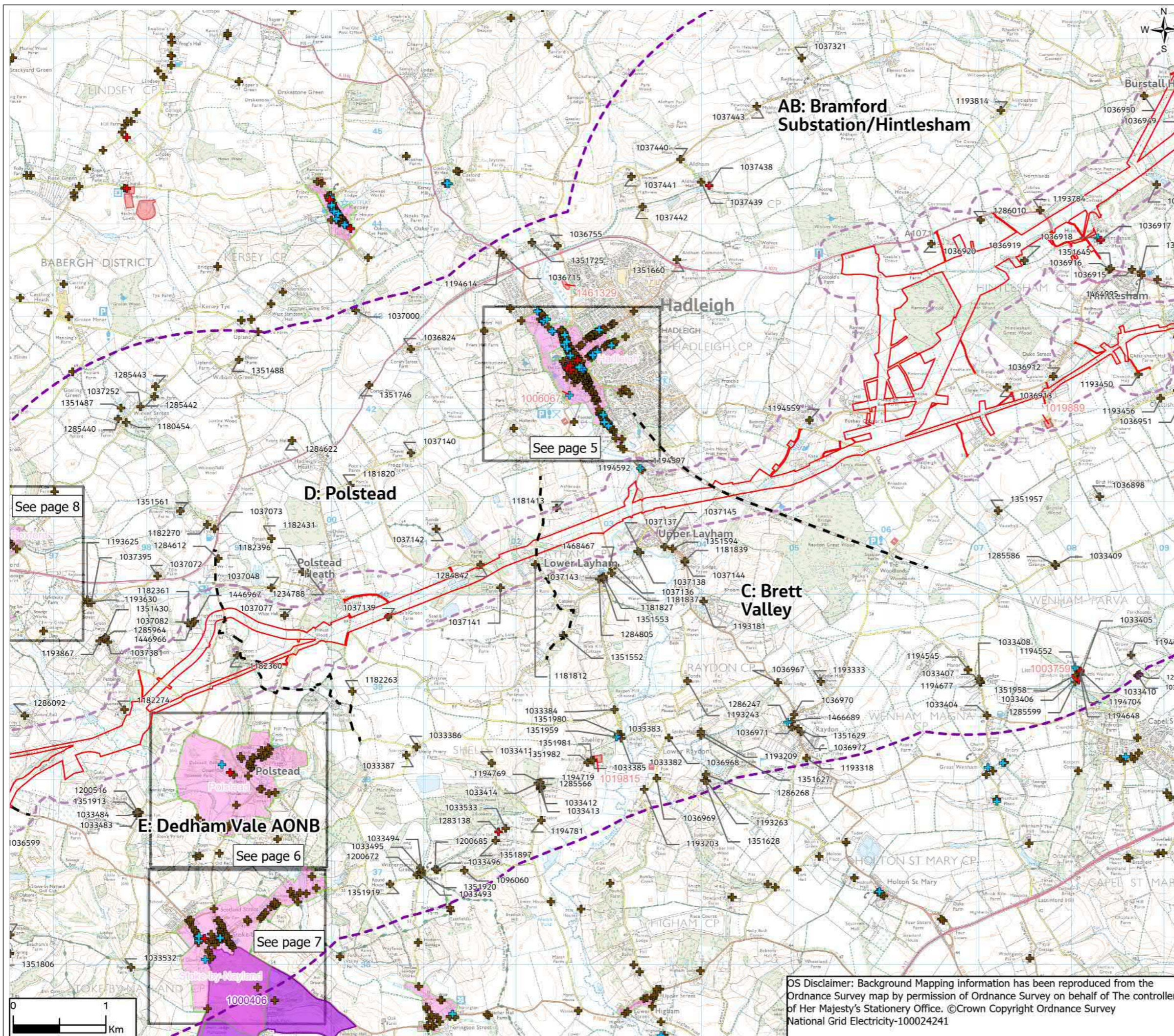
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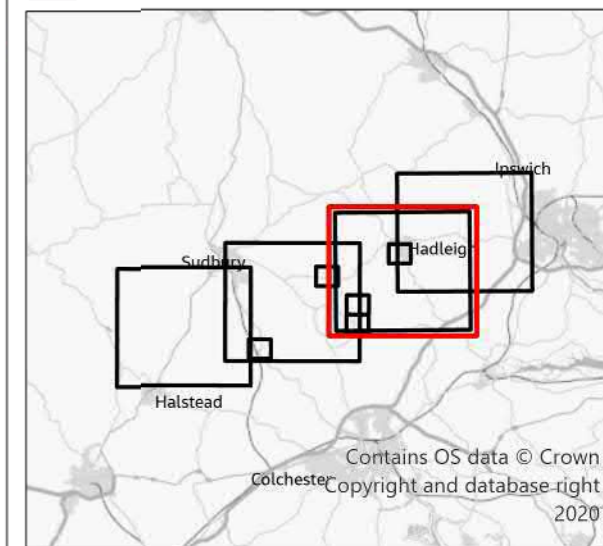
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FIGURE 8.1



Legend

- - Section boundaries
- Draft Order Limits
- ▭ Study Area (250m)
- ▭ Wider Study Area (3km)
- + Grade I Listed Buildings
- + Grade II* Listed Buildings
- + Grade II Listed Buildings
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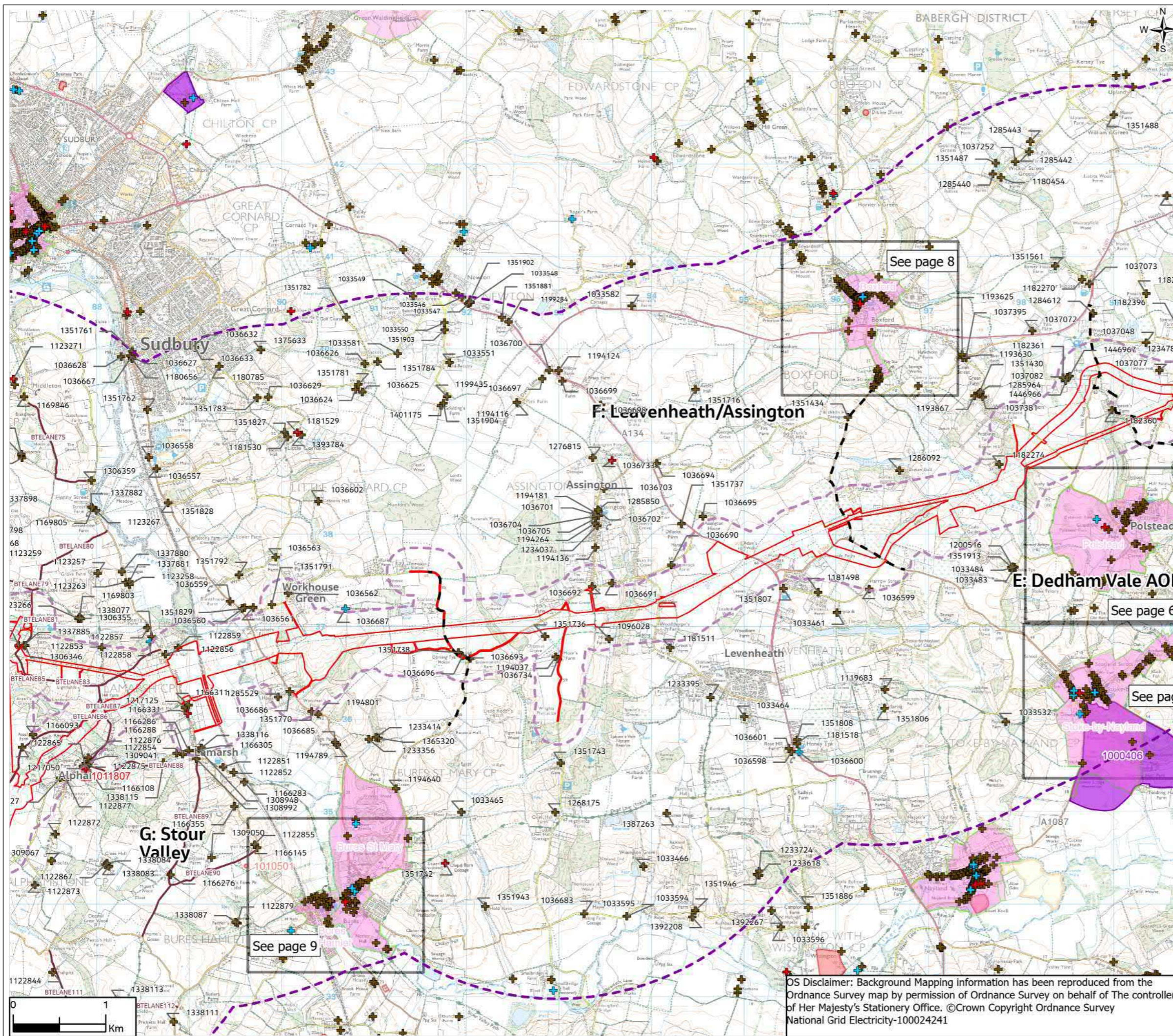
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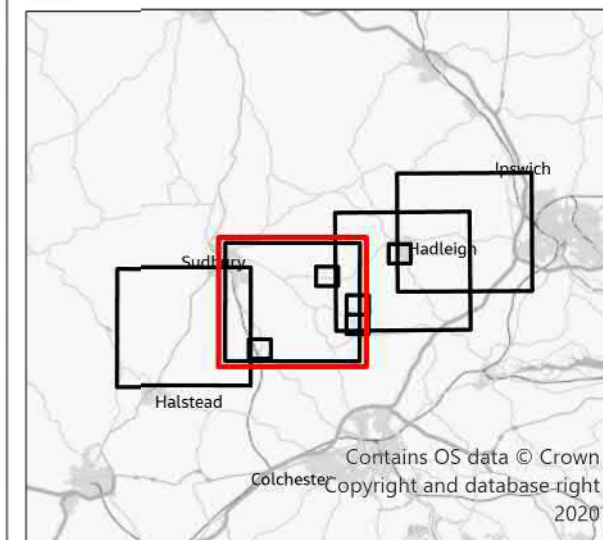
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FIGURE 8.1



- Legend**
- - Section boundaries
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 - ⊕ Grade I Listed Buildings
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 - ⊕ Grade II Listed Buildings
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 - Protected Lanes
 - ▭ Conservation Areas
 - ▭ Scheduled Monuments
 - ▭ Registered Parks and Gardens



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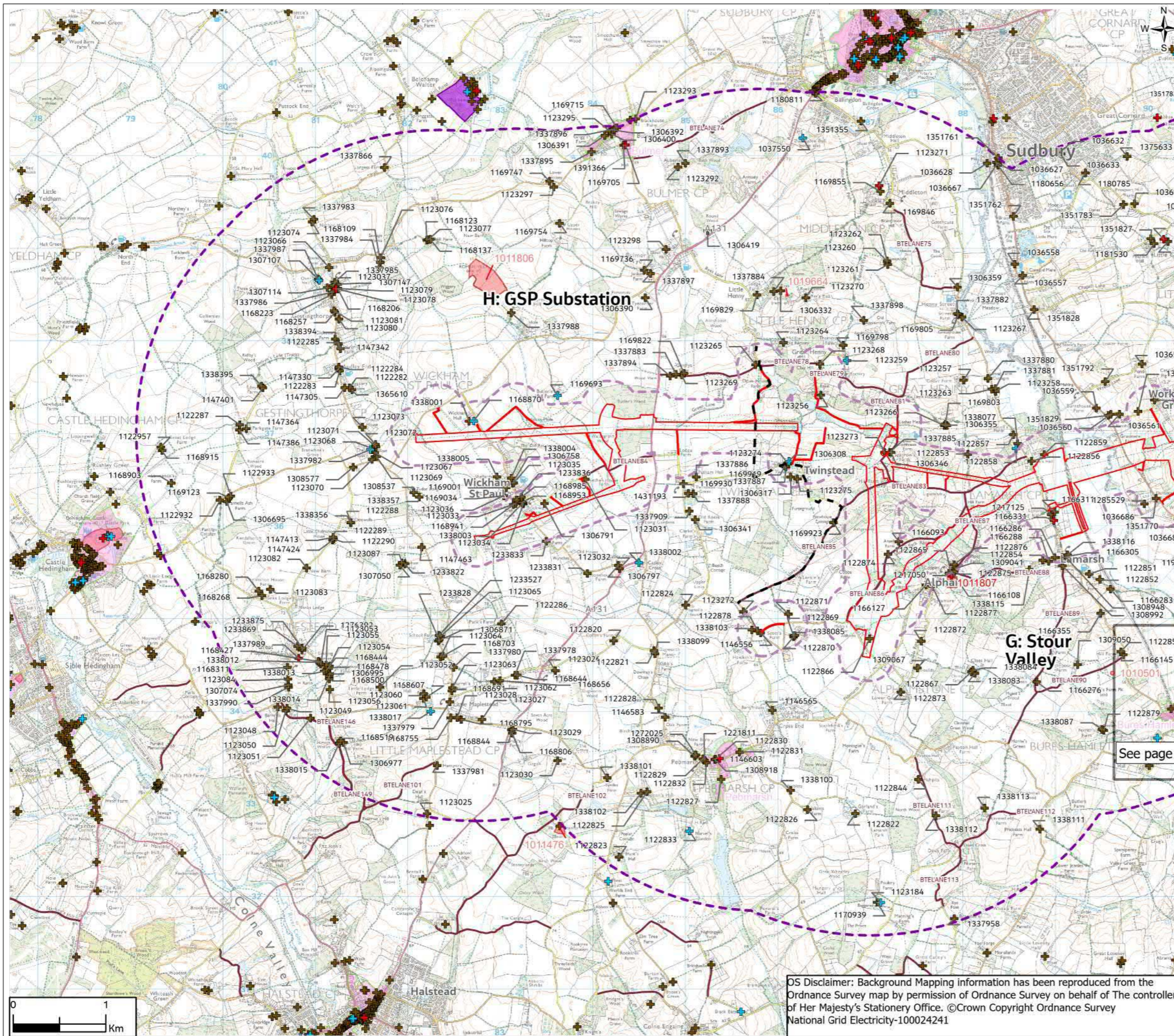
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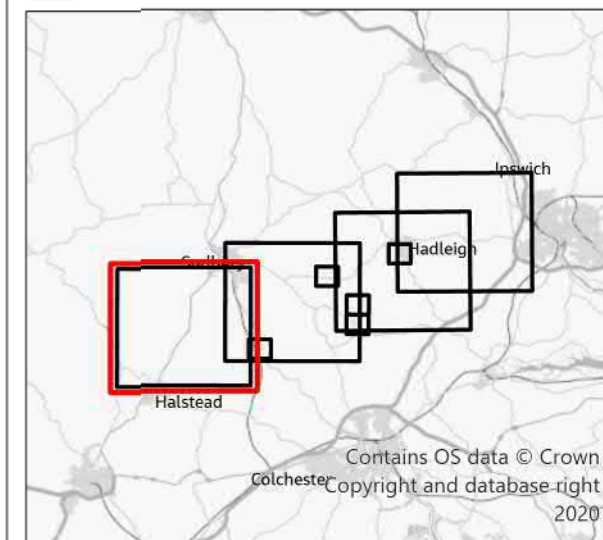
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FIGURE 8.1



- Legend**
- - Section boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (250m)
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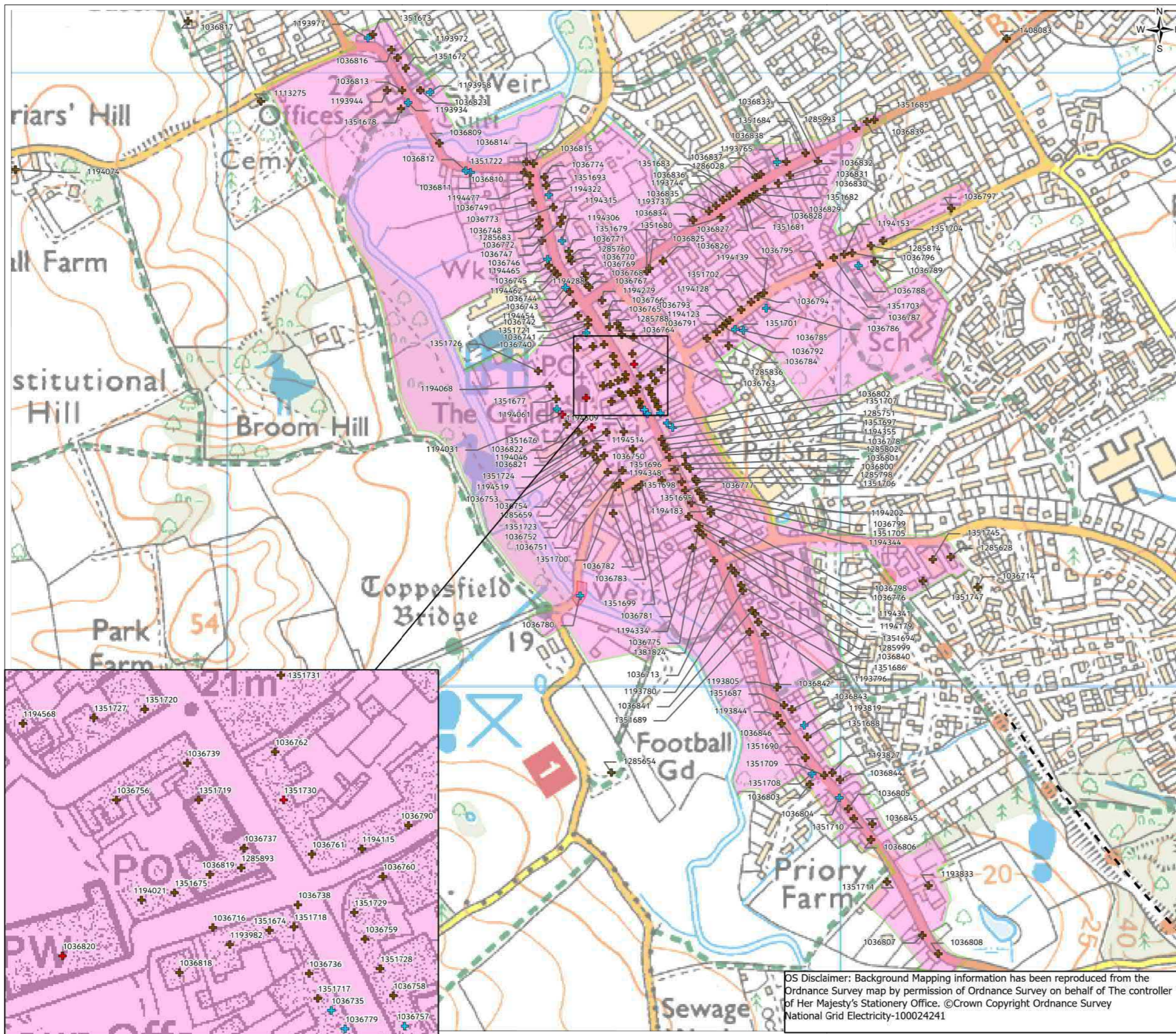
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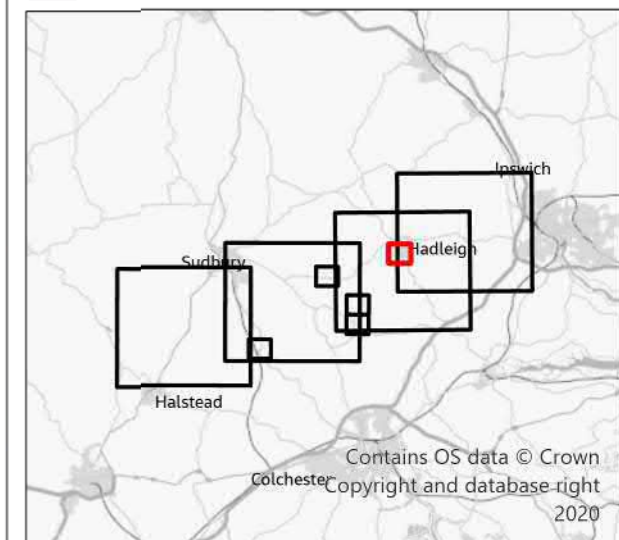
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FIGURE 8.1



- Legend**
- - Section boundaries
 - Draft Order Limits
 - Study Area (250m)
 - Wider Study Area (3km)
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 - ⊕ Grade II* Listed Buildings
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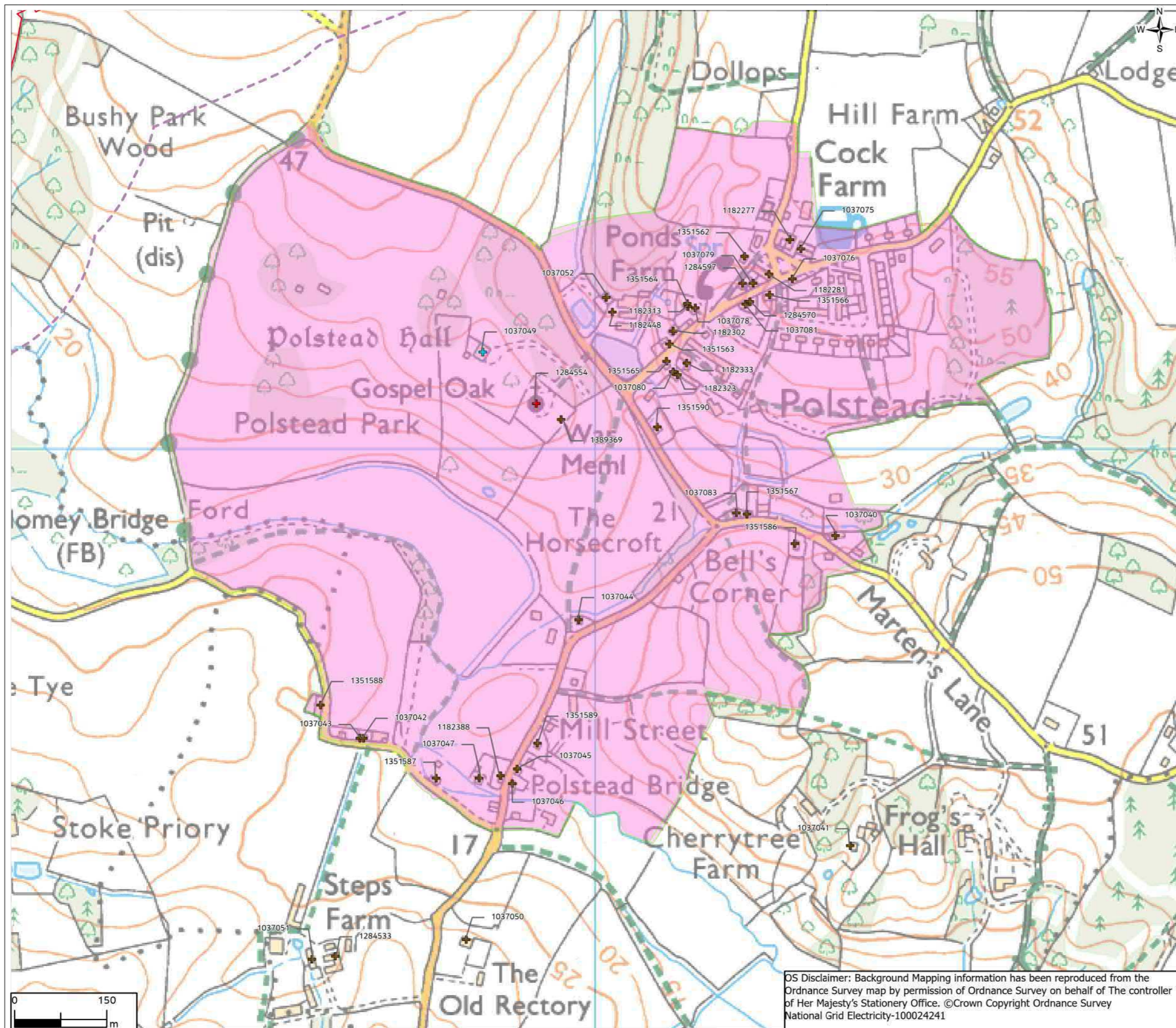
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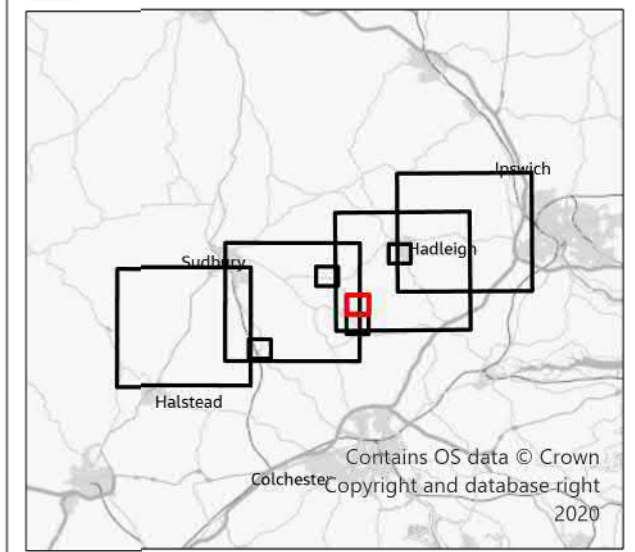
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FIGURE 8.1



- Legend**
- - Section boundaries
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 - ▭ Study Area (250m)
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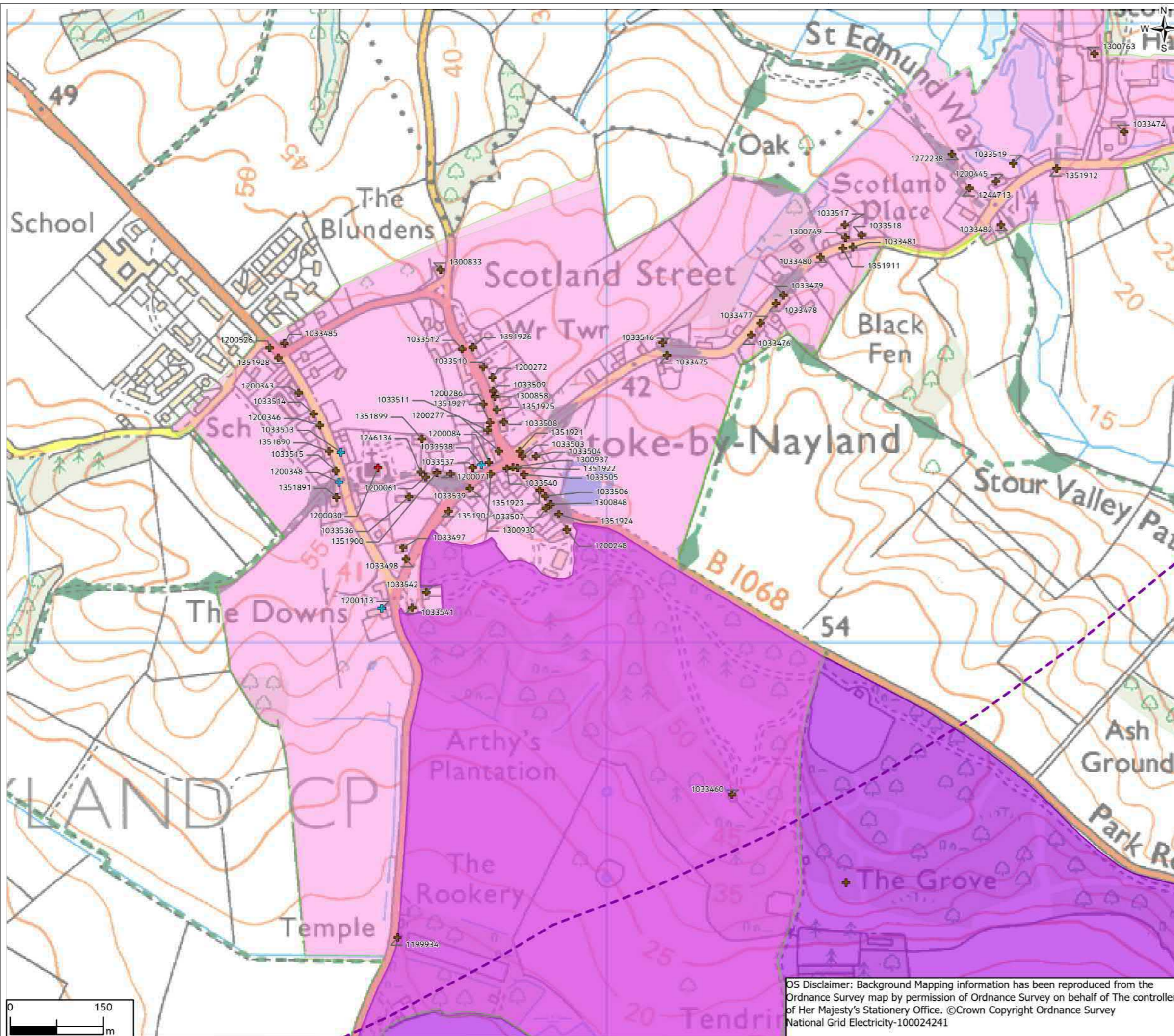
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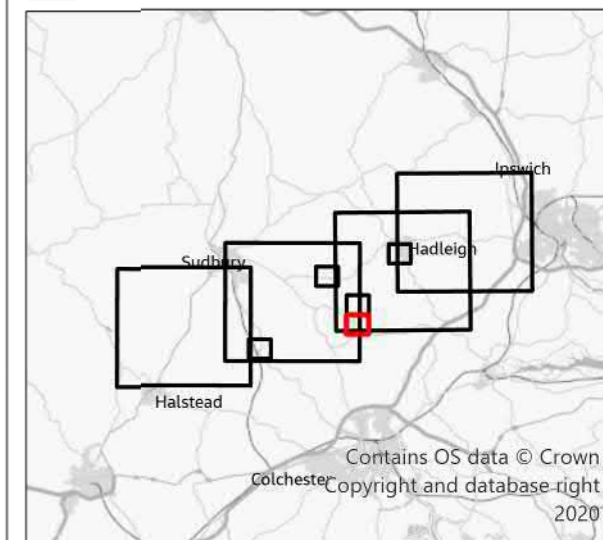
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FIGURE 8.1



- Legend**
- - Section boundaries
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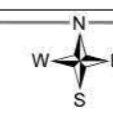
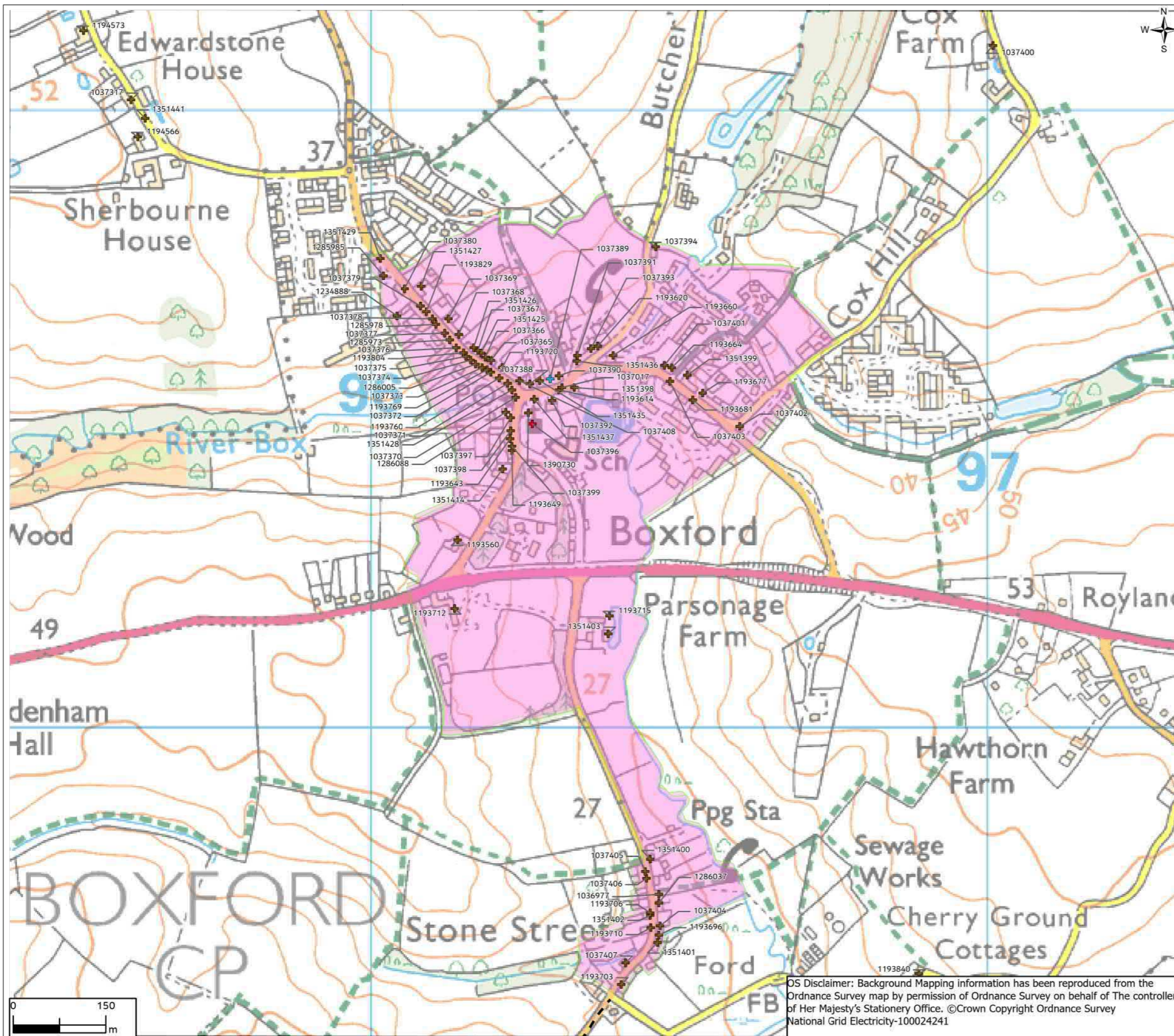
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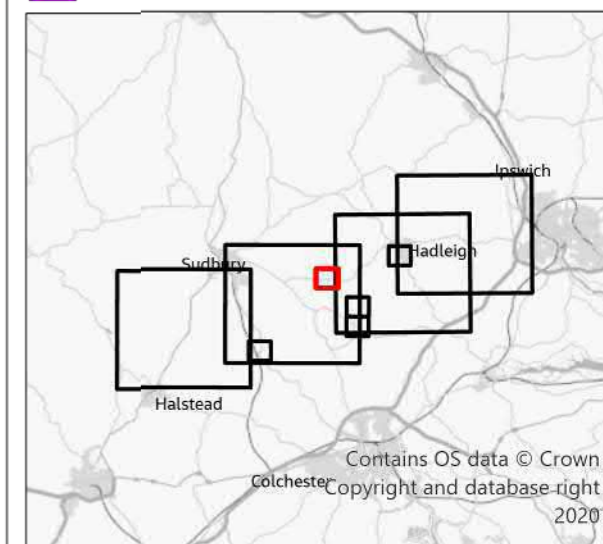
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FIGURE 8.1



Legend

- - Section boundaries
- Draft Order Limits
- ▭ Study Area (250m)
- ▭ Wider Study Area (3km)
- + Grade I Listed Buildings
- + Grade II* Listed Buildings
- + Grade II Listed Buildings
- Listed Building Heritage ID (Within the 3km Study Area)
- Protected Lanes
- Conservation Areas
- Scheduled Monuments
- Registered Parks and Gardens



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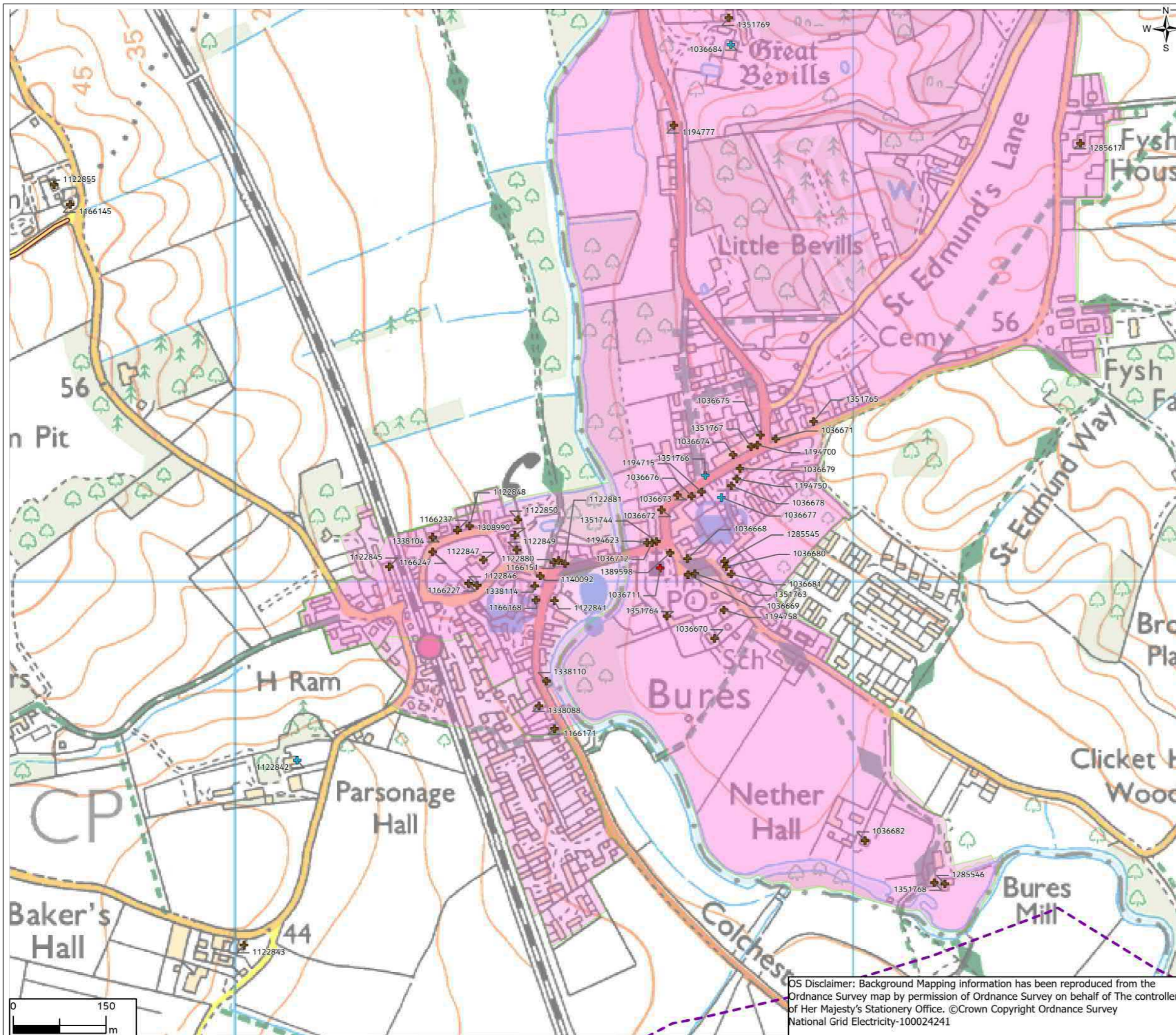
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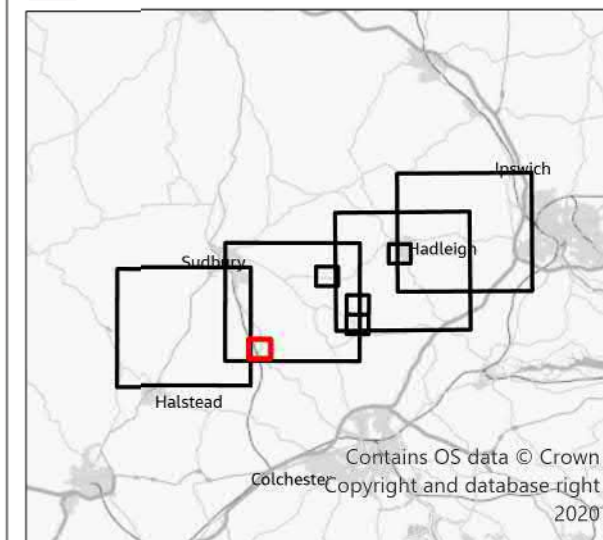
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FIGURE 8.1



- Legend**
- - Section boundaries
 - Draft Order Limits
 - Study Area (250m)
 - Wider Study Area (3km)
 - ⊕ Grade I Listed Buildings
 - ⊕ Grade II* Listed Buildings
 - ⊕ Grade II Listed Buildings
- Listed Building Heritage ID (Within the 3km Study Area)
- 1194612
- Protected Lanes
 - Conservation Areas
 - Scheduled Monuments
 - Registered Parks and Gardens



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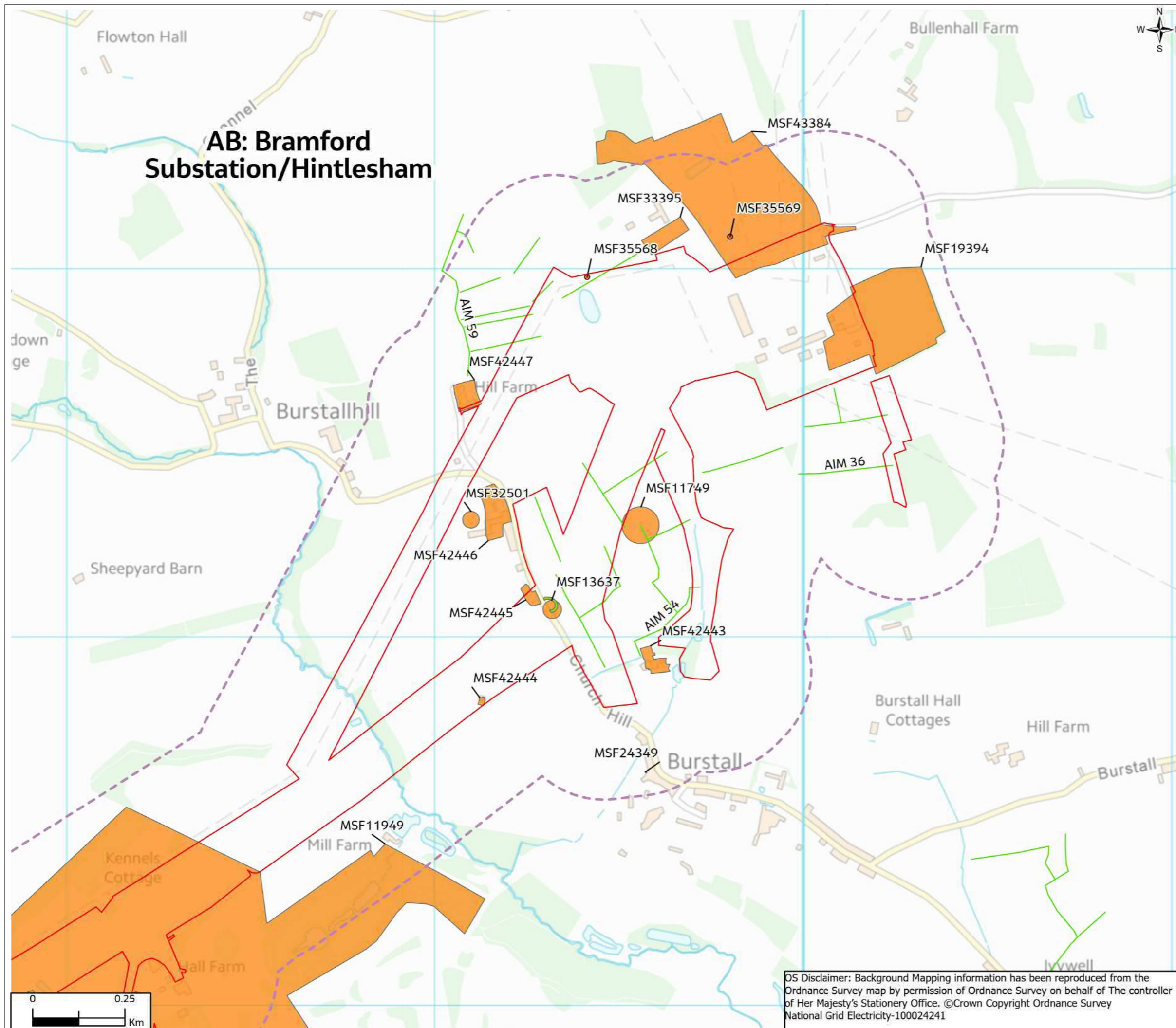
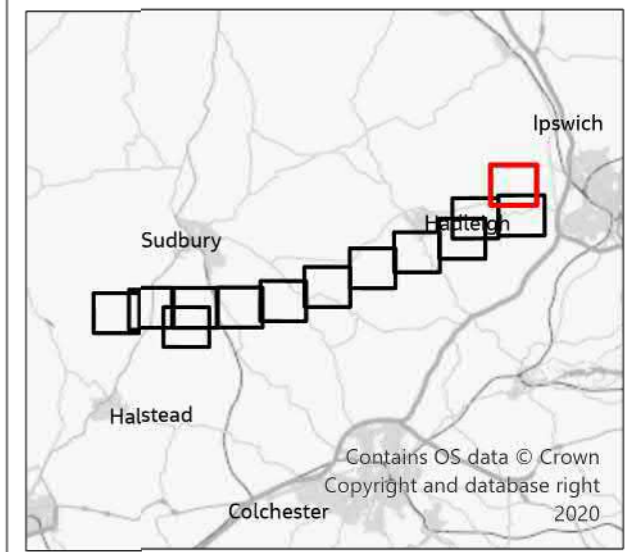


FIGURE 8.2

- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Non-designated heritage asset
 - Non-Designated Heritage Asset
 - Aerial Investigation and Mapping (AIM)
 - Non-designated heritage asset
 - Essex Council Historic Environment Record
 - Suffolk Council Historic Environment Record
 - Non-designated heritage asset
 - Non-designated heritage asset



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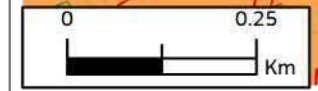
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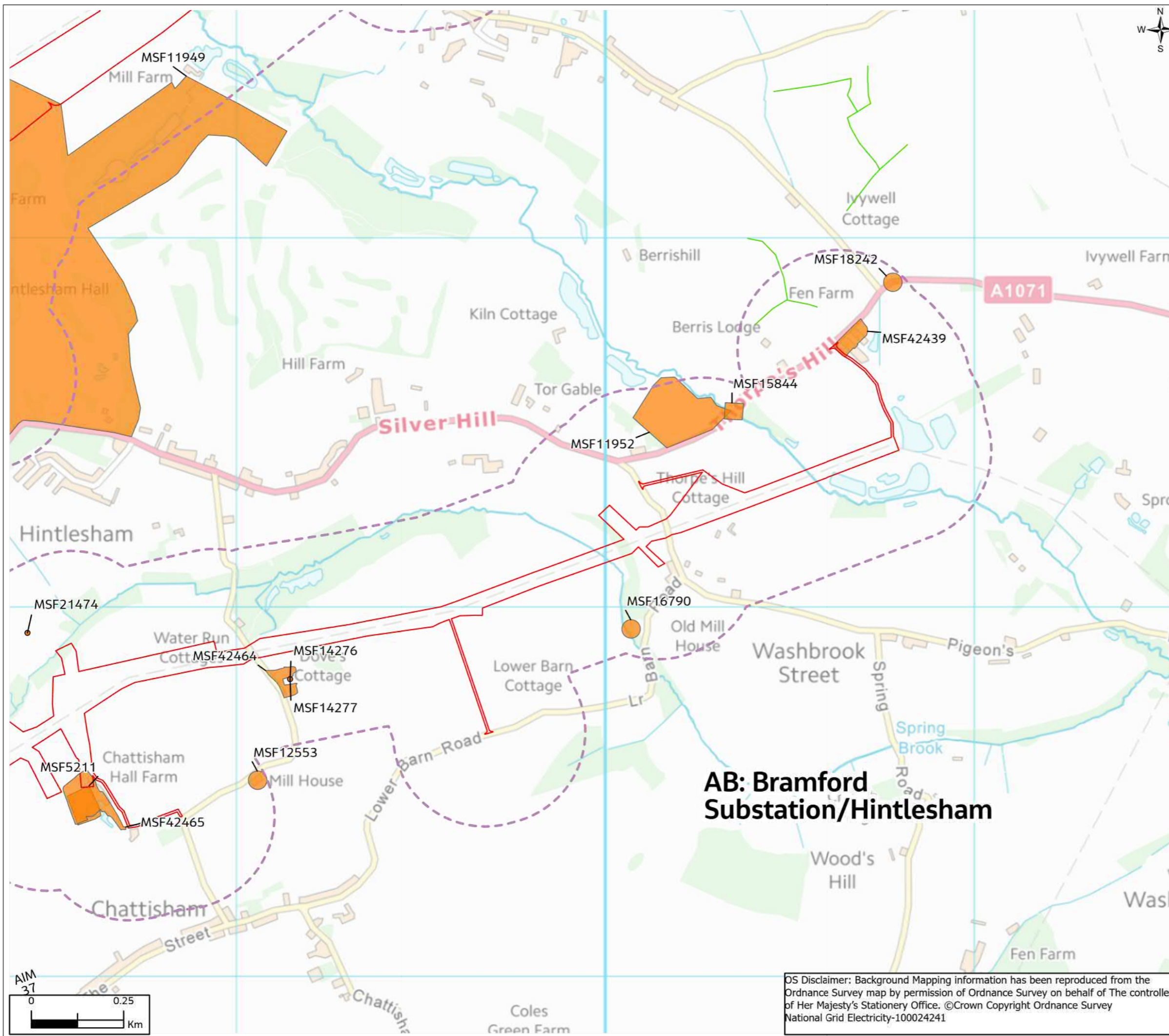
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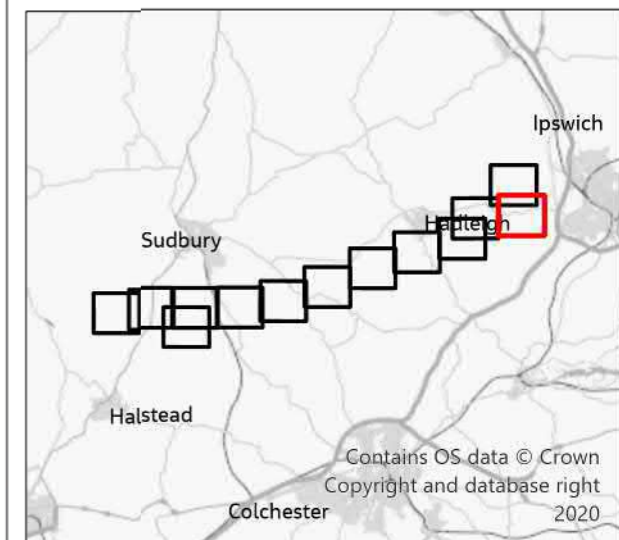


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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Non-designated heritage asset
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
 - Non-designated heritage asset
- Essex Council Historic Environment Record**
- Suffolk Council Historic Environment Record**
- Geophysical Survey (2013)**
- Aerial Investigation and Mapping (AIM)**



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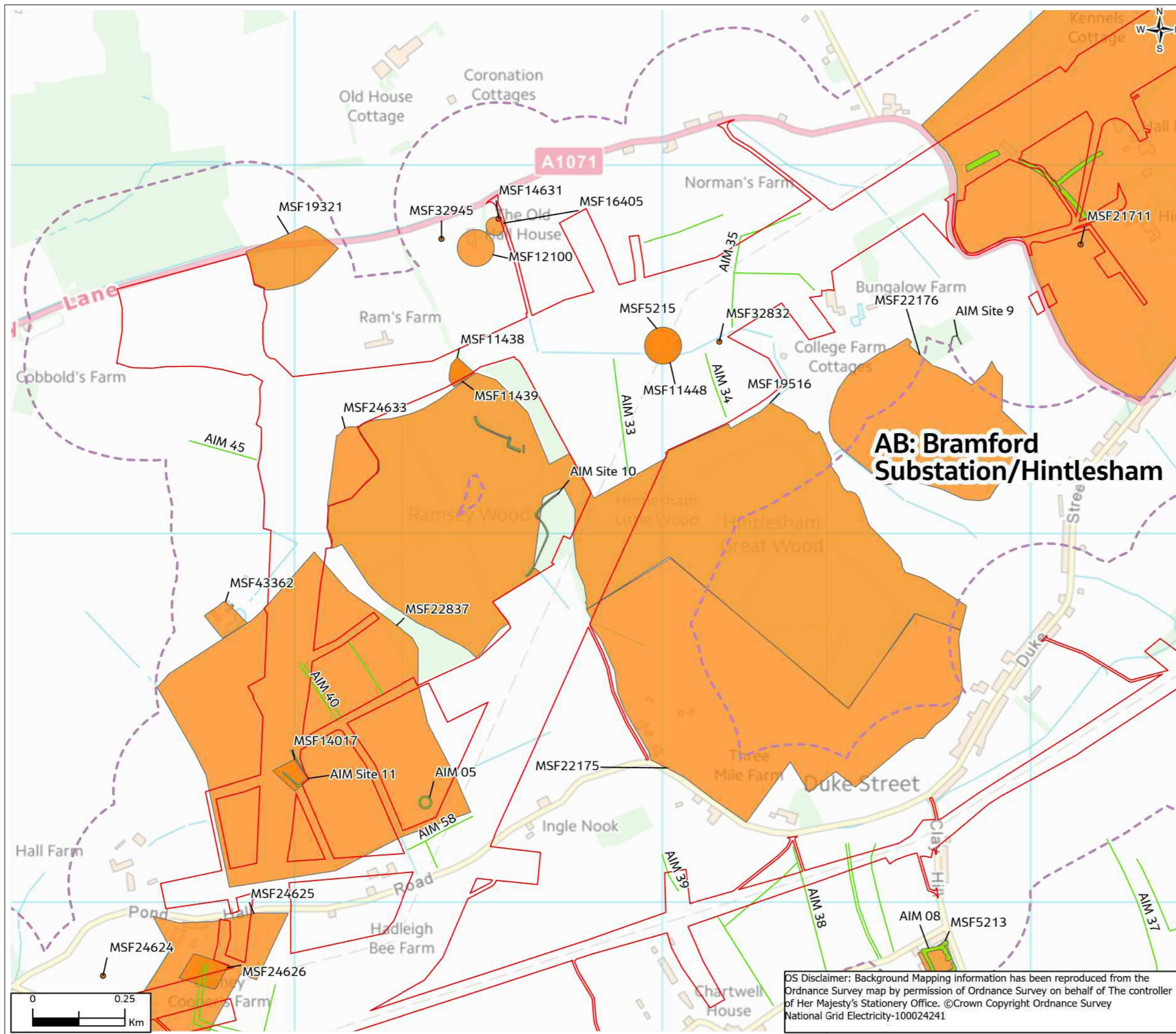
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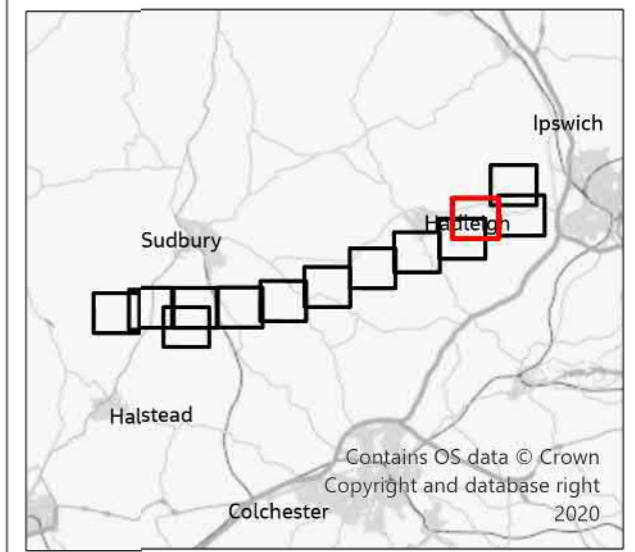
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Geophysical Survey (2013)
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
 - Aerial Investigation and Mapping (AIM)
 - Non-designated heritage asset
 - Non-designated heritage asset
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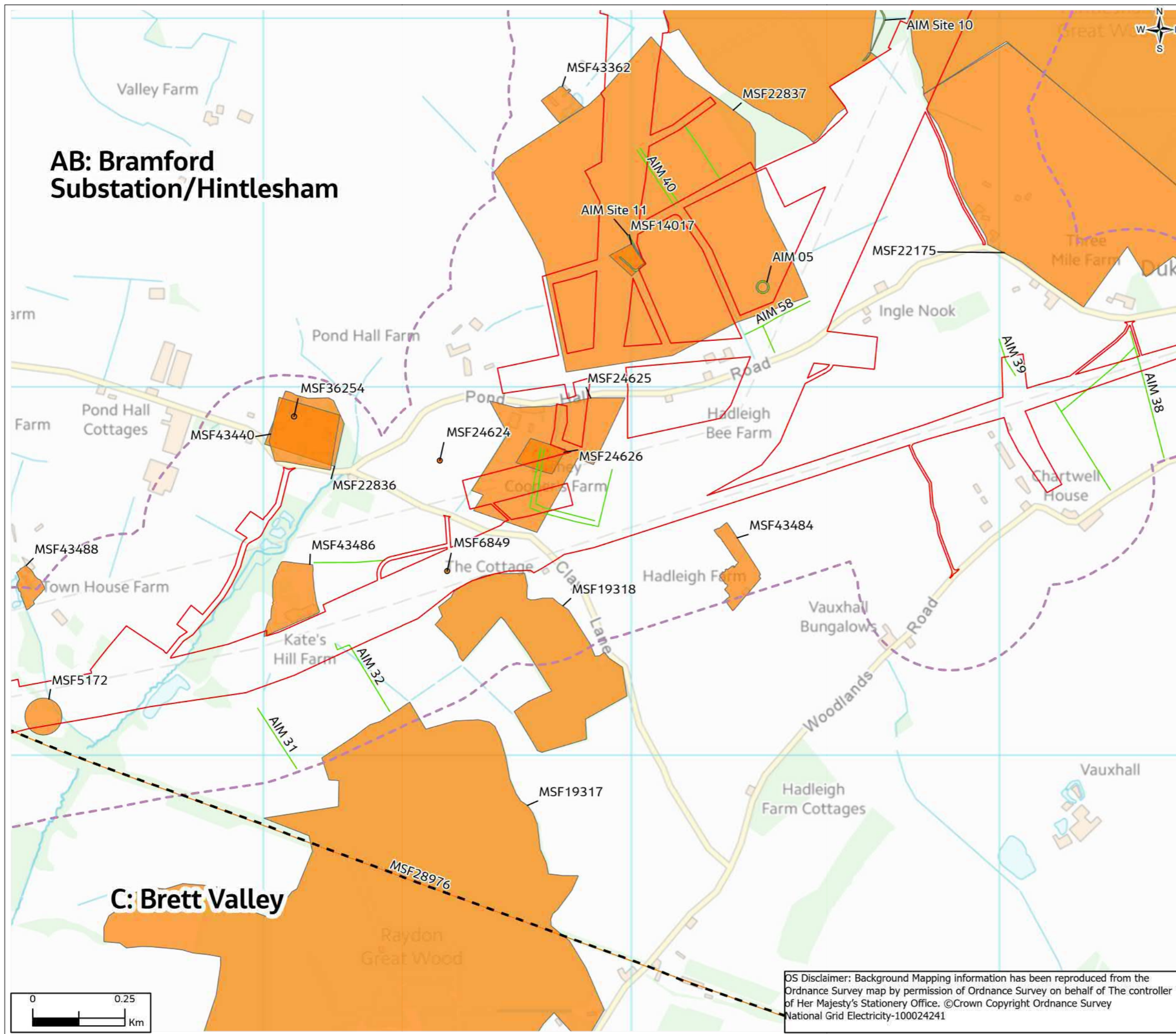
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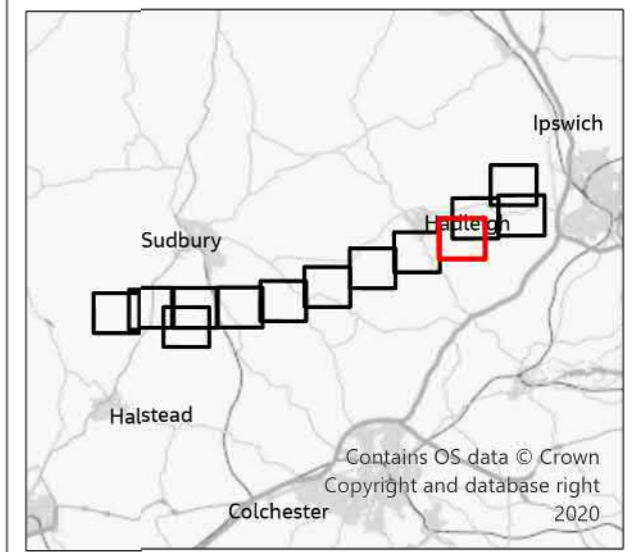
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FIGURE 8.2



Legend

- - Section Boundaries
- Draft Order Limits
- - - Study Area (250m)
- Geophysical Survey (2013)
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
- Aerial Investigation and Mapping (AIM)
 - Non-designated heritage asset
- Essex Council Historic Environment Record
- Suffolk Council Historic Environment Record
- Non-designated heritage asset
- Non-designated heritage asset



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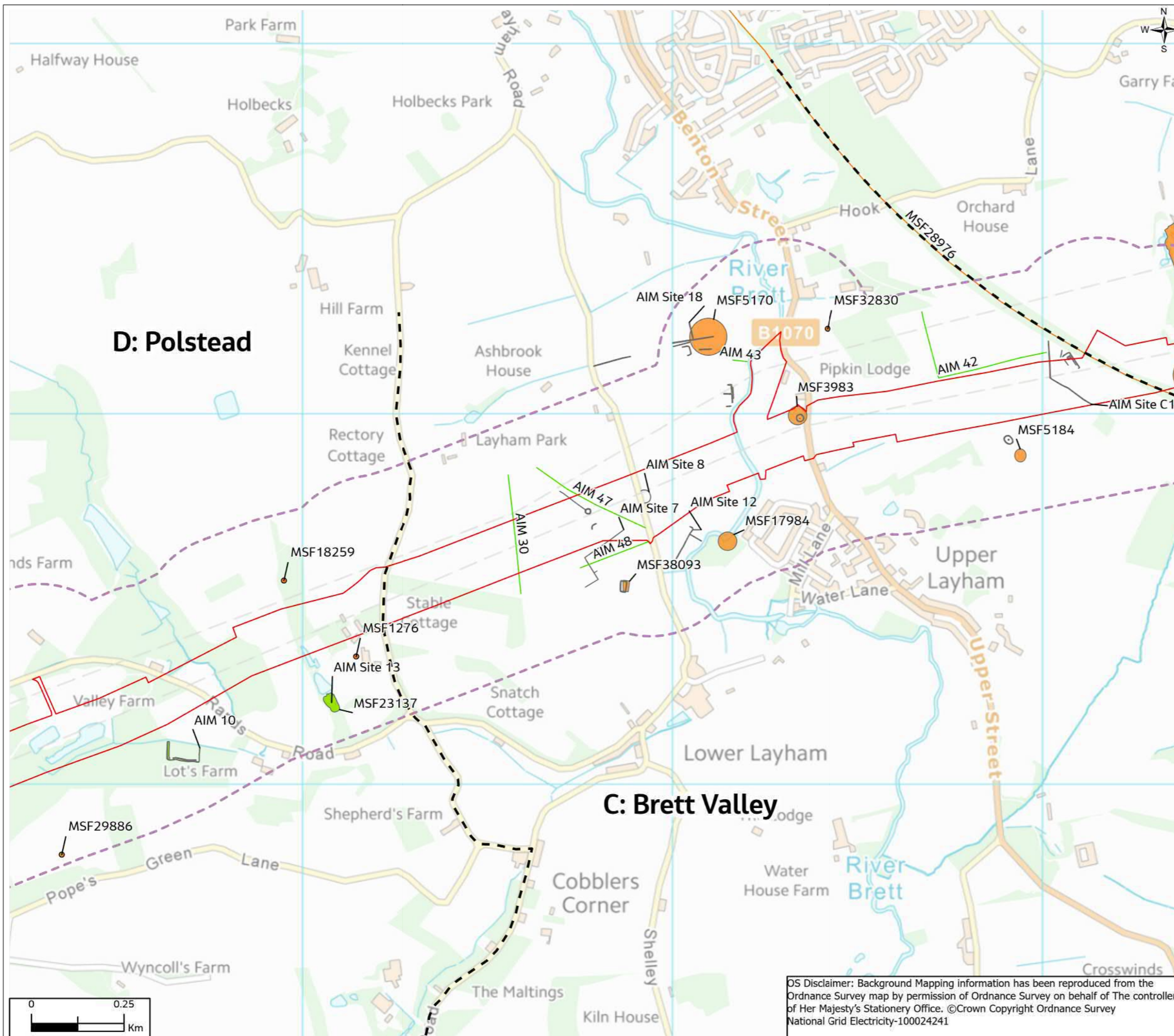
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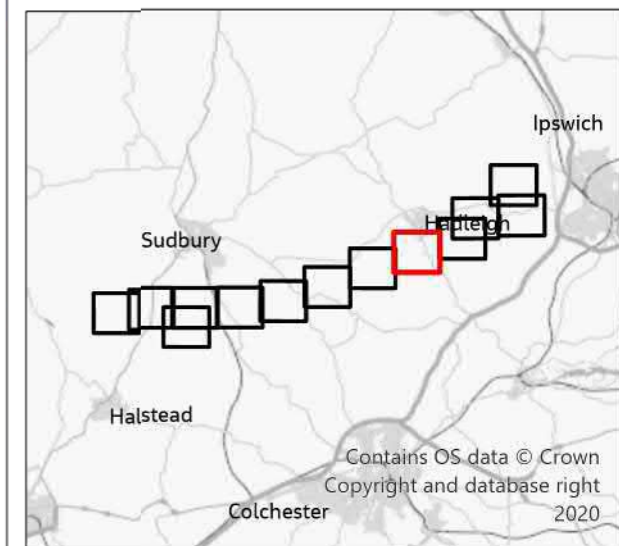
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Geophysical Survey (2013)
 - Aerial Investigation and Mapping (AIM)
 - Non-designated heritage asset
 - Non-designated heritage asset
 - Non-designated heritage asset
 - Non-designated heritage asset
- Essex Council Historic Environment Record**
- Suffolk Council Historic Environment Record**



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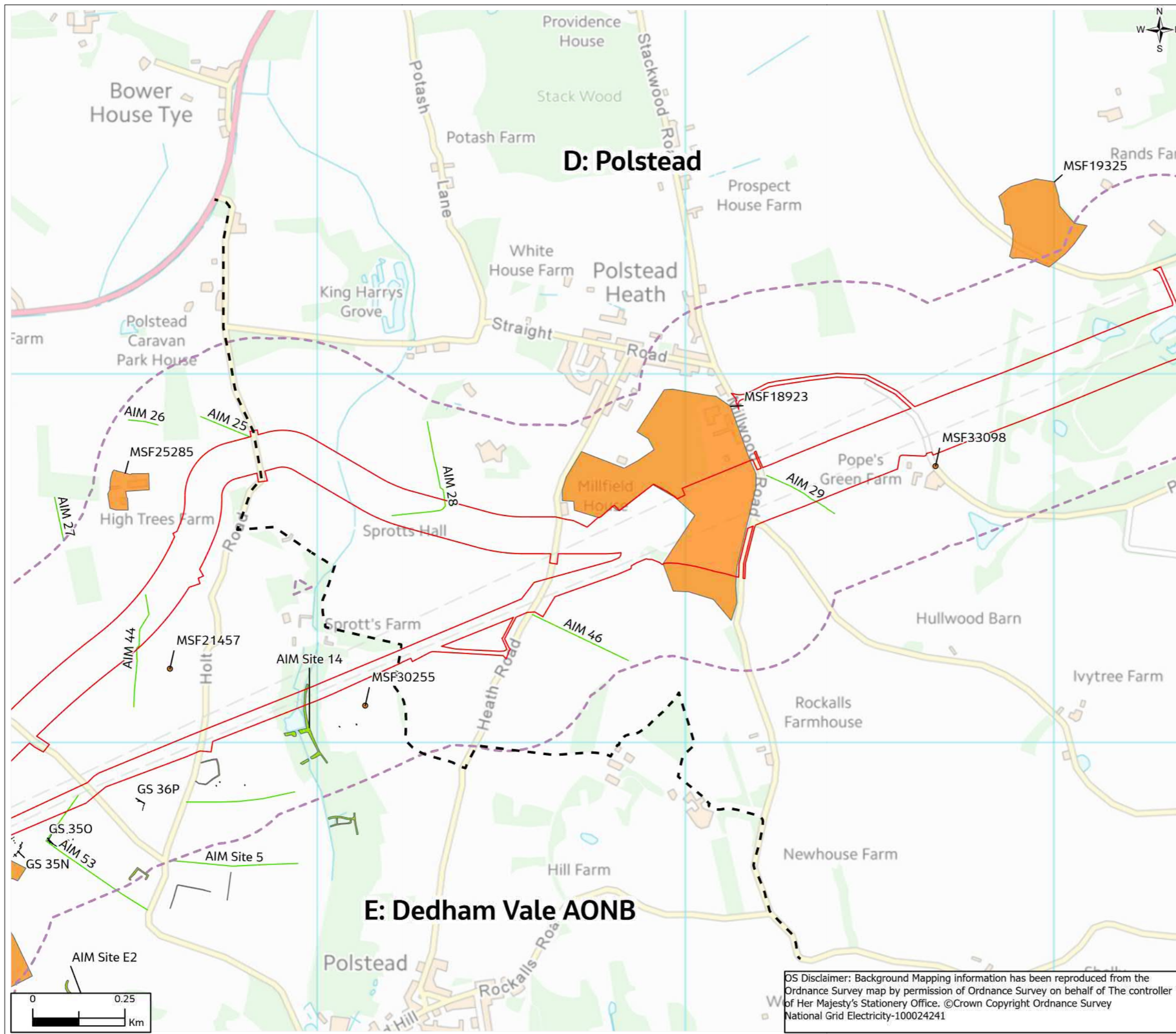
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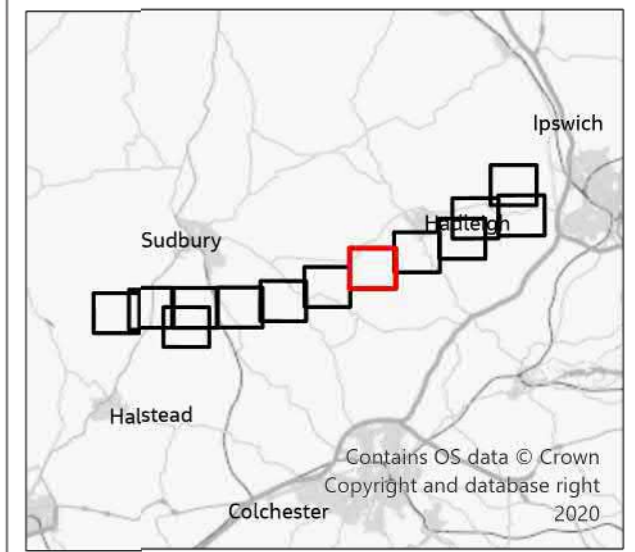
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - ⋯ Study Area (250m)
 - Non-Designated Heritage Asset
 - ⋯ Geophysical Survey (2013)
 - Non-Designated Heritage Asset
 - ⋯ Aerial Investigation and Mapping (AIM)
 - Non-designated heritage asset
 - Non-designated heritage asset
 - Non-designated heritage asset
- Essex Council Historic Environment Record**
- Suffolk Council Historic Environment Record**



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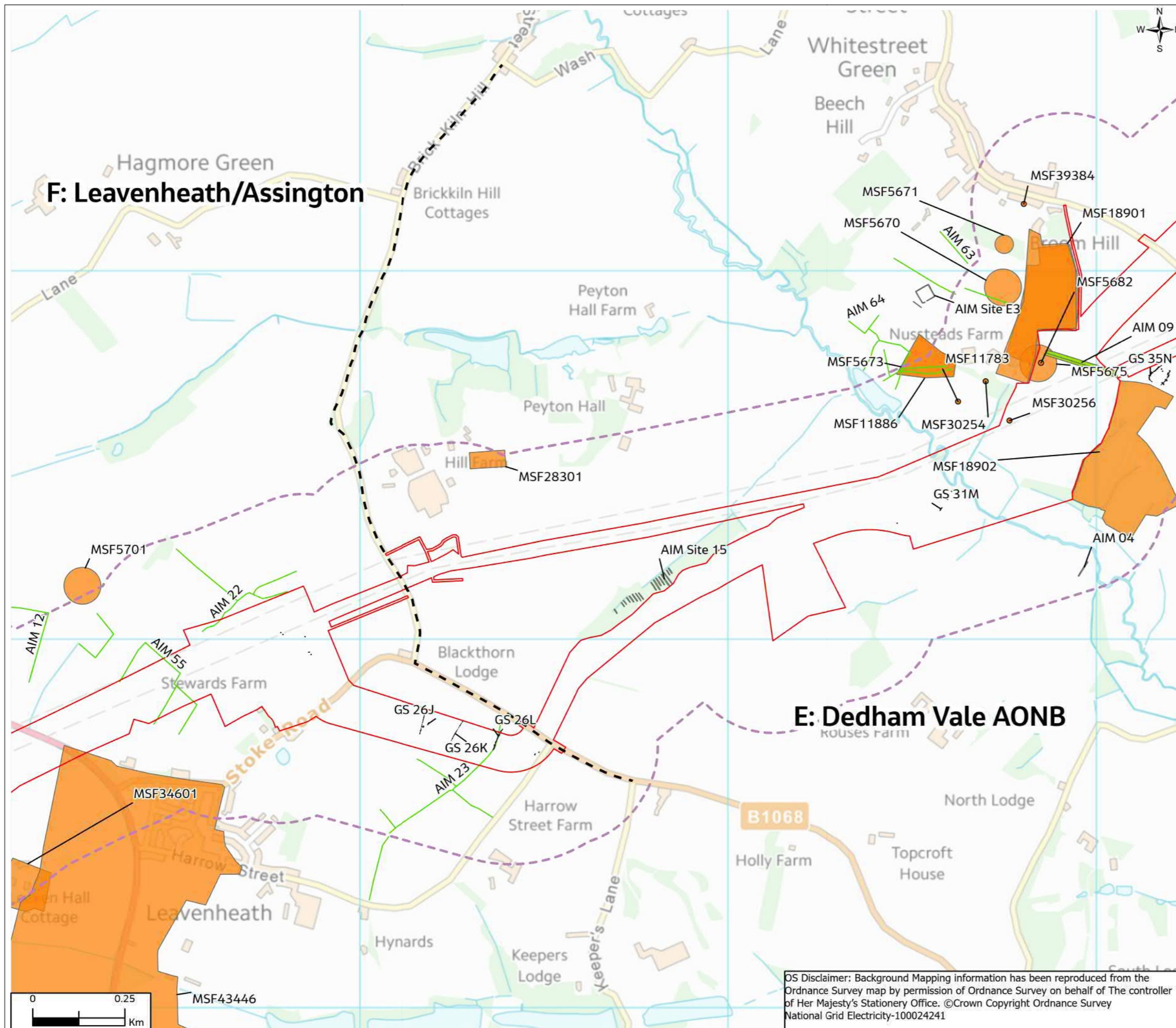
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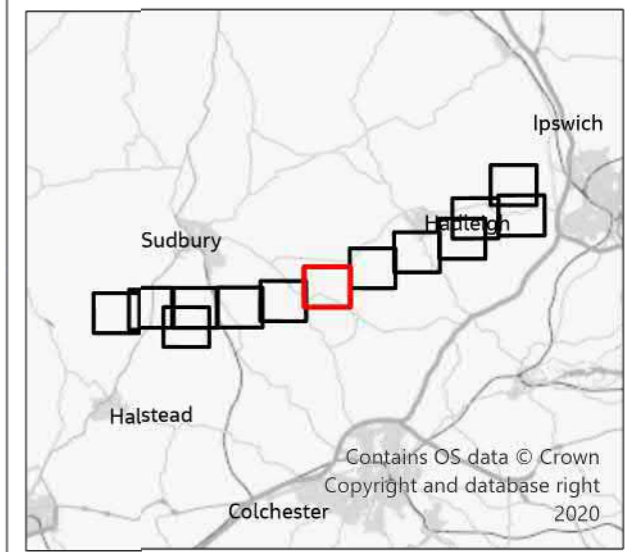
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Non-designated heritage asset
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
 - Non-designated heritage asset
- Essex Council Historic Environment Record**
- Suffolk Council Historic Environment Record**
- Geophysical Survey (2013)**
- Aerial Investigation and Mapping (AIM)**



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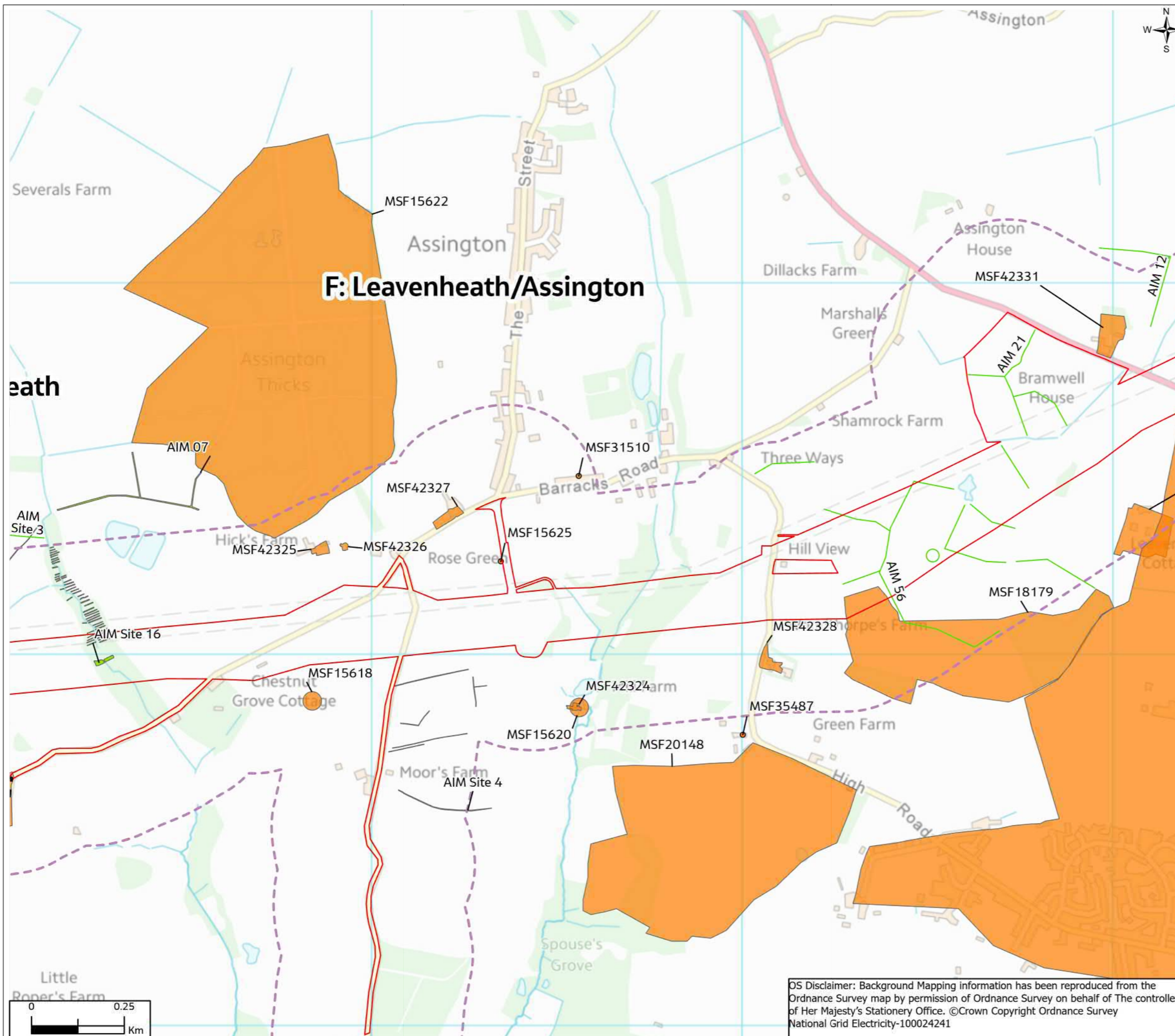
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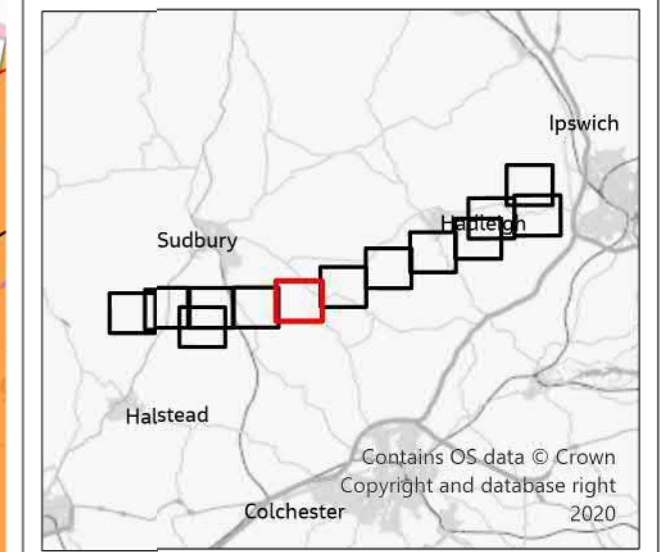
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Geophysical Survey (2013)
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
 - Aerial Investigation and Mapping (AIM)
 - Non-designated heritage asset
 - Essex Council Historic Environment Record
 - Suffolk Council Historic Environment Record
 - Non-designated heritage asset
 - Non-designated heritage asset



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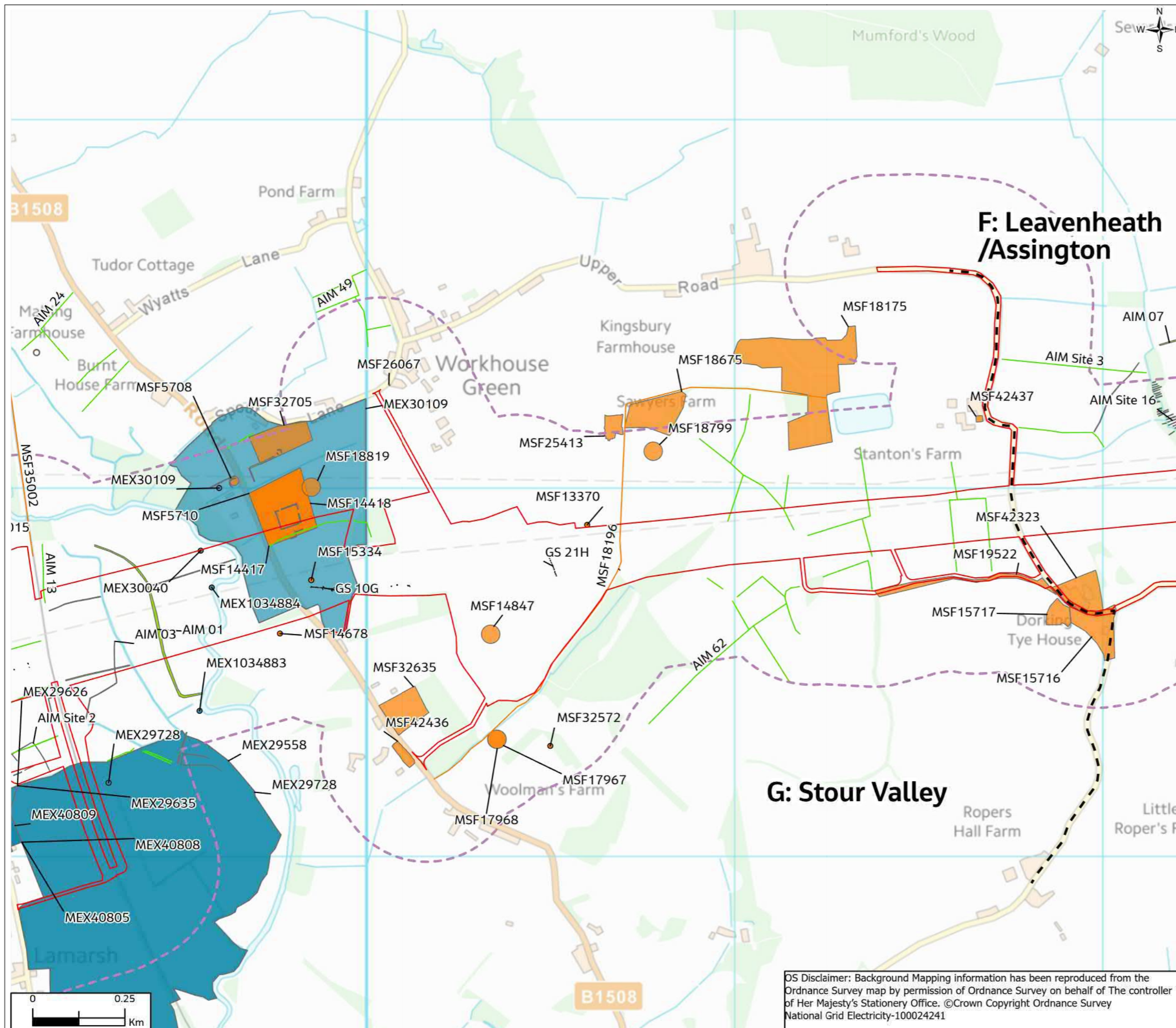
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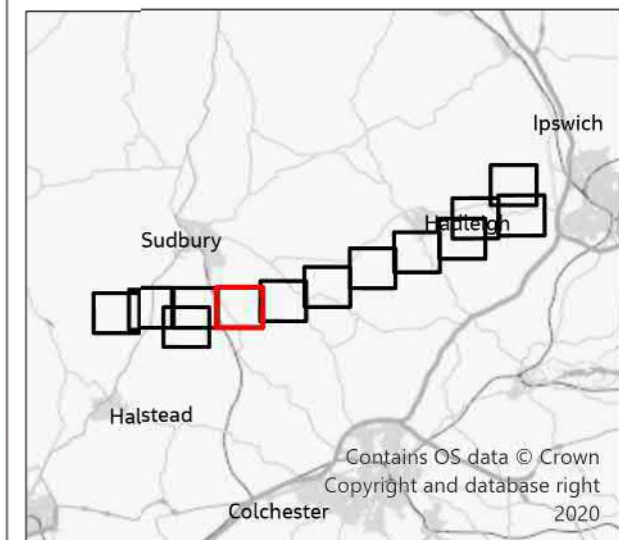
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Geophysical Survey (2013)
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
 - Aerial Investigation and Mapping (AIM)
 - Non-designated heritage asset
 - Non-designated heritage asset
 - Essex Council Historic Environment Record
 - Suffolk Council Historic Environment Record



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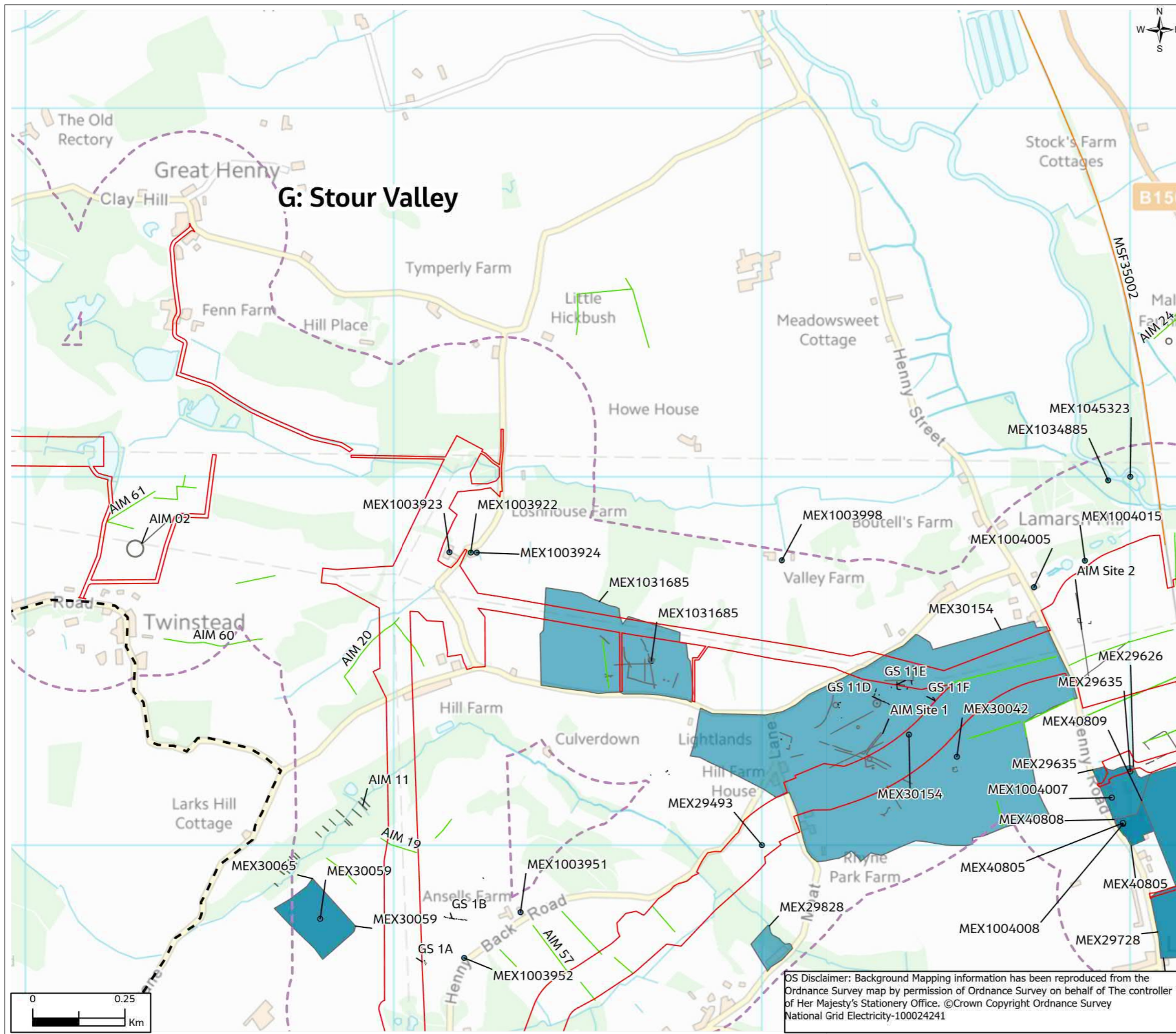
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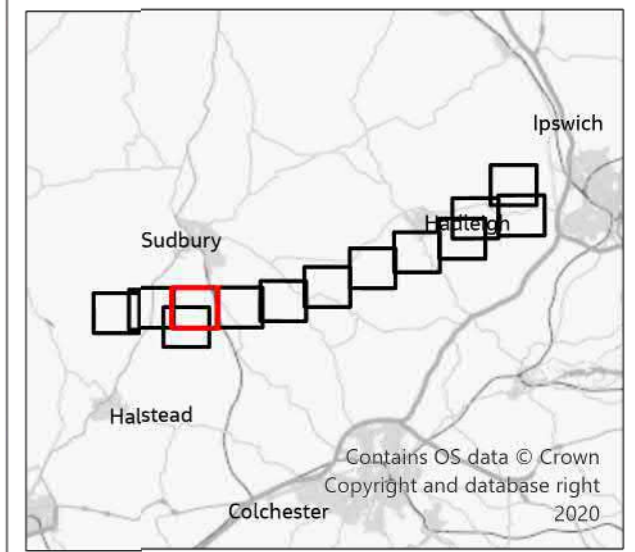
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Non-designated heritage asset
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
 - Non-designated heritage asset
- Essex Council Historic Environment Record**
- Suffolk Council Historic Environment Record**
- Geophysical Survey (2013)**
- Aerial Investigation and Mapping (AIM)**



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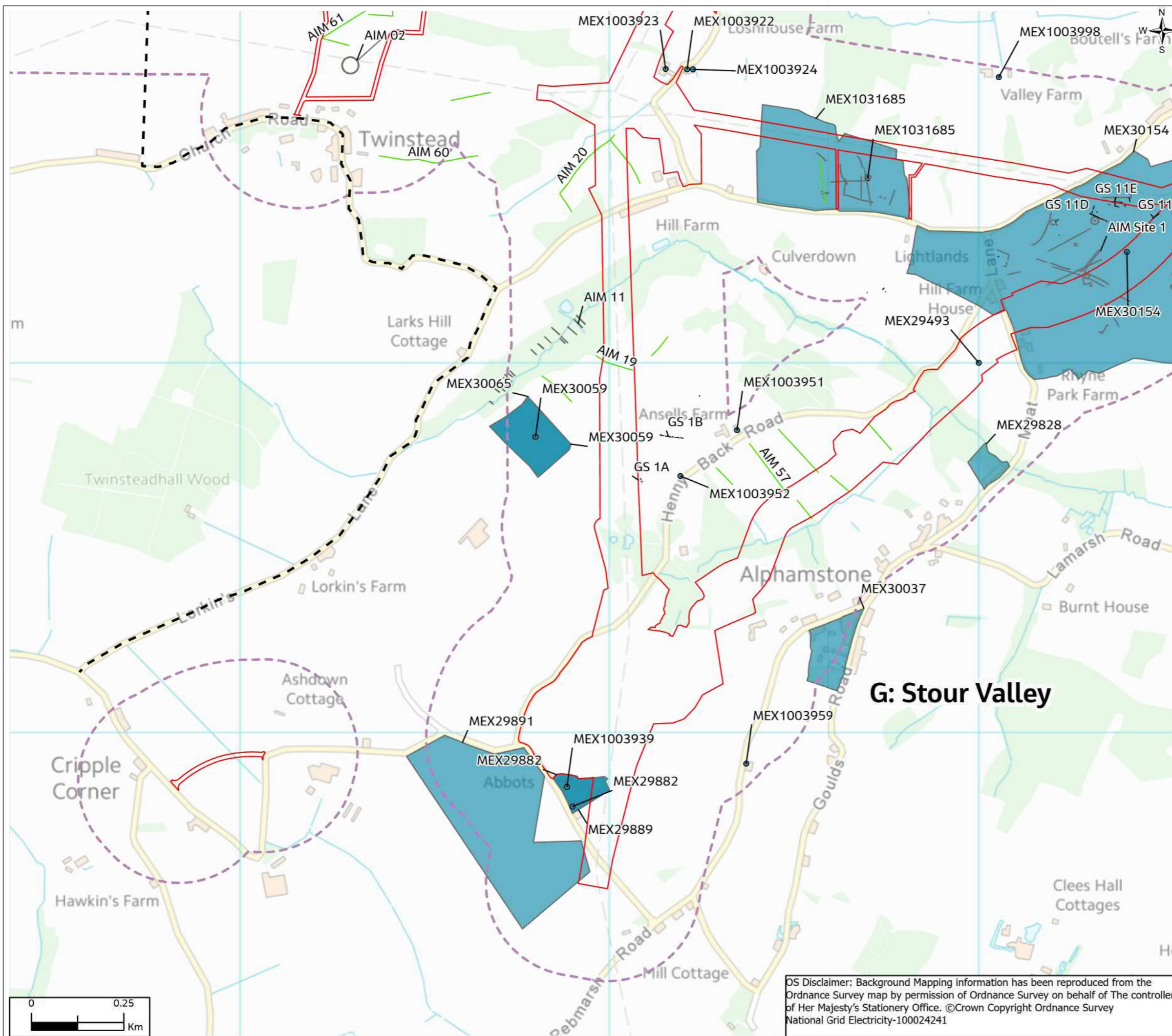
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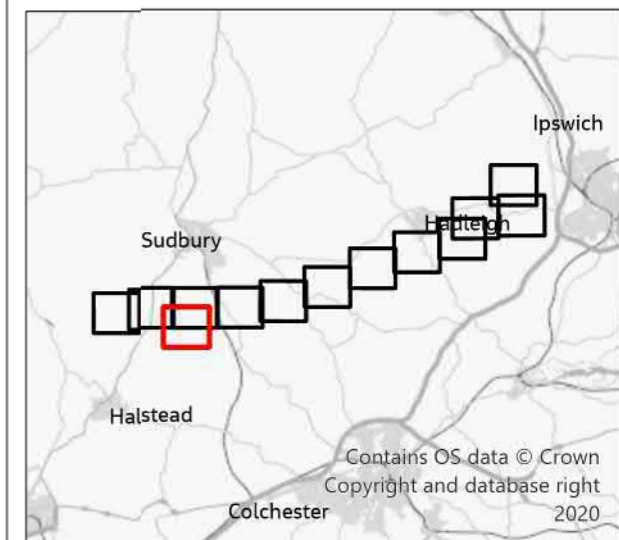
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FIGURE 8.2



- Legend**
- - - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Non-designated heritage asset (Essex Council Historic Environment Record)
 - Non-designated heritage asset (Suffolk Council Historic Environment Record)
 - Non-designated heritage asset
 - Non-designated heritage asset
- Geophysical Survey (2013)**
- Non-Designated Heritage Asset
- Aerial Investigation and Mapping (AIM)**
- Non-designated heritage asset



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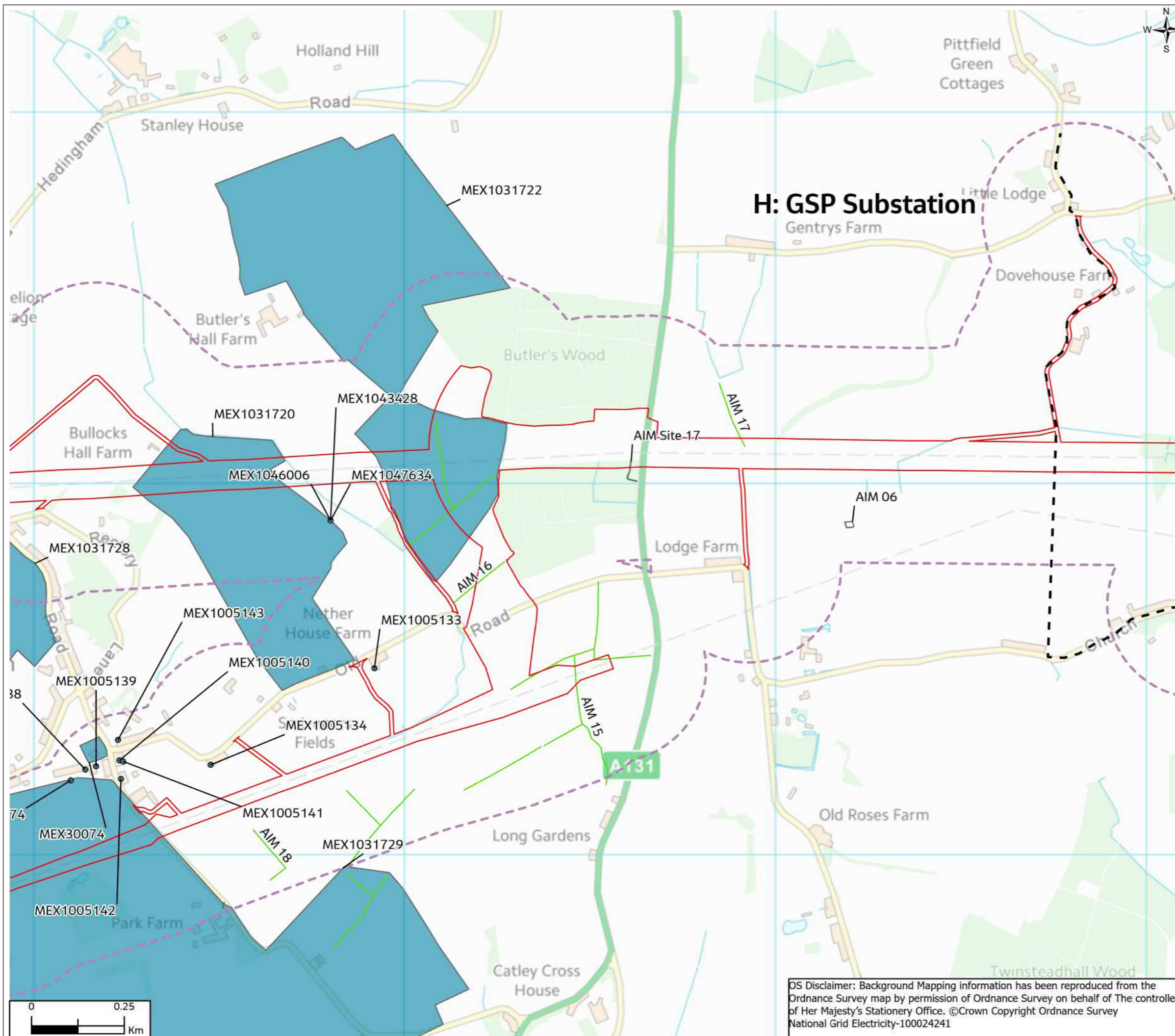
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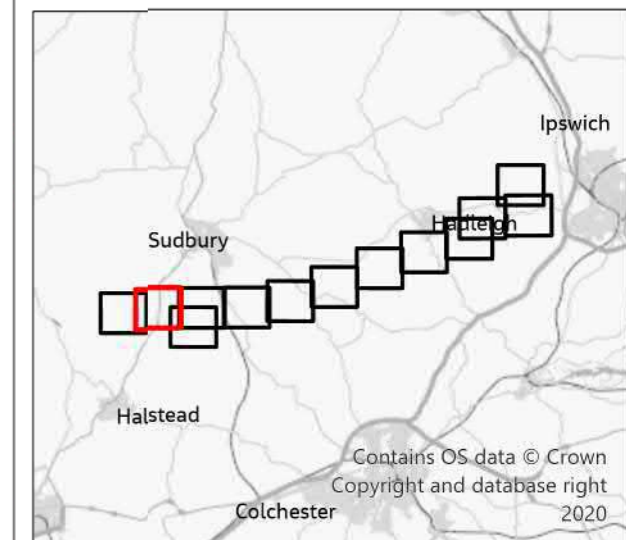
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FIGURE 8.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Non-designated heritage asset
 - Non-Designated Heritage Asset
 - Non-designated heritage asset
 - Non-designated heritage asset
- Essex Council Historic Environment Record**
- Suffolk Council Historic Environment Record**
- Geophysical Survey (2013)**
- Aerial Investigation and Mapping (AIM)**



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Page 12 of 13

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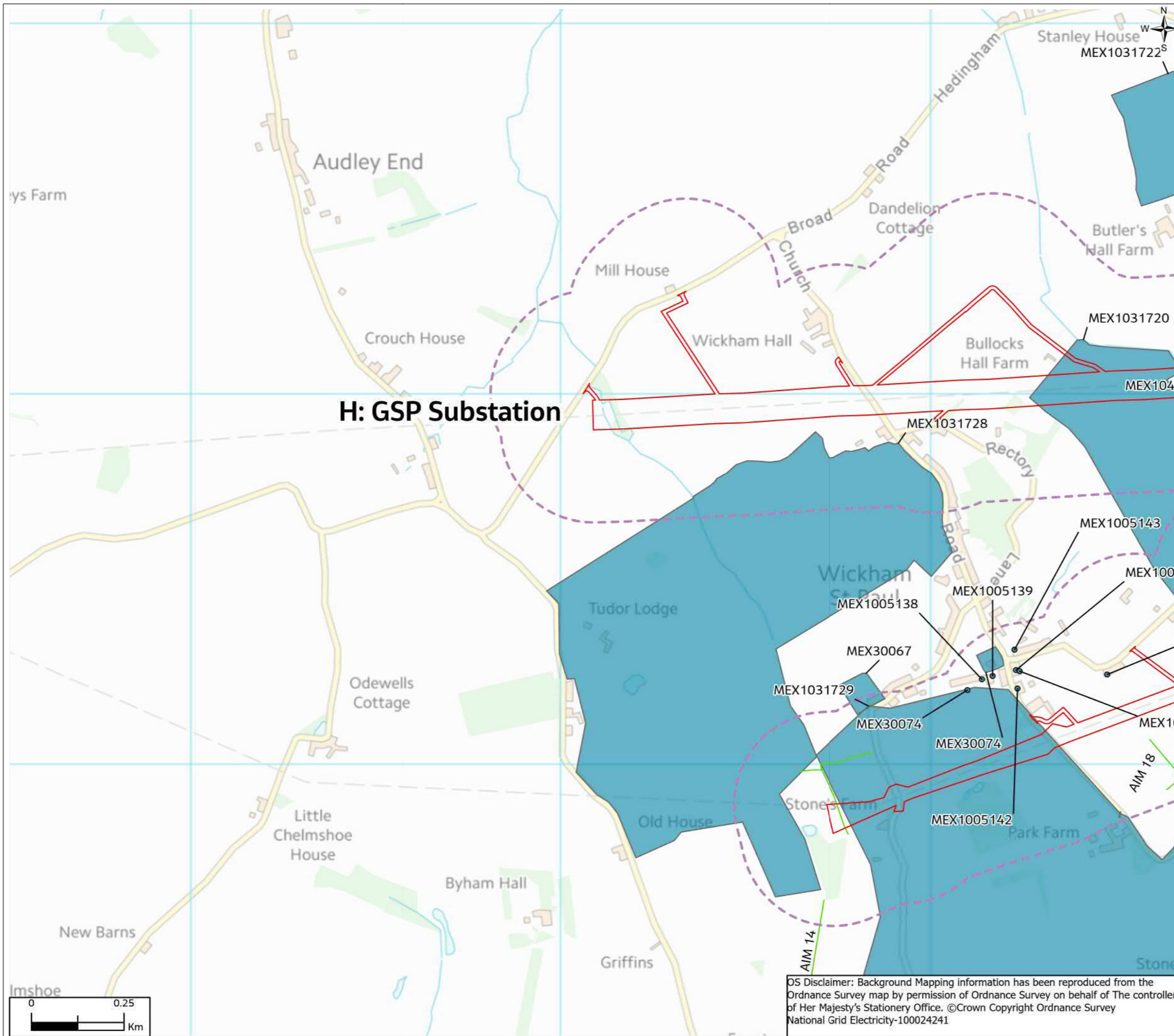
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FIGURE 8.2



- Legend**
- - - Section Boundaries
 - Draft Order Limits
 - - - Study Area (250m)
 - Non-Designated Heritage Asset
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- Essex Council Historic Environment Record**
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- Suffolk Council Historic Environment Record**
- Non-designated heritage asset
- Geophysical Survey (2013)**
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- Aerial Investigation and Mapping (AIM)**
- Non-designated heritage asset



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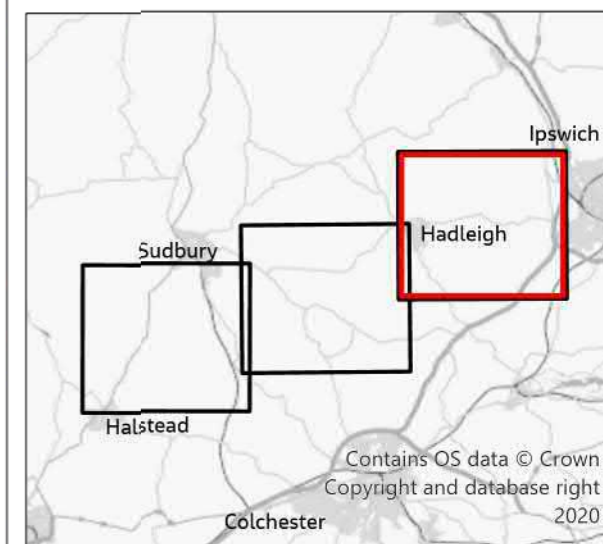
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FIGURE 9.1

- Legend**
- - Section Boundaries
 - Study area (500m)
 - Draft Order Limits
 - Main Rivers
 - Ordinary Watercourses
 - ▲ Active Discharges to Surface Watercourses
 - Surface Water Abstractions - Licensed
 - ▲ Environment Agency Water Quality Monitoring Sites
 - Environment Agency flood zone 2
 - Environment Agency flood zone 3



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Drawing Title **Water Environment Features**

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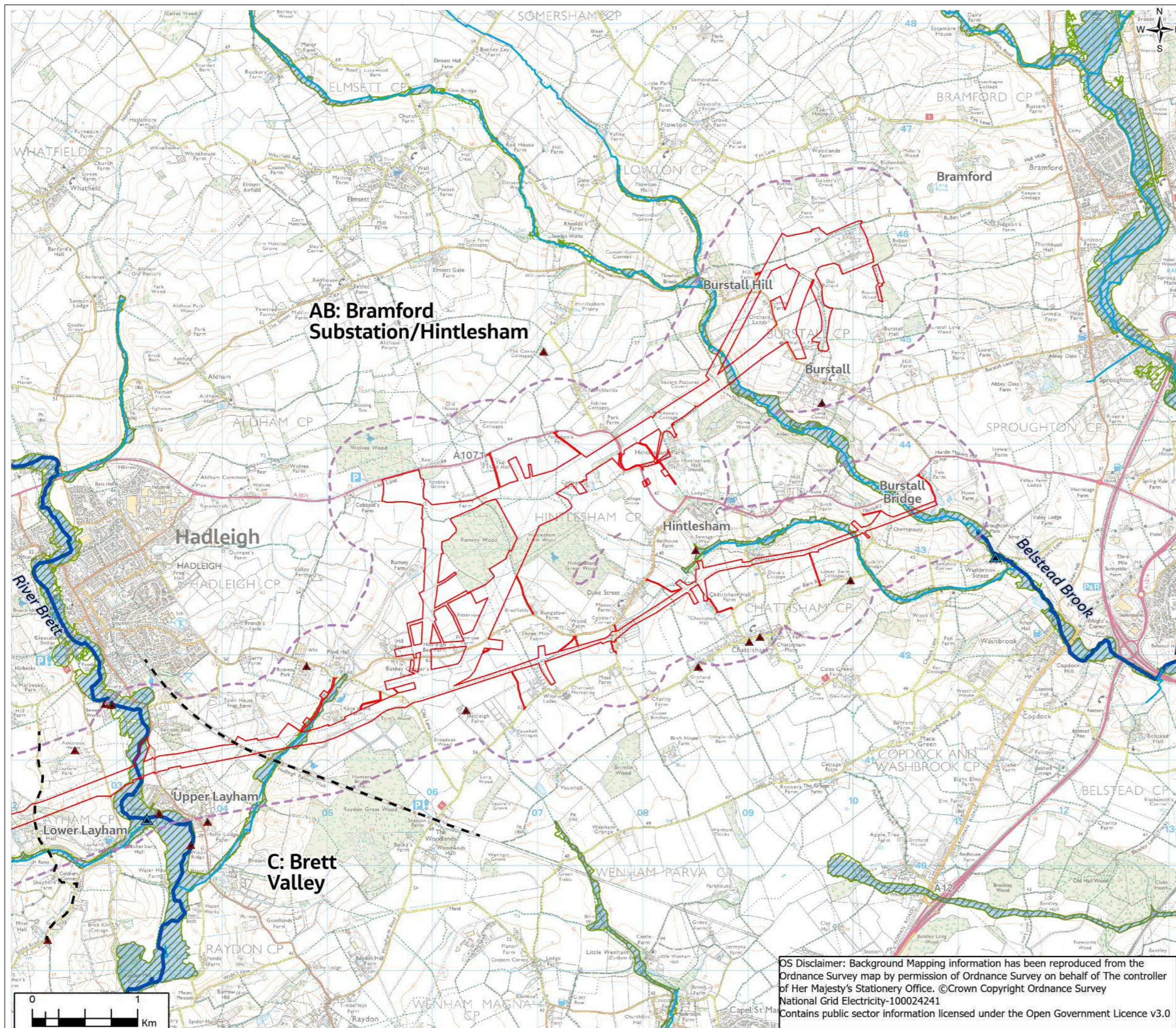
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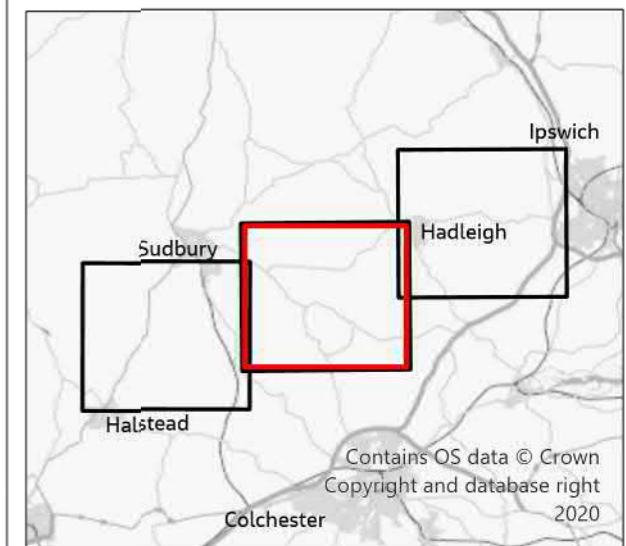
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FIGURE 9.1



- Legend**
- - Section Boundaries
 - - - Study area (500m)
 - ▭ Draft Order Limits
 - ▬ Main Rivers
 - ▬ Ordinary Watercourses
 - ▲ Active Discharges to Surface Watercourses
 - Surface Water Abstractions - Licensed
 - ▲ Environment Agency Water Quality Monitoring Sites
 - ▨ Environment Agency flood zone 2
 - ▩ Environment Agency flood zone 3



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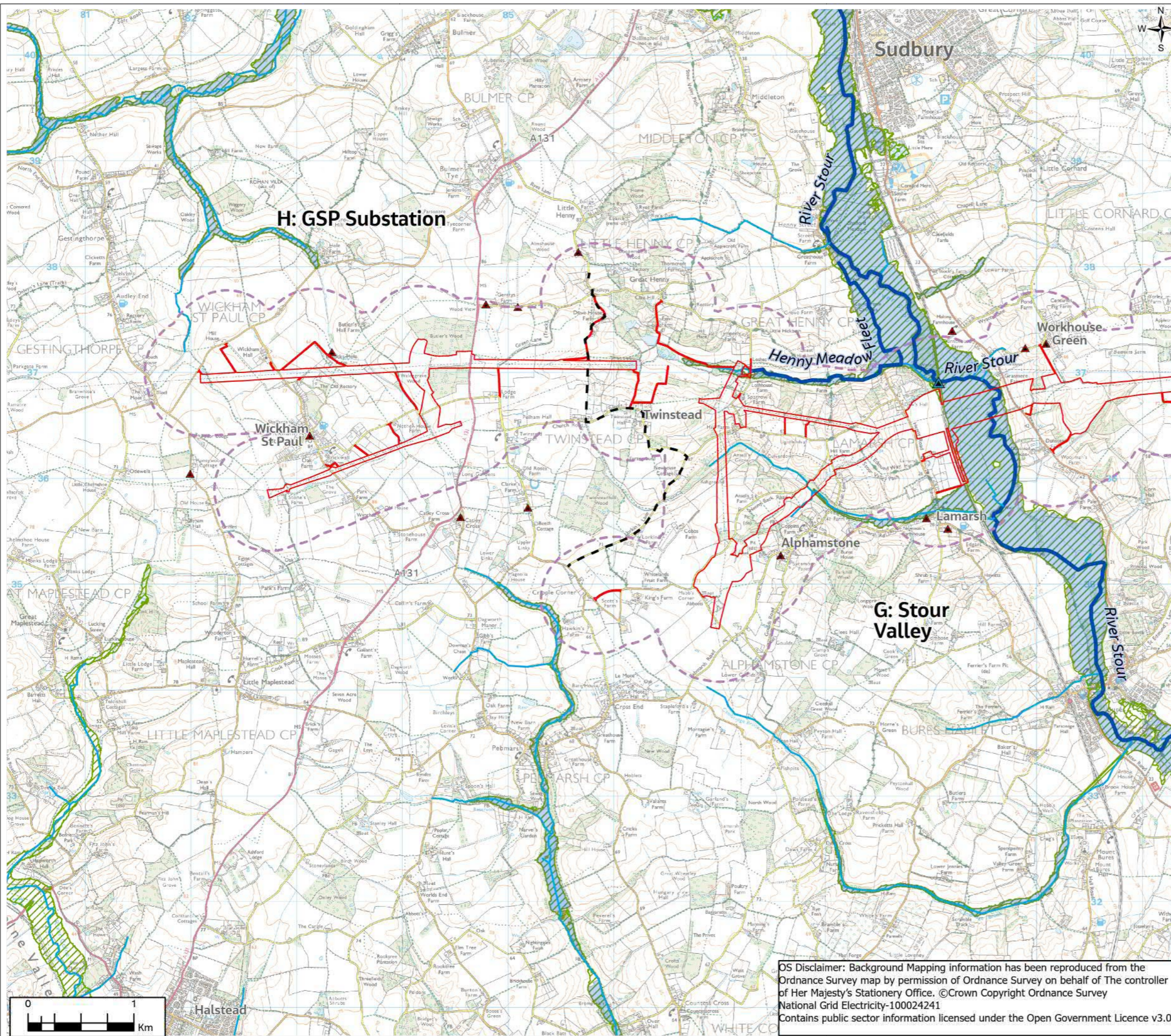
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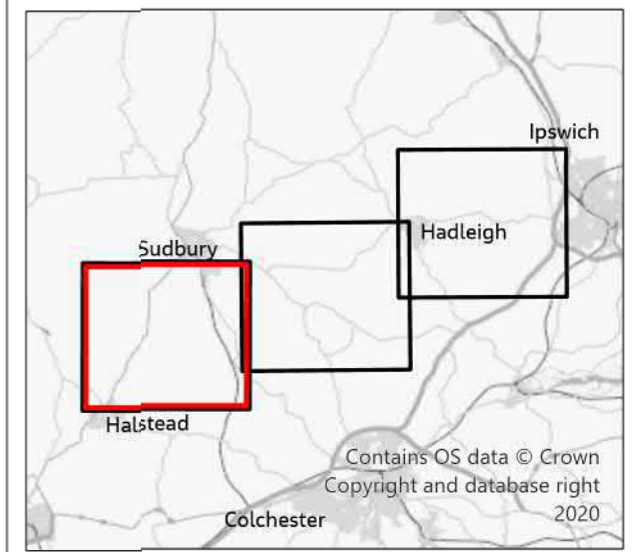
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Project	BRAMFORD TO TWINSTEAD					
Drawing Title	Water Environment Features					
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Drawing Status	Final					
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FIGURE 9.1



- Legend**
- - Section Boundaries
 - - - Study area (500m)
 - ▭ Draft Order Limits
 - ▬ Main Rivers
 - ▬ Ordinary Watercourses
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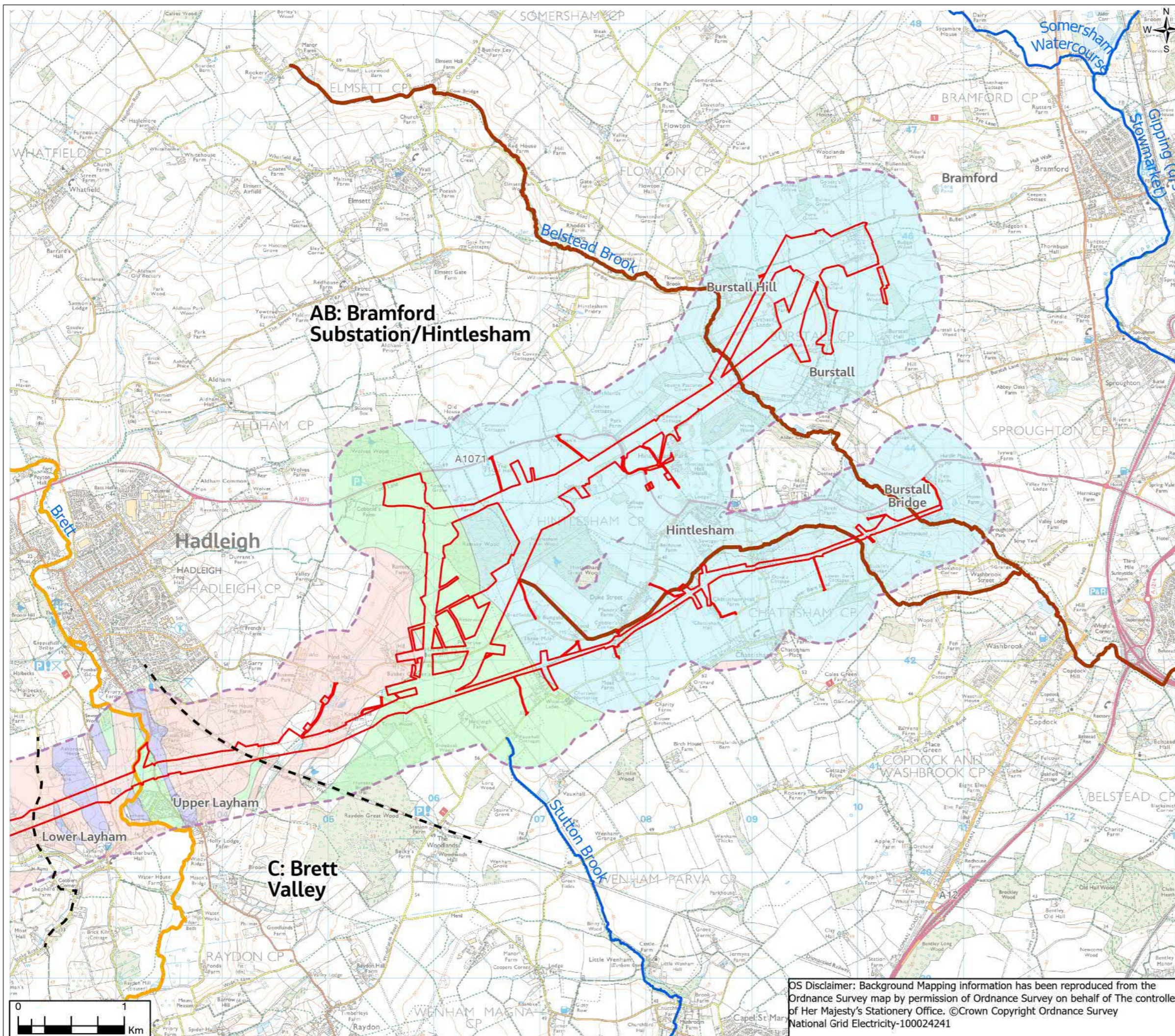
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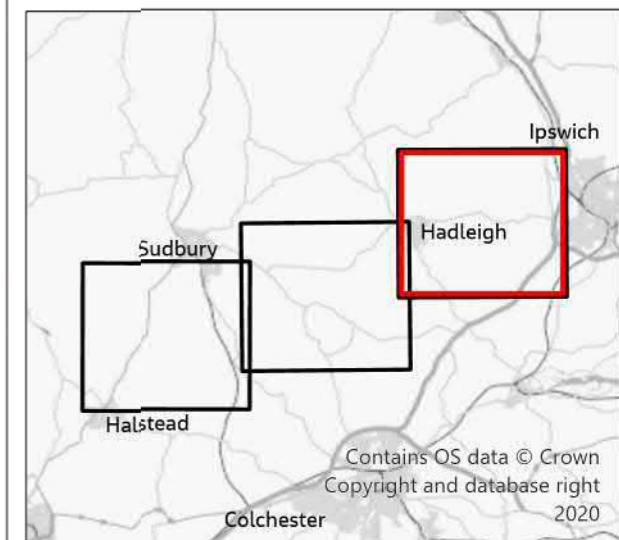
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FIGURE 9.2



Legend

- - Section Boundaries
 - - - Study area (500m)
 - ▭ Draft Order Limits
- Surface Waterbody Status**
- ▭ Moderate
 - ▭ Poor
 - ▭ Outside Assessment Area
- WFD Groundwater Bodies (All Poor Status)**
- ▭ Essex Gravels
 - ▭ North Essex Chalk
 - ▭ North Essex Lower London Tertiaries
 - ▭ Waveney and East Suffolk Chalk & Crag



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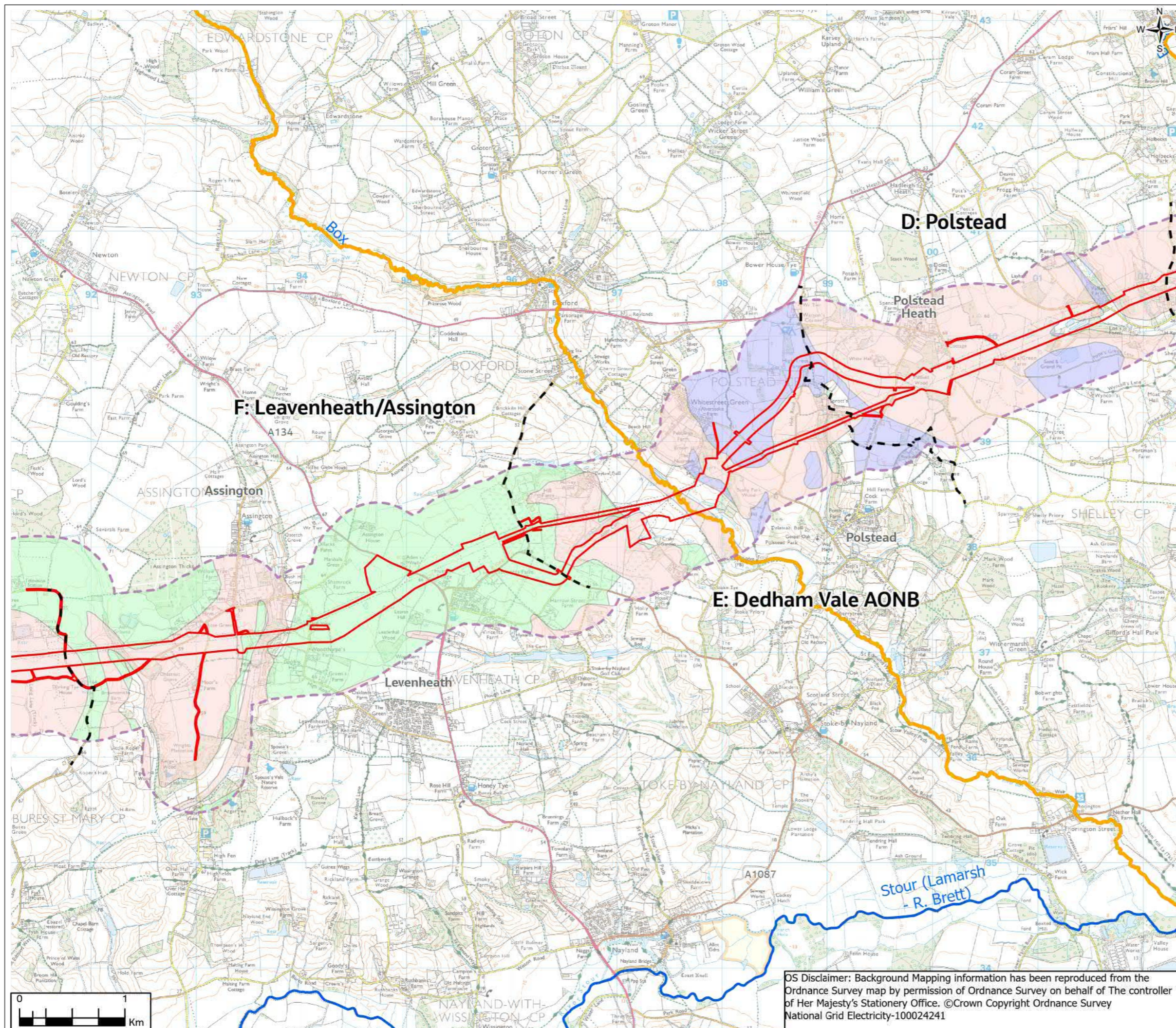
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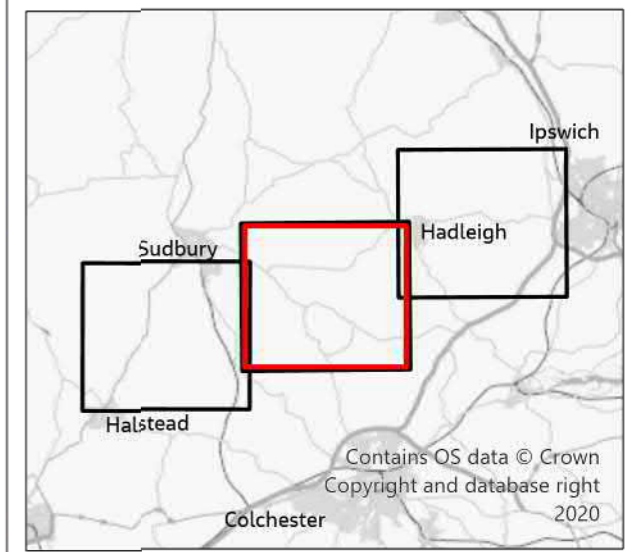
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FIGURE 9.2



- Legend**
- - Section Boundaries
 - - - Study area (500m)
 - ▭ Draft Order Limits
- Surface Waterbody Status**
- ▬ Moderate
 - ▬ Poor
 - ▬ Outside Assessment Area
- WFD Groundwater Bodies (All Poor Status)**
- ▭ Essex Gravels
 - ▭ North Essex Chalk
 - ▭ North Essex Lower London Tertiaries
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 Waterbody Status
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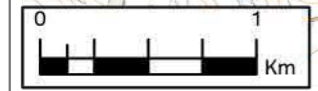
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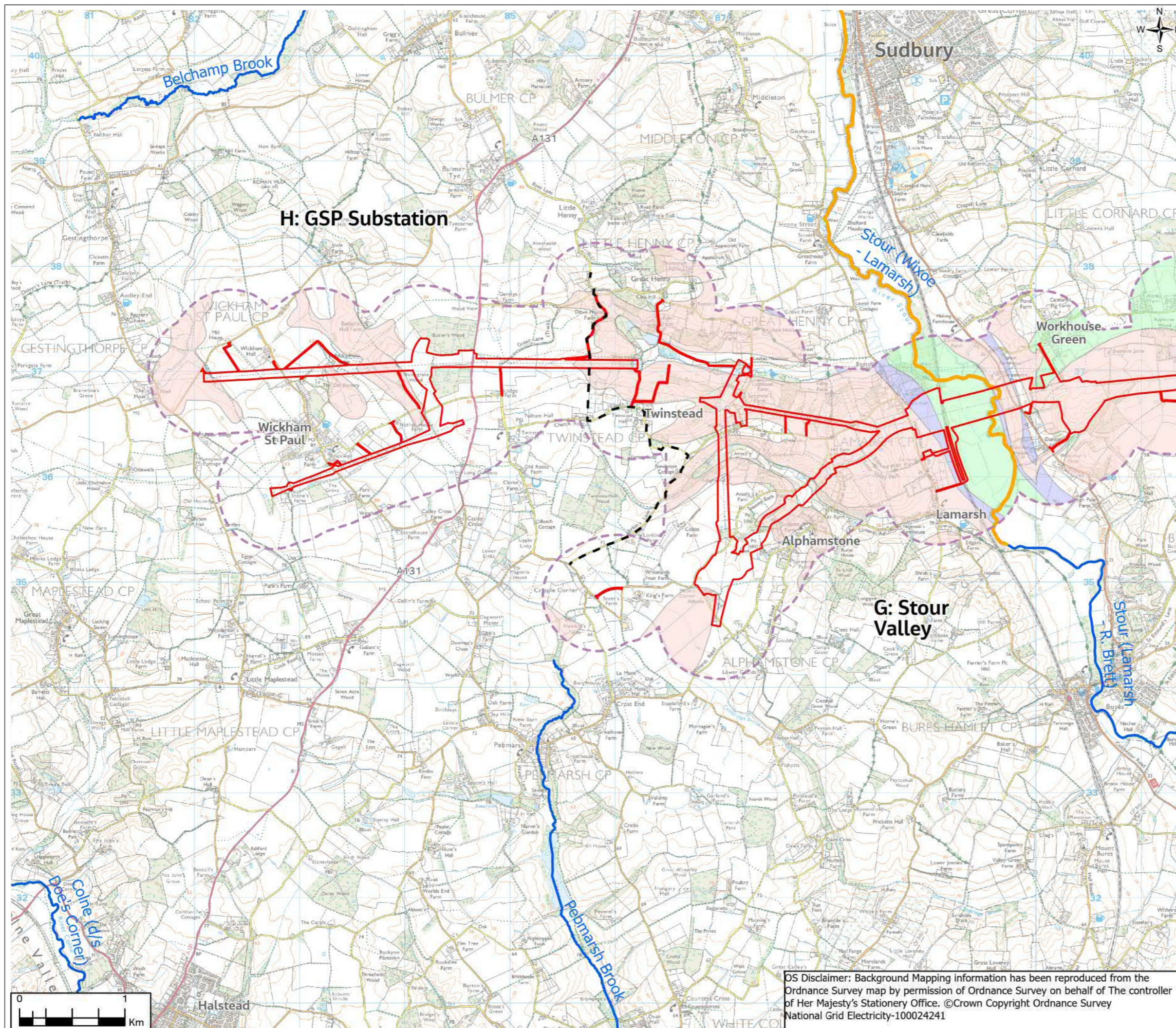
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FIGURE 9.2



Legend

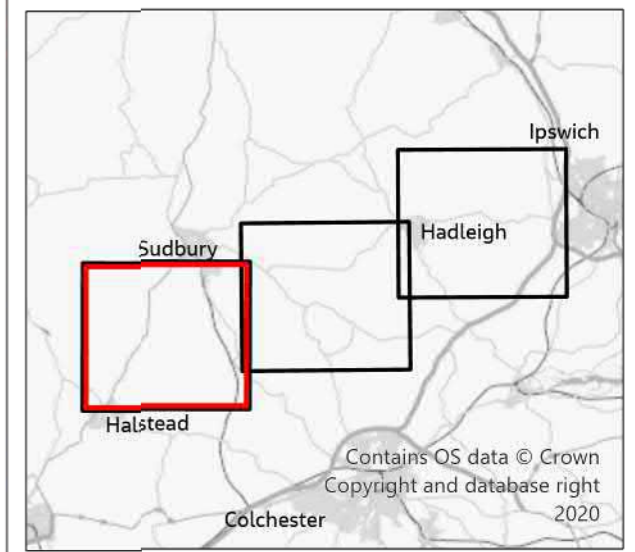
- Section Boundaries
- Study area (500m)
- Draft Order Limits

Surface Waterbody Status

- Moderate
- Poor
- Outside Assessment Area

WFD Groundwater Bodies (All Poor Status)

- Essex Gravels
- North Essex Chalk
- North Essex Lower London Tertiaries
- Waveney and East Suffolk Chalk & Crag



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 Waterbody Status
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Drawing Status
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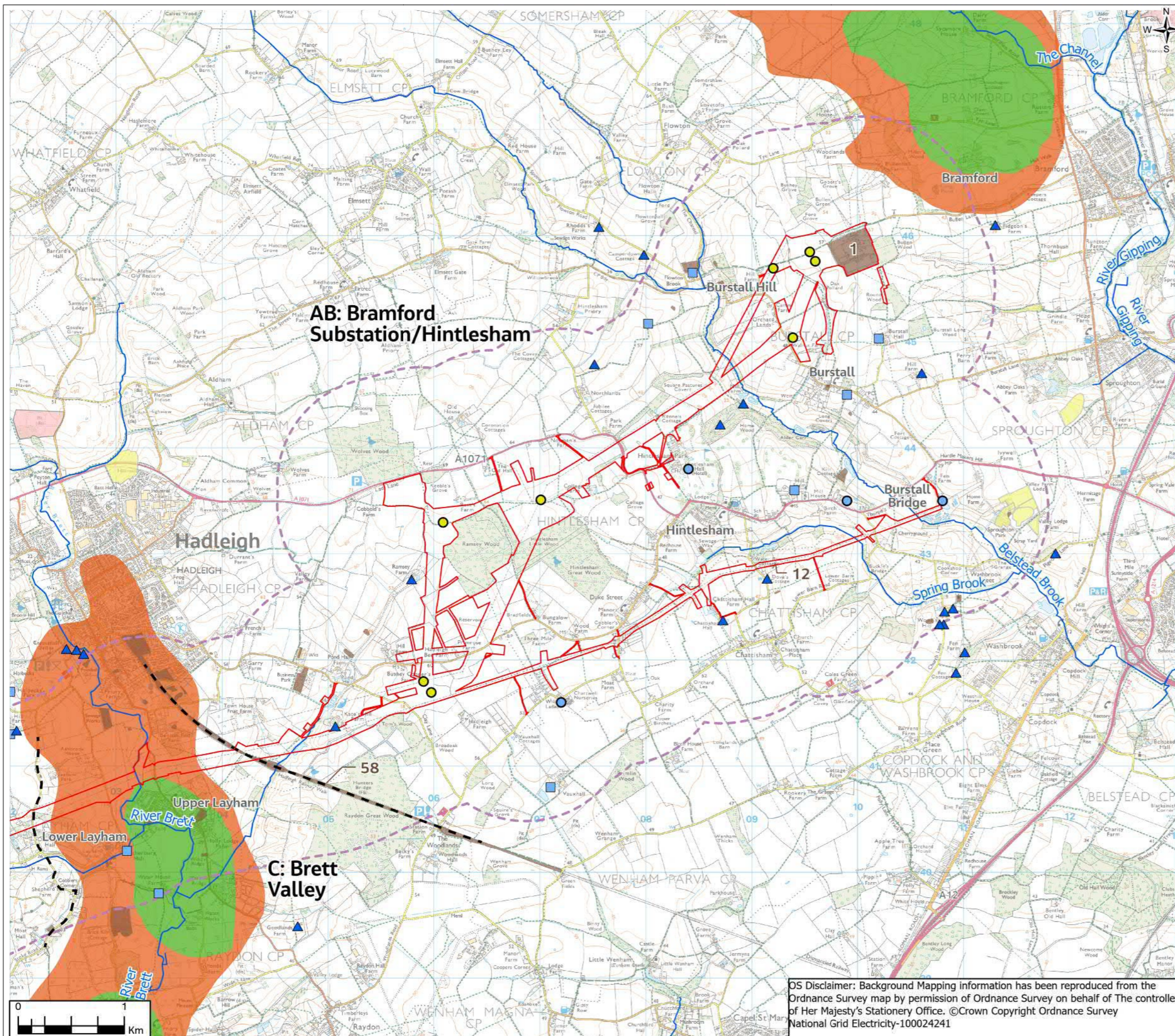
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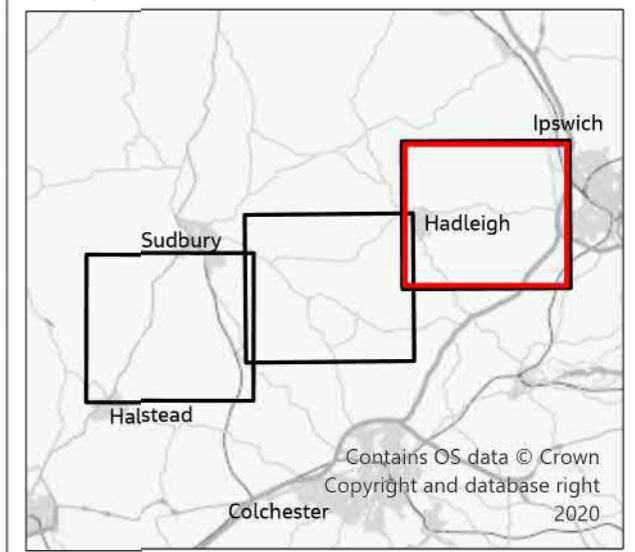
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FIGURE 10.1



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Wider Study Area (1km)
 - Proposed Borehole Locations
 - Historic GI Locations
 - ⊙ Licensed
 - ⊙ Deregulated
 - ▲ Private Water Supply
 - Main Rivers
 - Registered Contaminated Land
 - 58 Contaminated Land Site ID
 - Authorised Landfill Site
 - Historic Landfill Site
 - Local Geological Sites
 - Source Protection Zone (SPZ)
 - Zone I - Inner Protection Zone
 - Zone II - Outer Protection

Note: Only Contaminated Land within the Order Limits has been labelled



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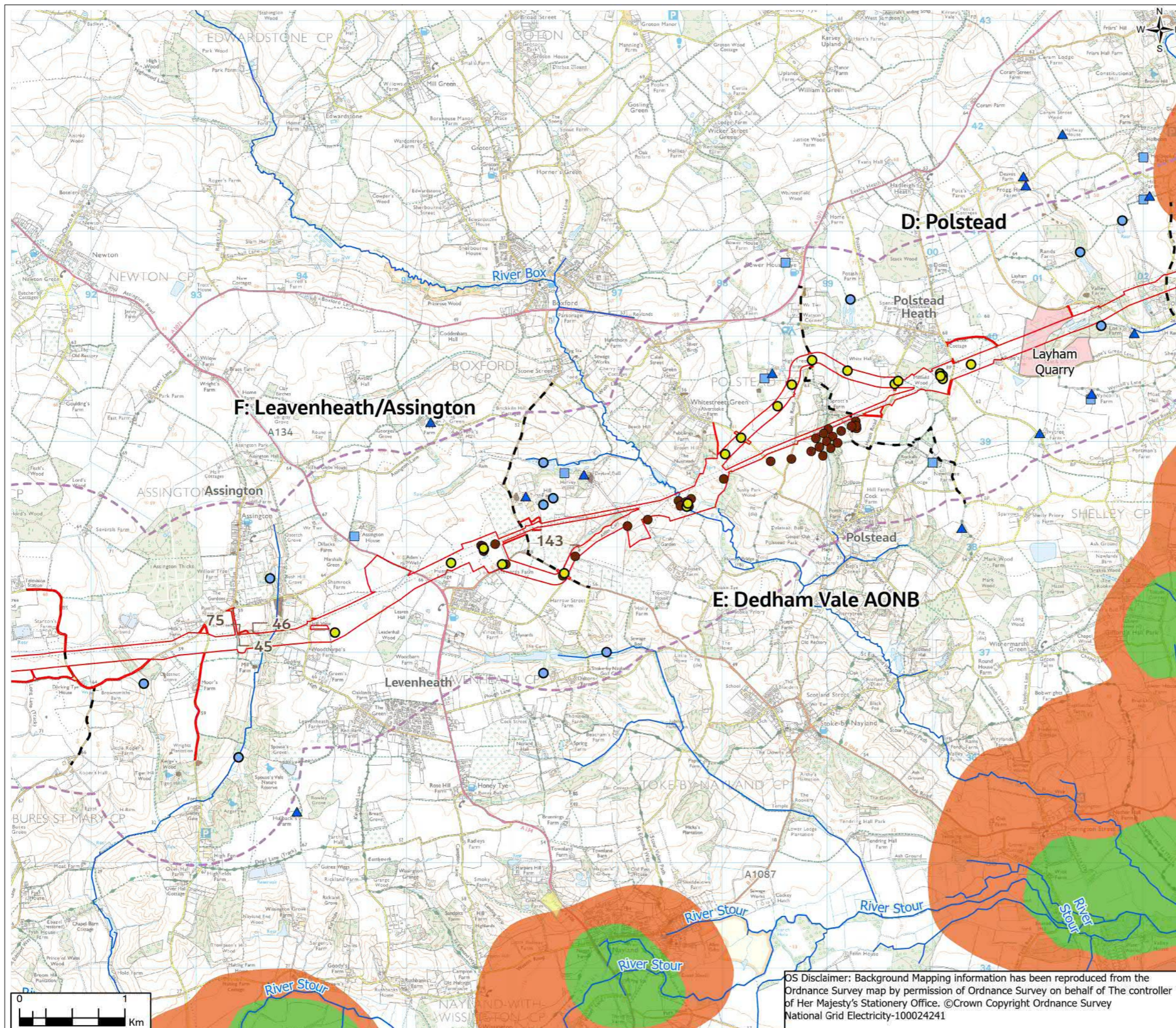
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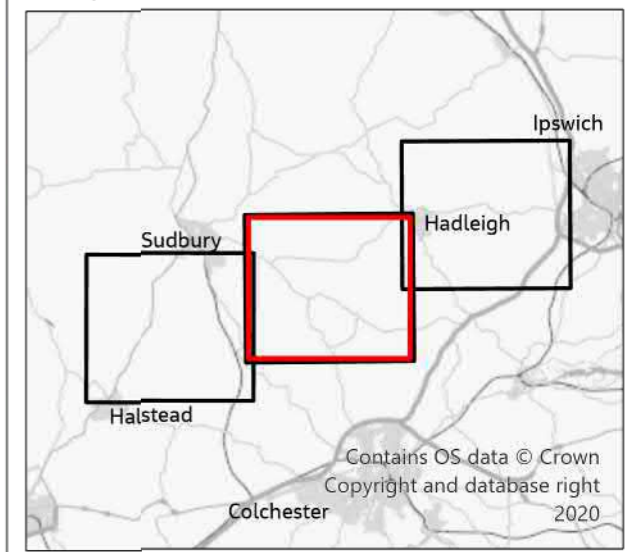
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FIGURE 10.1



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Wider Study Area (1km)
 - Proposed Borehole Locations
 - Historic GI Locations
 - Licensed
 - Deregulated
 - ▲ Private Water Supply
 - Main Rivers
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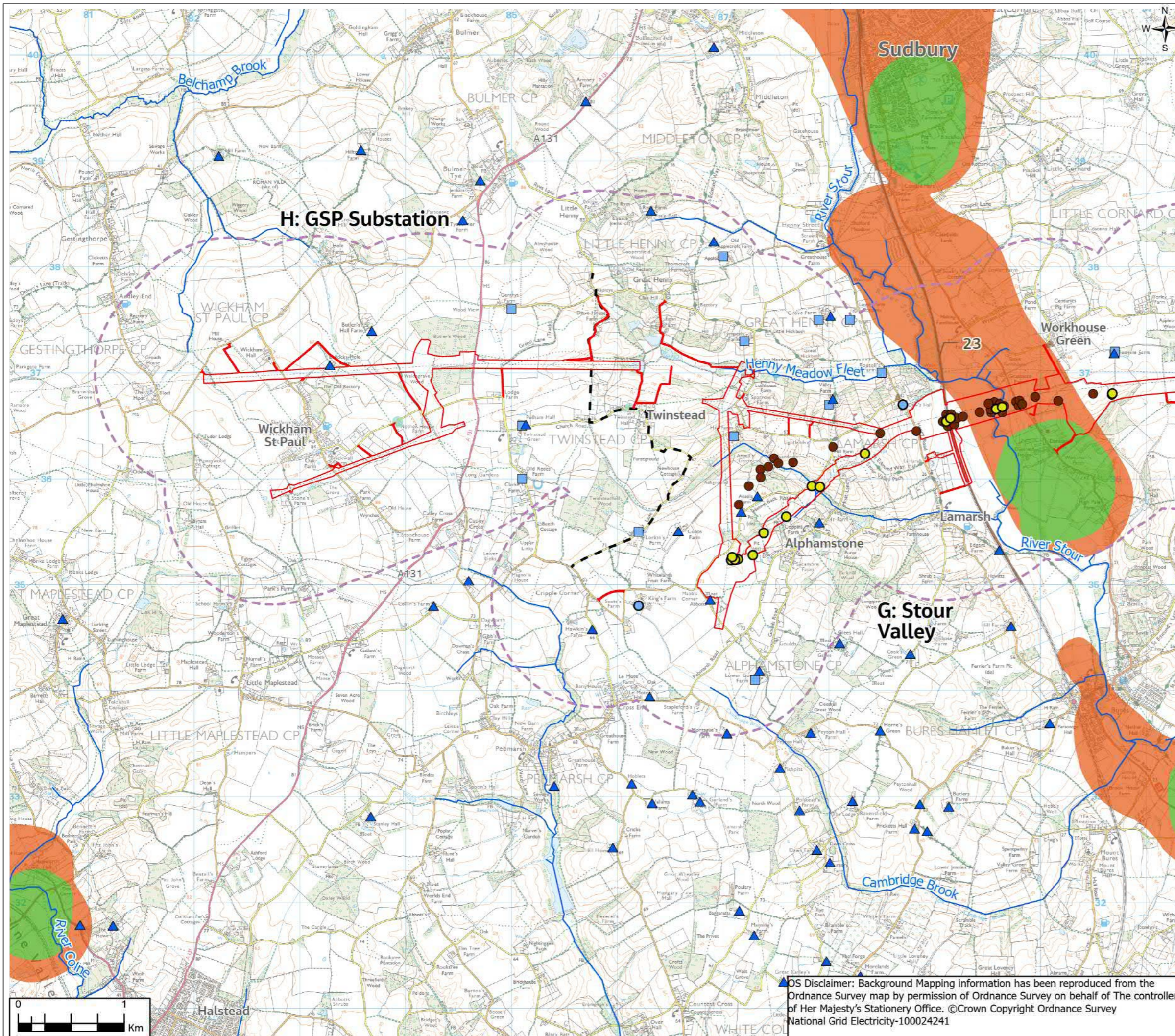
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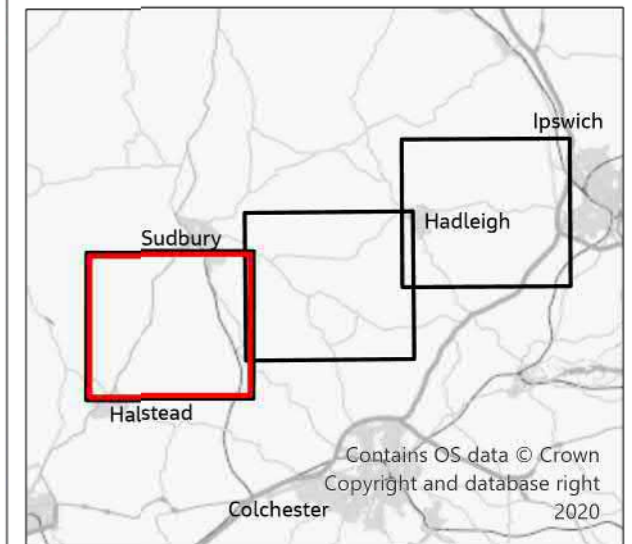
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FIGURE 10.1



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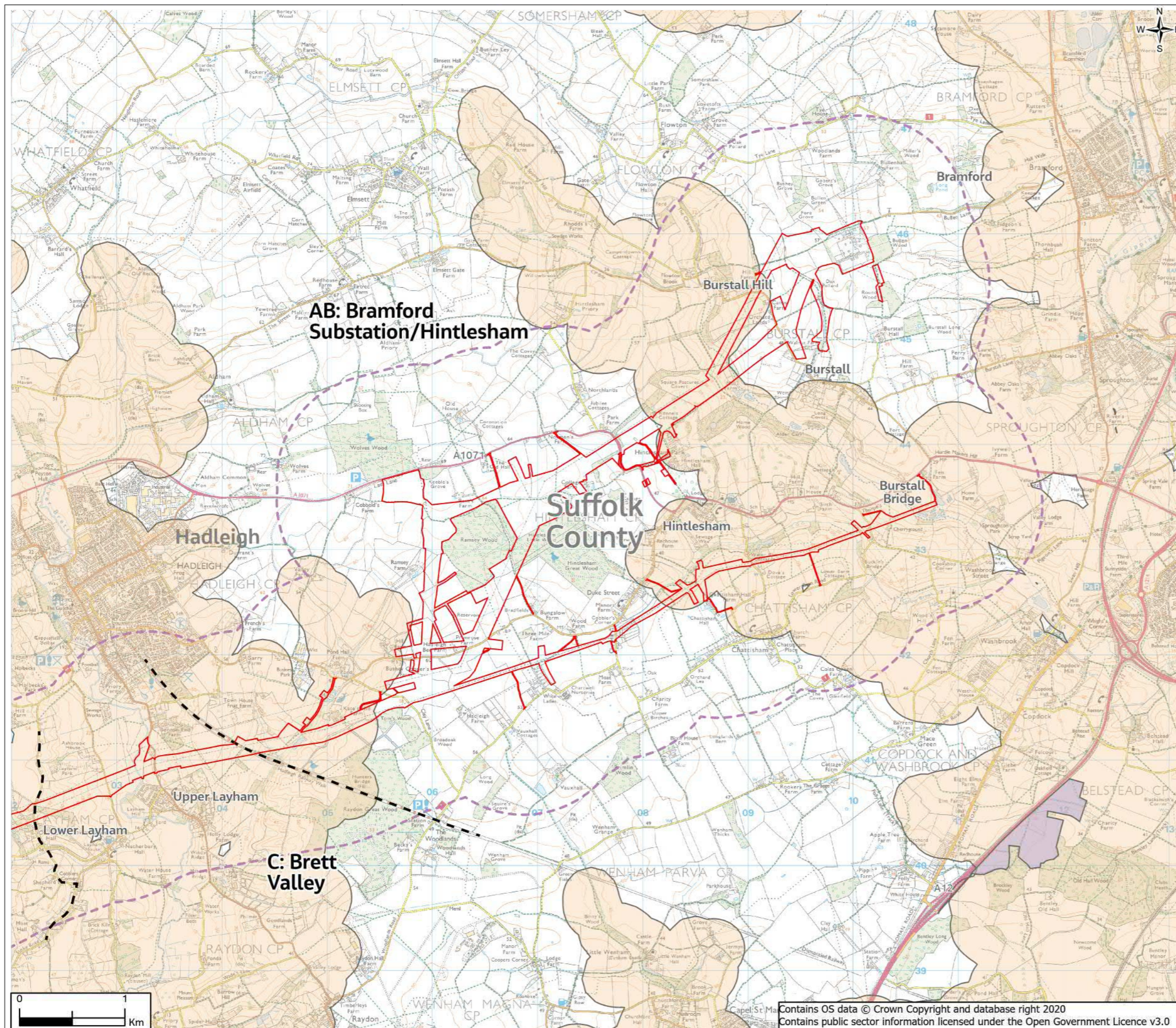
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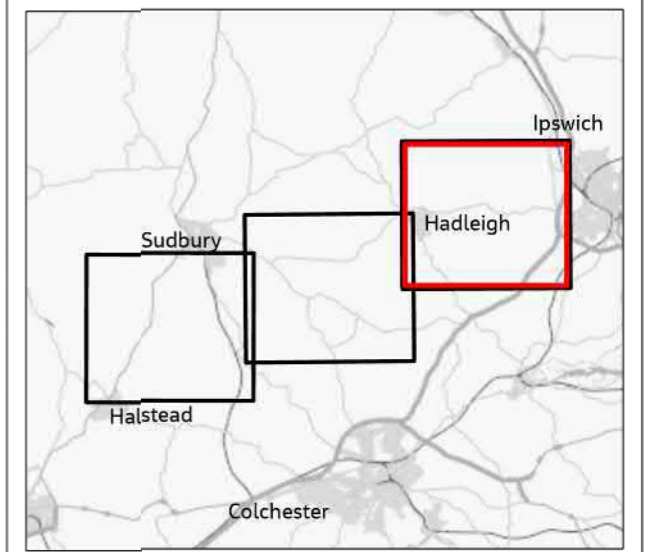
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FIGURE 10.2



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - - - Wider Study Area (1km)
 - ▭ County Council Area
 - ▭ Mineral Extraction Sites
 - ▭ Proposed Mineral Extraction Sites
 - ▭ Mineral Consultation Areas
 - ▭ Minerals and Waste Sites
 - ▭ Minerals and Waste Sites Safeguarding
 - ▭ Mineral Safeguarding Area Chalk 2019
 - ▭ Mineral Safeguarding Area Sand and Gravel 2019



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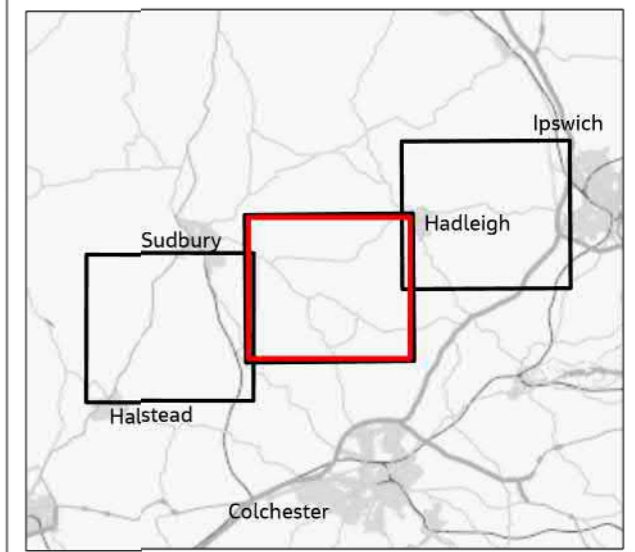
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FIGURE 10.2



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - - - Wider Study Area (1km)
 - ▭ County Council Area
 - ▭ Mineral Extraction Sites
 - ▭ Proposed Mineral Extraction Sites
 - ▭ Mineral Consultation Areas
 - ▭ Minerals and Waste Sites
 - ▭ Minerals and Waste Sites Safeguarding
 - ▭ Mineral Safeguarding Area Chalk 2019
 - ▭ Mineral Safeguarding Area Sand and Gravel 2019



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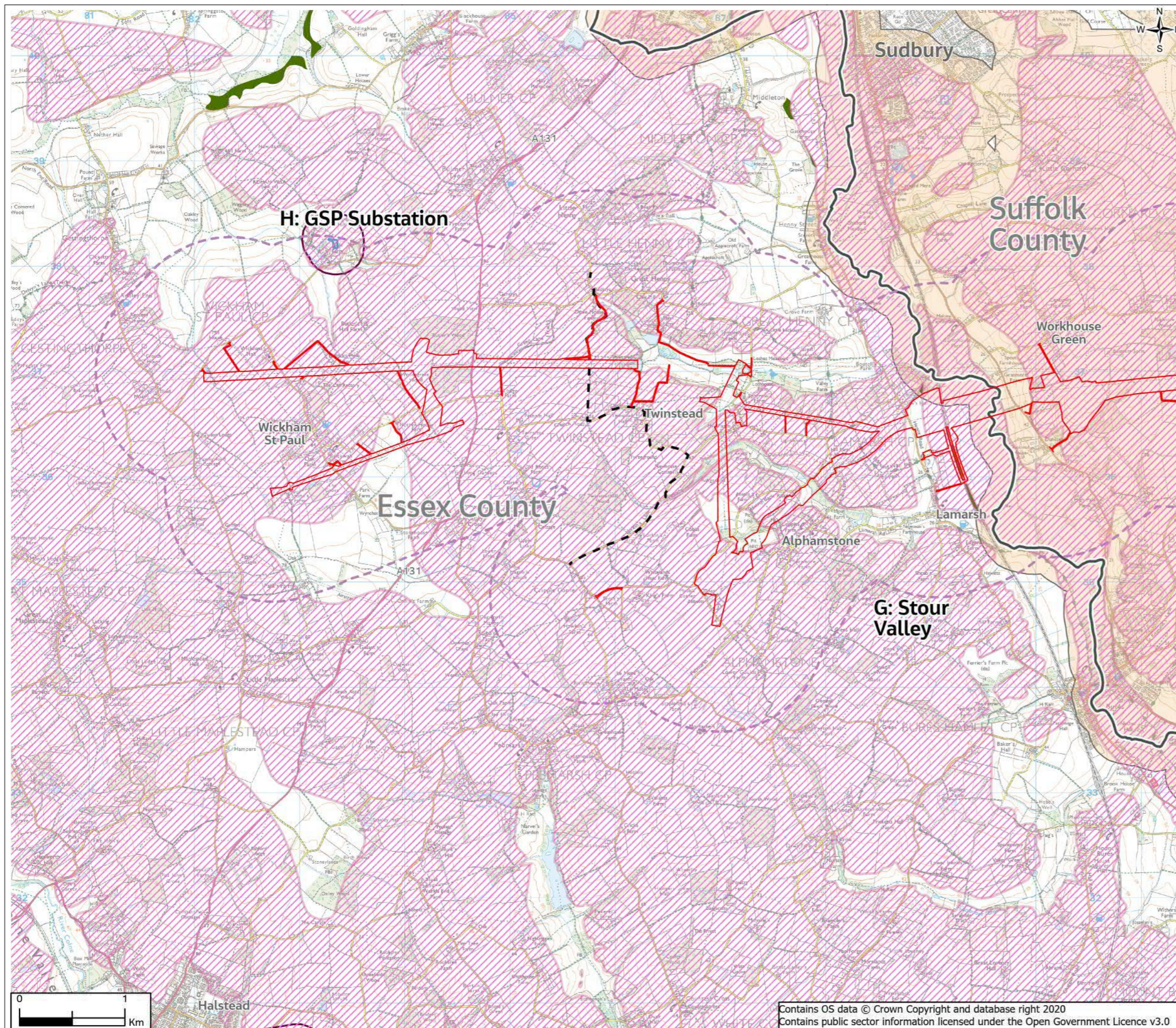
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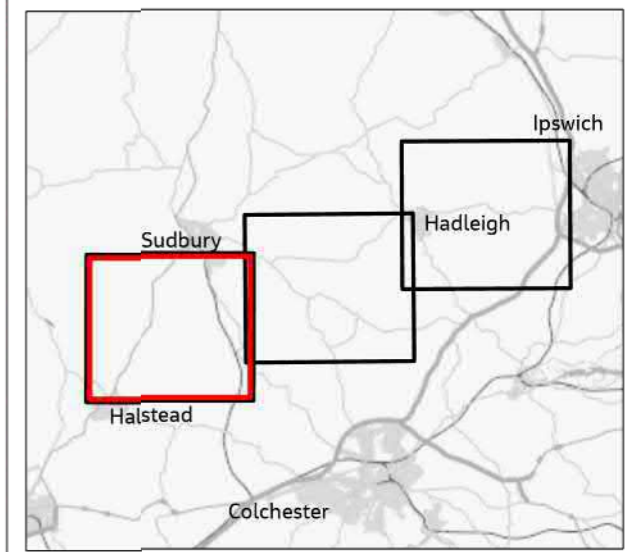
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FIGURE 10.2



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Wider Study Area (1km)
 - ▭ County Council Area
 - ▭ Mineral Extraction Sites
 - ▭ Proposed Mineral Extraction Sites
 - ▭ Mineral Consultation Areas
 - ▭ Minerals and Waste Sites
 - ▭ Minerals and Waste Sites Safeguarding
 - ▭ Mineral Safeguarding Area Chalk 2019
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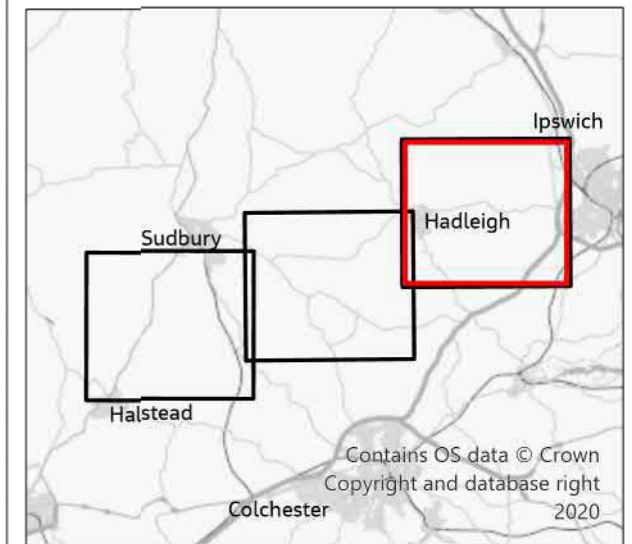
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FIGURE 11.1

Legend

- Section Boundaries
- Draft Order Limits
- Soilscapes**
- Freely draining slightly acid loamy soils
- Lime-rich loamy and clayey soils with impeded drainage
- Slightly acid loamy and clayey soils with impeded drainage
- Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils
- Freely draining slightly acid but base-rich soils
- Loamy and clayey floodplain soils with naturally high groundwater
- Water



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Client No.

Drawing No. **AAA_B2T_11_Agriculture_Soils**

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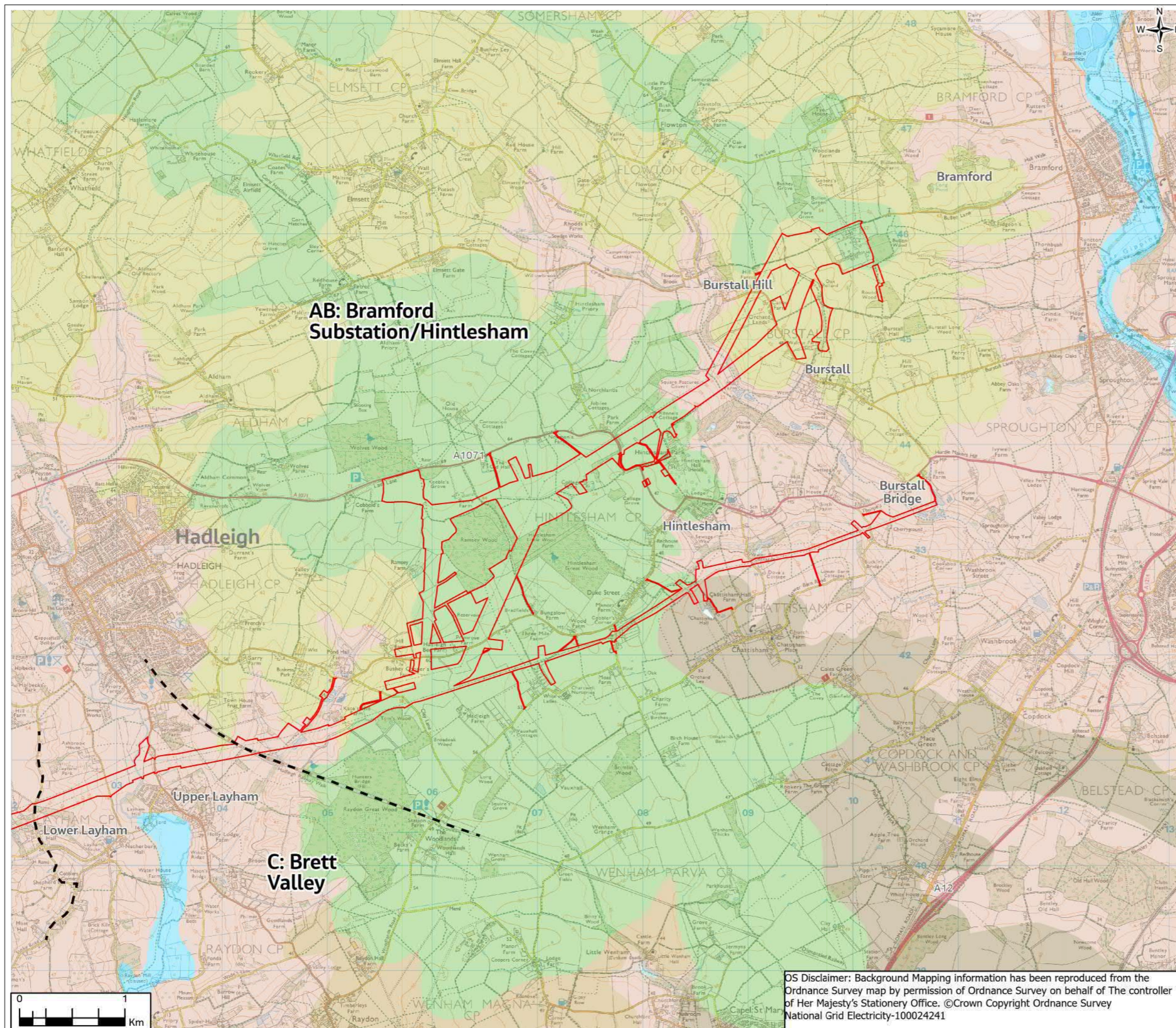
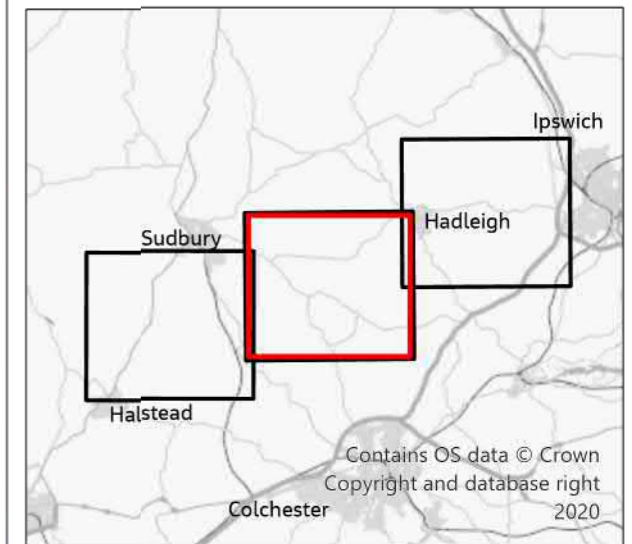


FIGURE 11.1

Legend

- Section Boundaries
- Draft Order Limits
- Soilscapes**
- Freely draining slightly acid loamy soils
- Lime-rich loamy and clayey soils with impeded drainage
- Slightly acid loamy and clayey soils with impeded drainage
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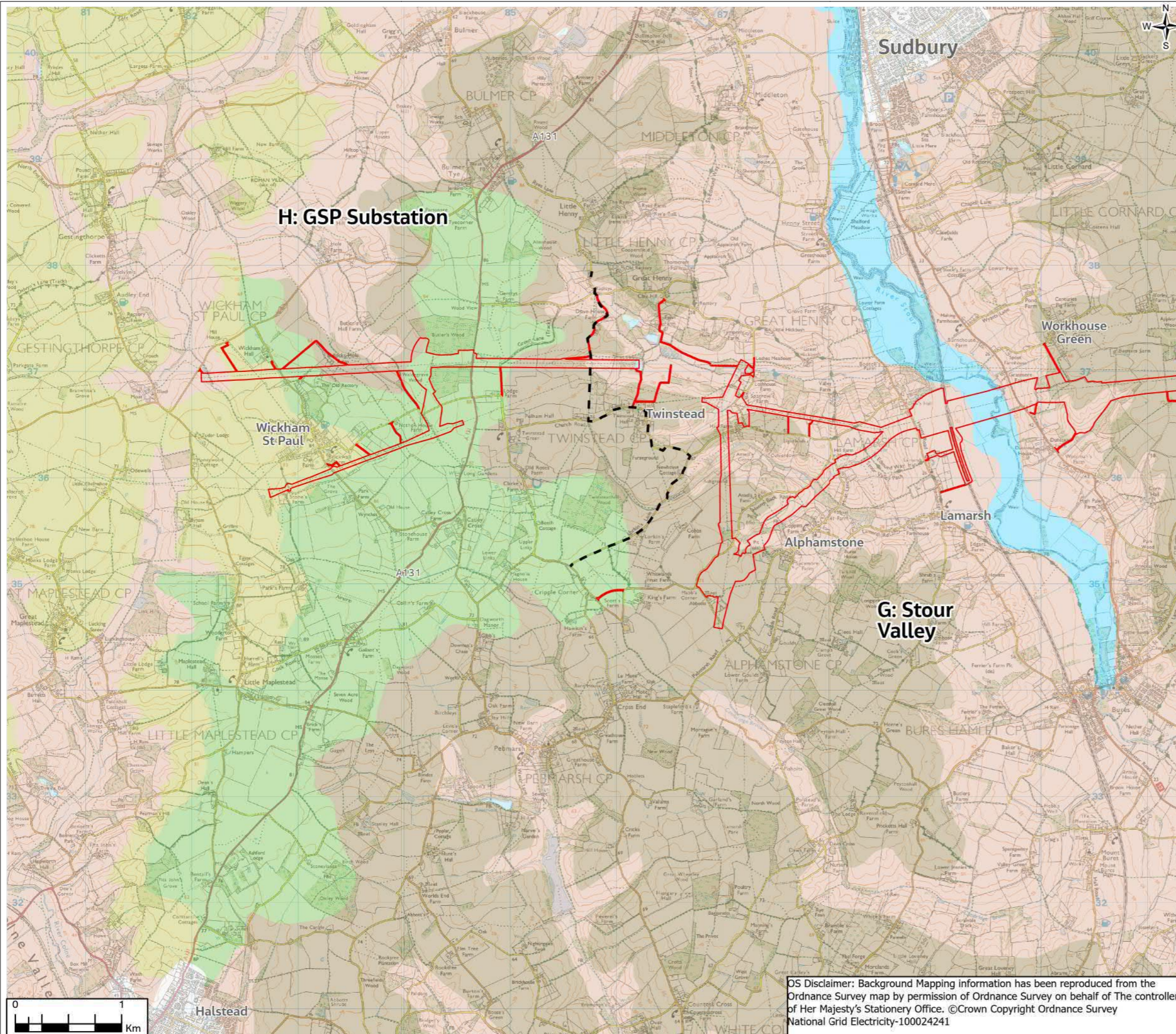
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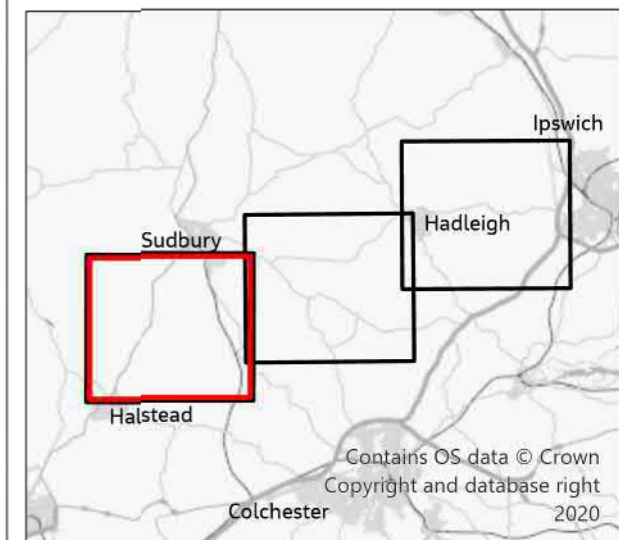
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FIGURE 11.1



- Legend**
- - Section Boundaries
 - Draft Order Limits
- Soilscapes**
- Freely draining slightly acid loamy soils
 - Lime-rich loamy and clayey soils with impeded drainage
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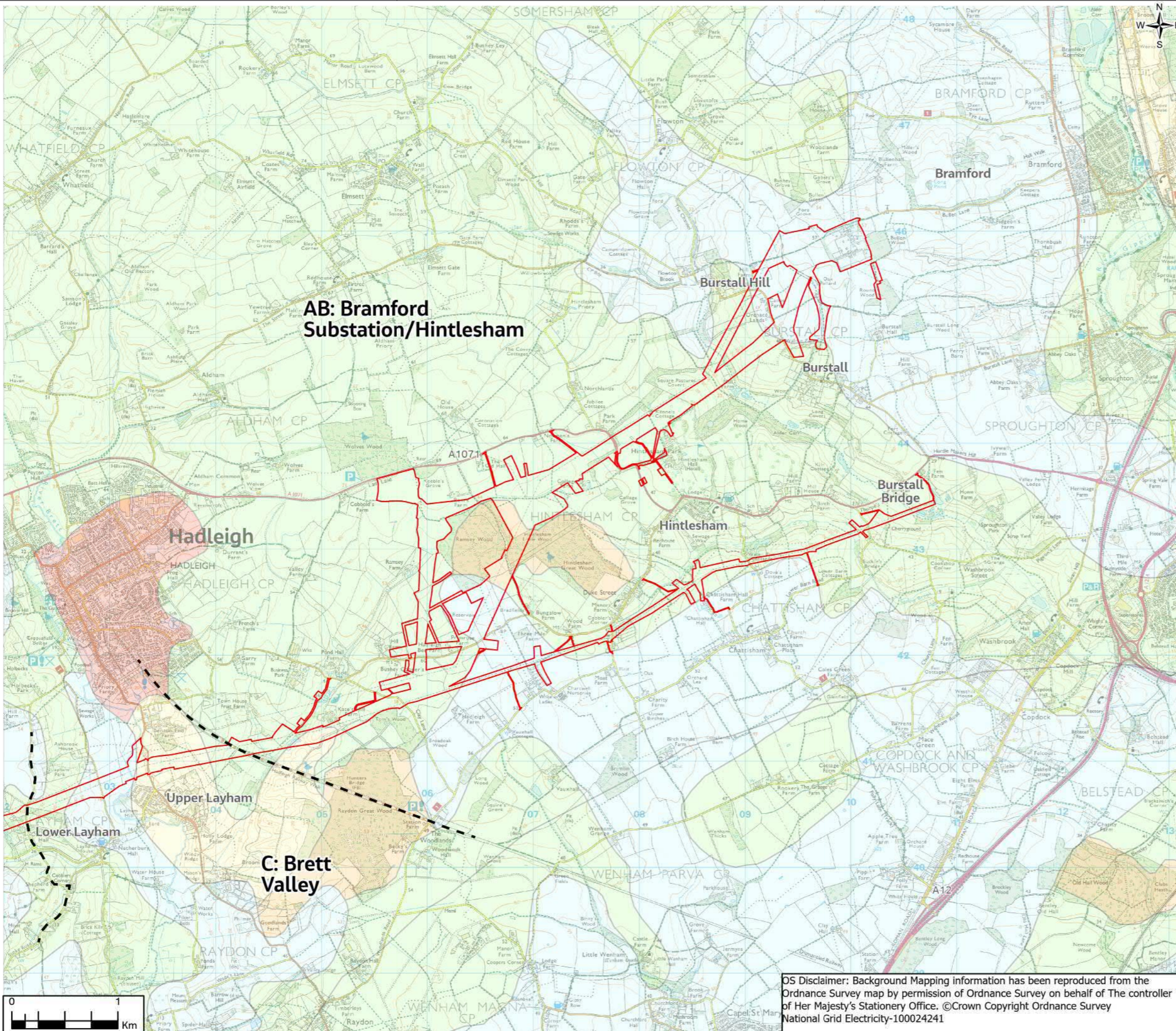
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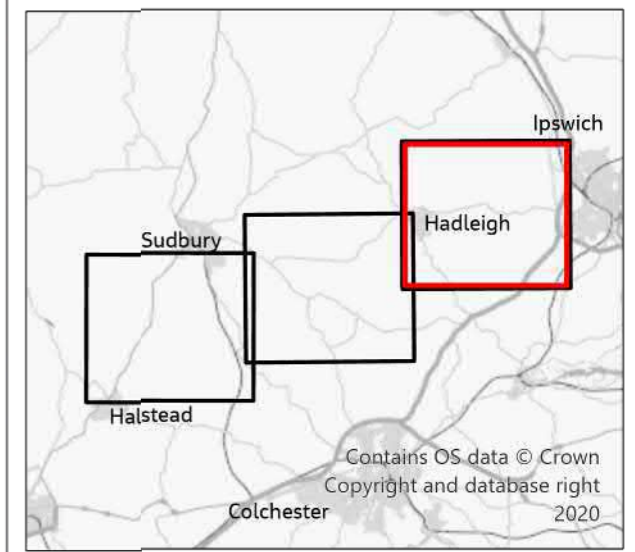
FIGURE 11.2

- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - Locations of proposed ALC surveys
 - ▭ Proposed Grid Supply Point (GSP) Substation
 - Proposed Cable Sealing End Compound
 - Agricultural Land Classification (ALC)
 - ▭ Grade 2
 - ▭ Grade 3
 - ▭ Grade 4
 - ▭ Non Agricultural
 - ▭ Urban



AB: Bramford Substation/Hintlesham

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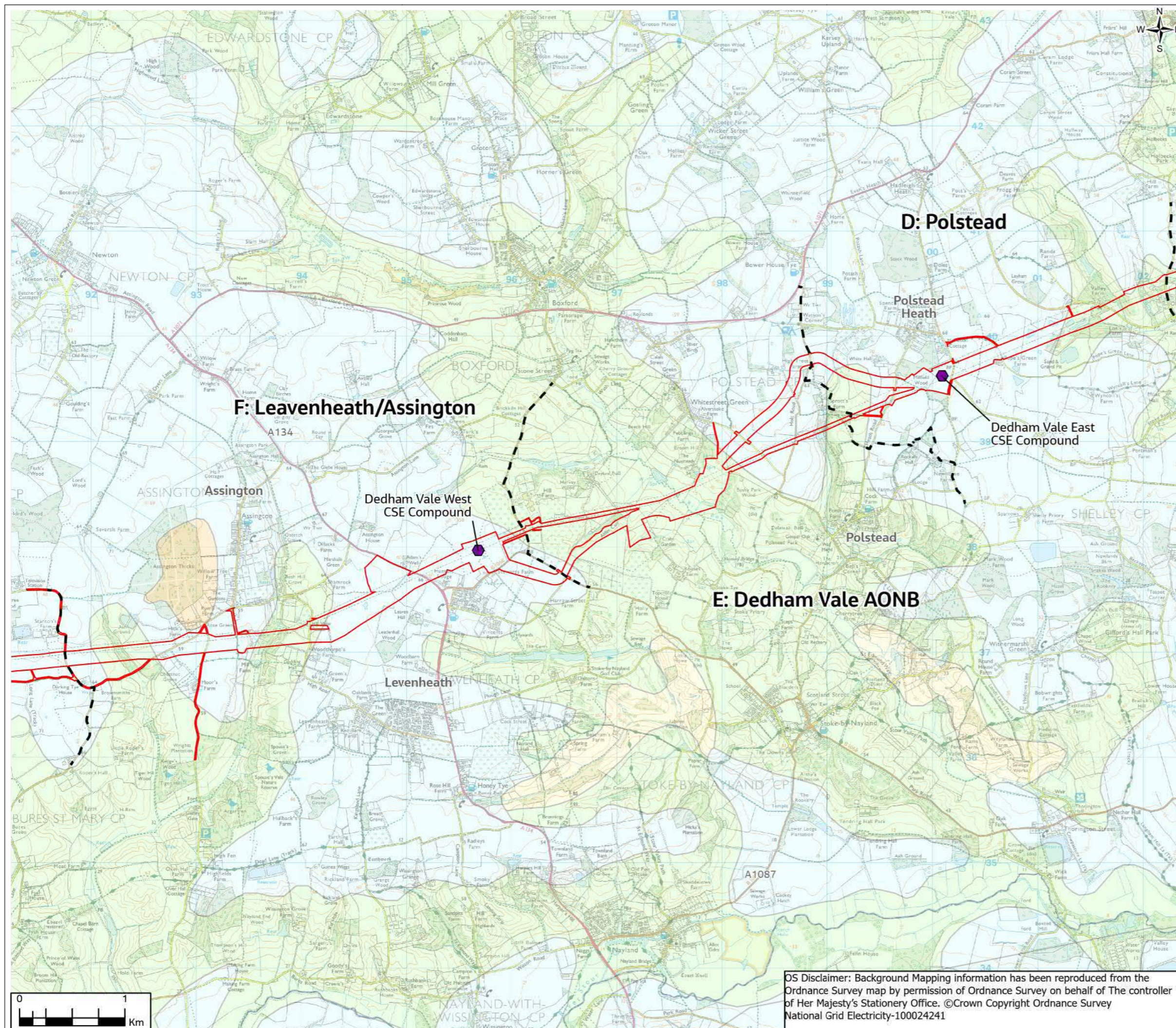
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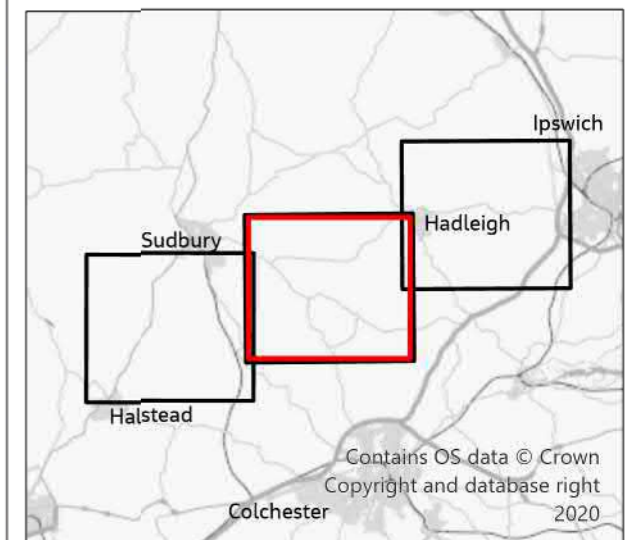
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FIGURE 11.2



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - ▭ Locations of proposed ALC surveys
 - ▭ Proposed Grid Supply Point (GSP) Substation
 - Proposed Cable Sealing End Compound
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 - ▭ Grade 3
 - ▭ Grade 4
 - ▭ Non Agricultural
 - ▭ Urban



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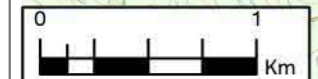
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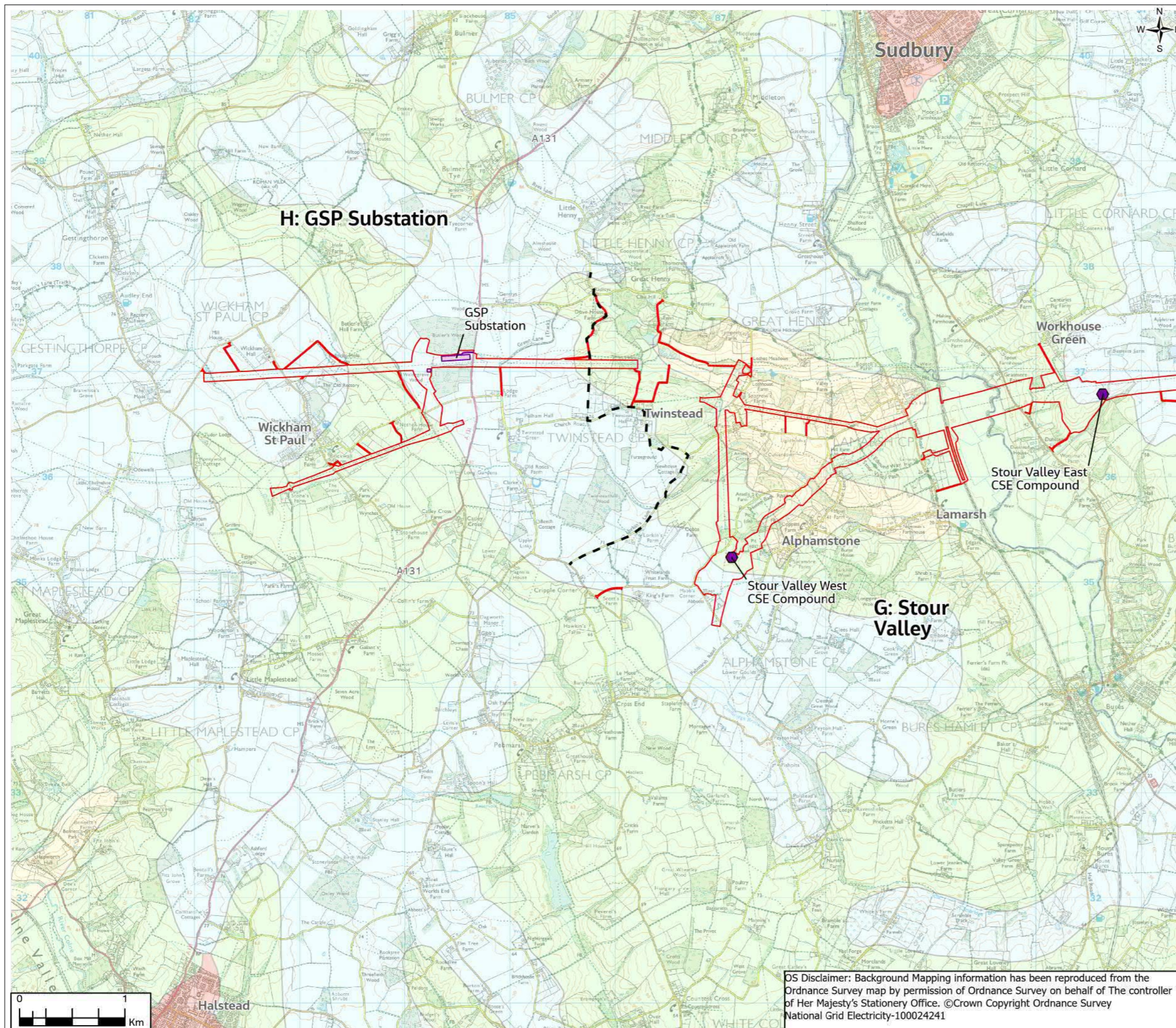
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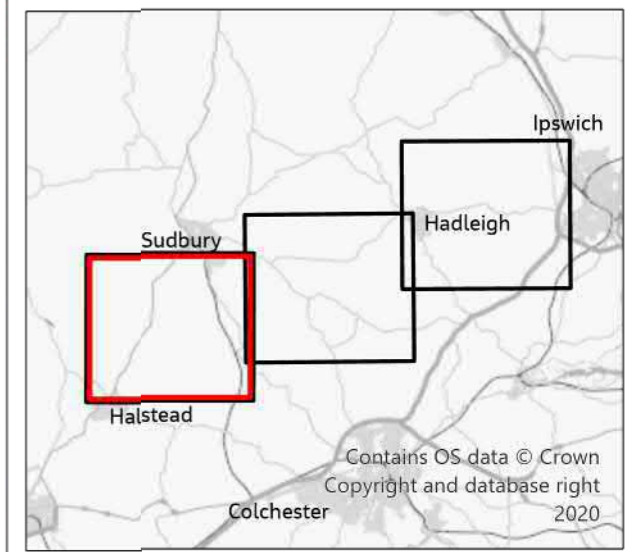


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- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - Locations of proposed ALC surveys
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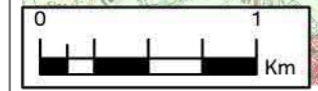
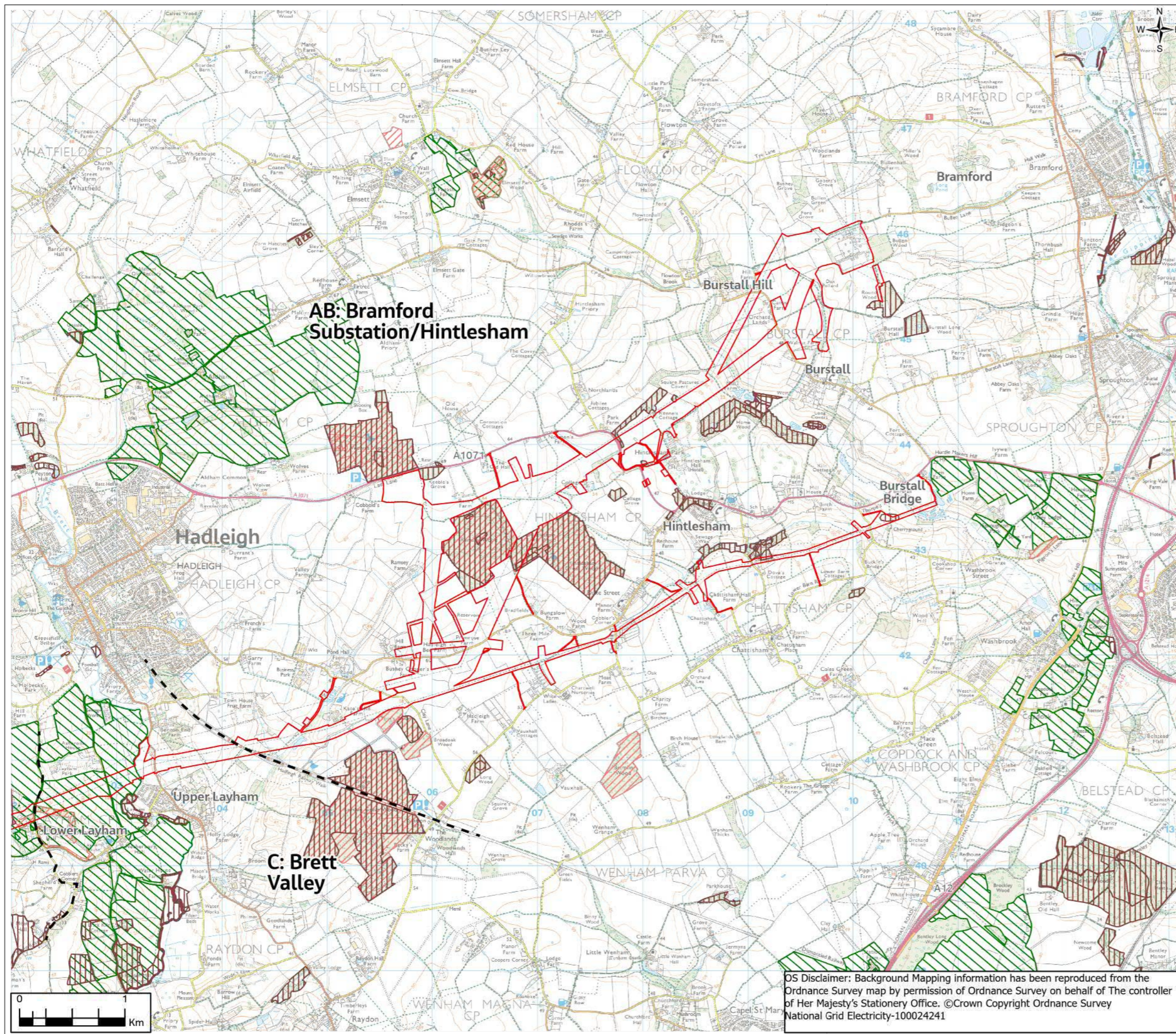
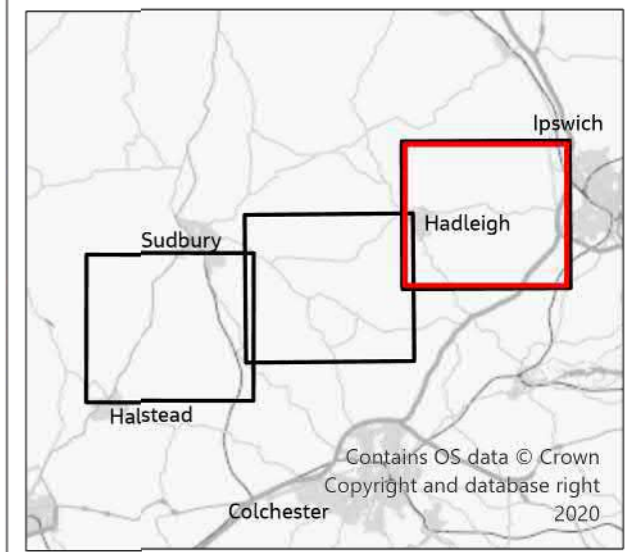


FIGURE 11.3

- Legend**
- - Section Boundaries
 - Draft Order Limits
 - ▨ Felling licence applications
 - ▧ Woodland grant schemes
 - Environmental stewardship agreements
 - ▩ Entry level plus higher level stewardship
 - Higher level stewardship



AB: Bramford Substation/Hintlesham

C: Brett Valley

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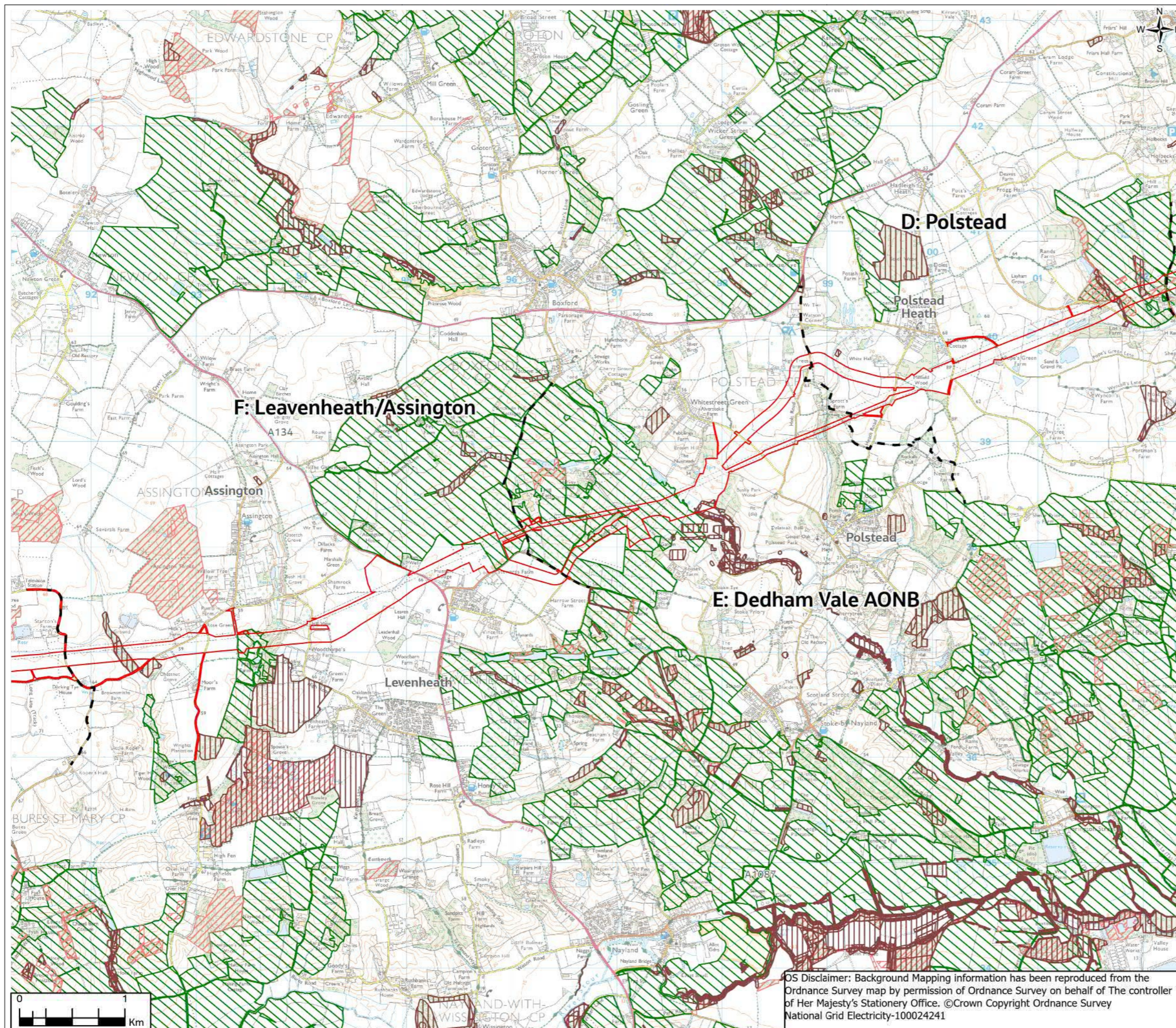
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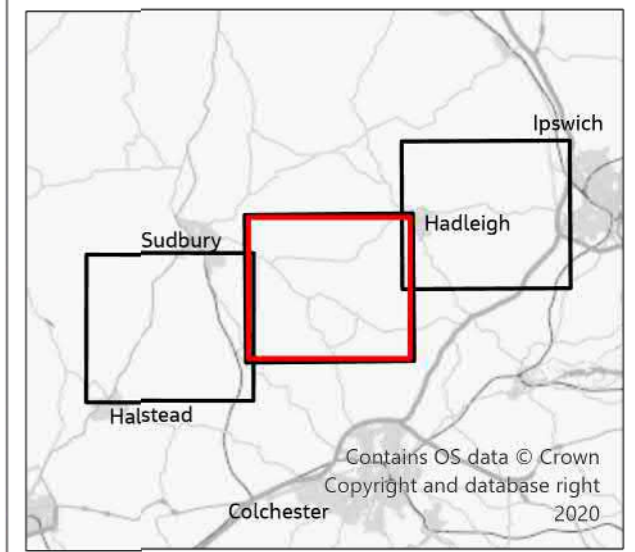
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FIGURE 11.3



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - ▨ Felling licence applications
 - ▧ Woodland grant schemes
 - Environmental stewardship agreements
 - ▨ Entry level plus higher level stewardship
 - ▨ Higher level stewardship



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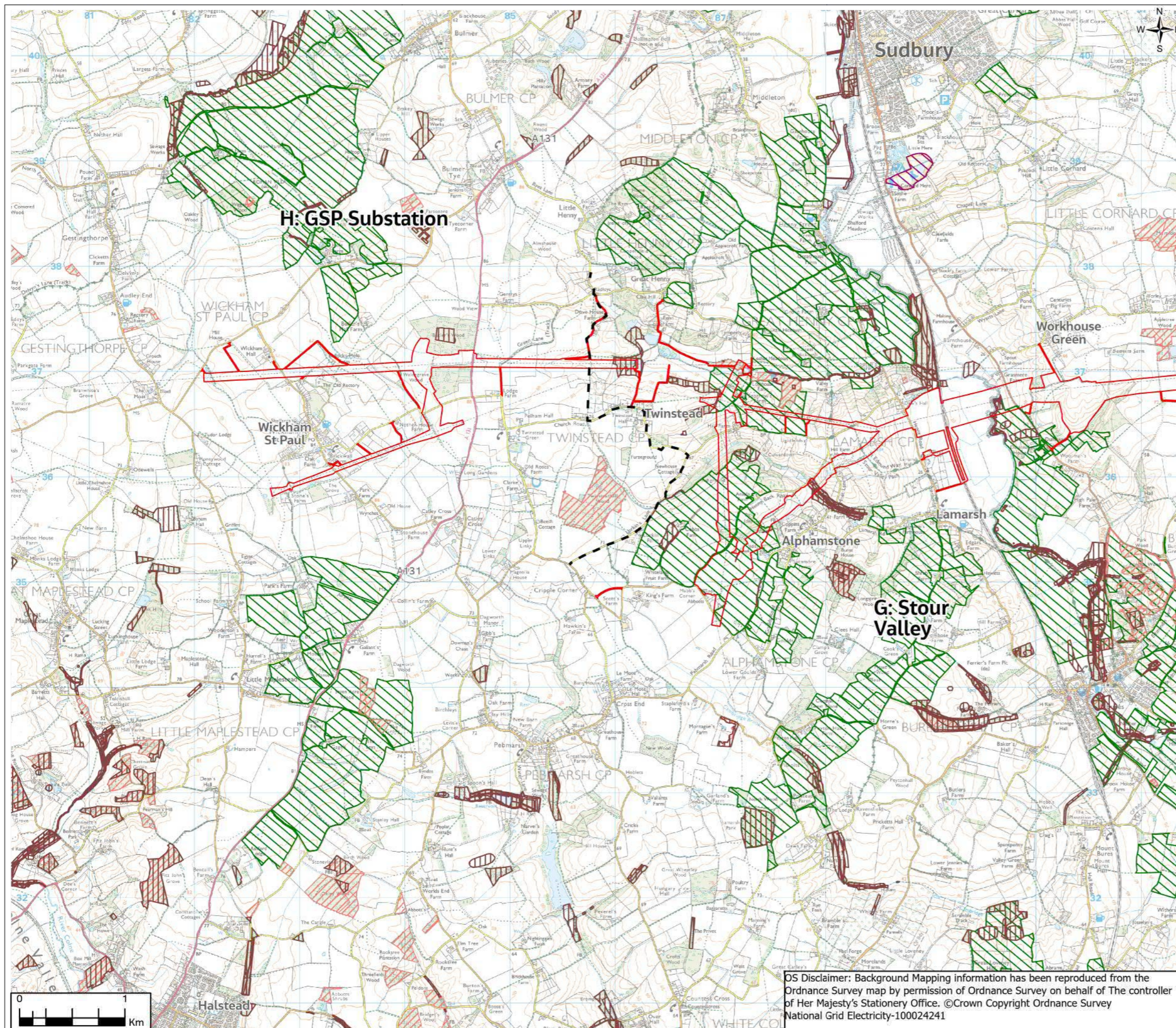
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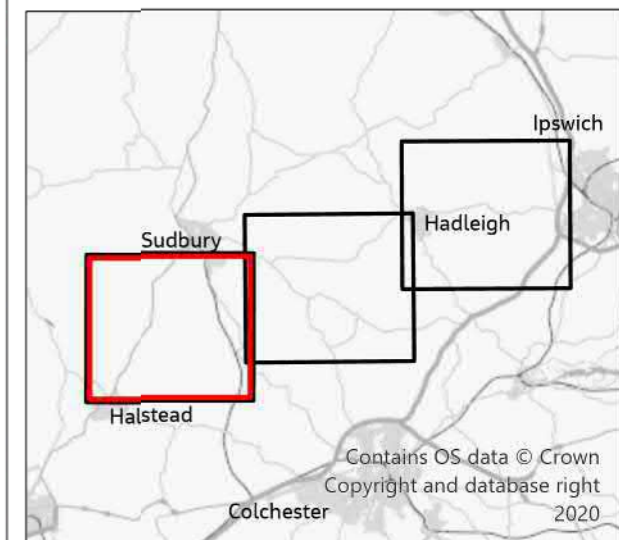
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FIGURE 11.3



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - ▨ Felling licence applications
 - ▧ Woodland grant schemes
 - ▩ Environmental stewardship agreements
 - ▨ Entry level plus higher level stewardship
 - ▧ Higher level stewardship



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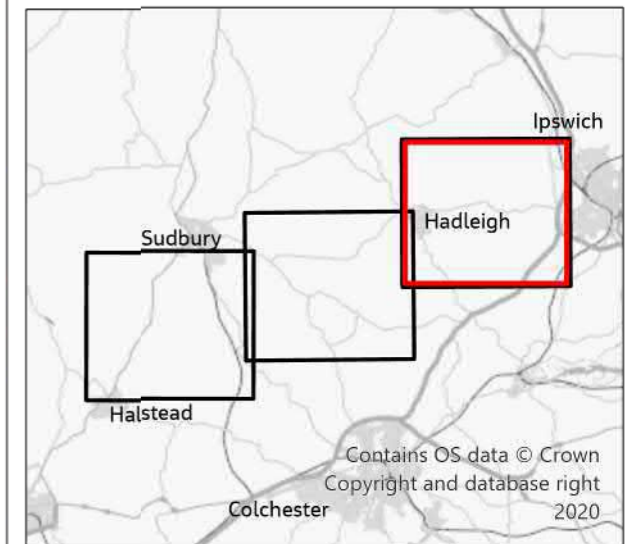
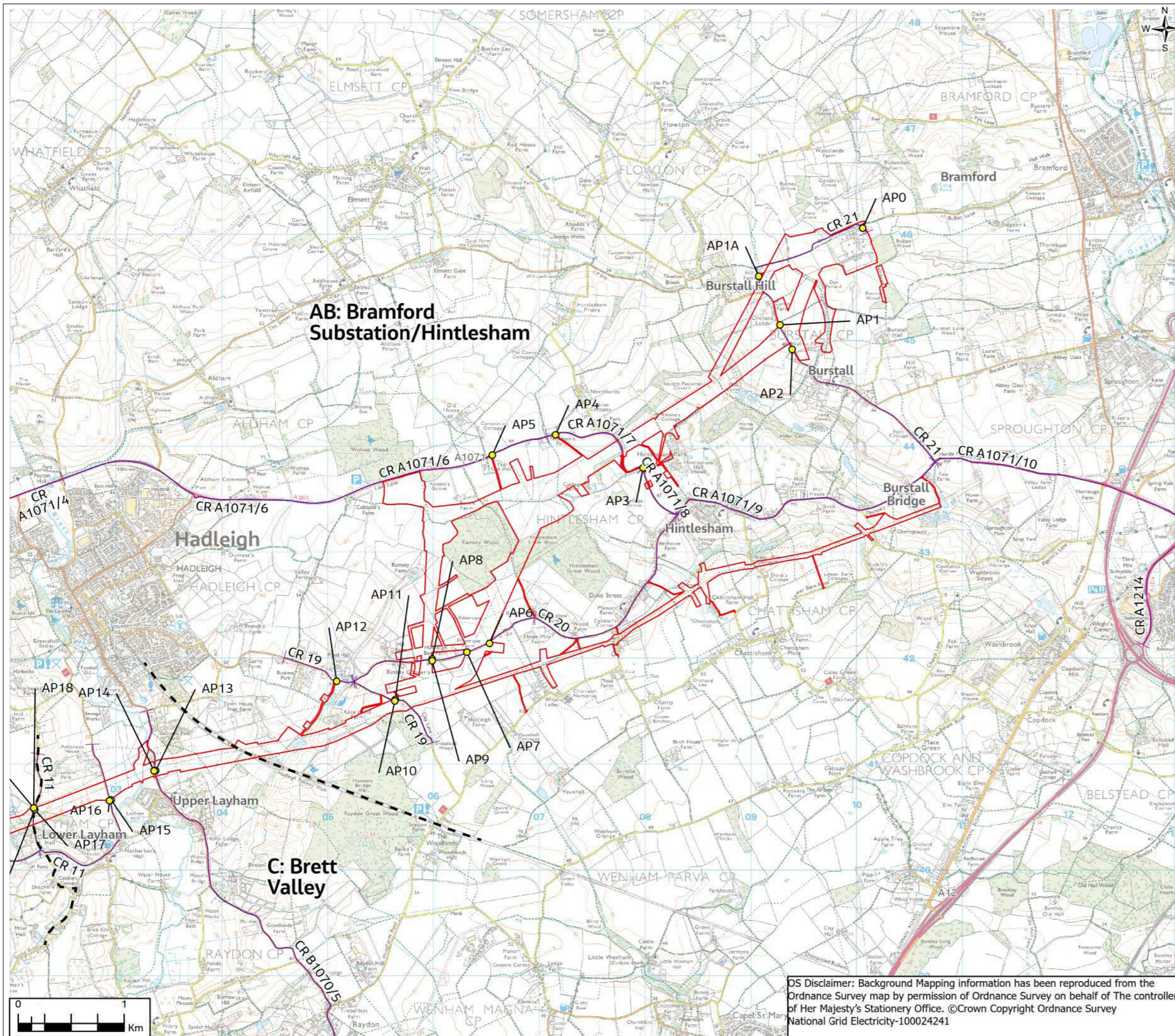


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FIGURE 12.1

Legend

- - Section Boundaries
- Draft Order Limits
- Access Point
- ┌─ Construction Traffic Route
- AP Access Point Reference
- CR Construction Traffic Route Reference



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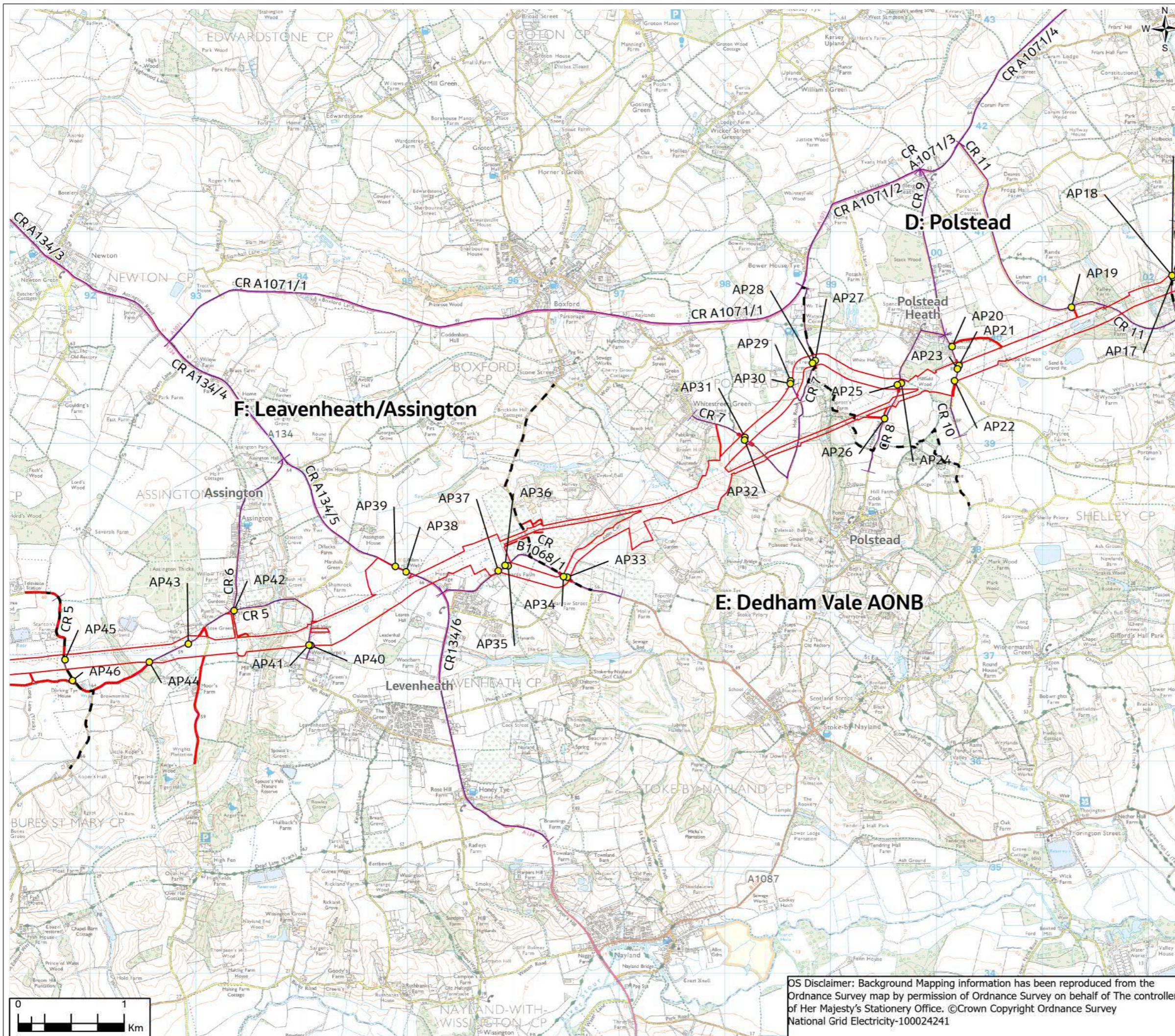
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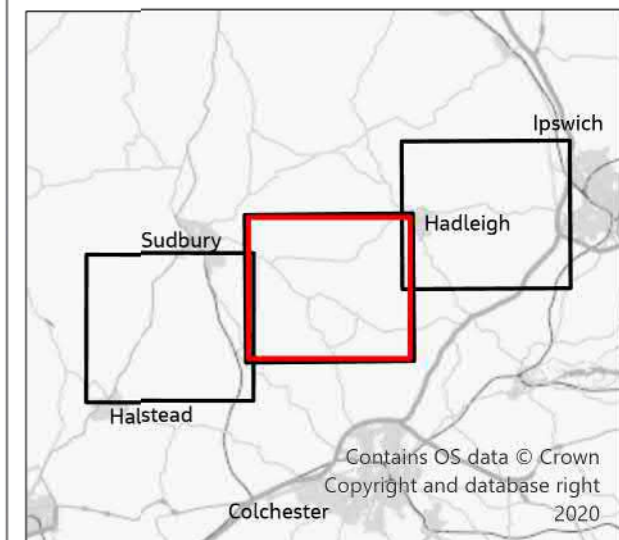
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FIGURE 12.1



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - Access Point
 - ┌─ Construction Traffic Route
 - AP Access Point Reference
 - CR Construction Traffic Route Reference



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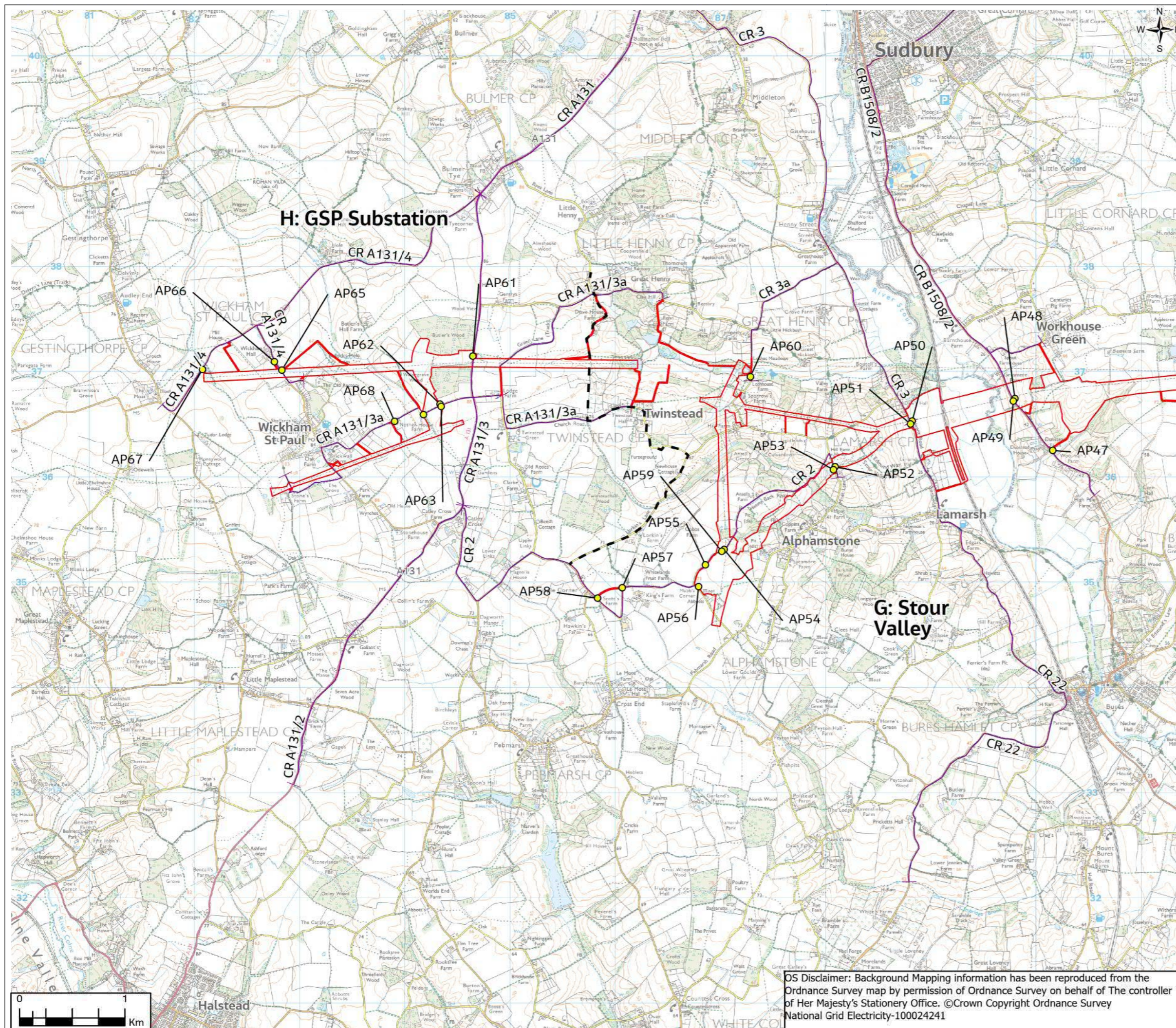
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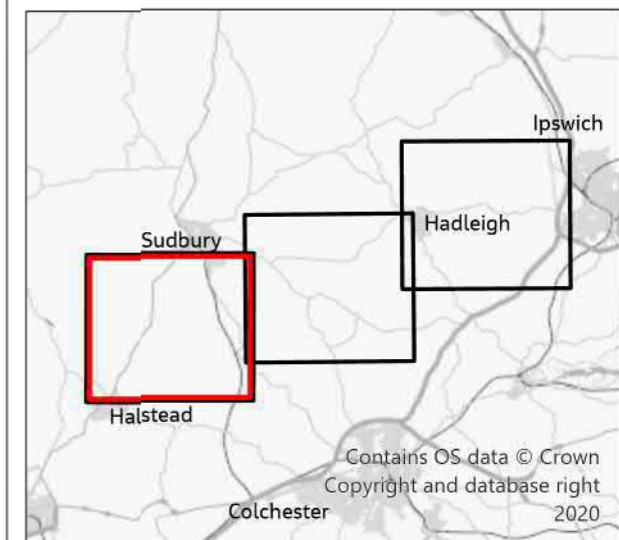
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FIGURE 12.1



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - Access Point
 - ├─ Construction Traffic Route
 - AP Access Point Reference
 - CR Construction Traffic Route Reference



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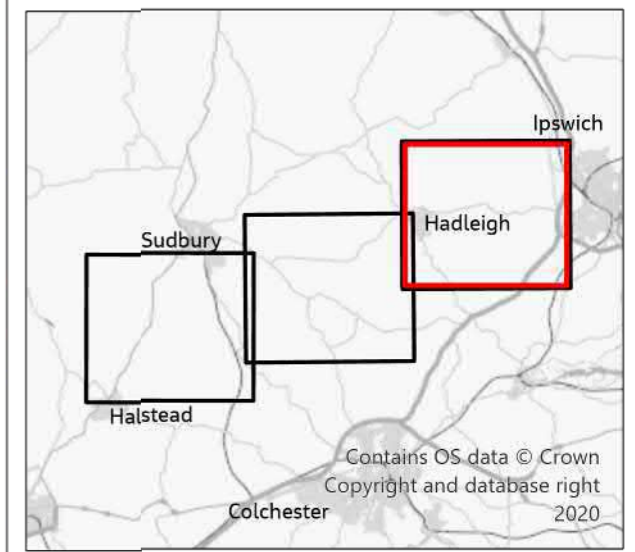
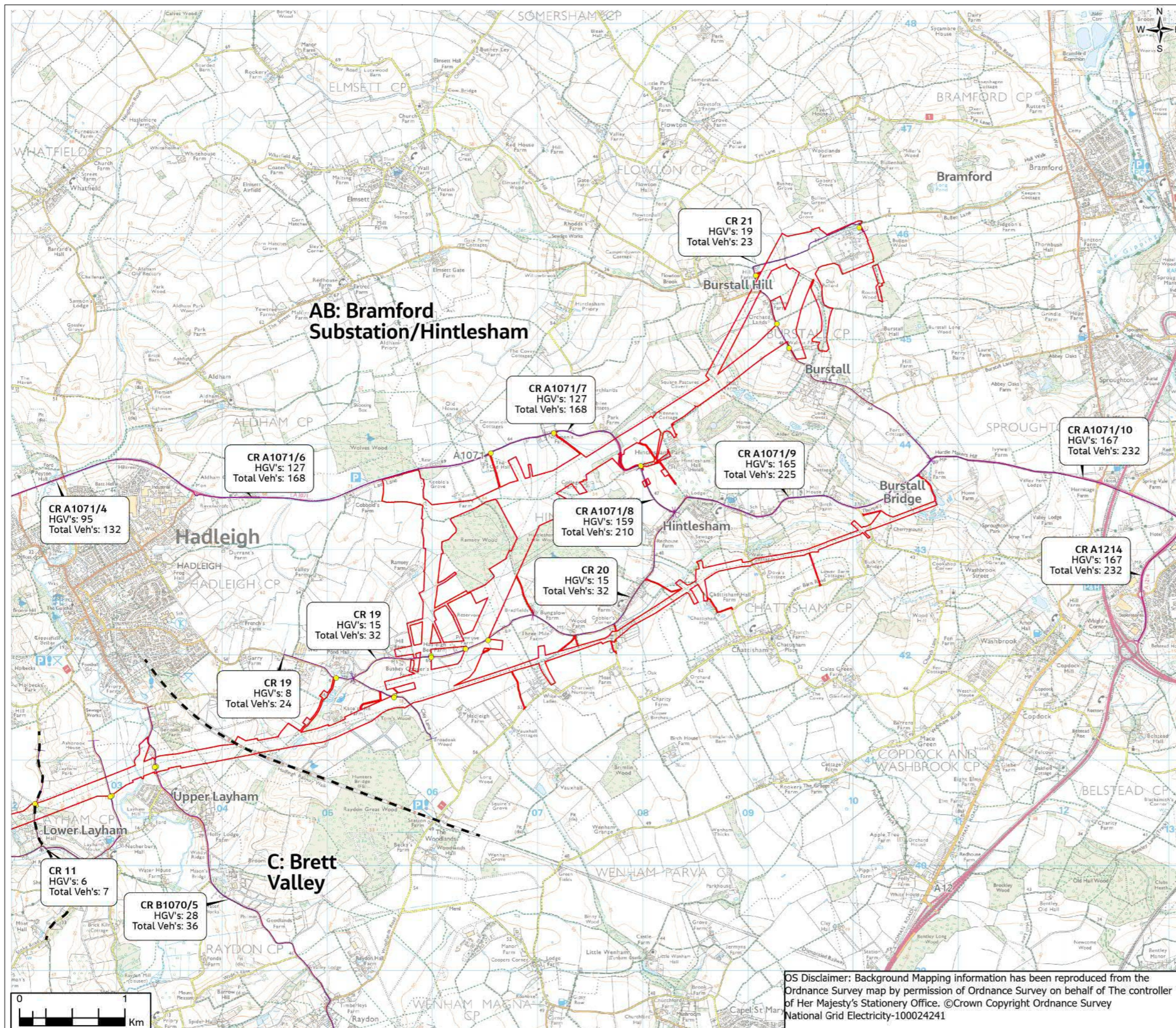
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FIGURE 12.2

- Legend**
- Section Boundaries
 - Draft Order Limits
 - Access Points
 - Construction Traffic Route



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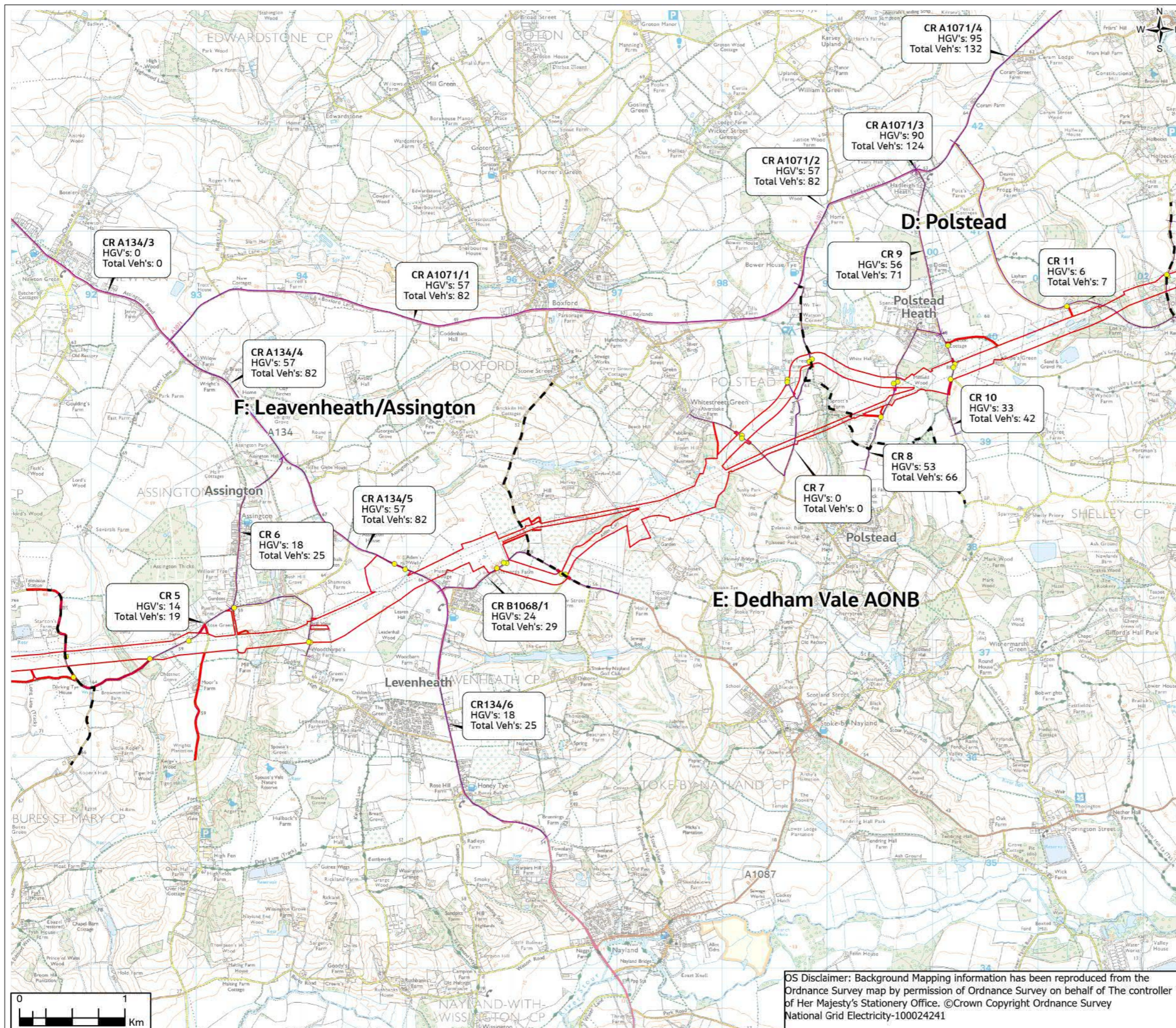
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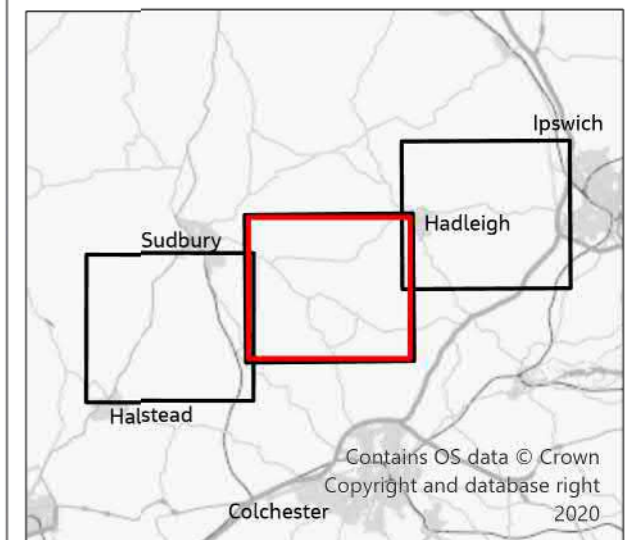
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FIGURE 12.2



- Legend**
- - Section Boundaries
 - ▭ Draft Order Limits
 - Access Points
 - Construction Traffic Route



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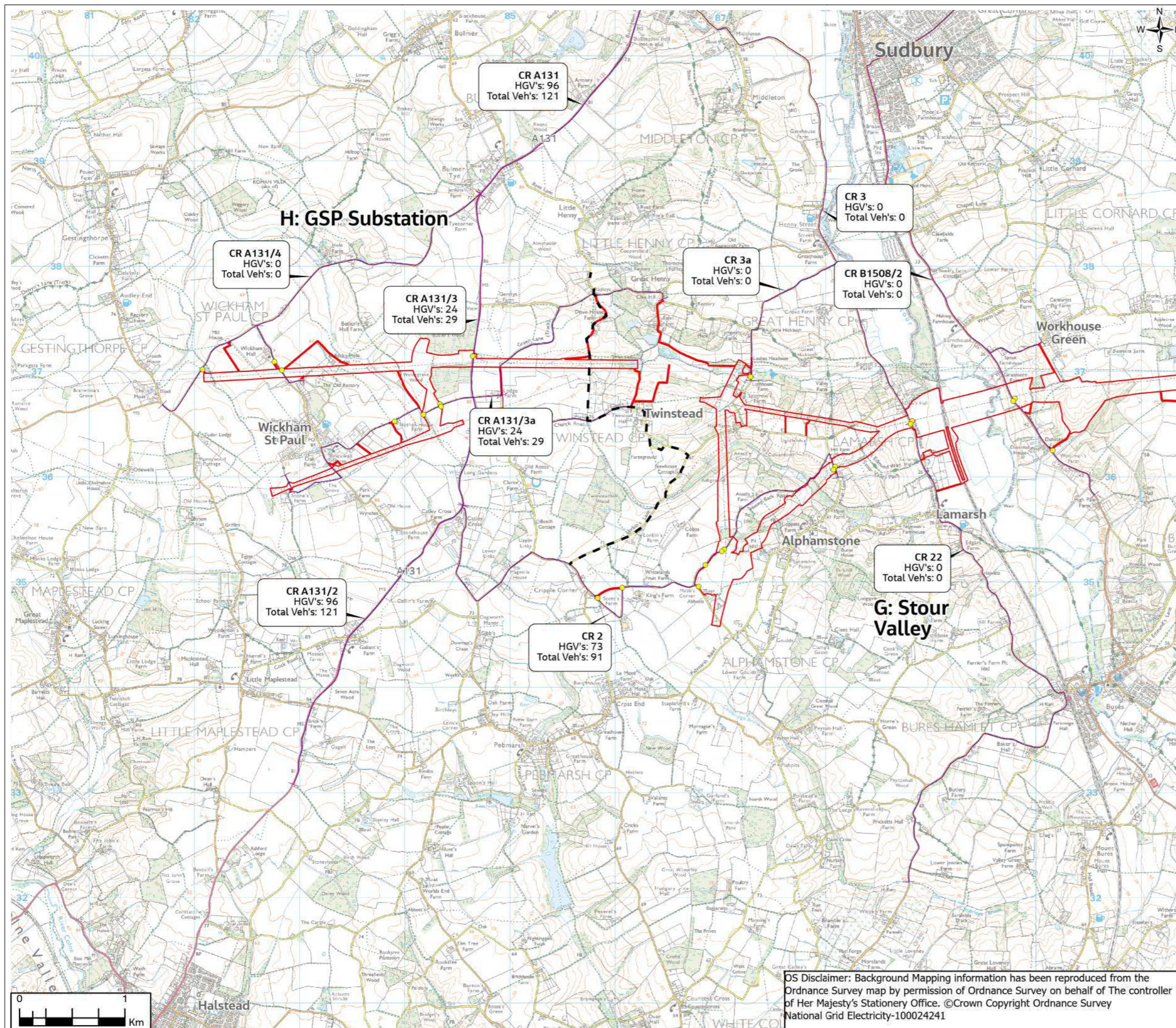
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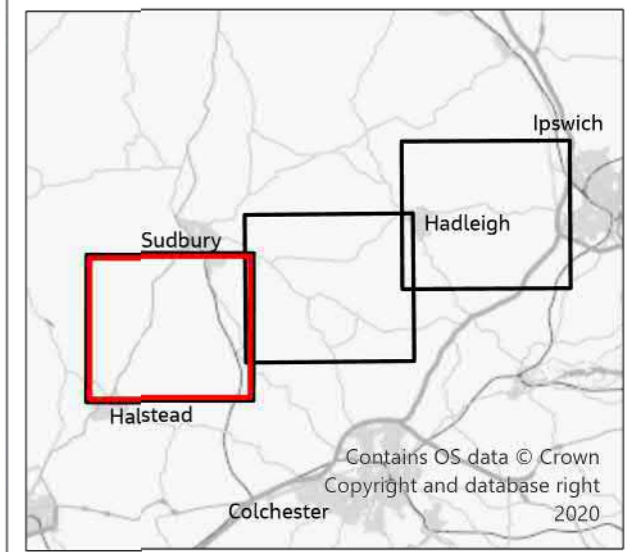
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FIGURE 12.2



- Legend**
- - Section Boundaries
 - Draft Order Limits
 - Access Points
 - Construction Traffic Route



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Drawing Title
 Estimated Peak Construction Traffic Flows
 (based on current project assumptions - peak month November 2024)
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Drawing Status
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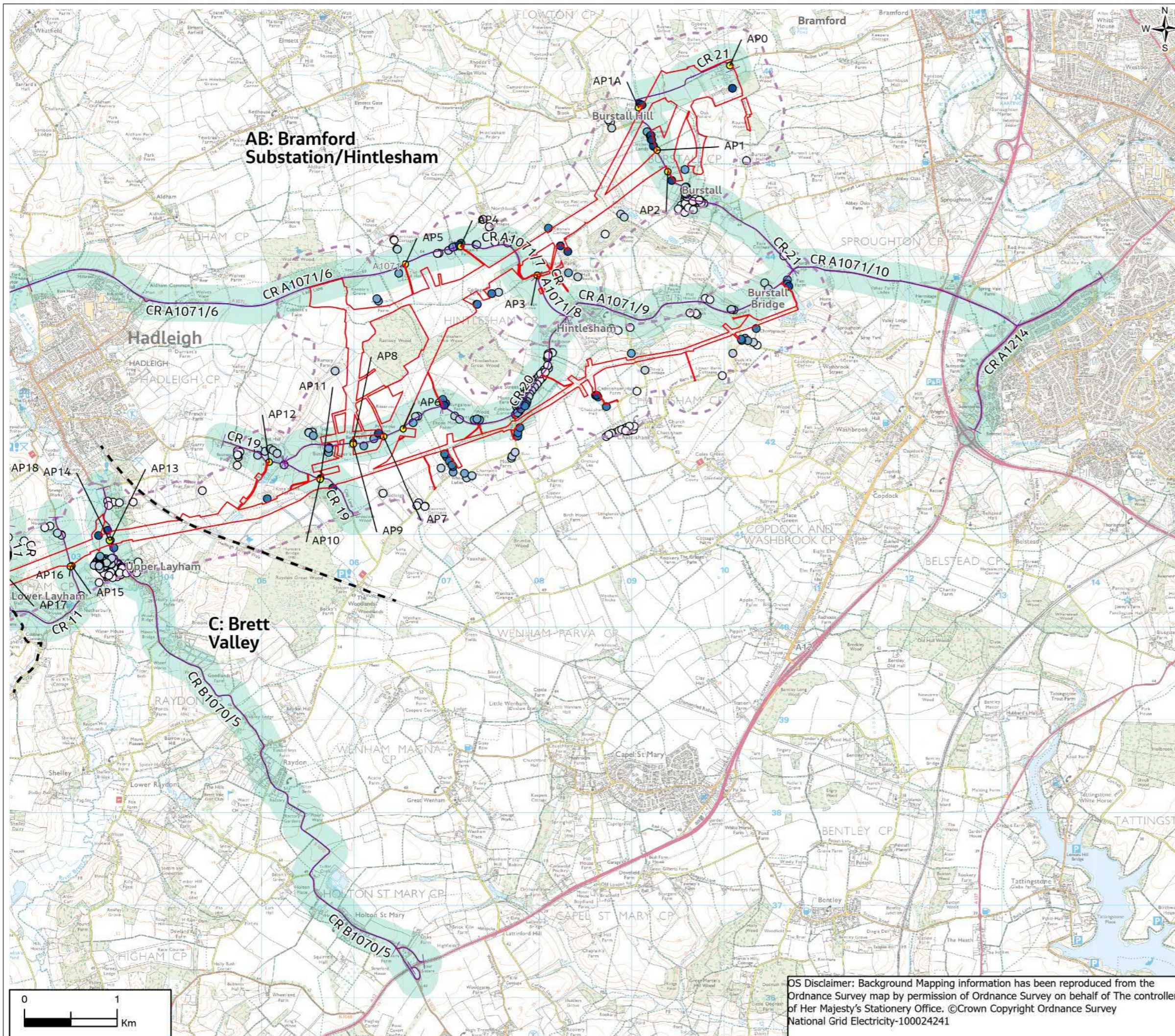
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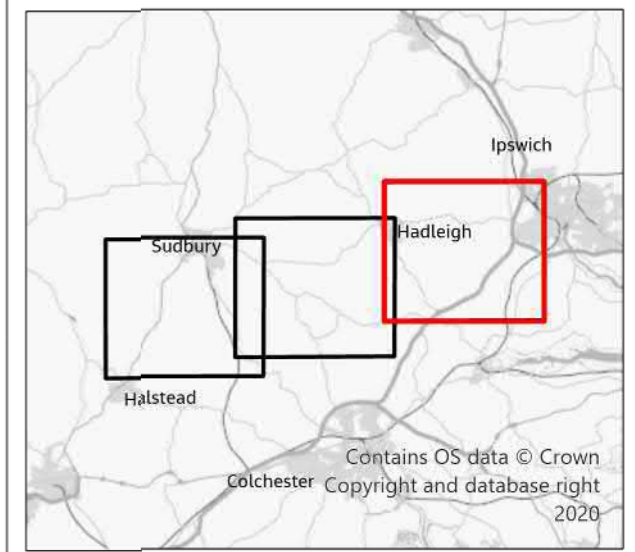
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FIGURE 13.1



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▨ Dust Risk Assessment study area (350m)
 - ▨ Construction Route Study Area (200m)
 - ▨ Air Quality Management Area (AQMA)
- Residential and Community Receptors (based on AddressPlus data)**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m
 - Access Point
 - ▬ Construction Traffic Route
- Note :** Distance calculated for receptors are from draft order limits.
Note 2 : Ecological receptors can be found on Figures 7.1, 7.2 and 7.3.



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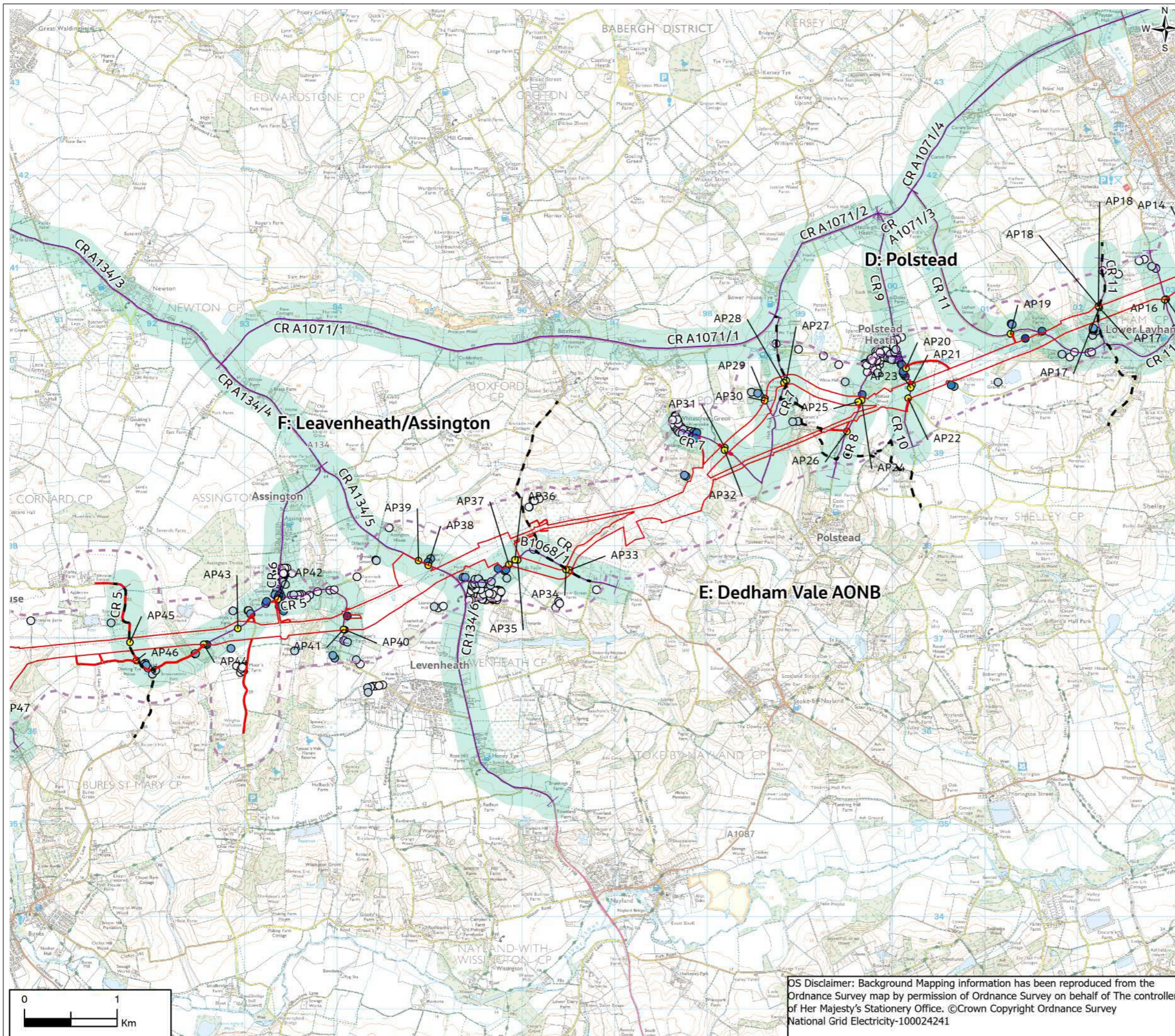
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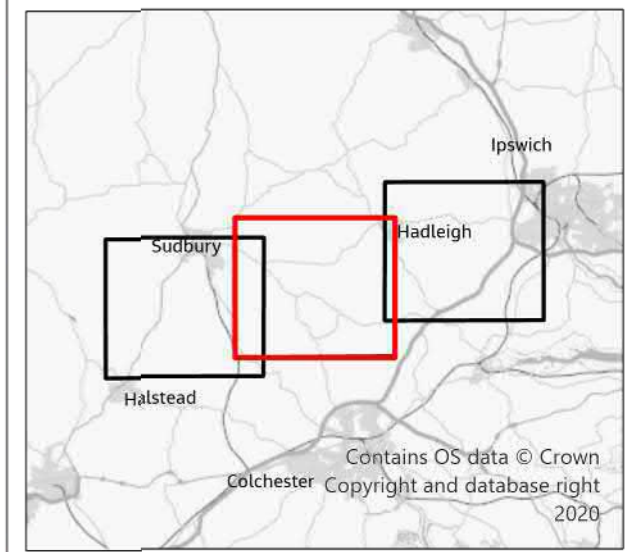
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FIGURE 13.1



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Dust Risk Assessment study area (350m)
 - Construction Route Study Area (200m)
 - Air Quality Management Area (AQMA)
- Residential and Community Receptors (based on AddressPlus data)**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m
 - Access Point
 - Construction Traffic Route
- Note : Distance calculated for receptors are from draft order limits.
 Note 2 : Ecological receptors can be found on Figures 7.1, 7.2 and 7.3.



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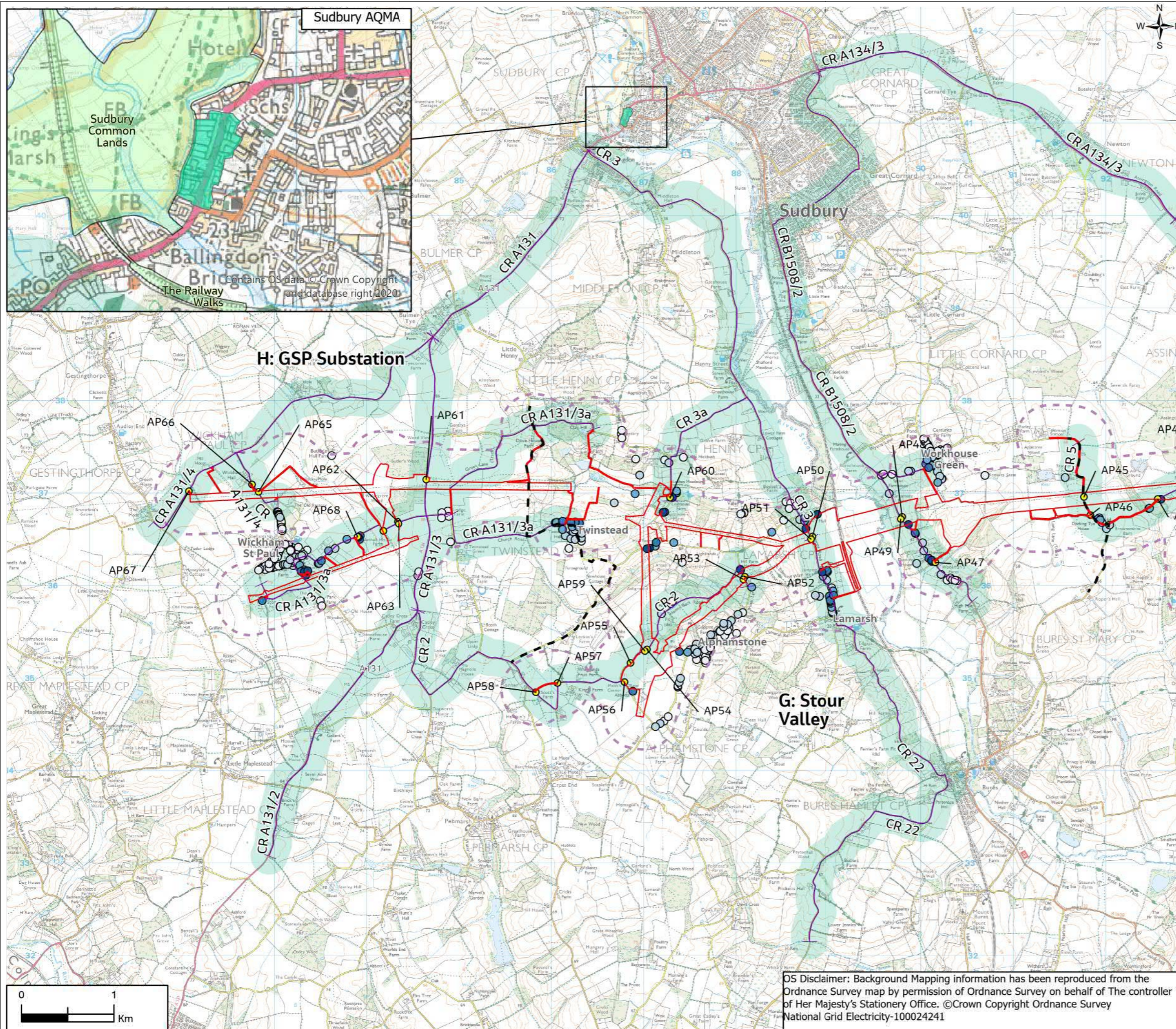
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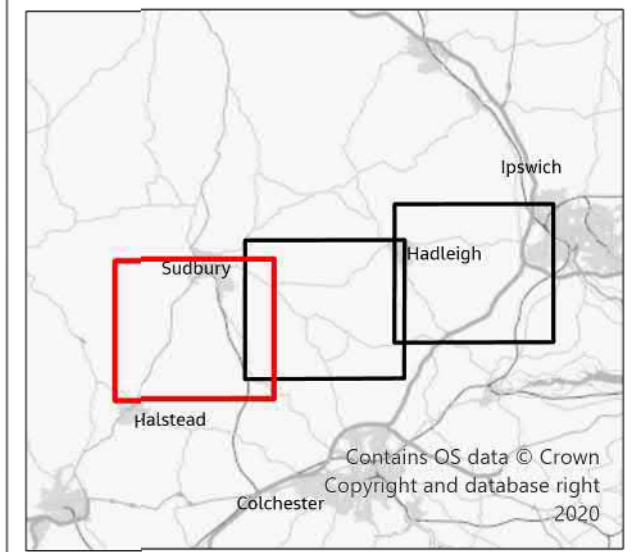


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FIGURE 13.1



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▭ Dust Risk Assessment study area (350m)
 - ▭ Construction Route Study Area (200m)
 - ▭ Air Quality Management Area (AQMA)
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 - 200 - 350m
 - Access Point
 - ┌ Construction Traffic Route
- Note : Distance calculated for receptors are from draft order limits.
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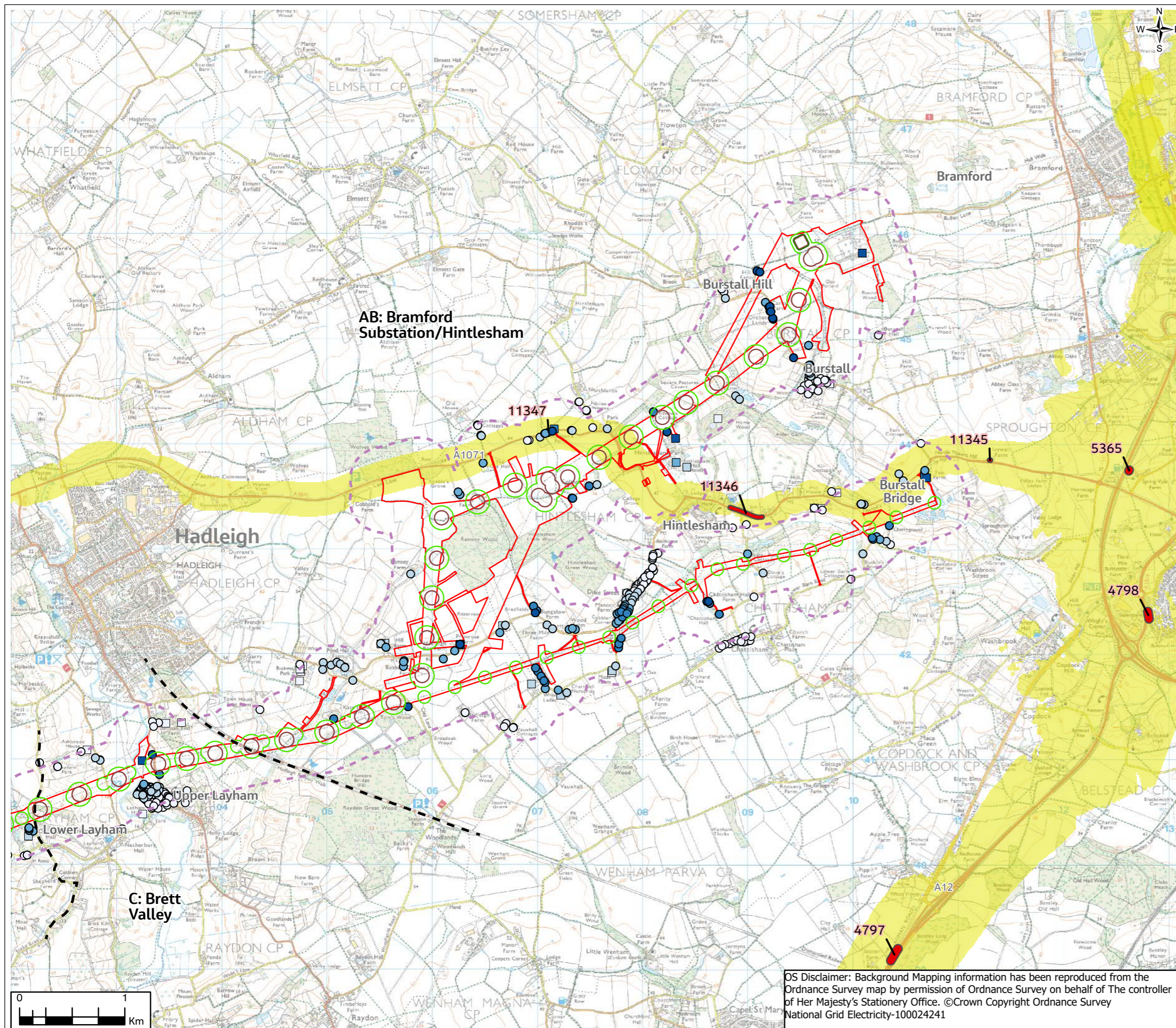
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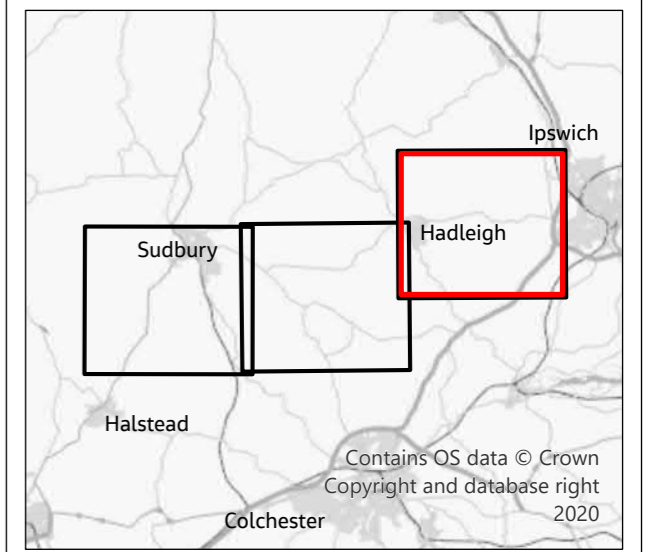
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FIGURE 14.1



- Legend**
- Section Boundaries
 - Draft Order Limits
 - Noise study area (300m)
 - Noise Significant Observed Adverse Effect Level SOAEL (Short Duration)
 - Noise SOAEL (Long Duration)
 - Vibration SOAEL (Short Duration)
 - Noise Important Area (NIA)
 - 11345 NIA reference number
 - Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Residential Receptors within 1km**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m
- Non-Residential Receptors within 1km**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m

Note: SOAEL layers are based on indicative pylon locations used to support the assessment. The project will be defining Limits of Deviation and therefore the indicative pylon locations could change



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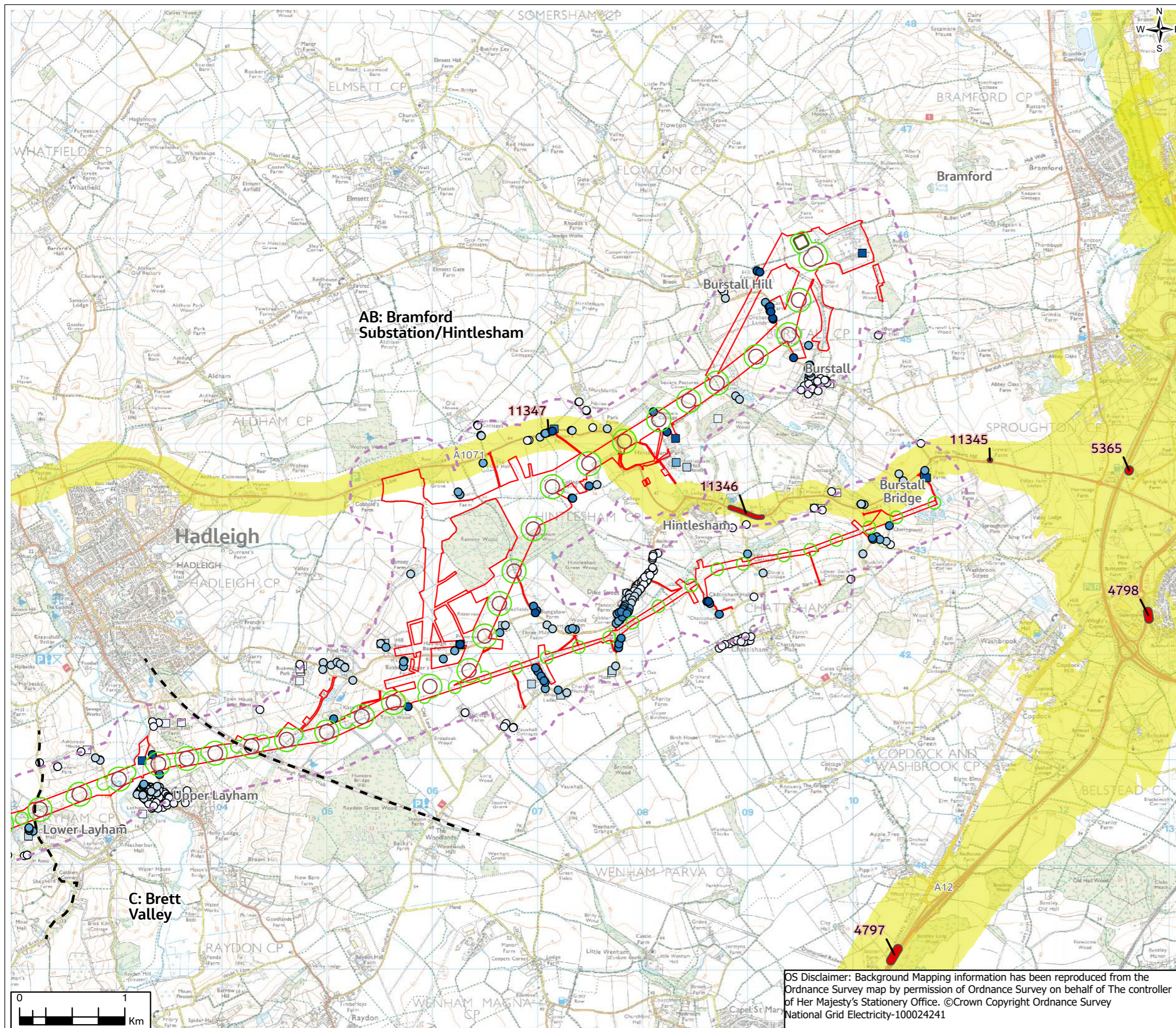
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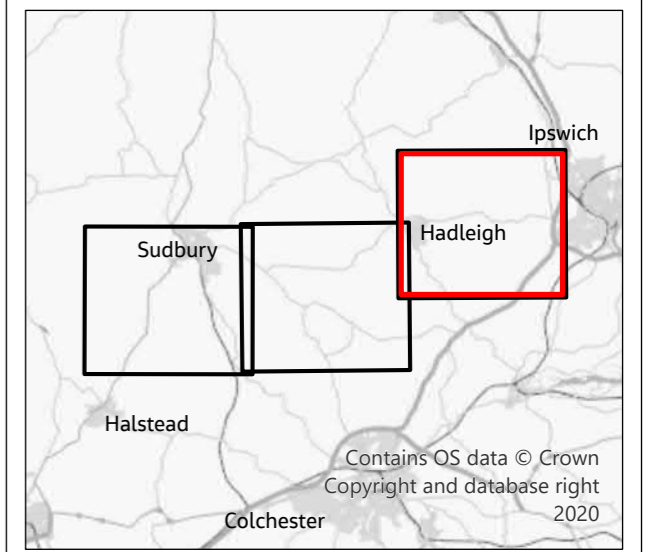
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FIGURE 14.1



- Legend**
- Section Boundaries
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 - Noise study area (300m)
 - Noise Significant Observed Adverse Effect Level SOAEL (Short Duration)
 - Noise SOAEL (Long Duration)
 - Vibration SOAEL (Short Duration)
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 - 11345 NIA reference number
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- Residential Receptors within 1km**
- 0 - 20m
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 - 50 - 100m
 - 100 - 200m
 - 200 - 350m
- Non-Residential Receptors within 1km**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m

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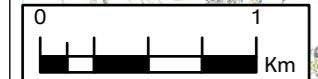
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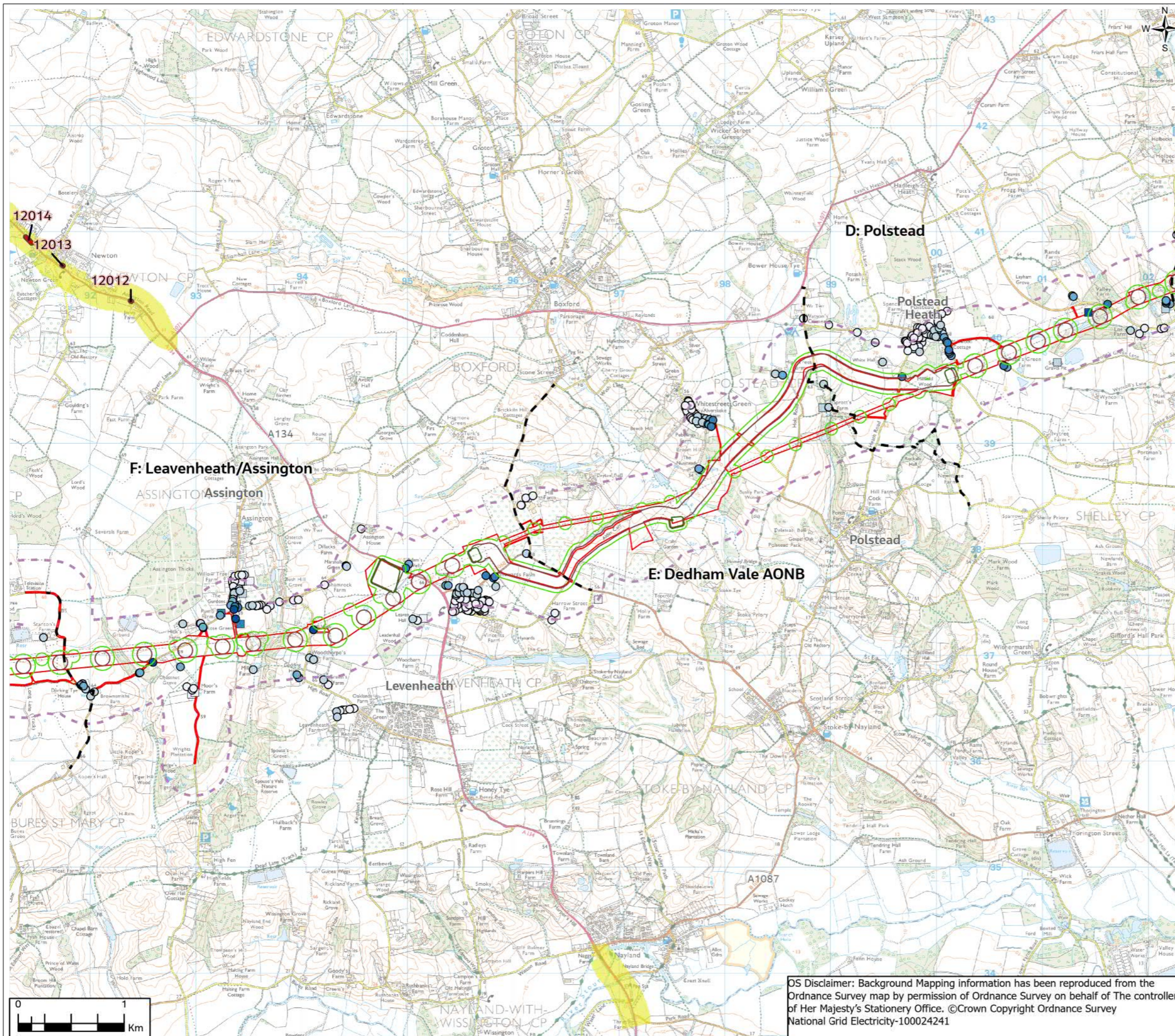
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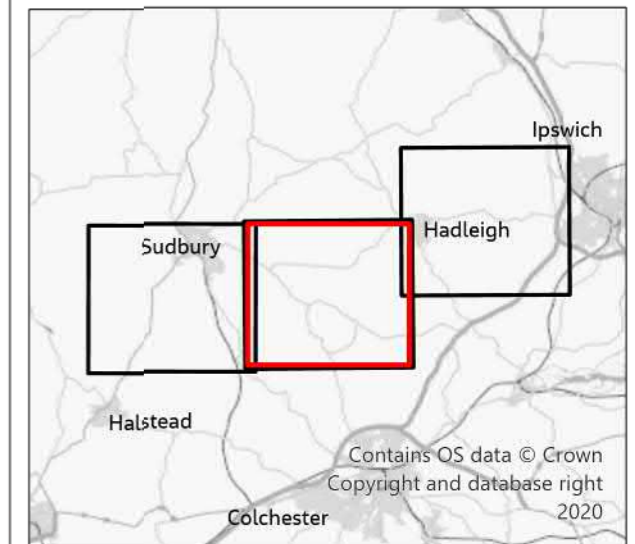
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FIGURE 14.1



- Legend**
- Section Boundaries
 - Draft Order Limits
 - ▨ Noise study area (300m)
 - ▭ Noise Significant Observed Adverse Effect Level SOAEL (Short Duration)
 - ▭ Noise SOAEL (Long Duration)
 - ▭ Vibration SOAEL (Short Duration)
 - Noise Important Area (NIA)
 - 11345 NIA reference number
 - Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Residential Receptors within 1km**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m
- Non-Residential Receptors within 1km**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m

Note: SOAEL layers are based on indicative pylon locations used to support the assessment. The project will be defining Limits of Deviation and therefore the indicative pylon locations could change



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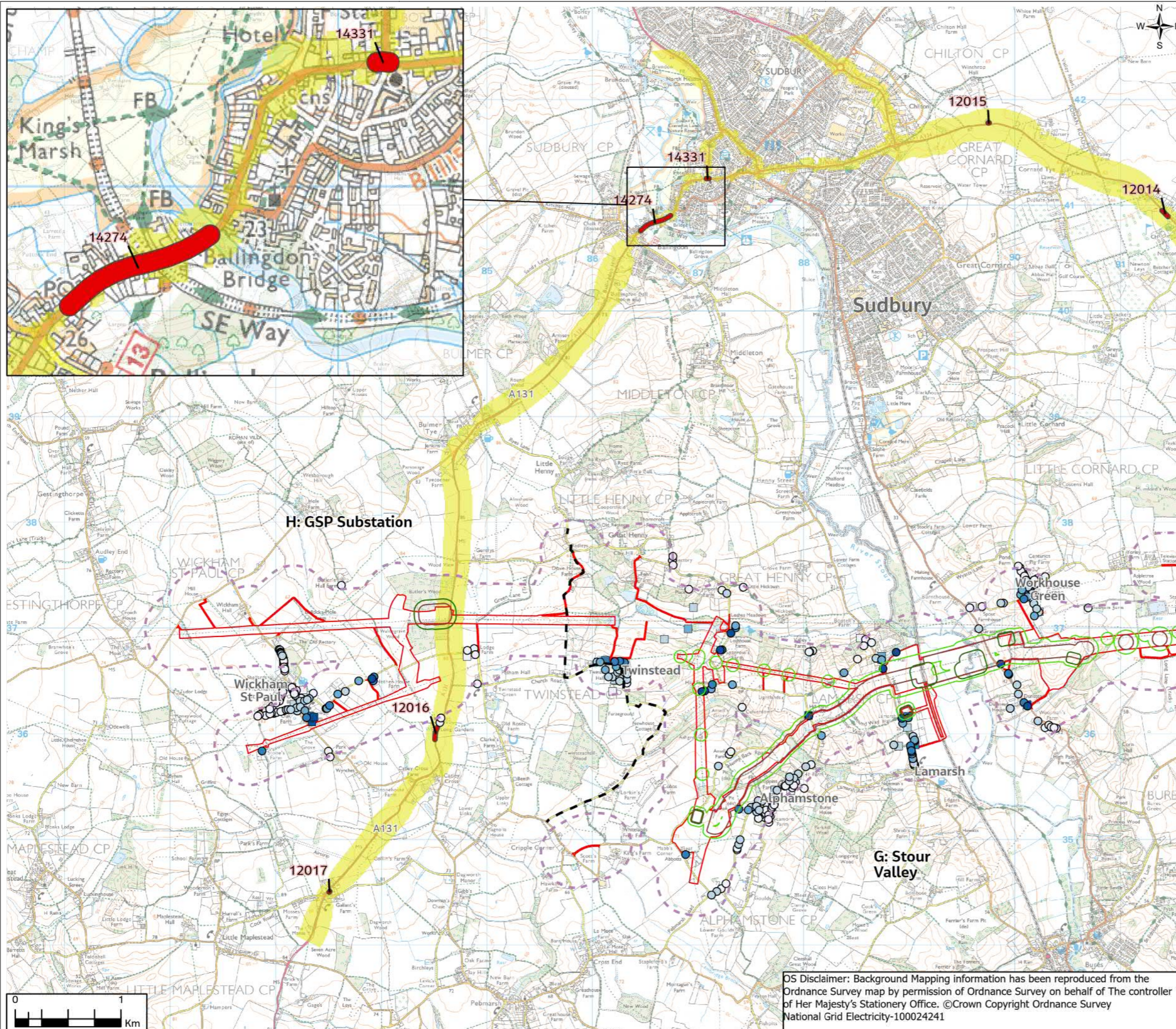
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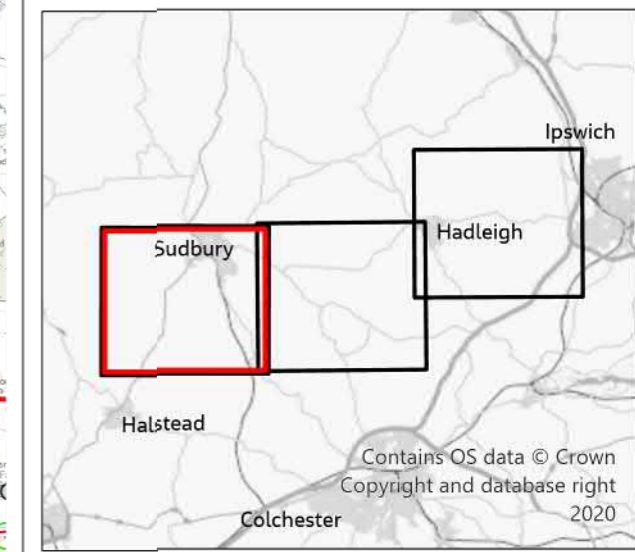
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FIGURE 14.1



- Legend**
- Section Boundaries
 - ▬ Draft Order Limits
 - ▬ Noise study area (300m)
 - ▬ Noise Significant Observed Adverse Effect Level SOAEL (Short Duration)
 - ▬ Noise SOAEL (Long Duration)
 - ▬ Vibration SOAEL (Short Duration)
 - Noise Important Area (NIA)
 - 11345 NIA reference number
 - Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Residential Receptors within 1km**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m
- Non-Residential Receptors within 1km**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m

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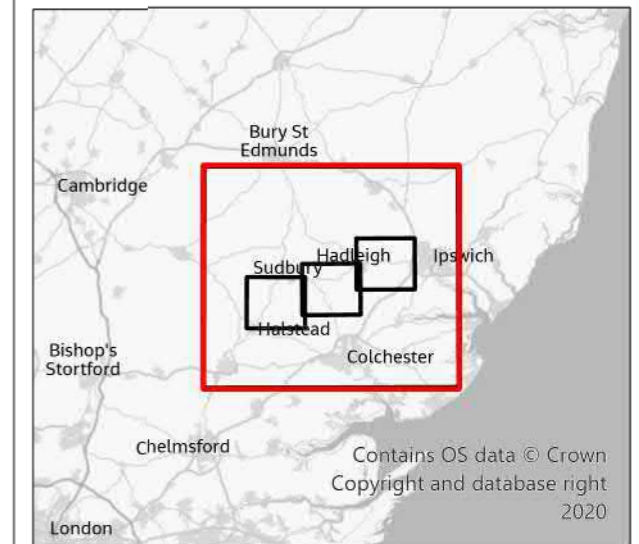
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FIGURE 15.1

Legend

- Section boundaries
- Draft Order Limits
- ▭ Study Area (10km)
- Applications within 1km**
- ▨ Planning applications - Long List (Stage 1)
- Planning applications - Short list (taken forward to Stage 3)
- Development Consent Orders
- Applications/Allocations between 1-10km**
- Development allocations
- Planning applications - Long list (Stage 1)
- Planning applications - Short list (taken forward to Stage 3)

NOTE:
 This 10km study area excludes significant urban areas, including Ipswich and south of the A17 (see Chapter 15: Cumulative Effects for details).
 The following proposed developments are excluded from the figure for clarity and/or lack of details on the location but are included within the long and short lists as appropriate: Anglian Water pipeline (ID 461), East Anglia Green (ID462 and 463) and three National Grid projects involving uprating of existing circuits (ID 465, 466 and 467).



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Drawing Title
 Cumulative Effects Long List of Proposed Developments

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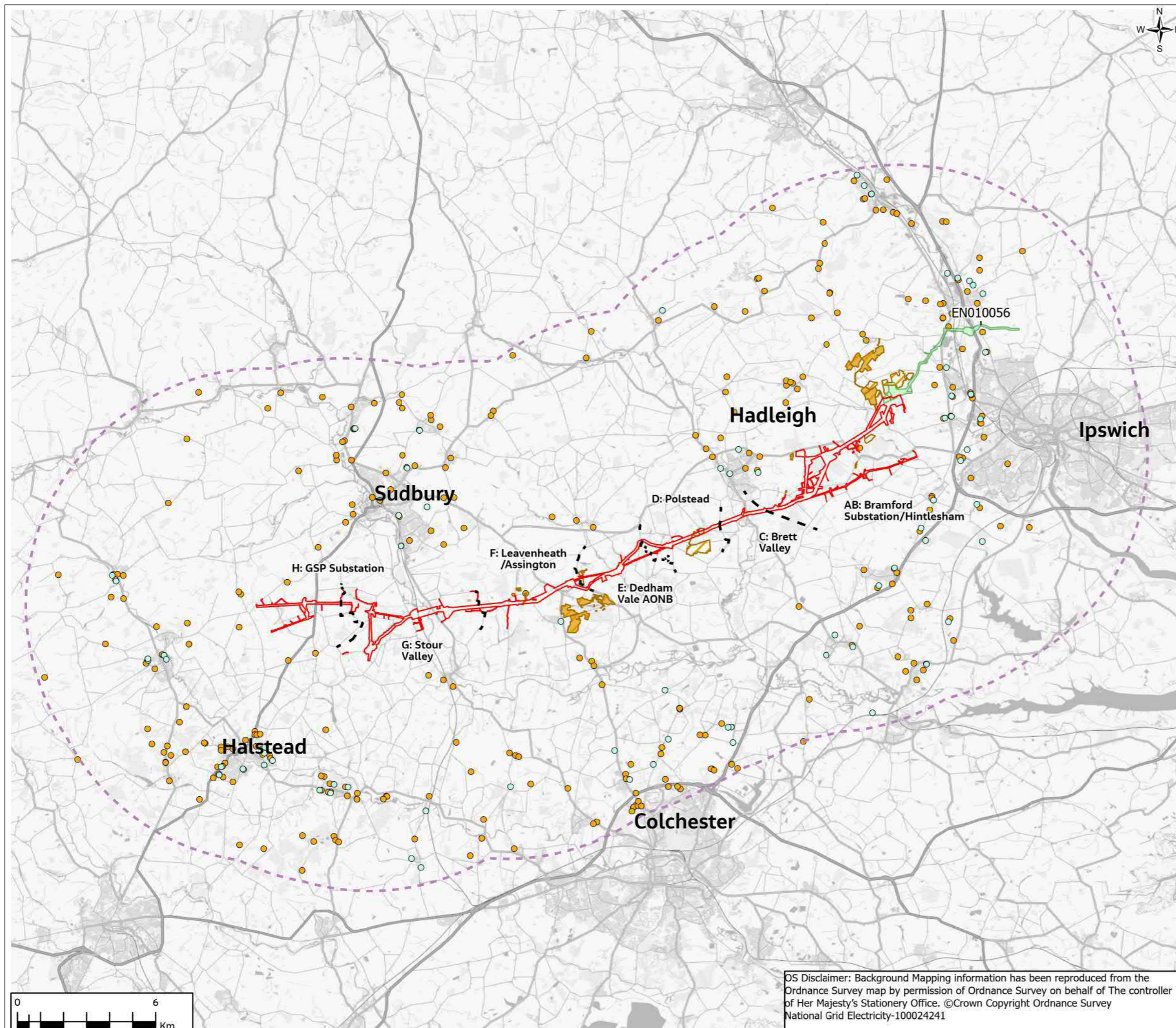
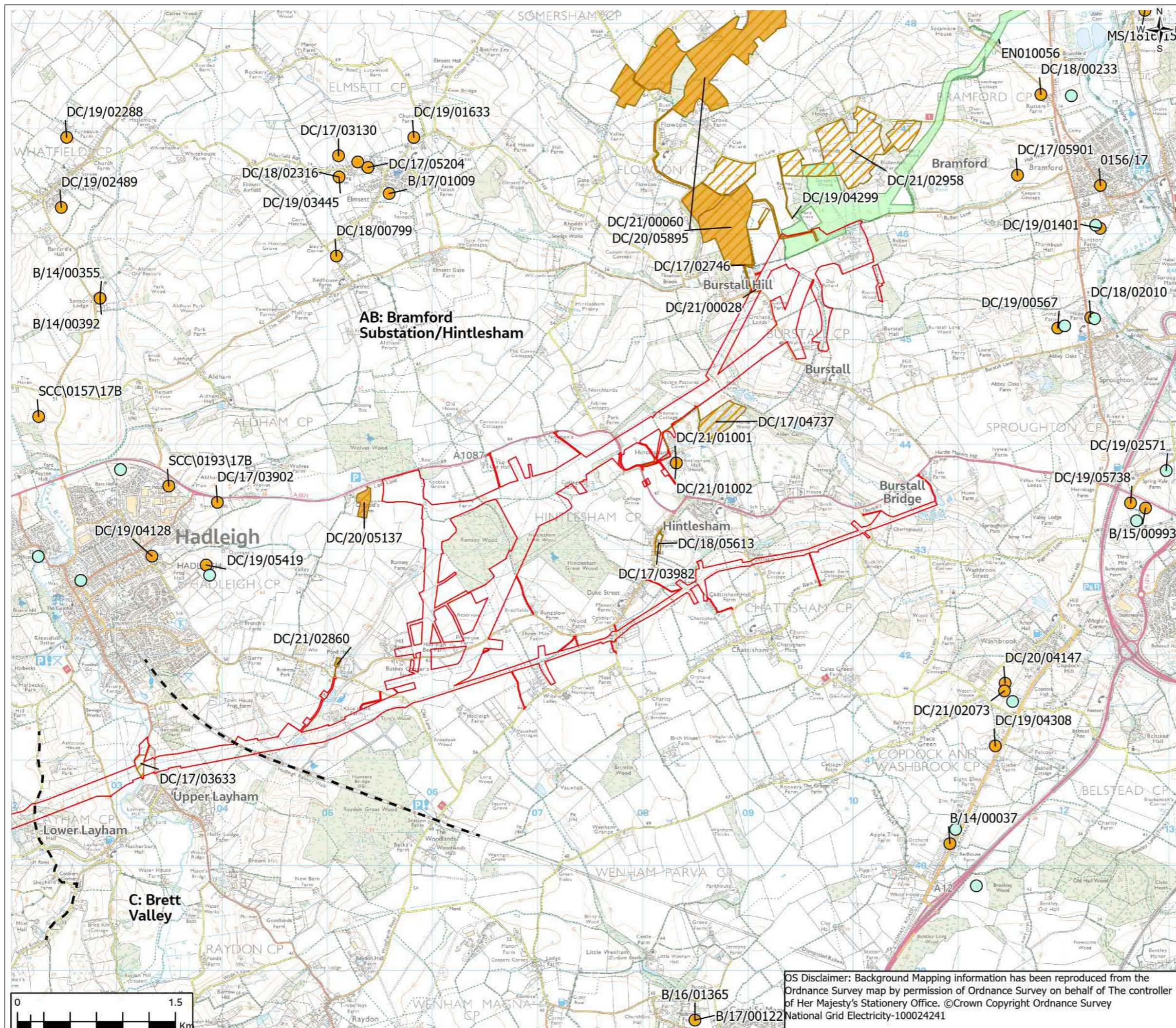


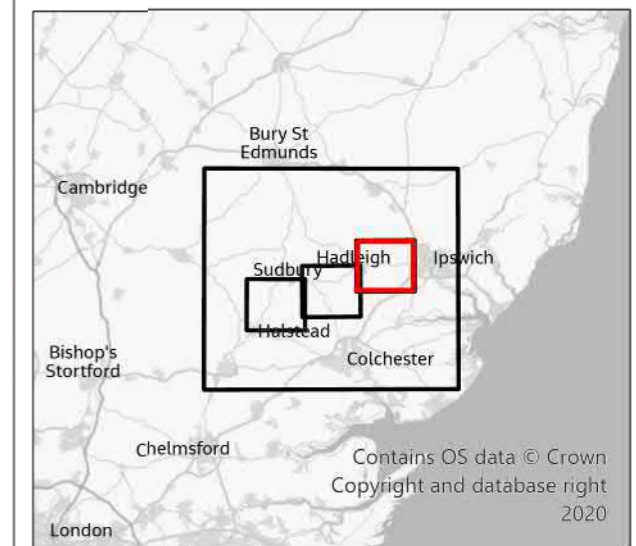
FIGURE 15.1



Legend

- Section boundaries
- Draft Order Limits
- ▭ Study Area (10km)
- Applications within 1km**
- ▨ Planning applications - Long List (Stage 1)
- ▩ Planning applications - Short list (taken forward to Stage 3)
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NOTE:
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Drawing Title: **Cumulative Effects Long List of Proposed Developments**

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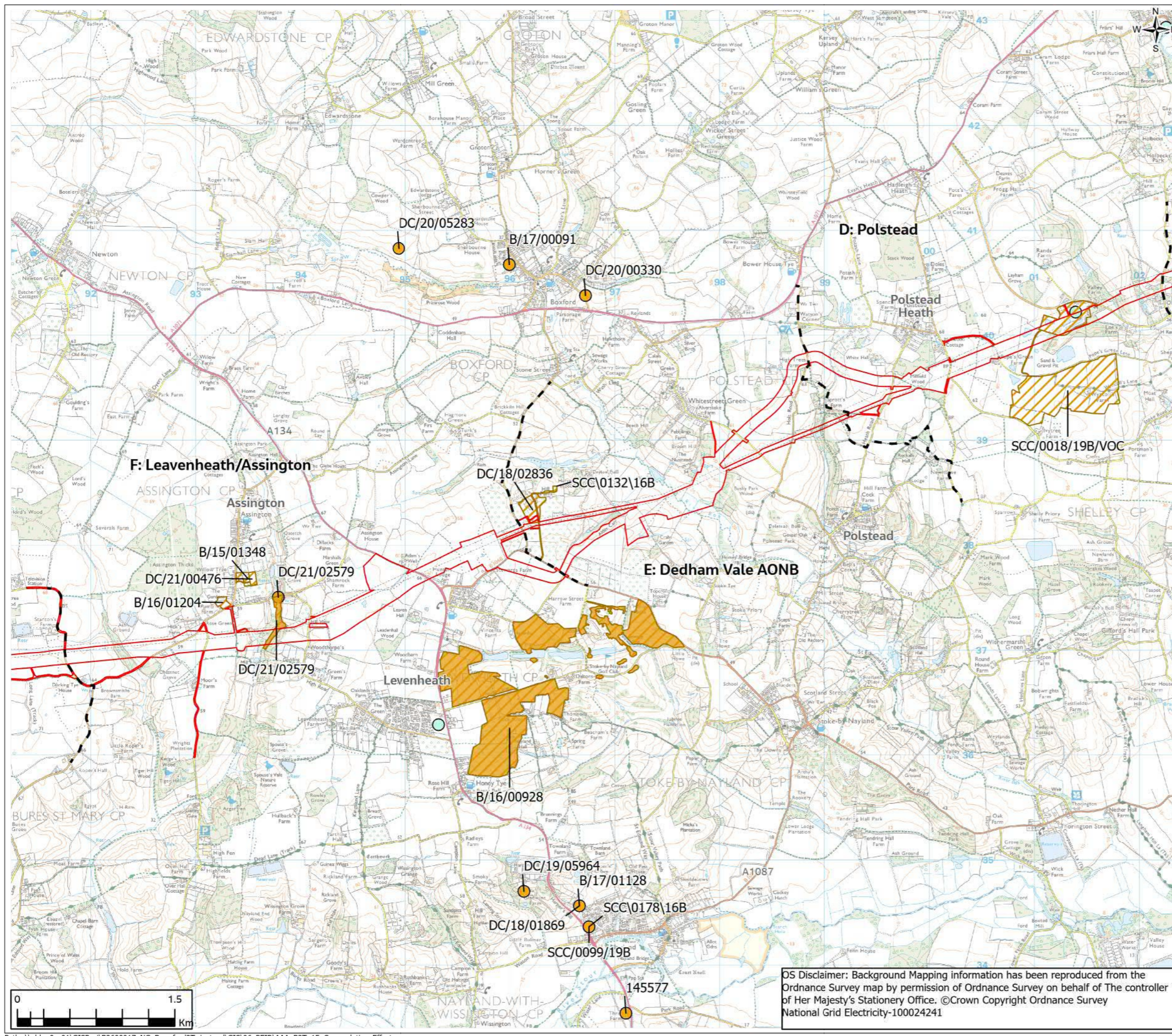
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Drawing No: **AAA_B2T_15_Cumulative_Effects**

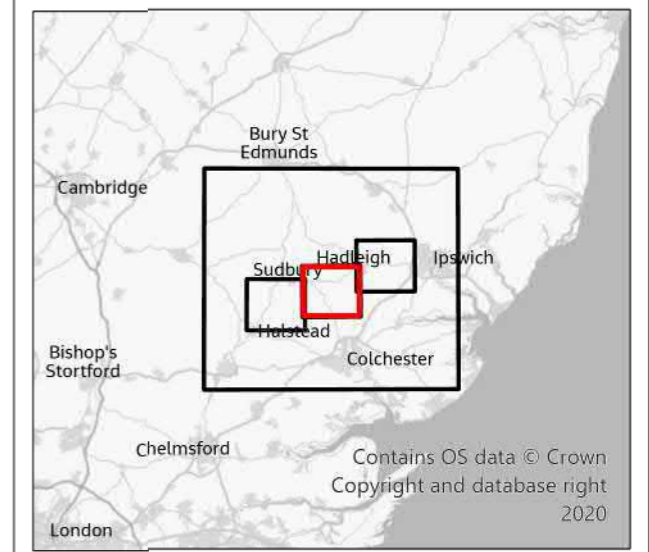
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FIGURE 15.1



- Legend**
- Section boundaries
 - ▭ Draft Order Limits
 - ▭ Study Area (10km)
- Applications within 1km**
- ▨ Planning applications - Long List (Stage 1)
 - ▨ Planning applications - Short list (taken forward to Stage 3)
 - ▭ Development Consent Orders
- Applications/Allocations between 1-10km**
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Drawing Title: **Cumulative Effects Long List of Proposed Developments**

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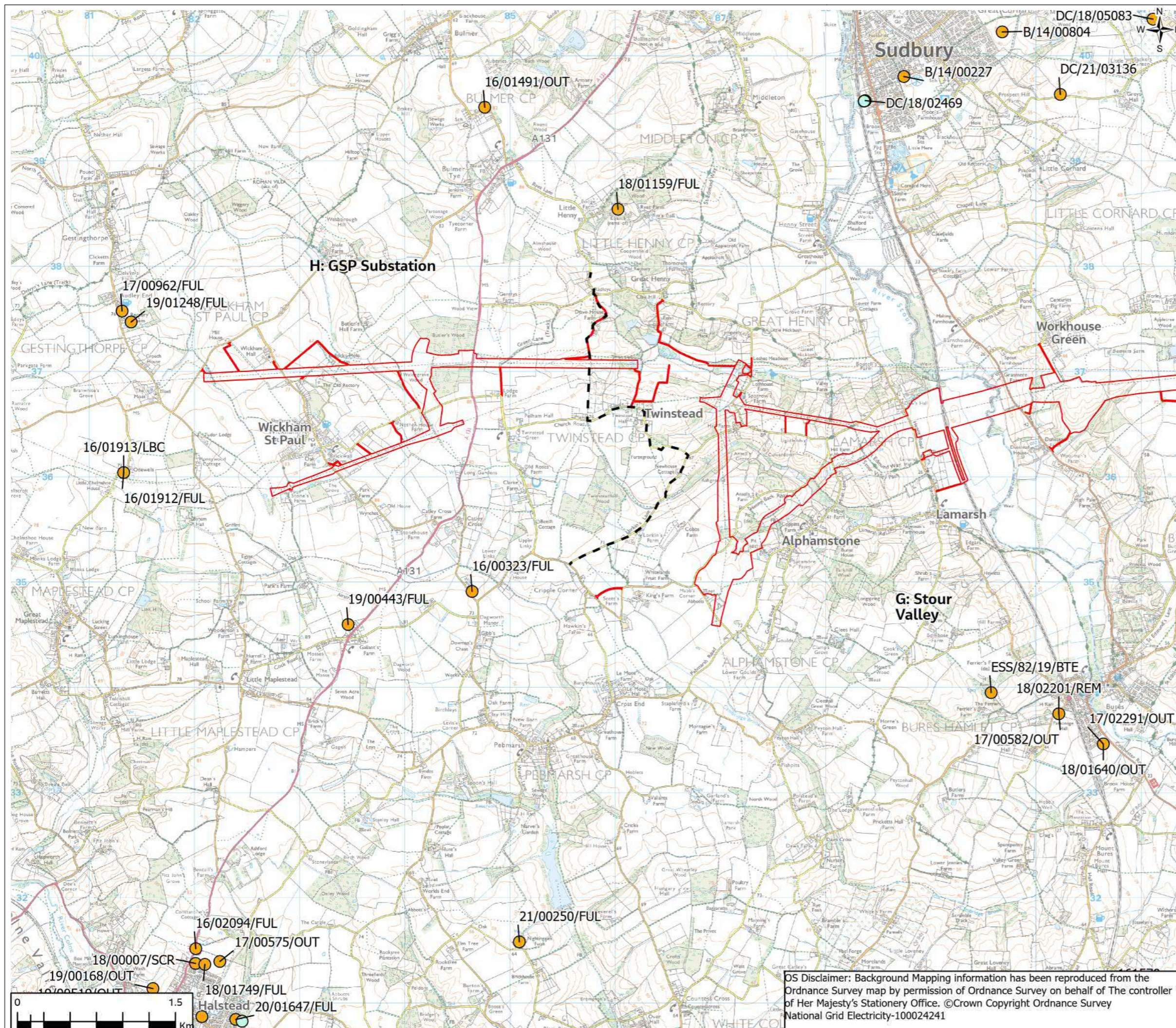
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Drawing No: **AAA_B2T_15_Cumulative_Effects**

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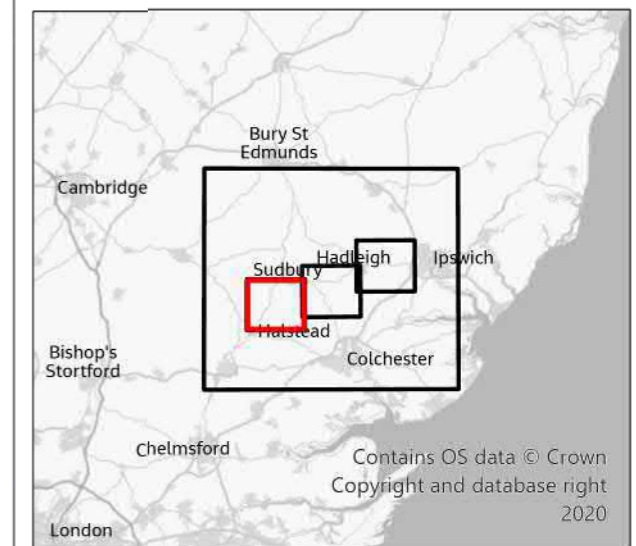
FIGURE 15.1



Legend

- Section boundaries
- Draft Order Limits
- ▭ Study Area (10km)
- Applications within 1km**
- ▨ Planning applications - Long List (Stage 1)
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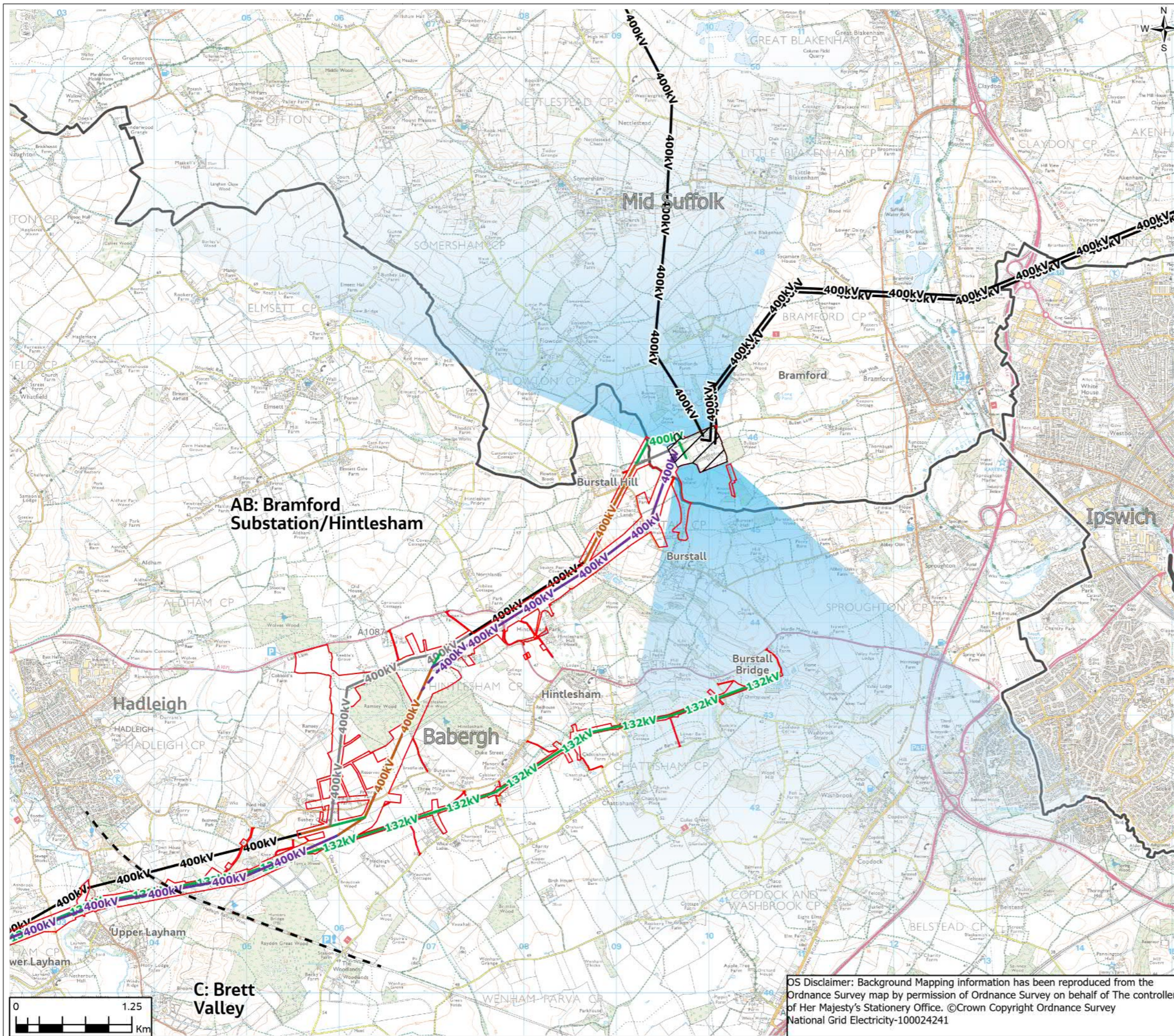
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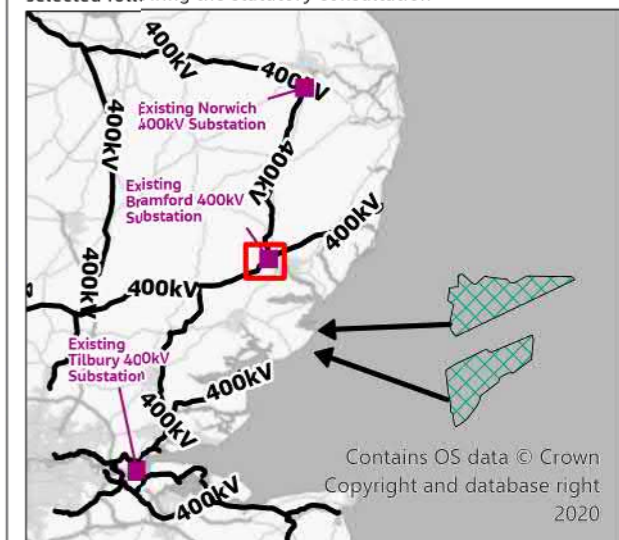
FIGURE 15.2



- Legend**
- Section boundaries
 - ▭ Local authority districts
 - ▭ Indicative approach to Bramford Substation for East Anglia GREEN
 - ▭ Windfarm Sites
 - ▭ Existing National Grid Network
 - ▭ Existing Bramford Substation
 - ▭ Draft Order Limits
 - Proposed overhead line
 - Proposed underground cables
 - Modification works to the existing overhead line
 - Proposed realignment of existing overhead line
 - Temporary 400kV overhead line during construction
 - Proposed overhead line removal features

These assumptions for East Anglia GREEN (ATNC and AENC in NOA 2021) have been made to support the statutory consultation on the Bramford to Twinstead Reinforcement. The actual East Anglia GREEN proposals taken forward will reflect the outcome of ongoing siting and routing work, environmental assessment and will be subject to separate consultation.

This figure has been produced to help communicate the information available for the preliminary cumulative effects assessment presented in the PEI Report. For simplicity, this only shows one Bramford to Twinstead option, in this case Option 1. The cumulative effects assessment presented within the Environmental Statement will be based on the option that is selected following the statutory consultation



1	01/2022	Draft	PM	TC	TC	CW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Client
nationalgrid

Project
 BRAMFORD TO TWINSTEAD

Drawing Title
 East Anglia GREEN Indicative Approach

Page 1 of 1

Drawing Status
 Draft

Scale @ A3
 1:40,000 DO NOT SCALE

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