



# Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 8.10.1 – Tree Survey Report and Arboricultural Impact Assessment – Part 2 - Clean Version

**Book 5**



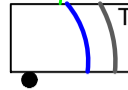
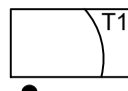
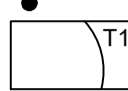

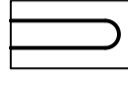
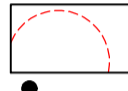
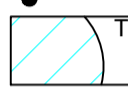
VERSION: 3.0

DATE: JUNE 2024

Application Document Ref: 5.3

PINS Reference Number: TR020005

**Key**

-  Site boundary.
  -  Survey Boundary / Boundary of M23/A23 construction activity
  -  Tree with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
  -  Tree (location estimated) with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  -  Tree off-site with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  -  Vegetation group with numbered reference. Canopy extents and BS5837:2012 tree quality category as shown below.
  -  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
-  Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
  -  Tree protected by Tree Preservation Order. Bracketed number relates to the TPO reference.

**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'.

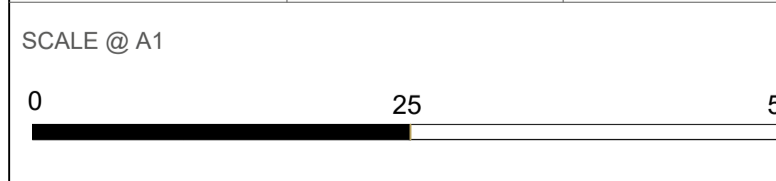


DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Tree Survey Plans  
Appendix 8.10.1  
Sheet 10 of 15**


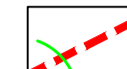

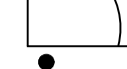
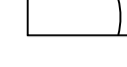
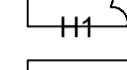
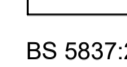




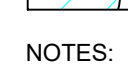
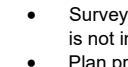
DATE  
**June 2024**

ORIENTATION 	DRAWING NO. <b>710</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>SH</b>	PM / CHECKED BY <b>PE</b>



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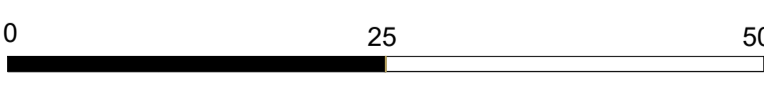
**Key**

-  Site boundary.
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  -  Tree (location estimated) with numbered reference. Canopy spread and BS5837:2012 tree quality category.
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  -  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
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  -  Category C - Low quality
  -  Category U - Unsuitable for retention
-  Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
  -  Tree protected by Tree Preservation Order. Bracketted number relates to the TPO reference.

**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'.



DOCUMENT		
<b>Environmental Statement</b>		
DRAWING TITLE <b>M23 &amp; A23 Tree Survey Plans Appendix 8.10.1 Sheet 11 of 15</b>		
DATE <b>June 2024</b>		
ORIENTATION	DRAWING NO. <b>711</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>SH</b>	PM / CHECKED BY <b>PE</b>
SCALE @ A1		
		

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

**NOTES:**

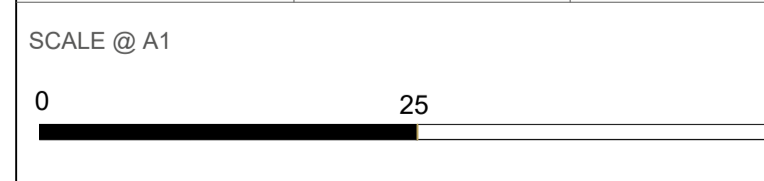
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DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Tree Survey Plans**  
Appendix 8.10.1  
Sheet 12 of 15

DATE  
**June 2024**

ORIENTATION 	DRAWING NO. <b>712</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>SH</b>	PM / CHECKED BY <b>PE</b>



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### Key

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  - Vegetation group with numbered reference. Canopy extents and BS5837:2012 tree quality category as shown below.
  - Hedge with numbered reference. Width and BS5837:2012 tree quality category as shown below.
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  - Category C - Low quality
  - Category U - Unsuitable for retention
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
  - Tree protected by Tree Preservation Order. Bracketed number relates to the TPO reference.

- 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'.



DOCUMENT

**Environmental Statement**

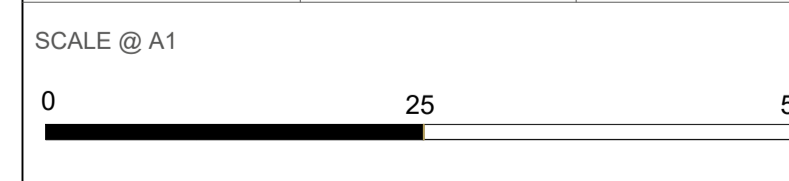
DRAWING TITLE

**M23 & A23 Tree Survey Plans**  
 Appendix 8.10.1  
 Sheet 13 of 15

DATE

**June 2024**

ORIENTATION 	DRAWING NO.	REVISION
	713	For ES Issue
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	SH	PE



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- Vegetation group with numbered reference. Canopy extents and BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Width and BS5837:2012 tree quality category as shown below.

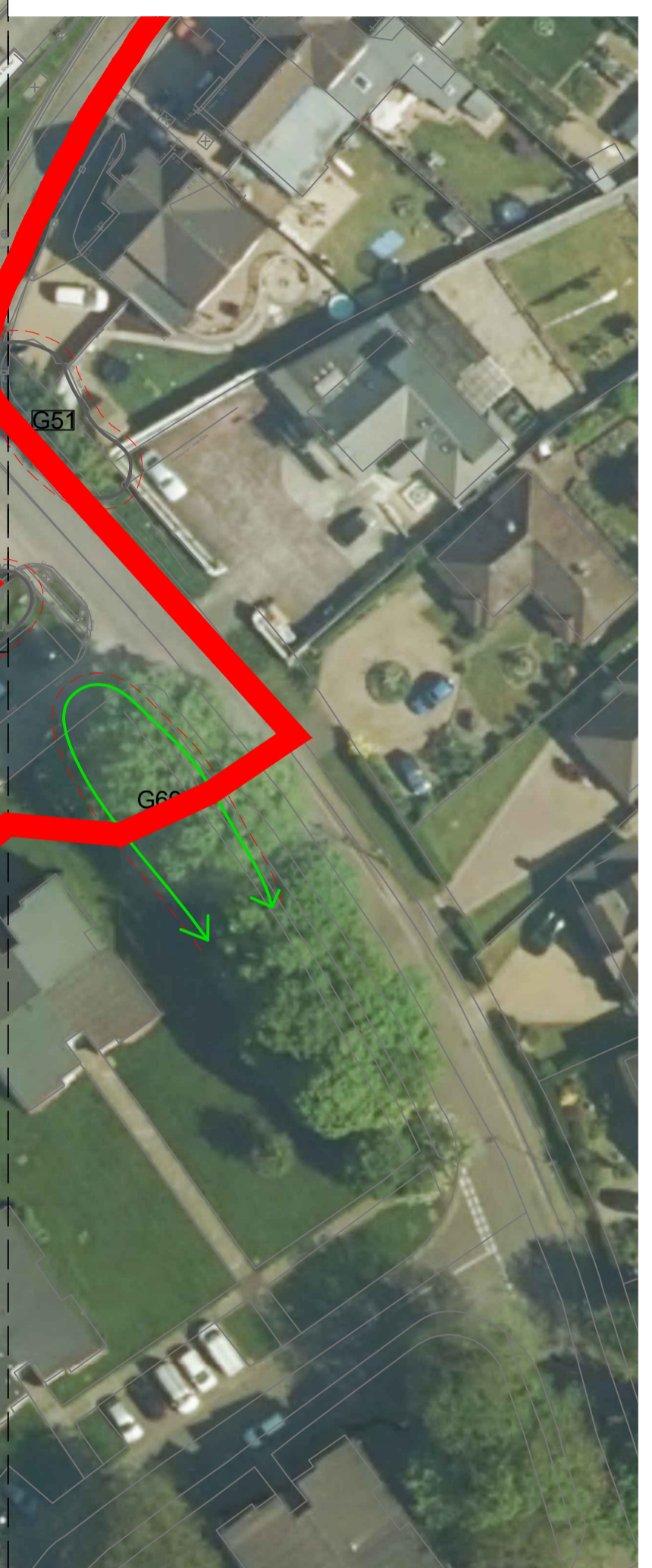
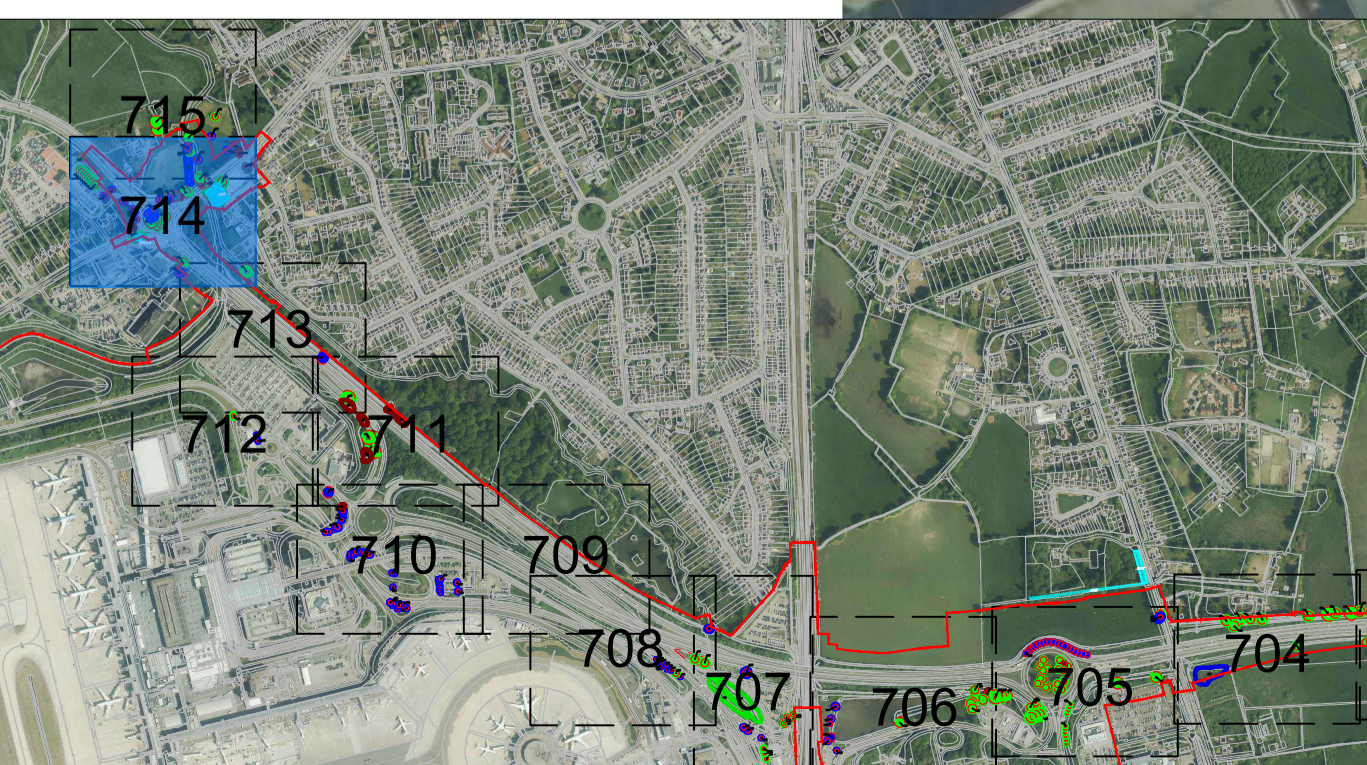
**BS 5837:2012 Tree Quality Categories - Table 1**

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

- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
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**NOTES:**

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DOCUMENT

**Environmental Statement**

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DRAWING TITLE  
**M23 & A23 Tree Survey Plans**  
 Appendix 8.10.1  
 Sheet 14 of 15

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DATE  
 June 2024

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ORIENTATION N 	DRAWING NO. 714	REVISION For ES Issue
	DRAWN BY SH	PM / CHECKED BY PE



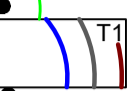








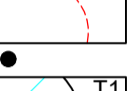
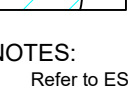
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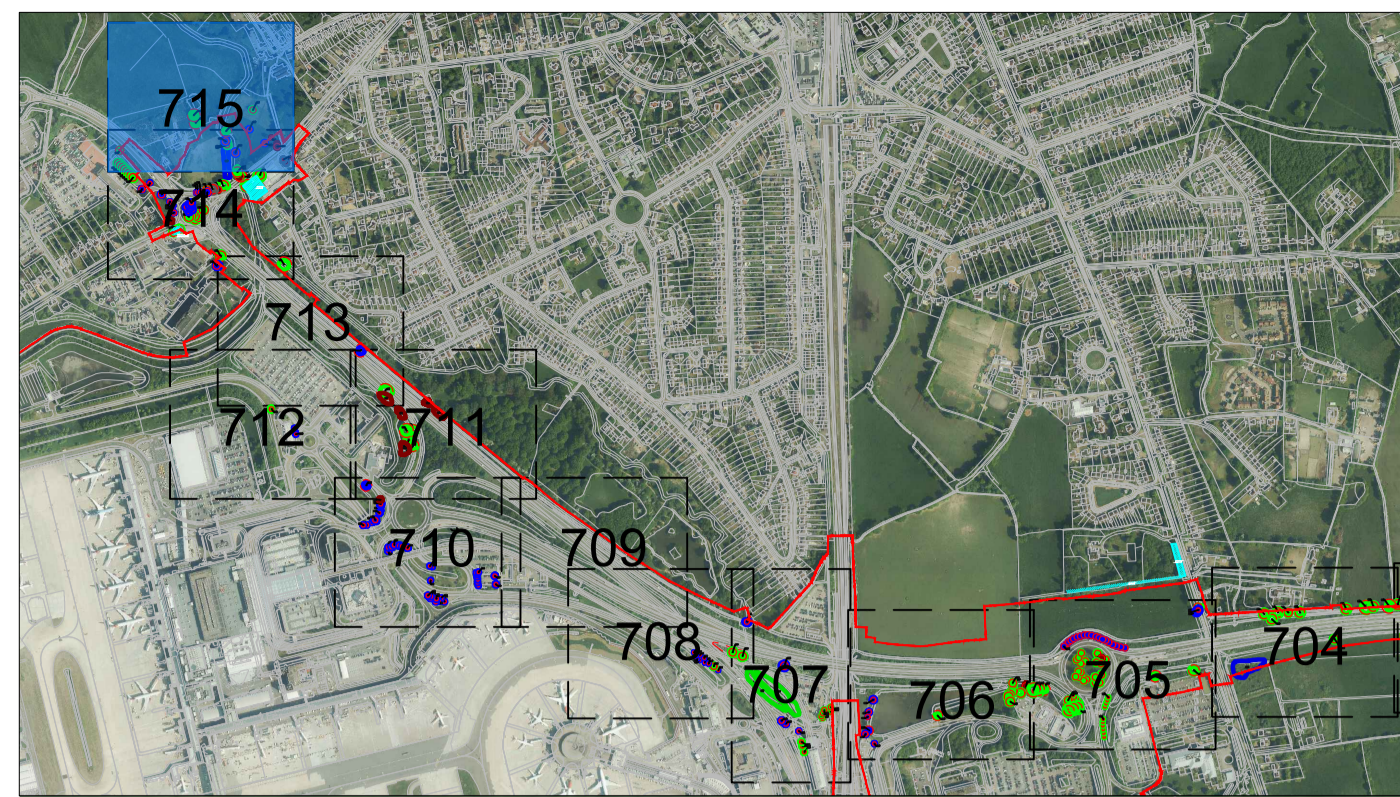
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**Key**

-  Site boundary.
  -  Survey Boundary / Boundary of M23/A23 construction activity
  -  Tree with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
  -  Tree (location estimated) with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  -  Tree off-site with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  -  Vegetation group with numbered reference. Canopy extents and BS5837:2012 tree quality category as shown below.
  -  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
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**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.
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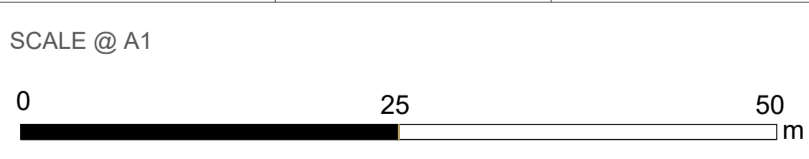


DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Tree Survey Plans  
Appendix 8.10.1  
Sheet 15 of 15**

DATE  
**June 2024**

ORIENTATION 	DRAWING NO. <b>715</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>SH</b>	PM / CHECKED BY <b>PE</b>



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Appendix G  
Airport Tree Survey Plans





**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.
- 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 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.

**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  
Overview**

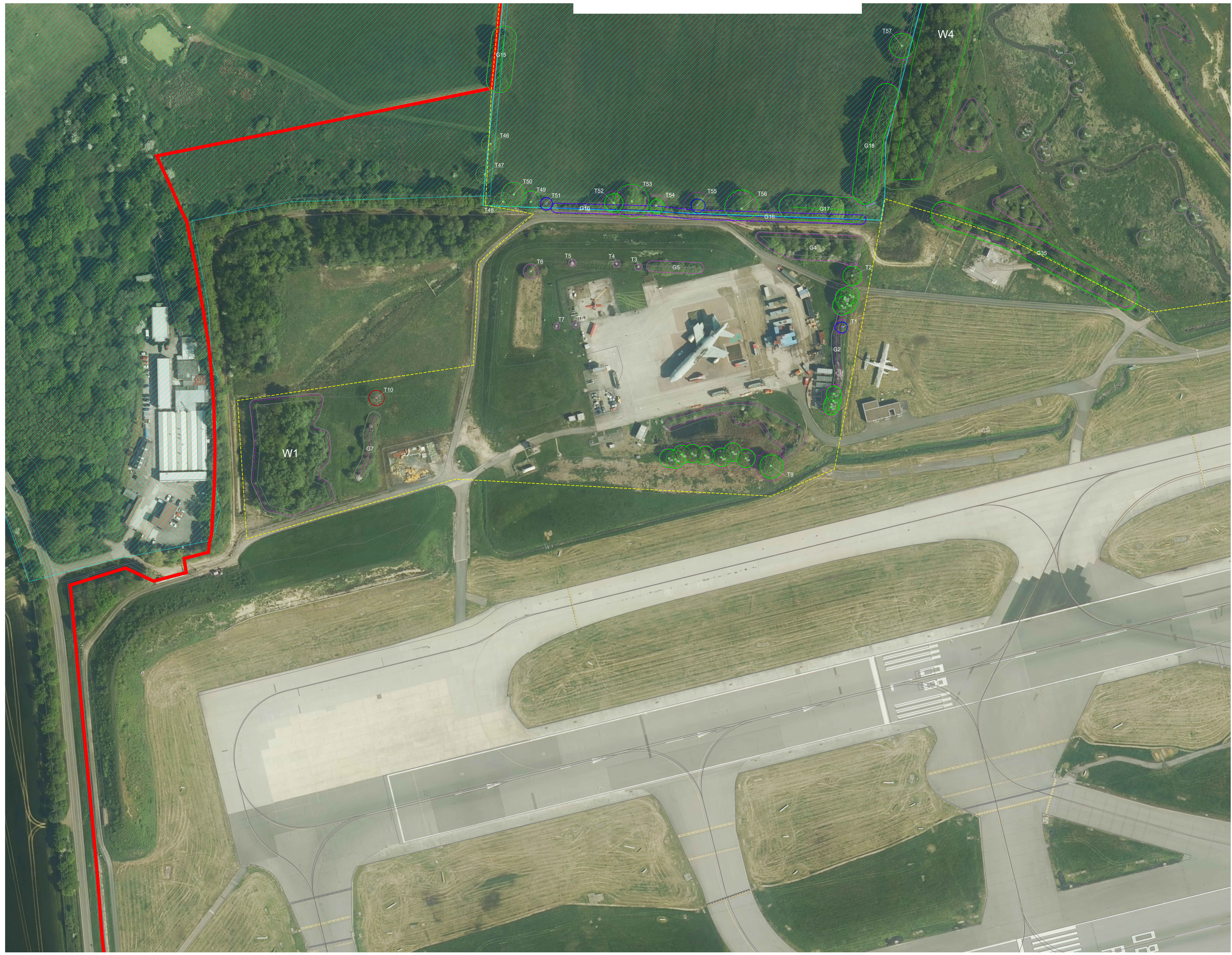
DATE

**June 2024**

ORIENTATION	DRAWING NO.	REVISION
N ▲	720	For ES Issue
	DRAWN BY RC	PM / CHECKED BY DC

SCALE @ A0

**Custom Scale**



### Key

- Site boundary.
- Survey boundary.
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
  - Tree details estimate (accessible 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.
- 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.

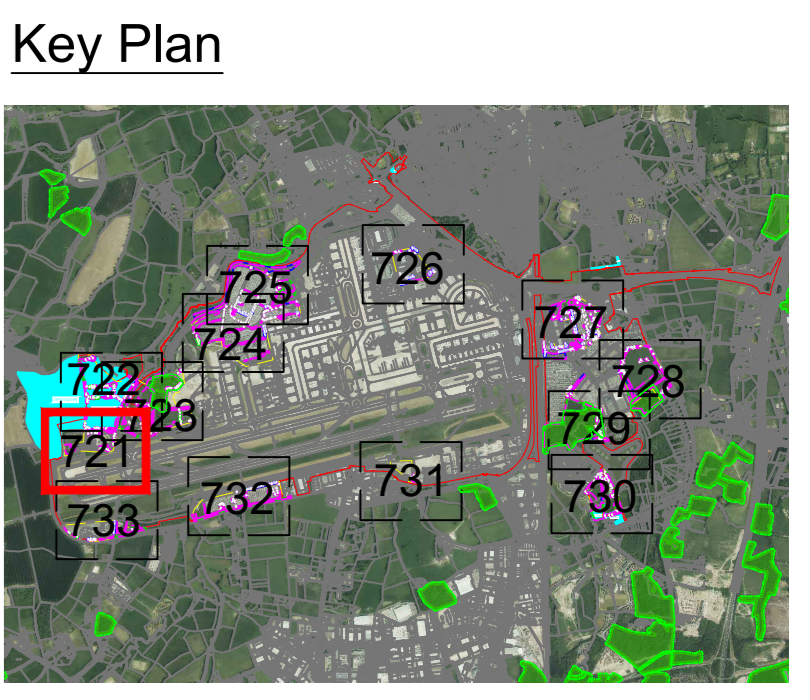
**BS 5837:2012 Tree Quality Categories - Table 1**

- Category A - High quality
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- 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 1 of 13**

DATE

**June 2024**

ORIENTATION	DRAWING NO.	REVISION
N 	721	For ES Issue
	DRAWN BY RC	PM / CHECKED BY DC

SCALE @ A0

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