



# Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment – Part 3 – Clean Version

**Book 5**

VERSION: 4.0

DATE: AUGUST 2024

Application Document Ref: 5.3

PINS Reference Number: TR020005





### Key

- Site boundary.
- Survey boundary.
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
  - Tree details estimate (inaccessible tree)
  - Tree in off site location
- T11 Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
- G1 Tree or Vegetation group with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
- H1 Hedge with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
- W1 Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.

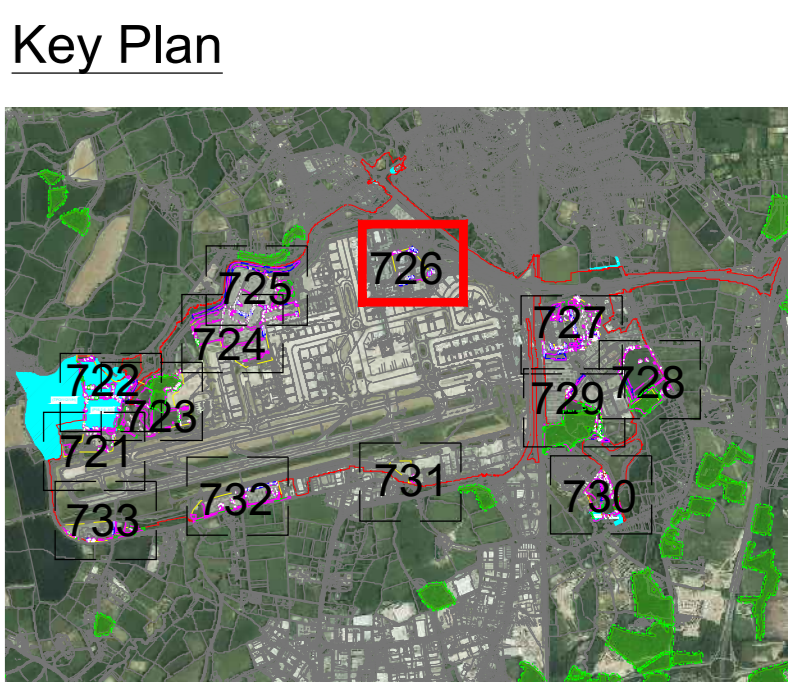
BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention

- Direction of first significant branch
- Root protection area (RPA). Calculated in accordance with Section 4.6 - BS5837:2012
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
- Tree protected by Tree Preservation Order. Bracketted number relates to the TPO reference.
- Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
- Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)

**NOTES:**

- Refer to ES Appendix 8.10.1. Tree Survey Report and Arboricultural Impact Assessment for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Survey based upon Aerial Photography and trees located by eye.



DOCUMENT

**Environmental Statement**

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DRAWING TITLE

**Airport Tree Survey Plans  
Appendix 8.10.1  
Sheet 6 of 13**

DATE

**August 2024**

ORIENTATION	DRAWING NO.	REVISION
N 	726	For ES Issue
	RC	PM / CHECKED BY DC

SCALE @ A0

0m      25m      50m

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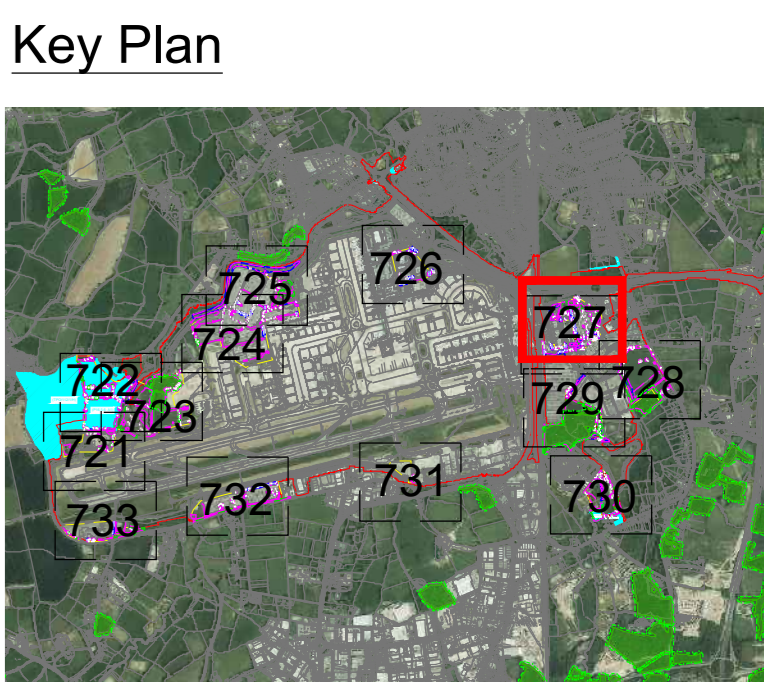
**BS 5837:2012 Tree Quality Categories - Table 1**

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention

- Direction of first significant branch
- RPA Root protection area (RPA). Calculated in accordance with Section 4.6 - BS5837:2012
- VTB Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
- TPO Tree protected by Tree Preservation Order. Bracketed number relates to the TPO reference.
- DAW Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
- AWTB Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)

**NOTES:**

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- Survey based upon Aerial Photography and trees located by eye.



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**Environmental Statement**

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Appendix 8.10.1  
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DATE  
**August 2024**

ORIENTATION	DRAWING NO.	REVISION
N ↑	727	For ES Issue
	DRAWN BY RC	PM / CHECKED BY DC

SCALE @ A0  
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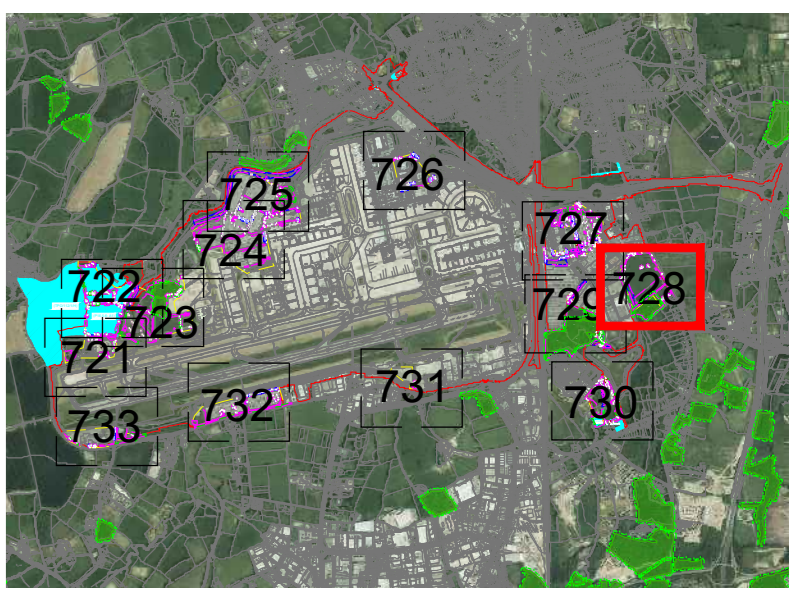


**Key**

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  - Tree or Vegetation group with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
  - Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below and dashed line to show hedge centerline.
  - Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.
- BS 5837:2012 Tree Quality Categories - Table 1**
- Category A - High quality
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- Direction of first significant branch
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  - Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
  - Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)

- NOTES:**
- Refer to ES Appendix 8.10.1, Tree Survey Report and Arboricultural Impact Assessment for further details.
  - Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
  - Plan produced in accordance with recommendations set out in BS 5837:2012, 'Trees in Relation to design, demolition and construction'.
  - Survey based upon Aerial Photography and trees located by eye.

**Key Plan**



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**Airport Tree Survey Plans  
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Sheet 8 of 13**

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**ORIENTATION**



**DRAWING NO.**

**728**

**REVISION**

**For ES Issue**

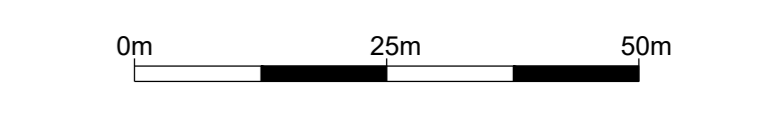
**DRAWN BY**

**RC**

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**DC**

**SCALE @ A0**



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- Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.

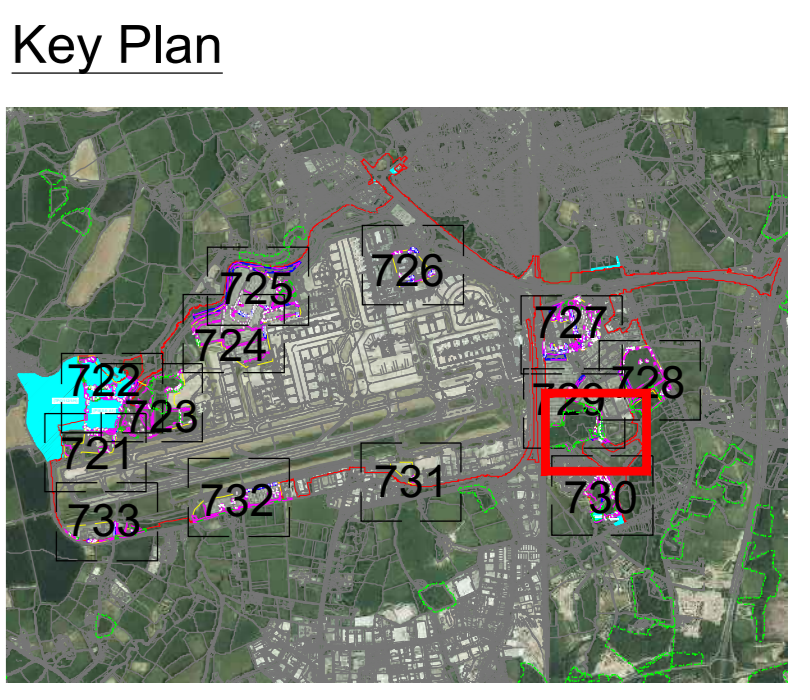
**BS 5837:2012 Tree Quality Categories - Table 1**

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**Environmental Statement**

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Sheet 9 of 13**

DATE

**August 2024**

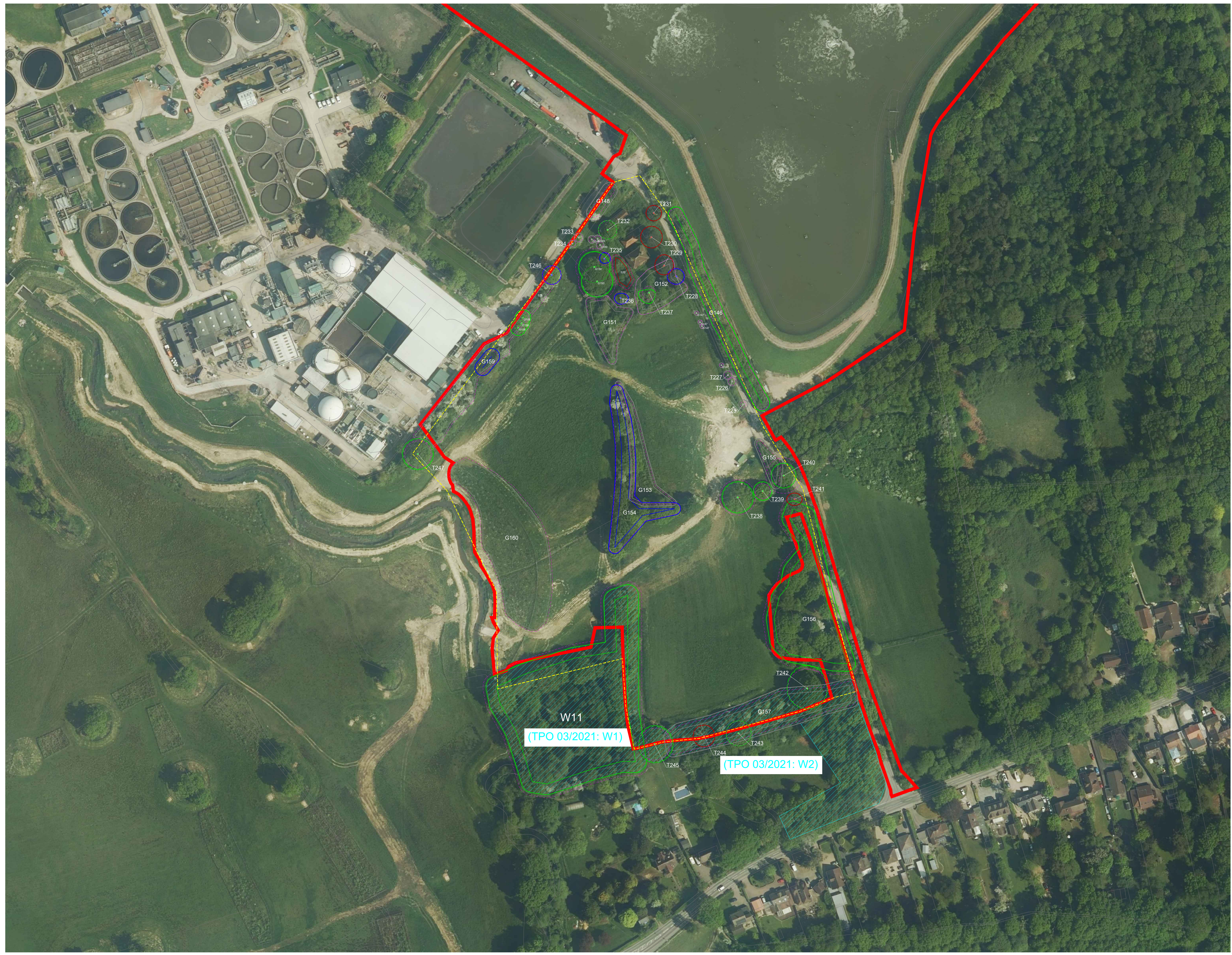
ORIENTATION	DRAWING NO.	REVISION
	729	For ES Issue
SCALE @ A0	DRAWN BY	PM / CHECKED BY
	RC	DC

SCALE @ A0

0m 25m 50m

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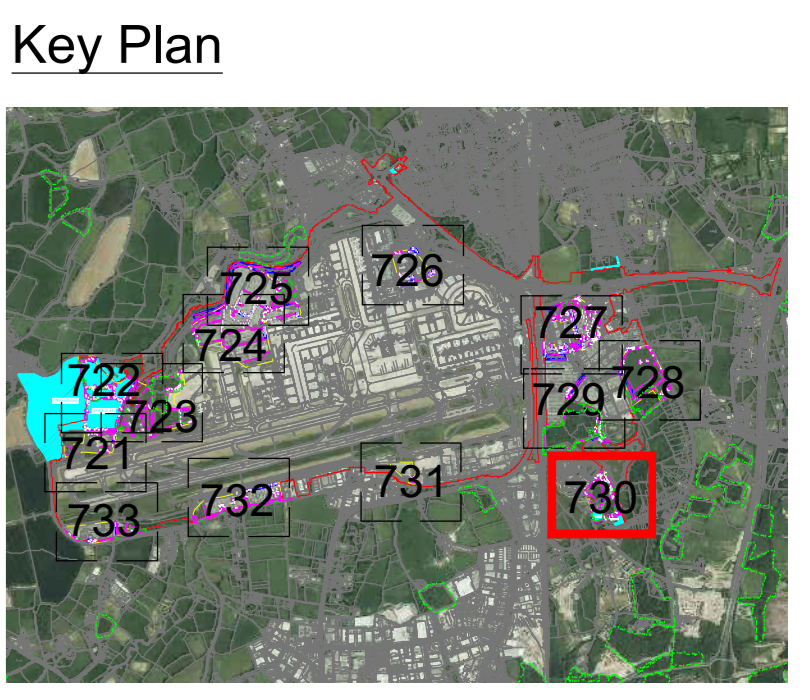
**BS 5837:2012 Tree Quality Categories - Table 1**

- Category A - High quality
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- Direction of first significant branch
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- Tree protected by Tree Preservation Order. Bracketted number relates to the TPO reference.
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**NOTES:**

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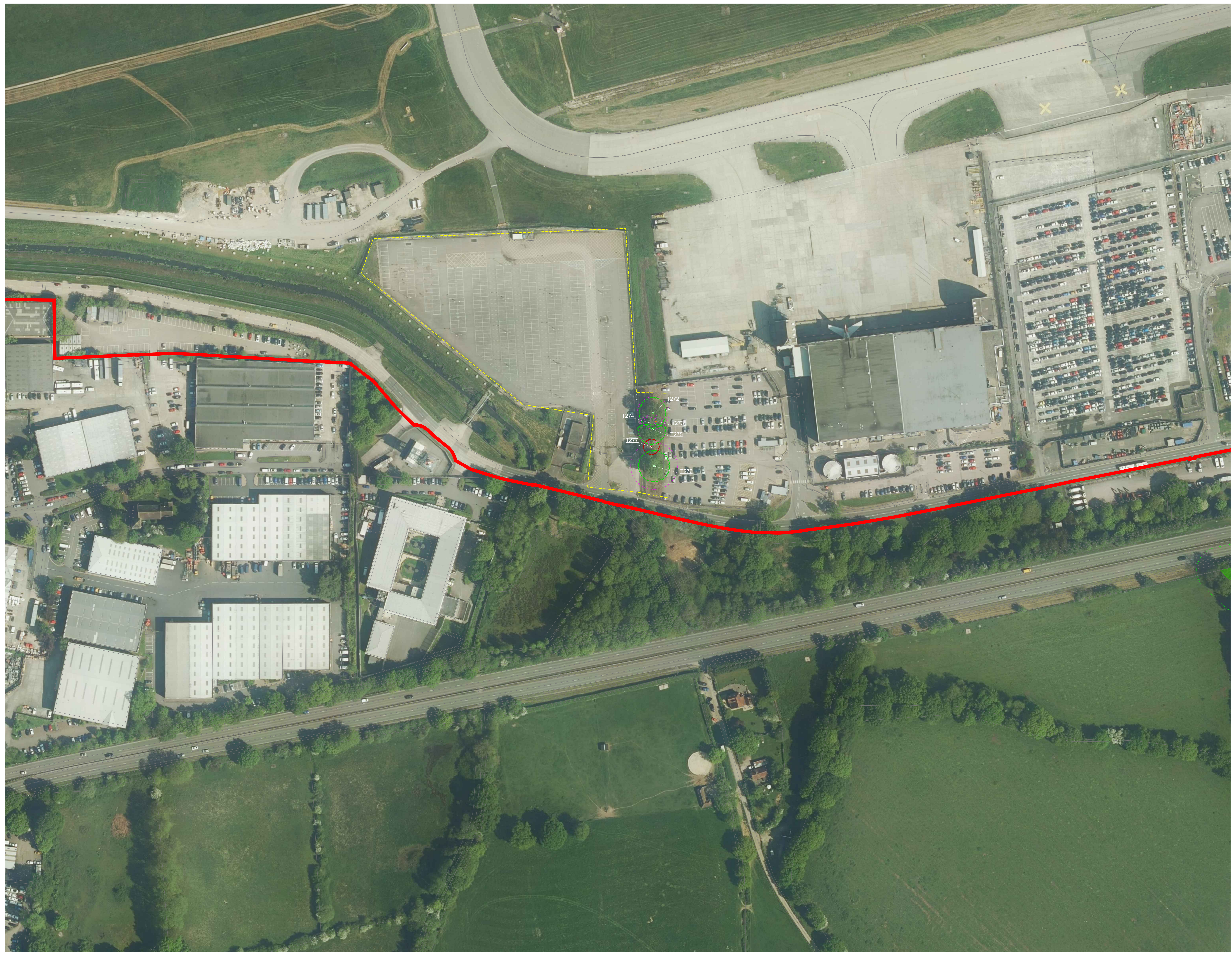
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**Environmental Statement**

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**Airport Tree Survey Plans  
Appendix 8.10.1  
Sheet 10 of 13**

DATE  
**August 2024**

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	DRAWN BY <b>RC</b>	PM / CHECKED BY <b>DC</b>

SCALE @ A0  
0m 25m 50m



**Key**

- Site boundary.
- Survey boundary.
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
  - = Tree details estimate (inaccessible tree)
  - = Tree in off site location
- Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
- Hedge with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centerline.
- Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.

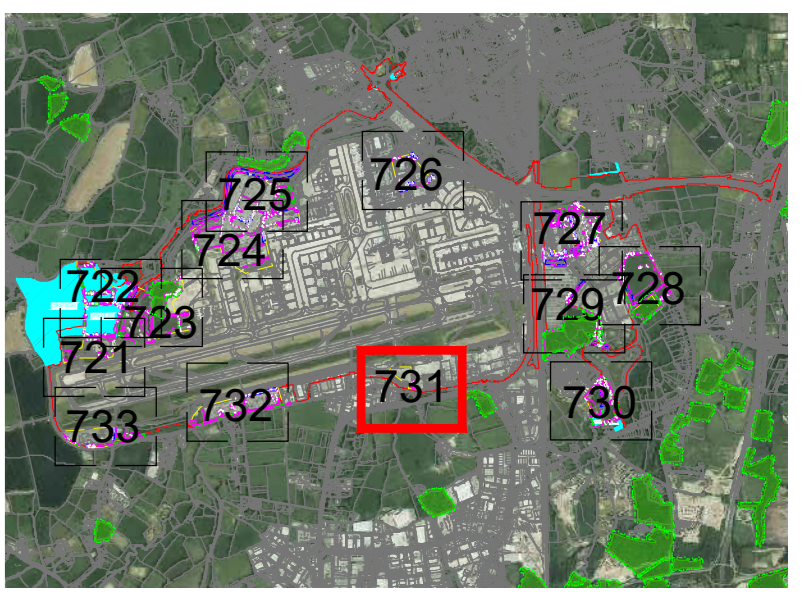
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- Direction of first significant branch
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**Key Plan**



**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

Airport Tree Survey Plans  
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Sheet 11 of 13

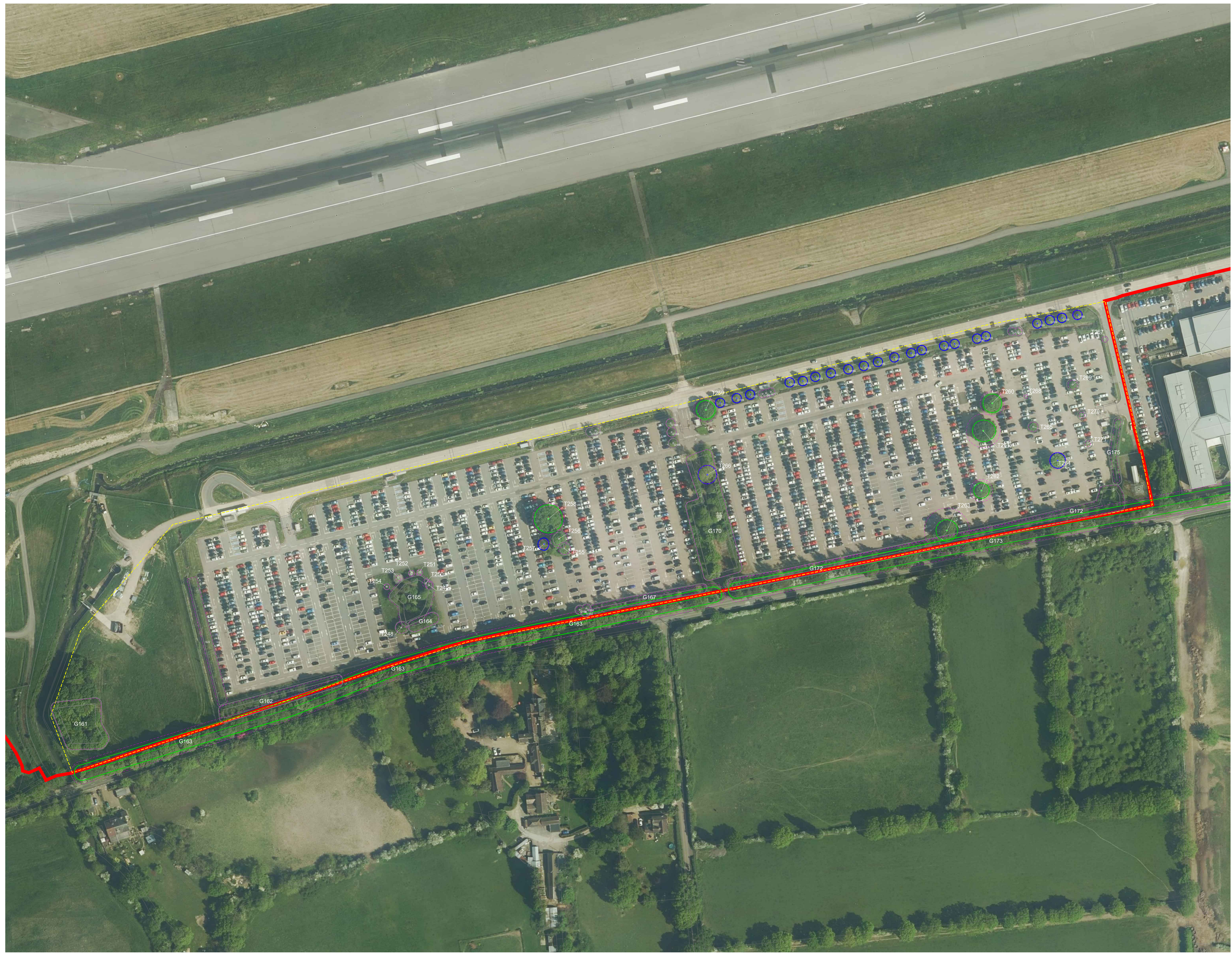
DATE August 2024

N ↑	ORIENTATION	DRAWING NO.	REVISION
		731	For ES Issue
	DRAWN BY	PM / CHECKED BY	
	RC	DC	

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0m 25m 50m

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**Key**

- Site boundary.
- Survey boundary.
- Tree with numbered reference.  
Canopy spread and coloured BS5837:2012 tree quality category as shown below.  
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- Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below.
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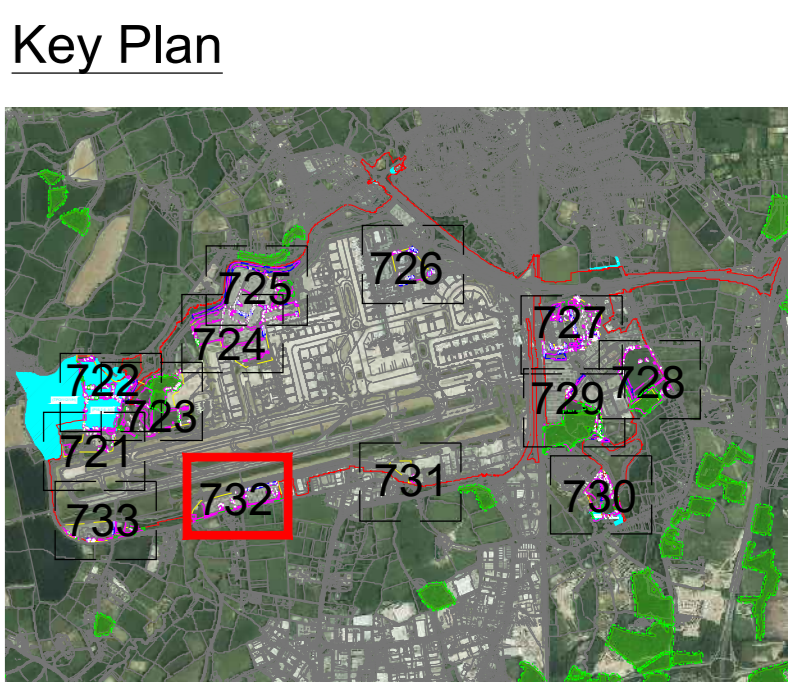
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- Category A - High quality
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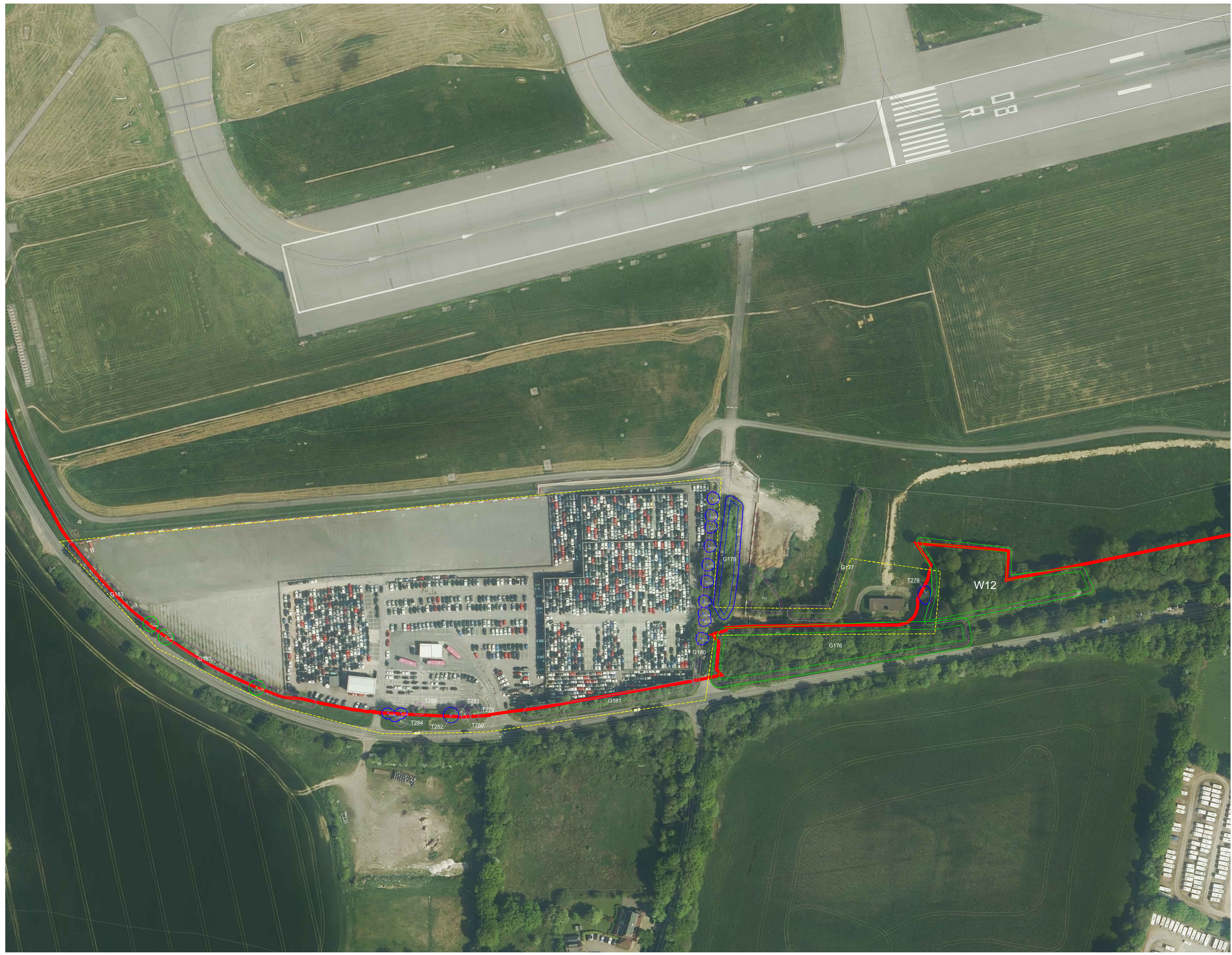
**Airport Tree Survey Plans  
Appendix 8.10.1  
Sheet 12 of 13**

DATE **August 2024**

ORIENTATION N ▲	DRAWING NO. <b>732</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>RC</b>	PM / CHECKED BY <b>DC</b>

SCALE @ A0  
0m 25m 50m

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- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below and dashed line to show hedge centerline.
- Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.

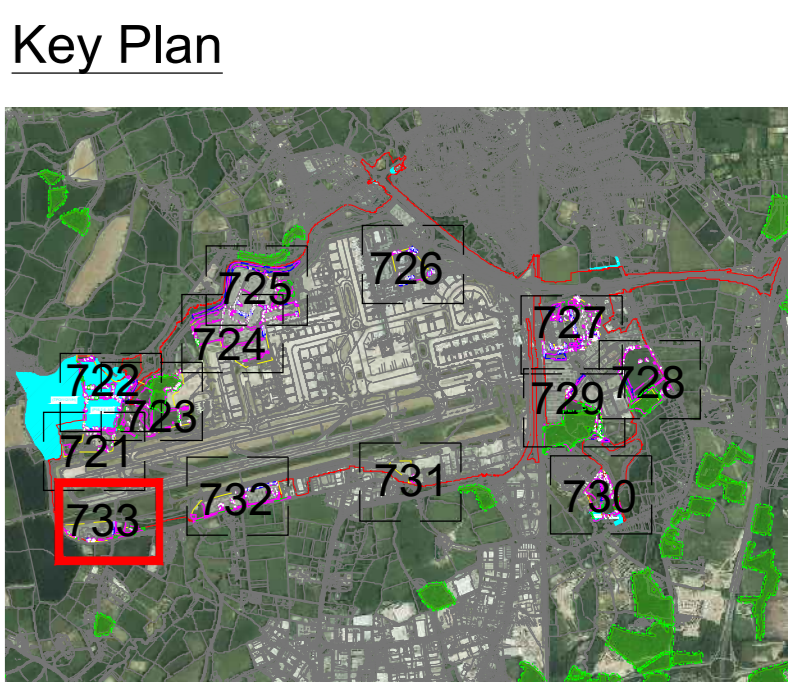
**BS 5837:2012 Tree Quality Categories - Table 1**

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention

- Direction of first significant branch
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- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
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**Airport Tree Survey Plans  
Appendix 8.10.1  
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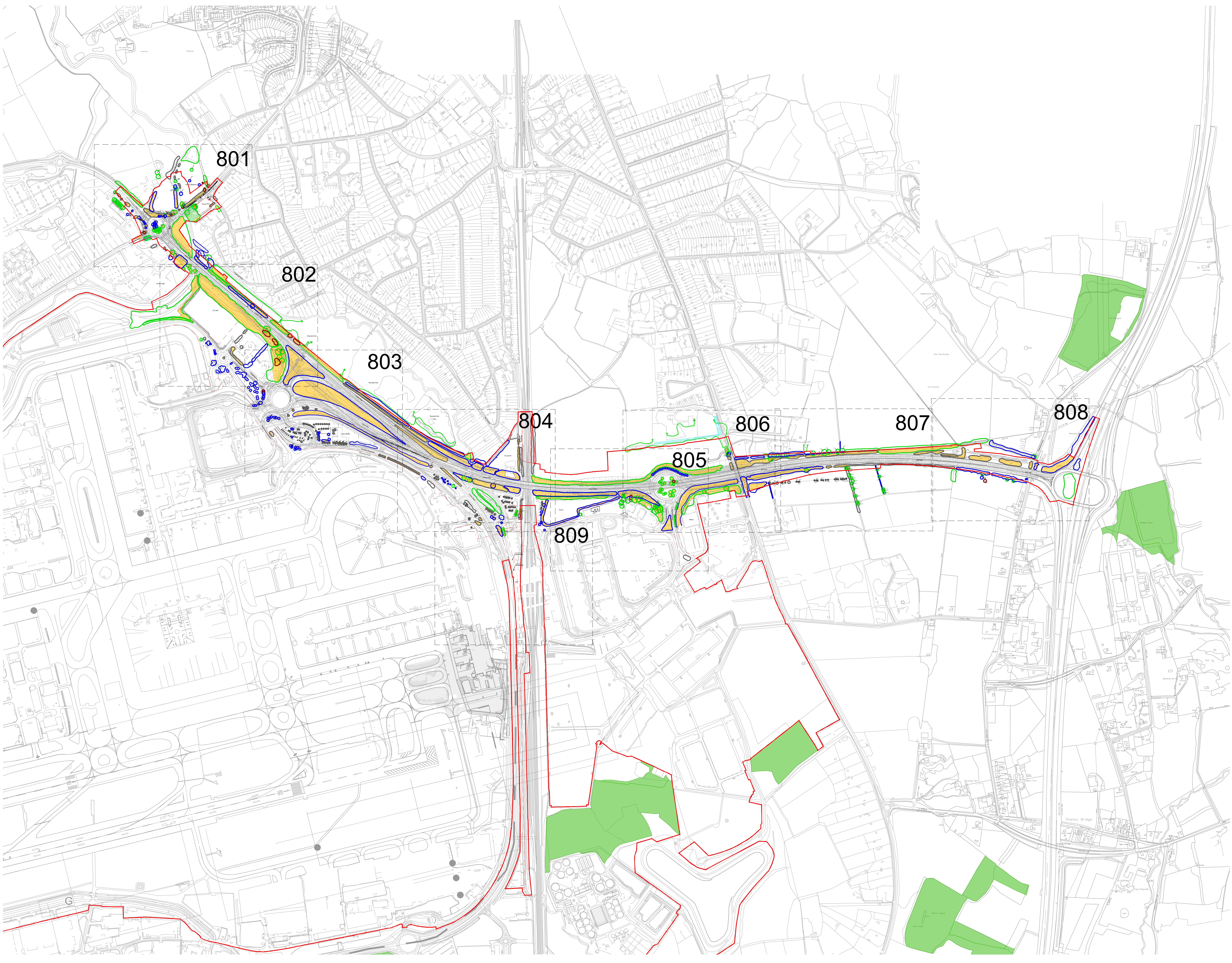
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N	733	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC

SCALE @ A0

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Appendix H  
M23 & A23 Preliminary Tree Removal Plans



**Key**

- Site Boundary
- Survey Boundary / Boundary of M23/A23 construction activity
- Projected Tree loss required for construction (Worst Case Scenario)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree) \* = Tree in off site location
- G1 Vegetation group with numbered reference. Canopy extents and BS5837:2012 tree quality category as shown below.
- H1 Hedge with numbered reference. Width and BS5837:2012 tree quality category as shown below.

BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention

Tree protected by Tree Preservation Order. Bracketted number relates to the TPO reference.

**NOTE:**

- \* Refer to ES Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment for further details.

DOCUMENT

**Environmental Statement**

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DRAWING TITLE

**M23 & A23 Preliminary Tree Removal Plans  
Appendix 8.10.1  
Overview**

DATE

**August 2024**

ORIENTATION	DRAWING NO.	REVISION
N ▲	800	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC

SCALE @ A0

**Custom Scale**