



# Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 5.3.2: Code of Construction Practice Annex 6 – Outline Arboricultural and Vegetation Method Statement – Part 2 – Clean Version

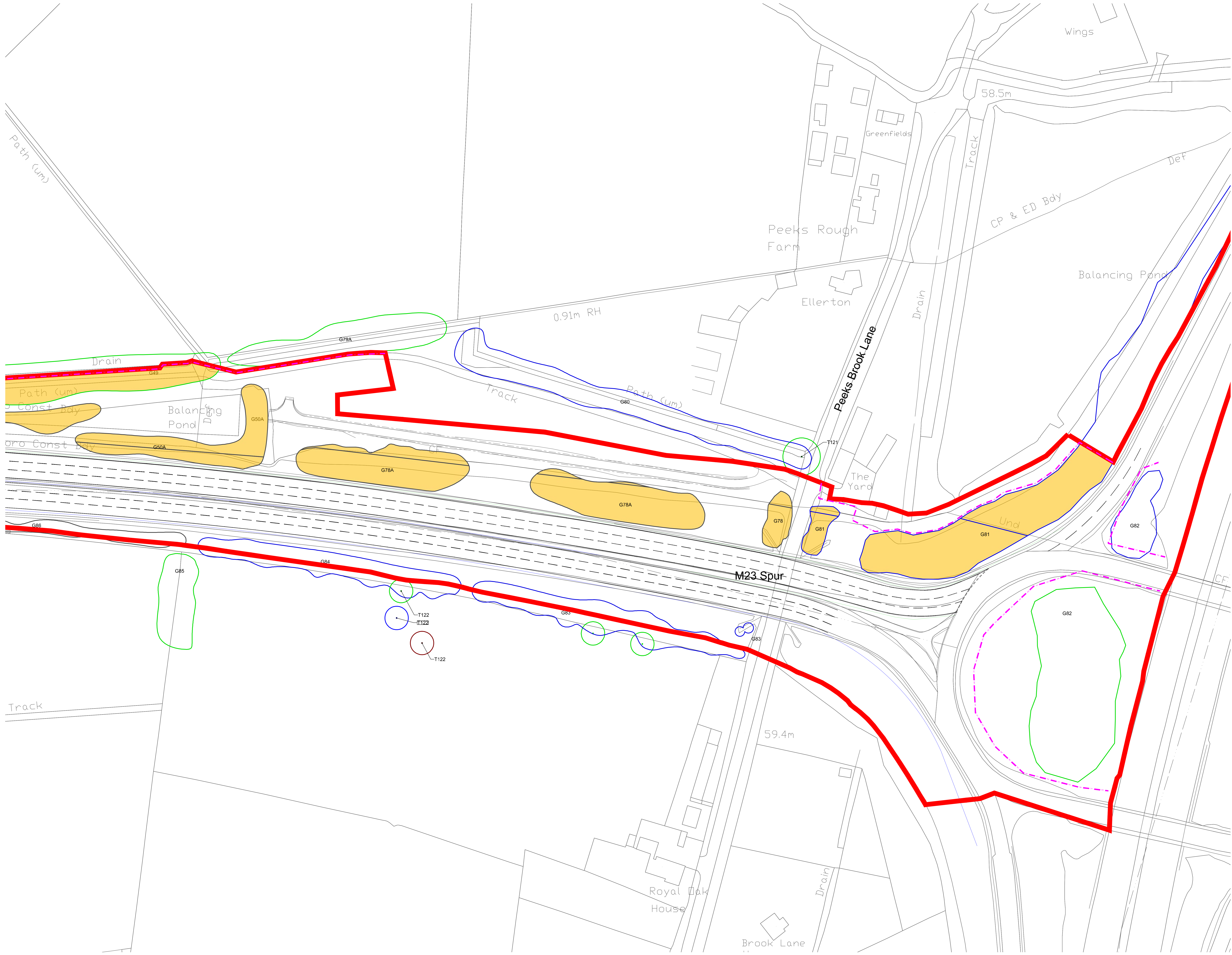
**Book 5**

VERSION: 4.0

DATE: JULY 2024

Application Document Ref: 5.3

PINS Reference Number: TR020005



### Key

- Site Boundary
- Survey Boundary / Boundary of M23/A23 construction activity
- Indicative temporary protective fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative vegetation protective fence line: Design and location to be agreed by local council during detail design.
- Projected tree loss required for construction of the Project (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
- 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

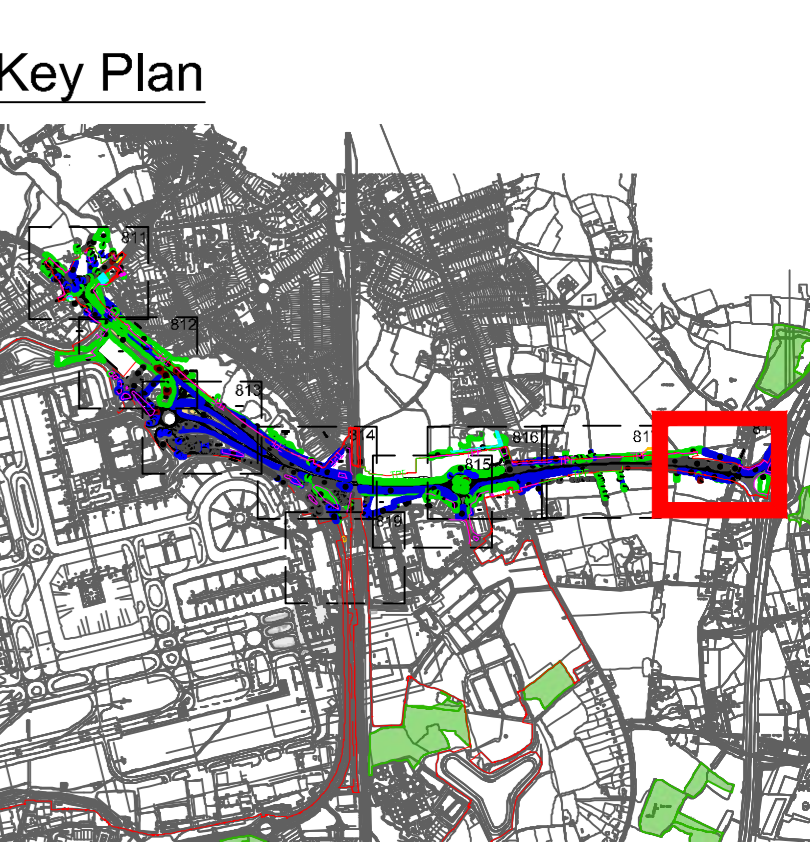
Tree protected by Tree Preservation Order. Bracketted number relates to the TPO reference.

NOTE:

- Refer to ES Appendix 8 & 10.1: Tree Survey report and Arboricultural Impact Assessment for further details.

DETAIL A

DETAIL B



DOCUMENT

**Environmental Statement**

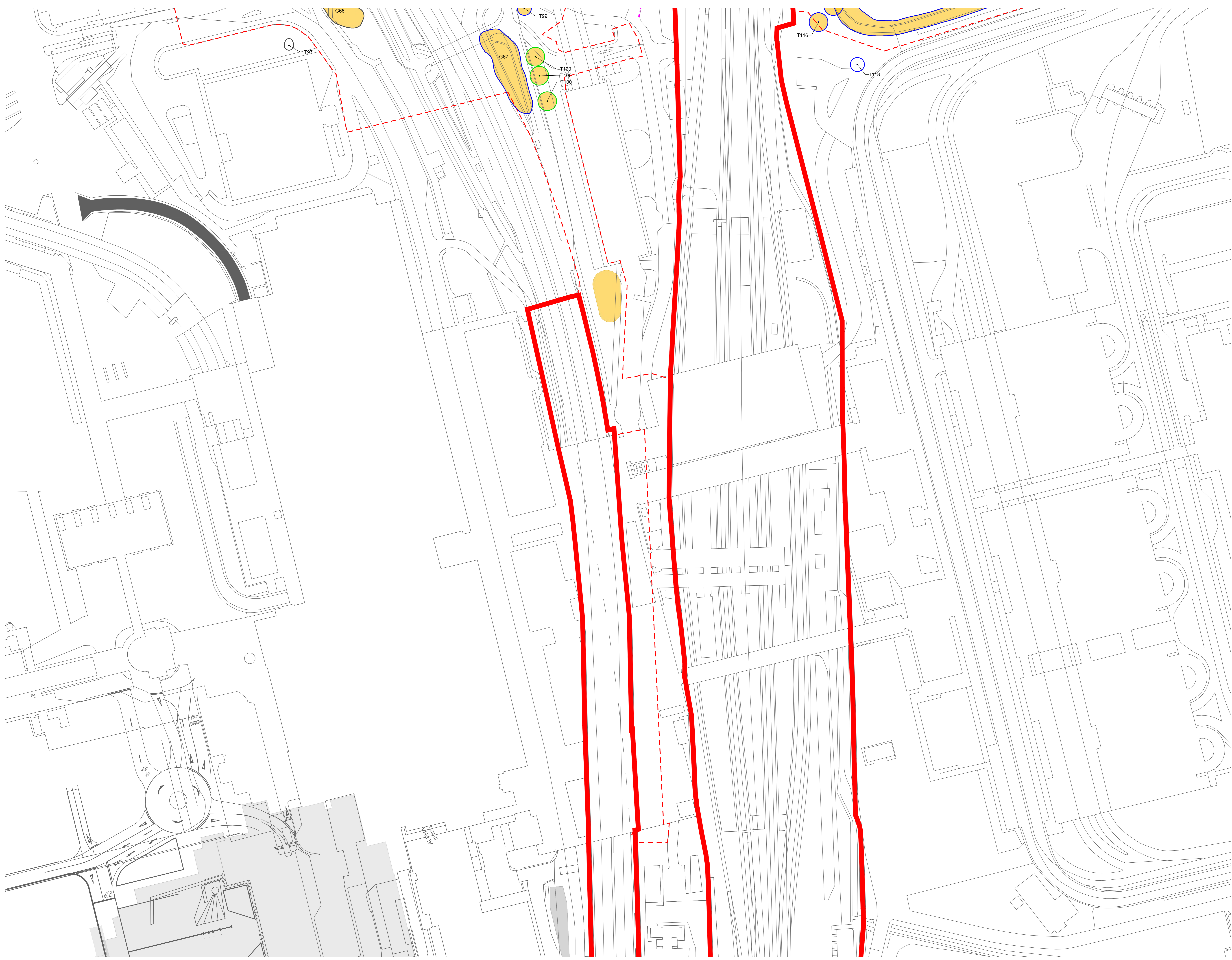
DRAWING TITLE  
**M23 & A23 Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 8 of 9

DATE  
**June 2024**

ORIENTATION	DRAWING NO.	REVISION
N	818	For ES Issue
	DRAWN BY	PIA / CHECKED BY
	RC	DC

SCALE @ A0  
 0m 25m 50m

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### Key

- Site Boundary
- Survey Boundary / Boundary of M23/A23 construction activity
- Indicative temporary protective fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative vegetation protective fence line: Design and location to be agreed by local council during detail design.
- Projected tree loss required for construction of the Project (worst case scenario)
- 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
- 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

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

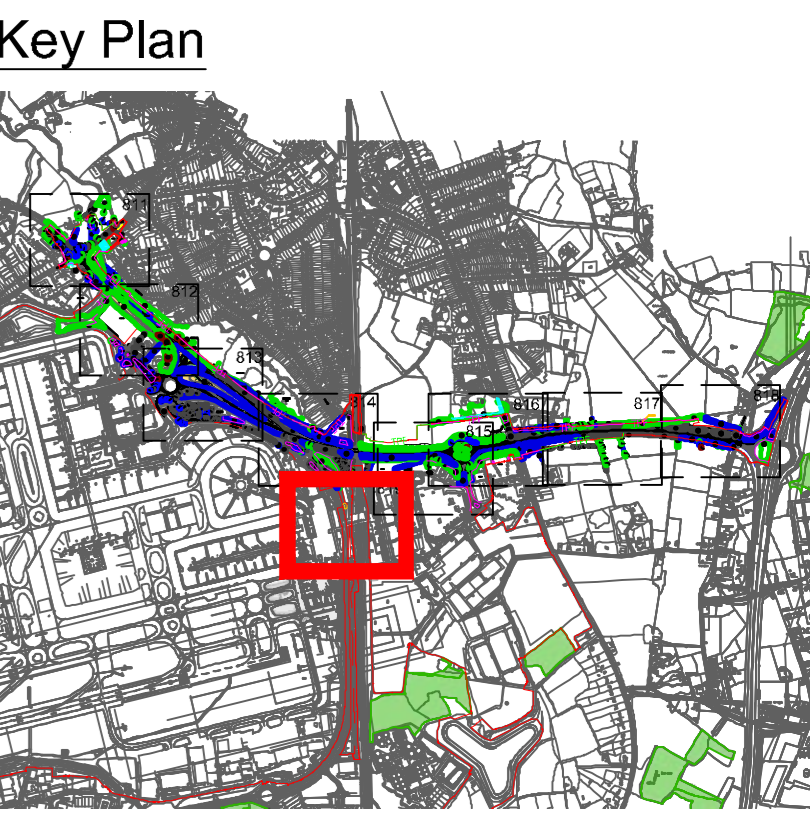
**NOTE:**

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

**DETAIL A**  
Tree protection barrier

**DETAIL B**  
Tree protection barrier

**DETAIL C**  
Tree protection barrier



DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Preliminary Tree Removal & Protection Plans**  
Appendix 5.3.2 Annex 6  
Sheet 9 of 9

DATE  
**June 2024**

ORIENTATION	DRAWING NO.	REVISION
N	819	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC

SCALE @ A0  
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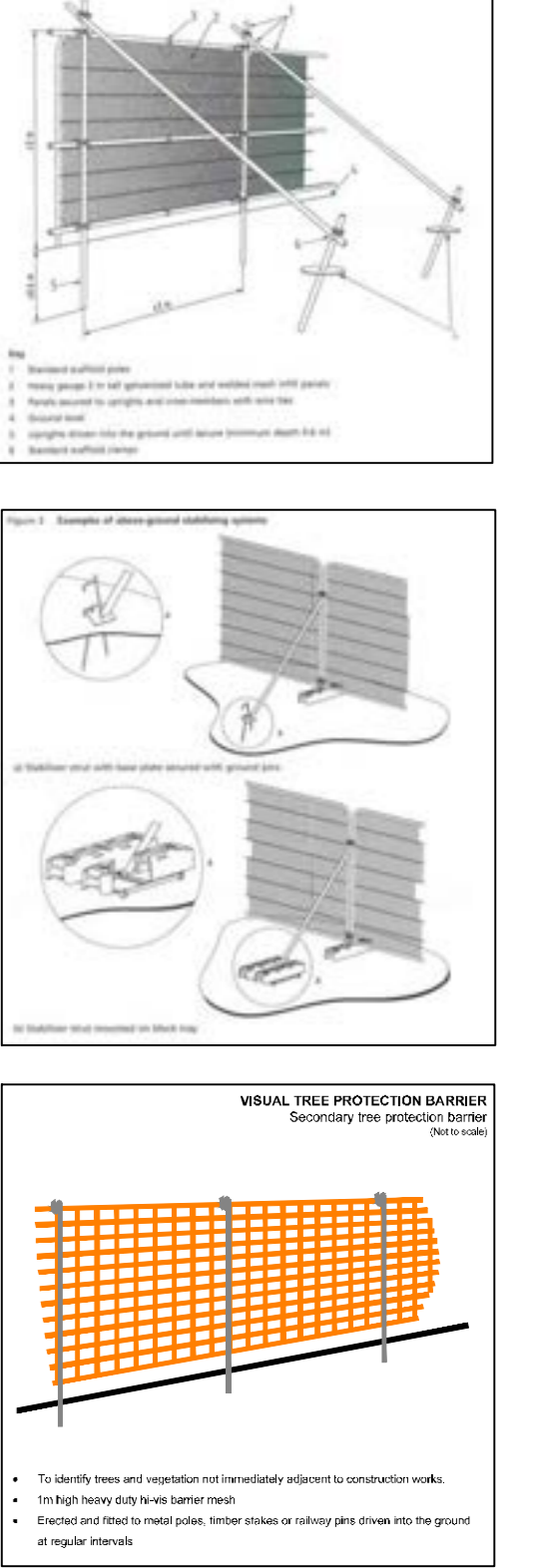
**Appendix B**  
**Airport Preliminary Tree Removal & Protection Plans**



**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.
  - 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 centrelines.
  - Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centrelines.
- 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)
  - Projected tree loss required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence/line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative secondary protective Hi-Vis Mesh fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fence/line. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to ES Appendix 6.10.1. 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**

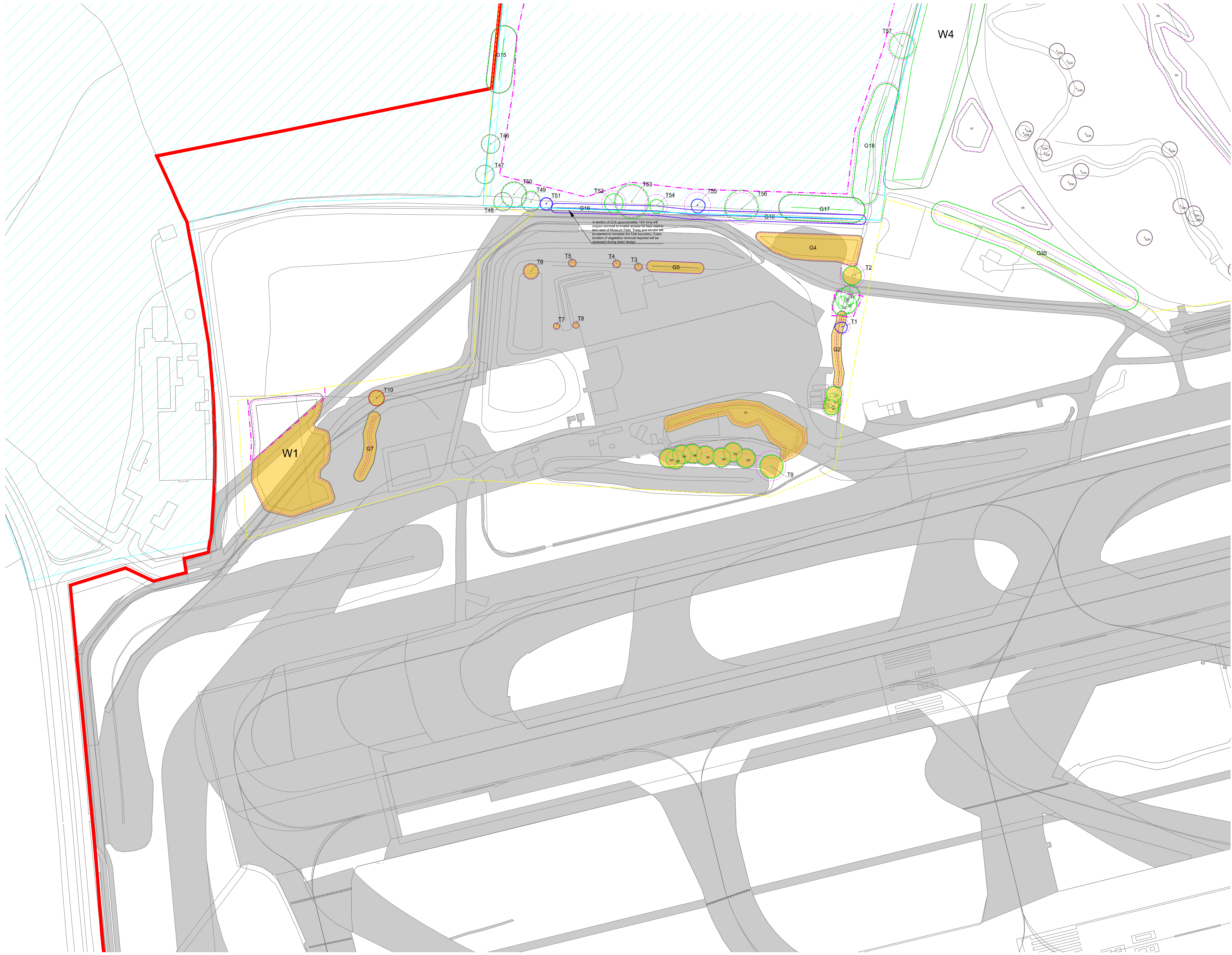
DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
Appendix 5.3.2 Annex 6  
Overview

DATE  
June 2024

ORIENTATION N ▲	DRAWING NO. 735	REVISION For ES Issue
	DRAWN BY RC	PIA / CHECKED BY DC

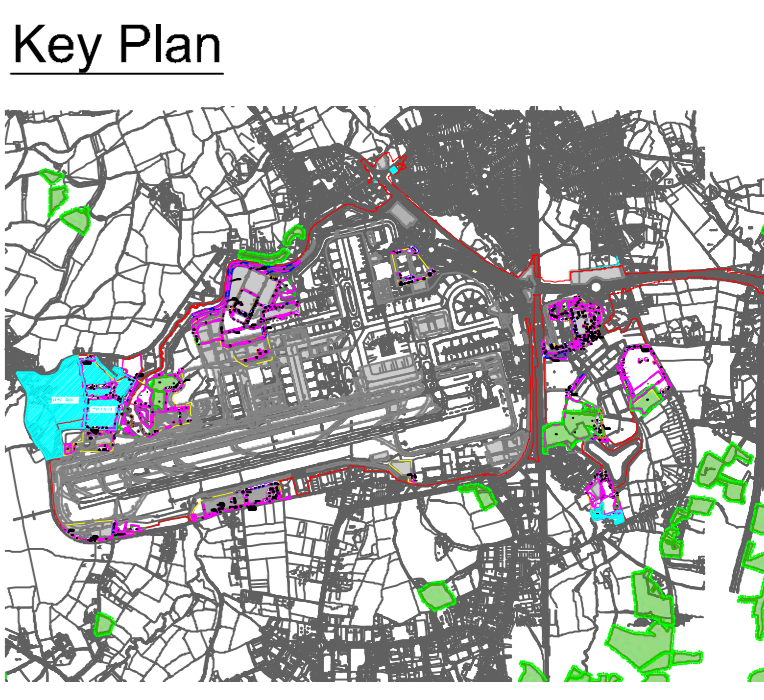
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- Key**
- Site boundary
  - Survey boundary
  - Tree with numbered reference. Canopy spread and colour to match BS5837:2012 tree quality category as shown below.
    - = Tree details estimate (measurable tree)
    - = Tree in off site location
  - Tree group plotted with individual stem locations and numbered references. 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 colour to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - 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 6.6 - BS5837:2012
  - Vegetation tree buffer (15m from B) (as per standing advice produced by Forestry England and Natural England)
  - Tree protected by Tree Preservation Order. Bracketed 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)
  - Protected tree trees required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative secondary protective H/W Mesh fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fence line; Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to ES Appendix 6.10.1: Tree Survey Report and Ancillary
  - Survey assessment for further details
  - The general information provided in this drawing is for information only and is not intended as a final technical specification.
  - The general information provided in this drawing is for information only and is not intended as a final technical specification.
  - BS5837:2012 - "see in relation to design, demolition and construction"
  - Survey assessment for further details
- 



**DOCUMENT**

**Environmental Statement**

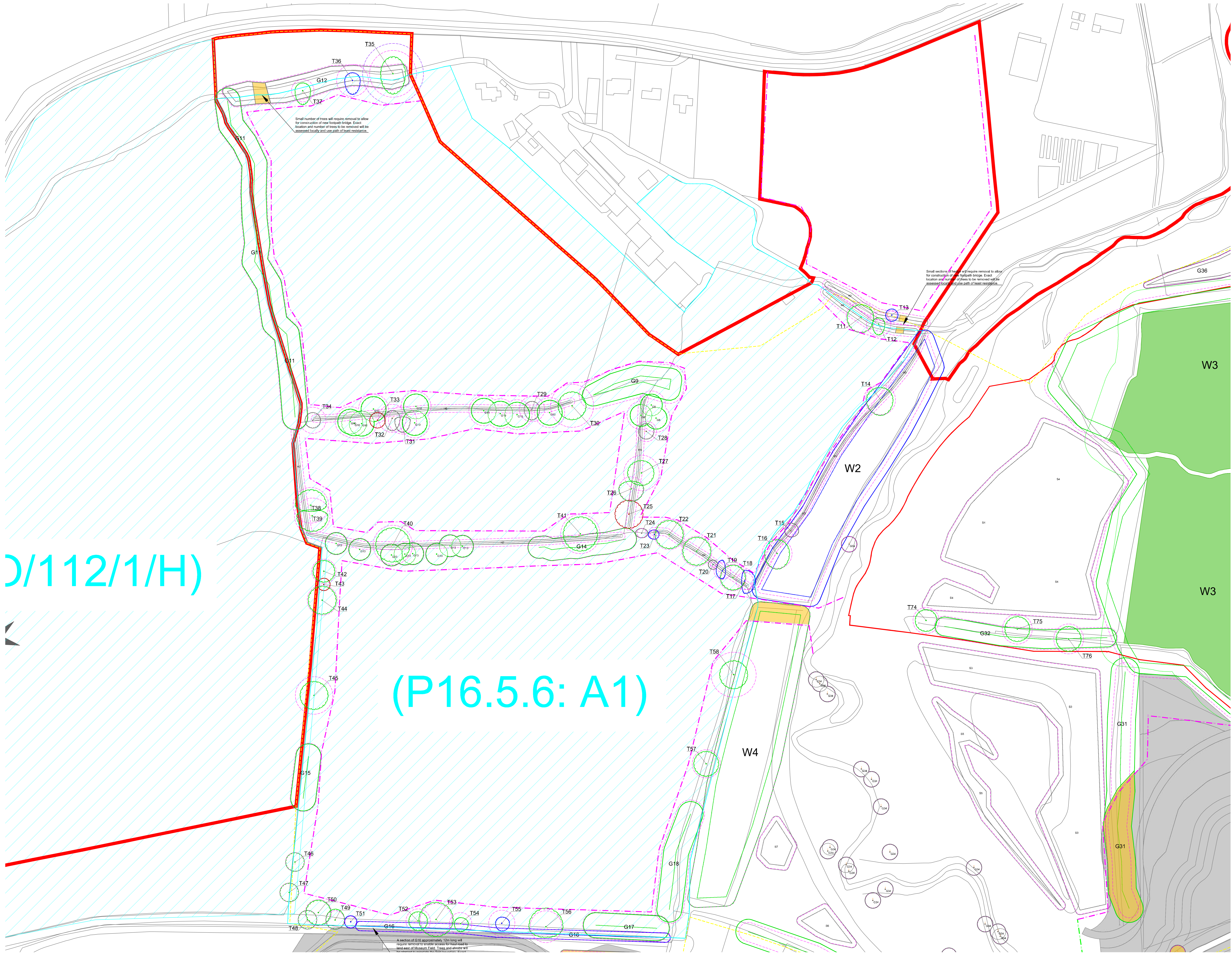
DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 1 of 13

DATE  
 June 2024

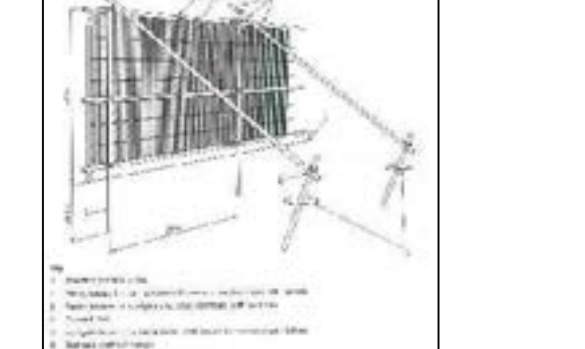
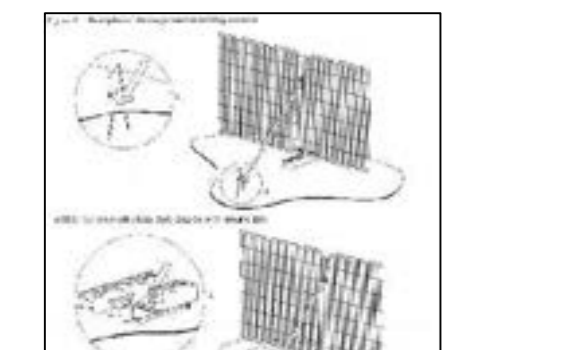
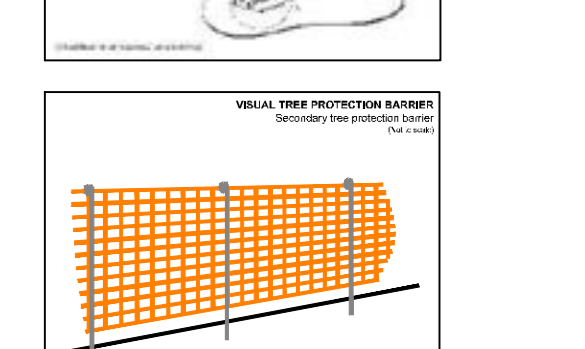
ORIENTATION N	DRAWING NO. 750	REVISION For ES Issue
	DRAWN BY RC	PIA / CHECKED BY DC

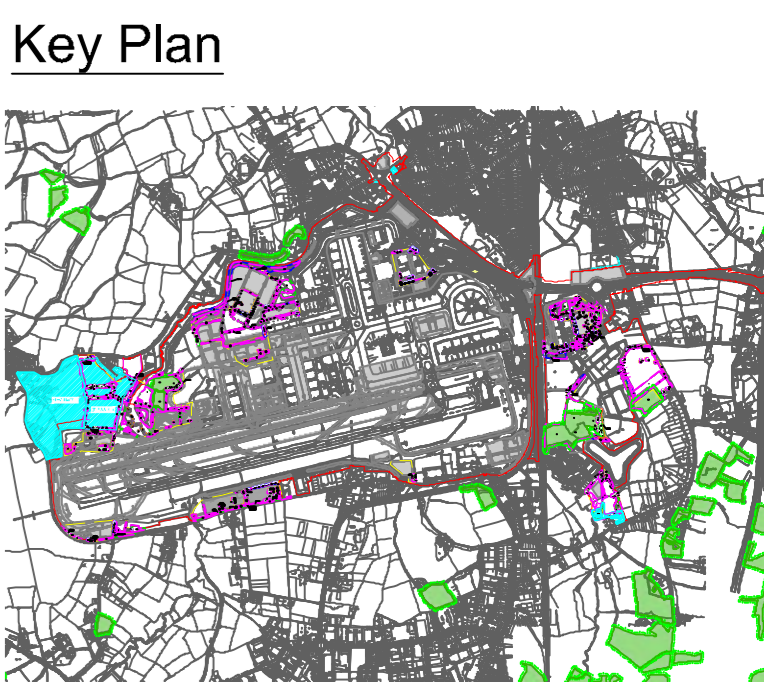
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- Key**
- Site boundary
  - Survey boundary
  - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
    - = Tree details estimate (measurable tree)
    - = Tree on site location
  - Tree group 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 coloured to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - 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 4.6.1 BS5837:2012
  - Volcanic tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
  - Tree protected by Tree Preservation Order.
  - 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)
  - Projected tree loss required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence/line in accordance with Section 6.2 BS5837:2012. See below for example barriers.
  - Indicative secondary protective H10 Mesh fencing in accordance with Section 6.2 BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fence/line. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to ES Appendix B.10.1: Tree Survey Report and Arboricultural
  - Ground assessment for further details
  - All trees shown on this plan are to be removed unless otherwise stated in this
  - The work is intended to be completed in accordance with BS 5837:2012 - 'Trees in Relation to Design, Construction and Construction'
  - Survey dates are shown in the table below
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(P16.5.6: A1)

DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 2 of 13

DATE  
 June 2024

ORIENTATION	DRAWING NO.	REVISION
N	751	For ES Issue
	DRAWN BY	PIA / CHECKED BY
	RC	DC

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 0m 25m 50m

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5.6: A1)

**Key**

- Site boundary
- Survey boundary
- Tree with numbered reference. Canopy spread and colour to match BS5837:2012 tree quality category as shown below.
  - = Tree details estimate (measurable tree)
  - = Tree in site location
- Tree group plotted with individual stem locations and numbered references. 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 colour to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
- 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.

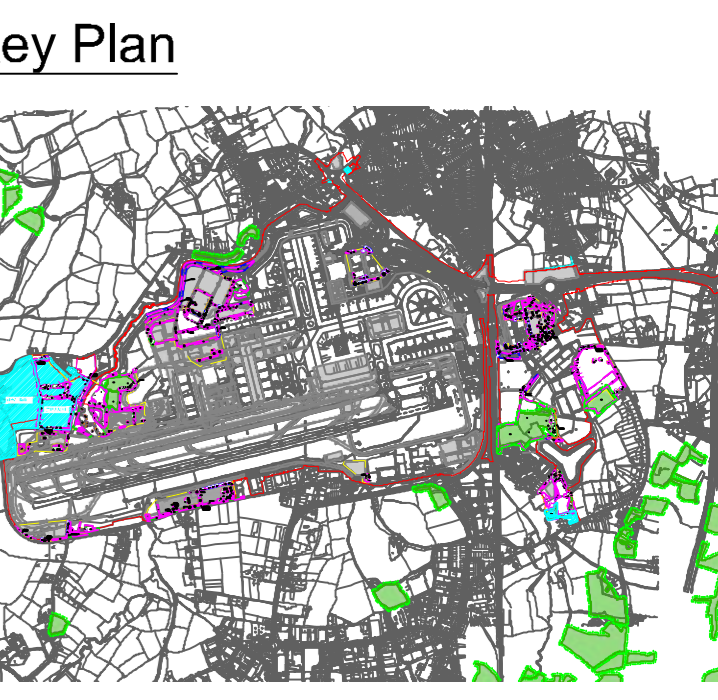
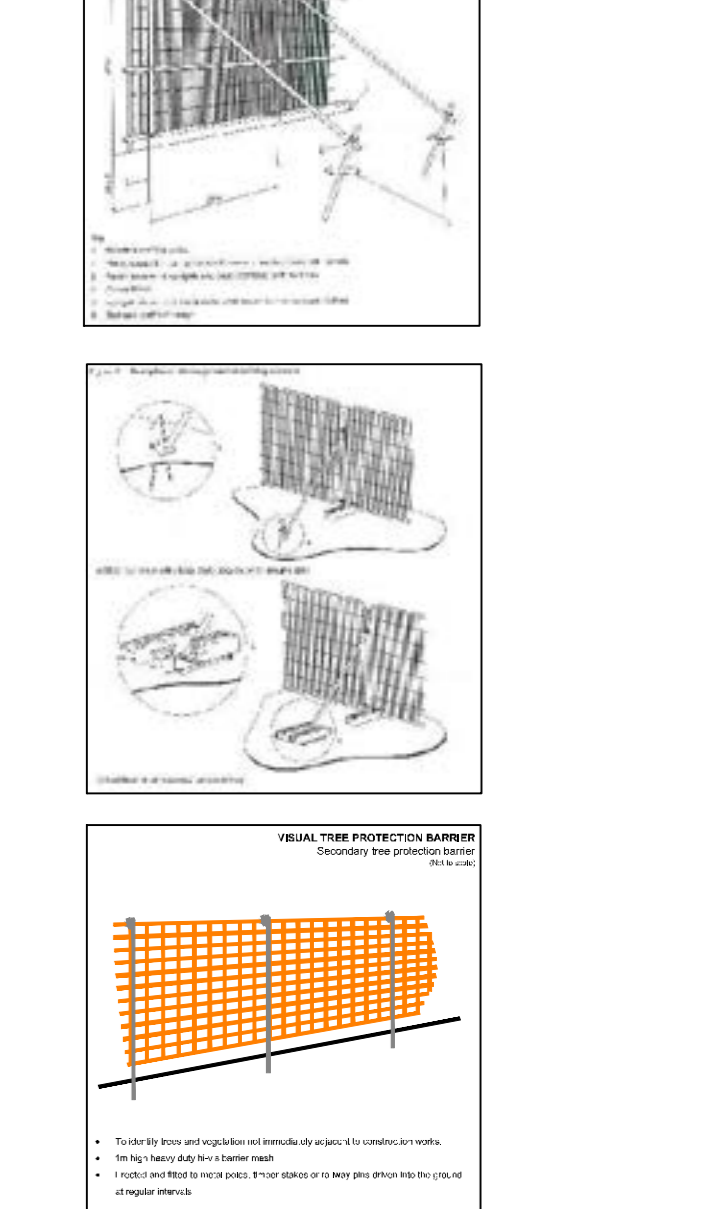
BS 5837:2012 Tree Quality Categories - Table 1

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

- Direction of first significant branch
- Road protection area (RPA). Calculated in accordance with Section 4.6.
- BS5837:2012
- Vegetation 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)
- Protected tree lots required for construction of the Project (worst case scenario)
- Indicative Scheme Layout
- Indicative temporary protective fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative secondary protective H16 Mesh fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative vegetation protective fence line. Design and location to be agreed by local council during detail design.

**NOTES:**

- Refer to ES Appendix 6.10.1: Tree Survey Report and Ancillary
- Some elements are for information only and are not intended as a final construction specification.
- The final construction specification will be set out in the ES Appendix 6.10.2: Tree Survey Report and Ancillary.
- Some elements are for information only and are not intended as a final construction specification.
- Some elements are for information only and are not intended as a final construction specification.



DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
Appendix 5.3.2 Annex 6  
Sheet 3 of 13

DATE  
June 2024

ORIENTATION	DRAWING NO.	REVISION
N	752	For ES Issue
	DRAWN BY	PIA / CHECKED BY
	RC	DC

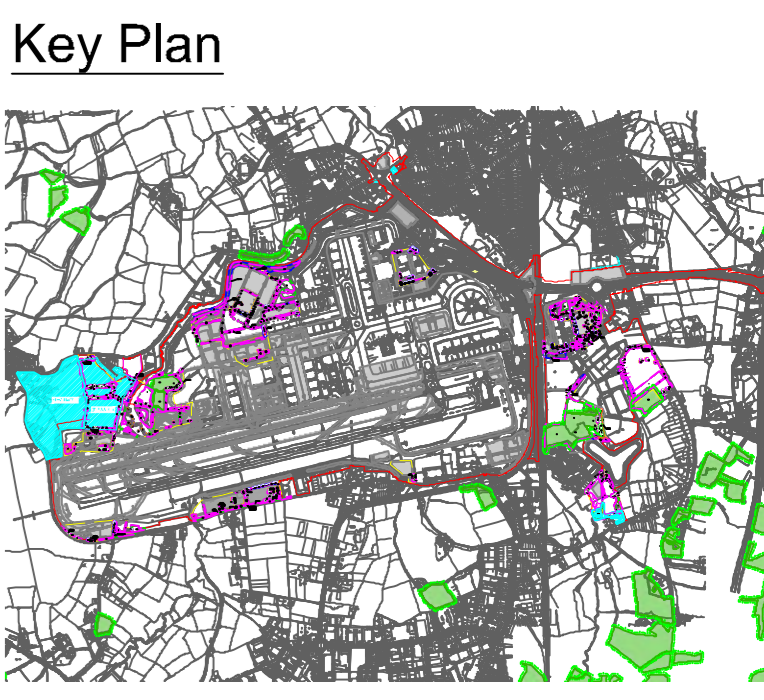
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- ### Key
- Site boundary
  - Survey boundary
  - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
    - = Tree details estimate (measurable tree)
    - = Tree on site location
  - Tree group 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 and coloured BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative 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 4.6.1 BS5837:2012
  - Vegetation 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)
  - Projected tree loss required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence line in accordance with Section 6.2 BS5837:2012. See below for example barriers.
  - Indicative secondary protective H/V Mesh fencing in accordance with Section 6.2 BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fencing. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to ES Appendix B.10.1: Tree Survey Report and Arboricultural
  - Some assessments for root protection are shown and not detailed as a full arboricultural report.
  - The final arboricultural report recommendations set out in BS 5837:2012 - 'Trees in Relation to Design, Construction and Construction'.
  - Some areas are shown in red and black to be removed.
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DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 4 of 13

DATE  
 June 2024

ORIENTATION	DRAWING NO.	REVISION
N	753	For ES Issue
	RC	PIA / CHECKED BY DC

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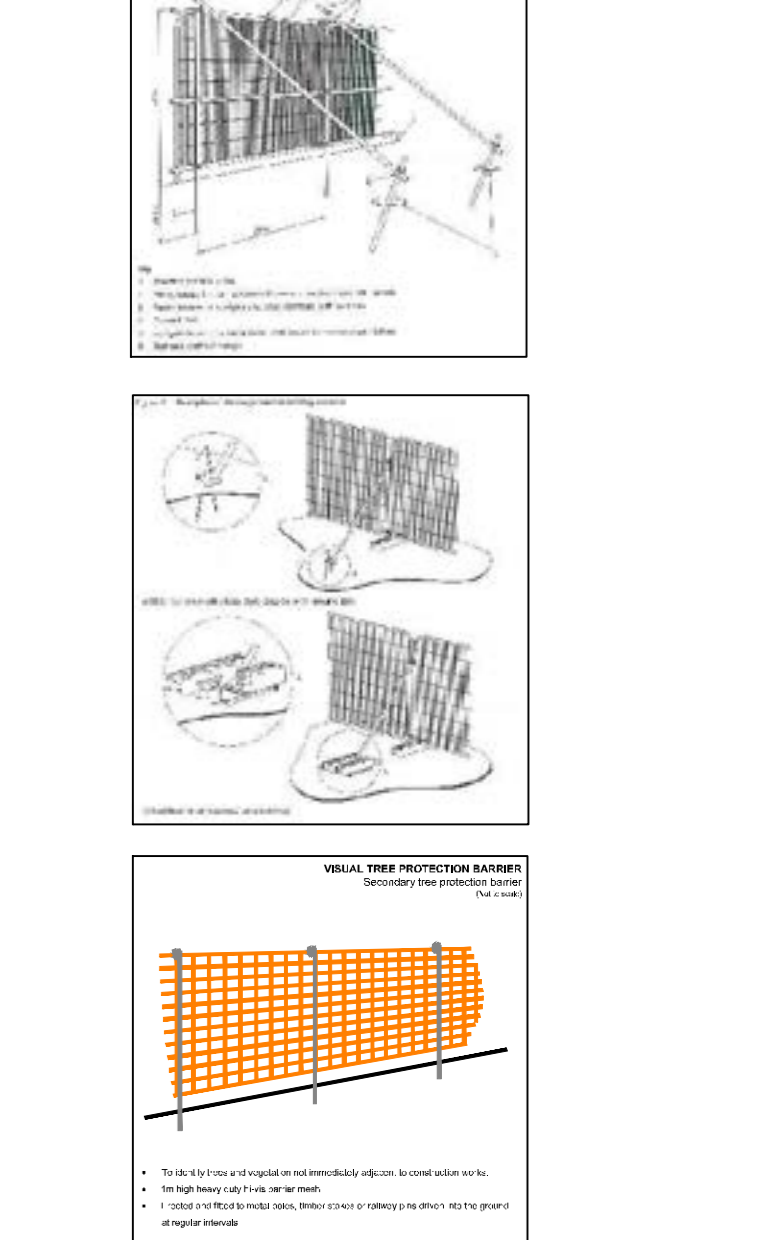
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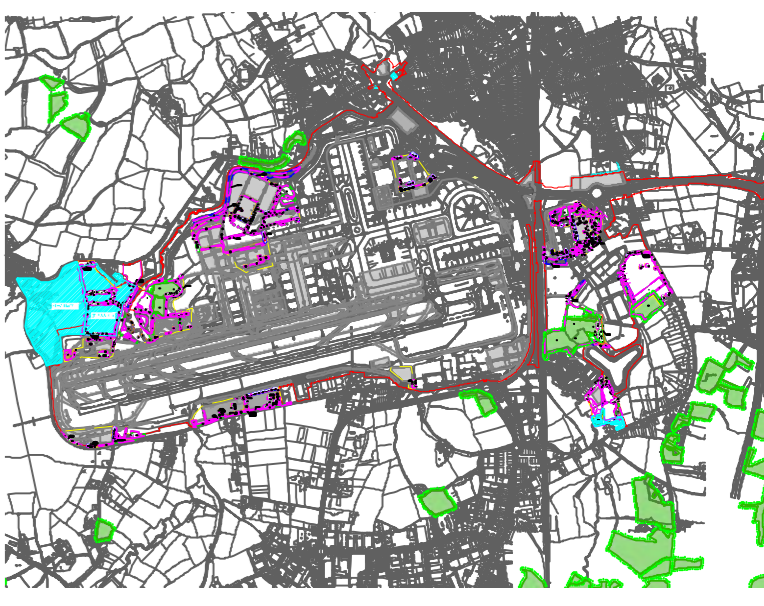
- Key**
- Site boundary
  - Survey boundary
  - Tree with numbered reference  
Canopy spread and coloured BS5837:2012 tree quality category as shown below  
    - = Tree details estimate (accessible tree)
    - = Tree in off site location
  - Tree group plotted with individual stem locations and numbered 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 centreline.
  - 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 - Unstable for retention
- Direction of first significant branch
  - Root protection area (RPA)  
Calculated in accordance with Section 4.6.1 BS5837:2012
  - Vegetation tree buffer (15 x stem Ø)  
(as per standing advice produced by Forestry England and Natural England)
  - Tree protected by Tree Preservation Order
  - 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)
  - Projected tree loss required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence line in accordance with Section 6.2 BS5837:2012. See below for example barriers.
  - Indicative secondary protective H10 Mesh fencing in accordance with Section 6.2 BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fencing. Design and location to be agreed by local council during detail design.

**NOTES:**

- Refer to ES Appendix 6.10.1: Tree Survey Report and Arboricultural
- Some areas are to be retained for other projects
- Some areas are to be retained for other projects and are not included in the tree removal plan
- The work is to be carried out in accordance with the BS5837:2012 'Tree in Relation to Design, Construction and Construction'
- Some areas are to be retained for other projects and are not included in the tree removal plan



**Key Plan**



DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans Appendix 5.3.2 Annex 6 Sheet 5 of 13**

DATE  
**June 2024**

ORIENTATION N	DRAWING NO. <b>754</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>RC</b>	PIA / CHECKED BY <b>DC</b>

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