



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 - Tracked Version

Book 5

VERSION: 2.0


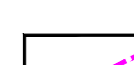

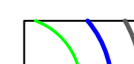
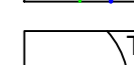
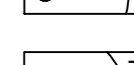

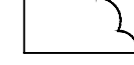
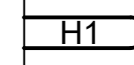
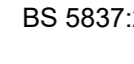



DATE: APRIL 2024

Application Document Ref: 5.3

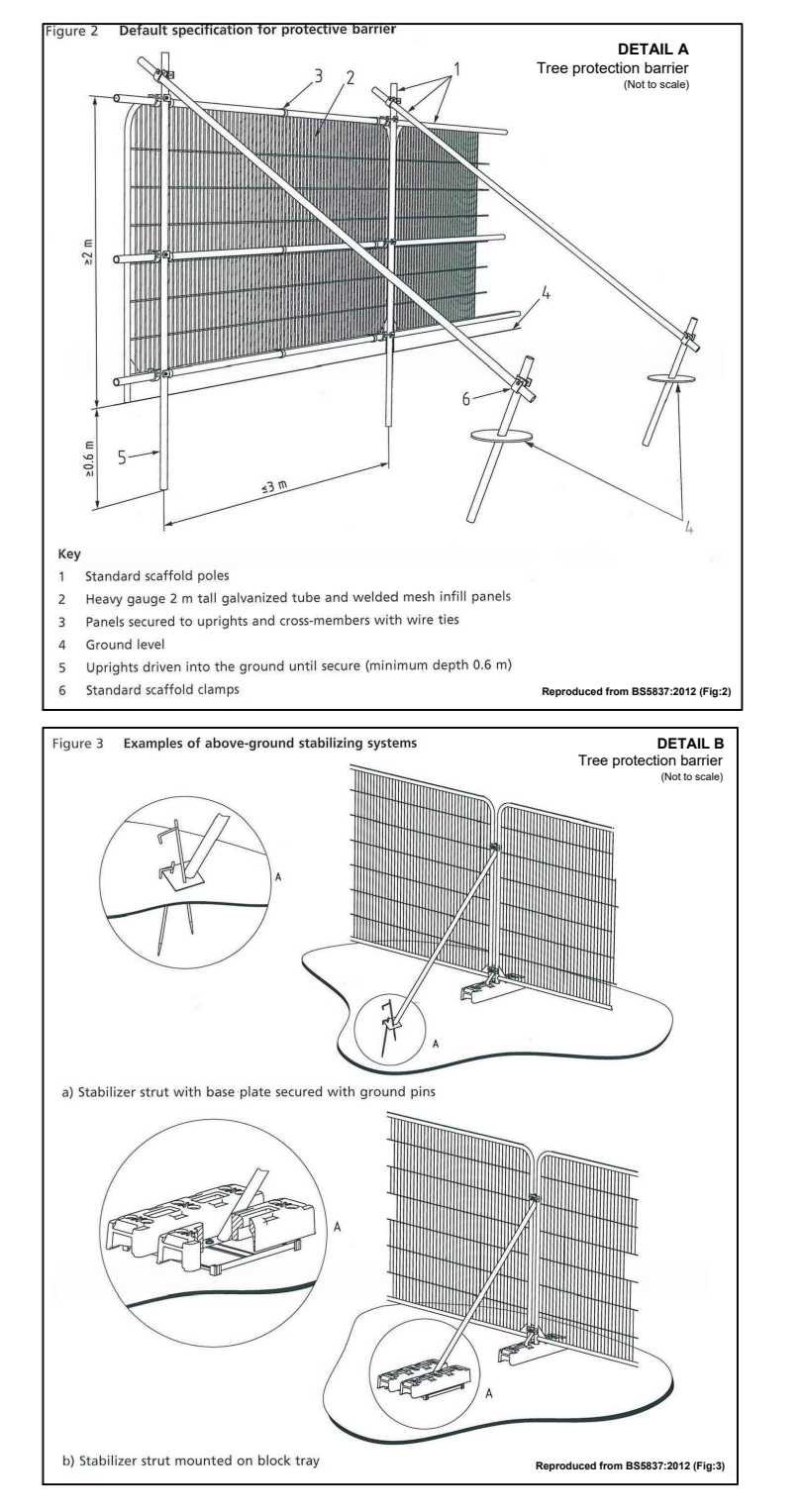
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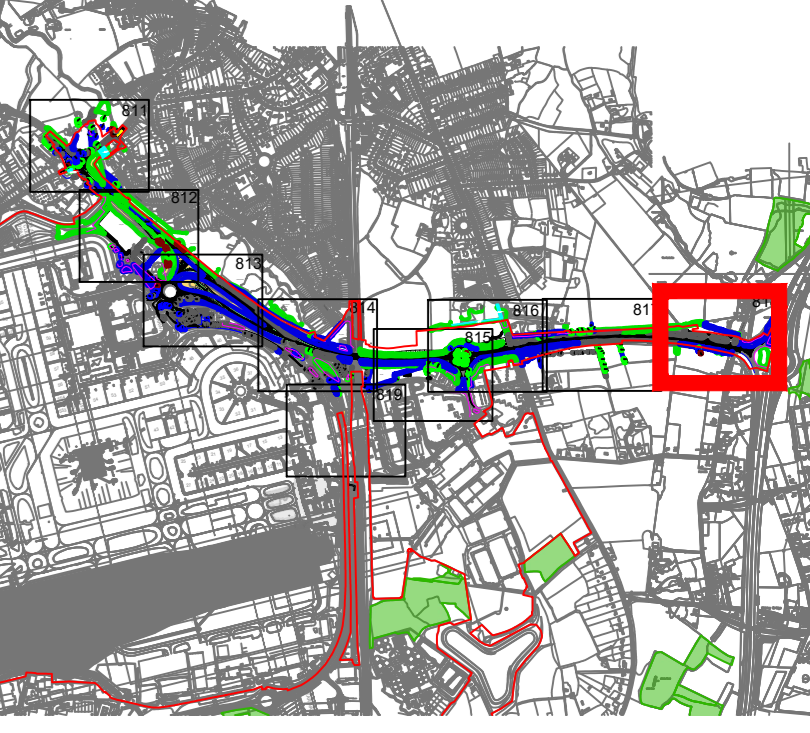
Legend

-  Site Boundary
 -  Indicative temporary protective fence in accordance with Section 6.2.1 of BS5837:2012. See below for example barriers.
 -  Tree loss required for construction
 -  Tree with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
 -  T1#
 -  Tree off-site with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
 -  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 reference relates to the TPO Schedule.

NOTE:
 • Refer to RPS Tree Survey Report & Schedule for further details.



Key Plan



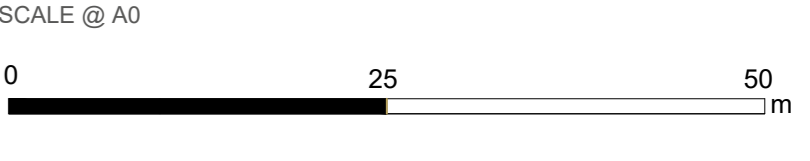
DOCUMENT

Environmental Statement

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

DATE
 July 2023




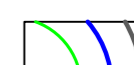


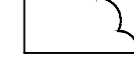
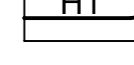





ORIENTATION	DRAWING NO.	REVISION
N	808	For ES Issue
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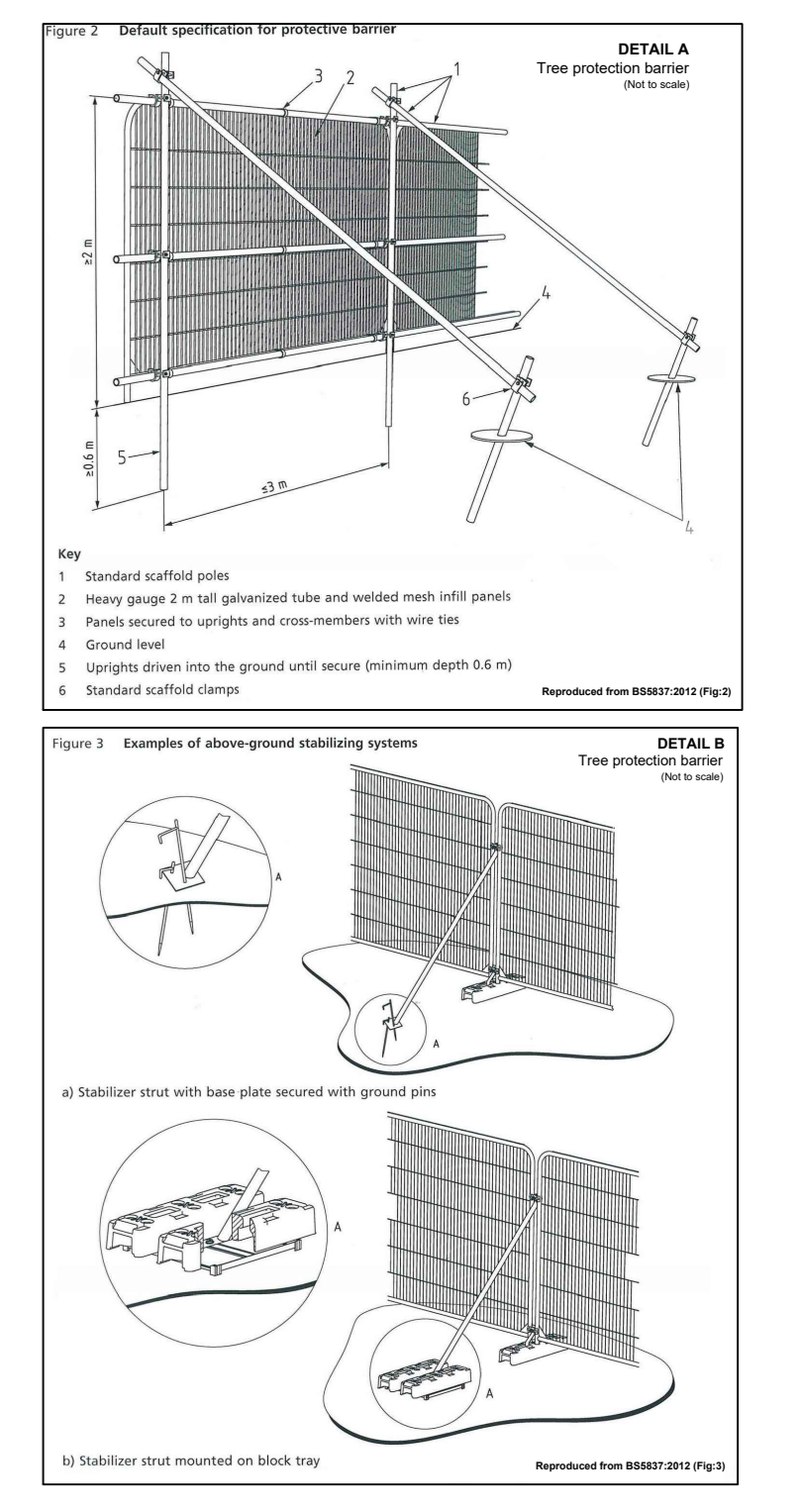
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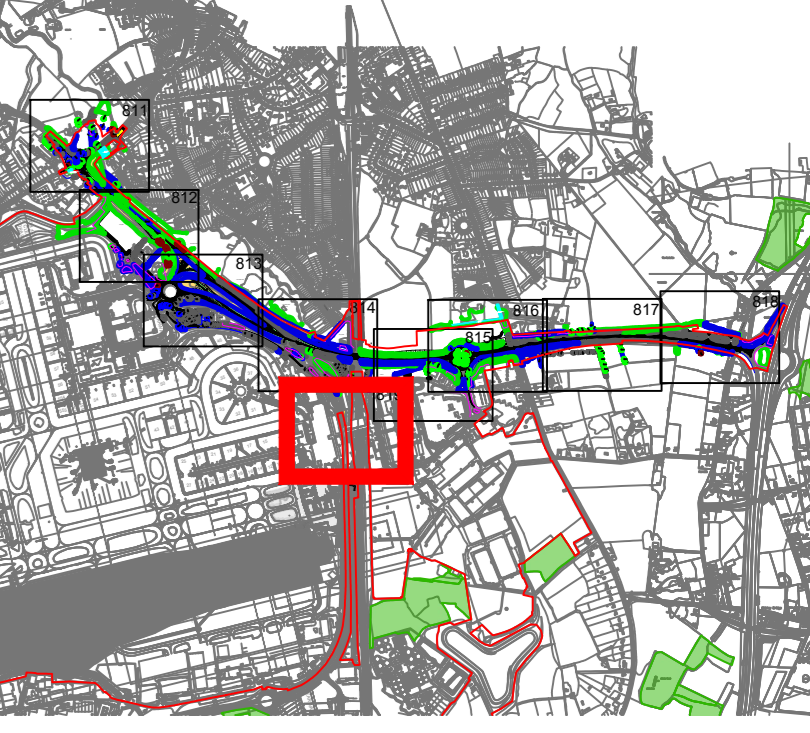
Legend

-  Site Boundary
 -  Indicative temporary protective fence in accordance with Section 6.2. BS5837:2012. See below for example barriers.
 -  Tree loss required for construction
 -  Tree with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
 -  T1*
 -  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
-  Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.

NOTE: Refer to RPS Tree Survey Report & Schedule for further details.



Key Plan



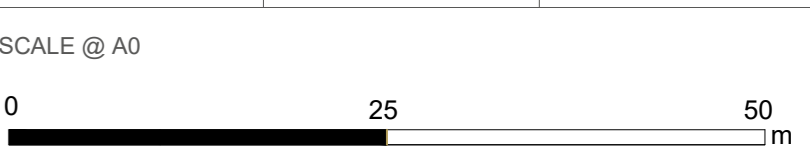
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DOCUMENT

Environmental Statement

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

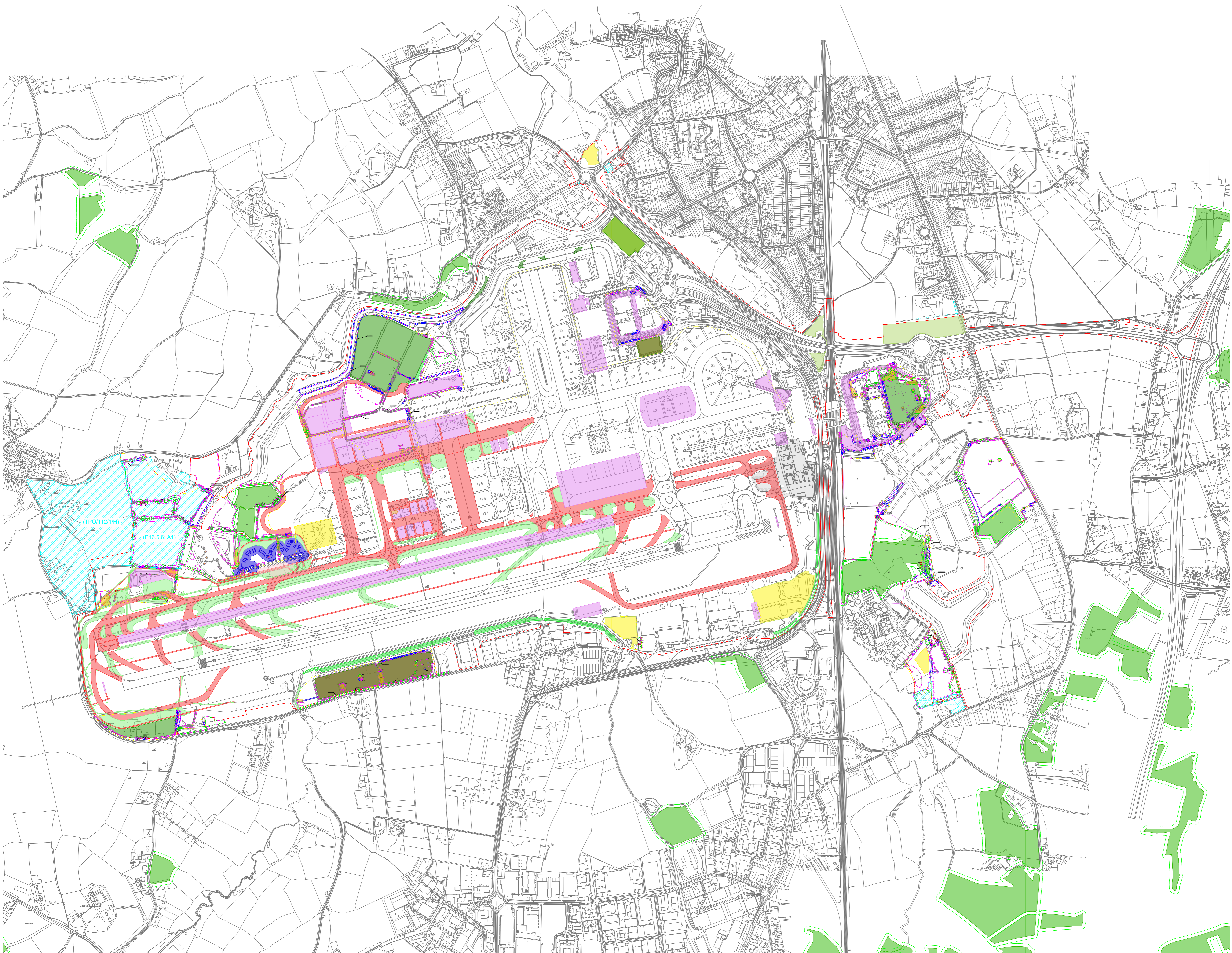
DATE	July 2023	
ORIENTATION	DRAWING NO.	REVISION
N	809	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC



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Appendix B
Airport Preliminary Tree Removal & Protection Plans

[to be submitted at Deadline 4]



Key

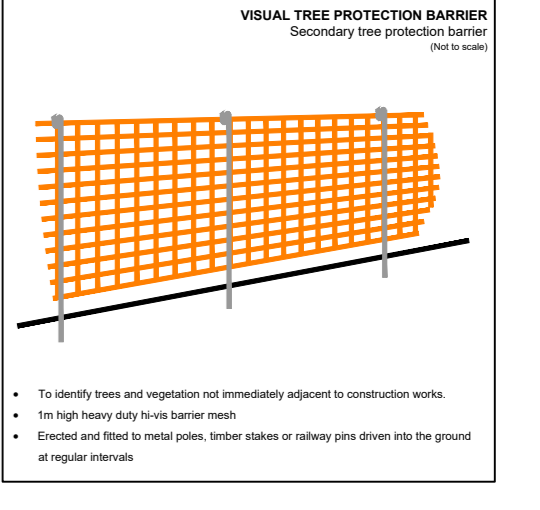
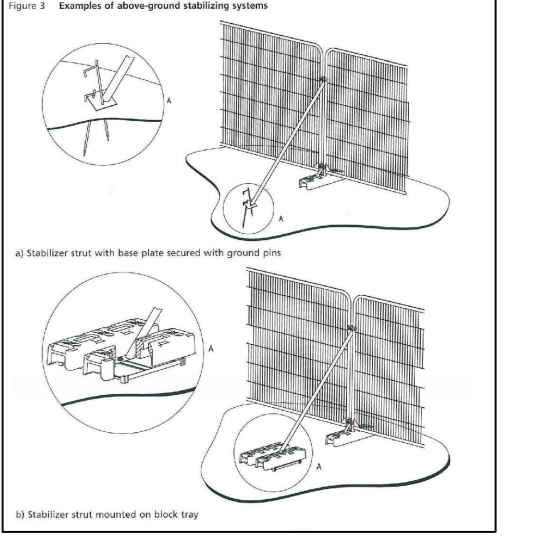
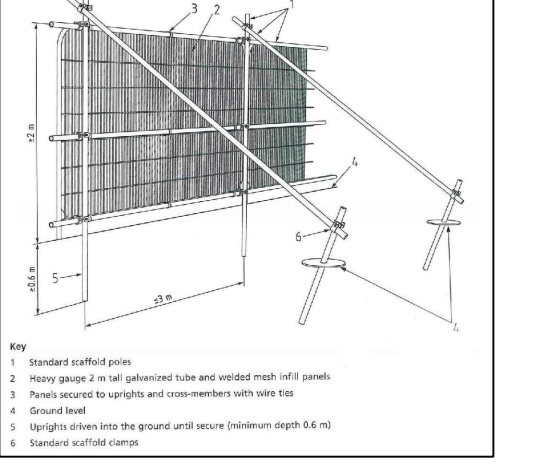
- Red Line boundary.
- Survey boundary.
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree) = Tree in off site location
- Tree group plotted with individual stem locations and numbered reference. Canopy 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 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 - 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 reference relates to the TPO Schedule.
- 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)
- Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
- Indicative temporary protective fence 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. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to RPS Tree Survey Report & Schedule 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, development and construction'.
 - Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
 - 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
January 2024

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

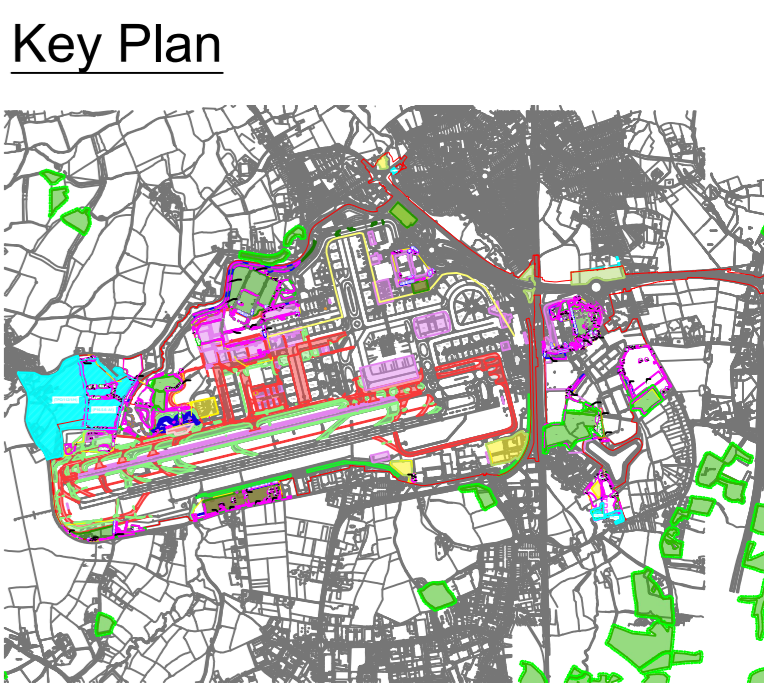
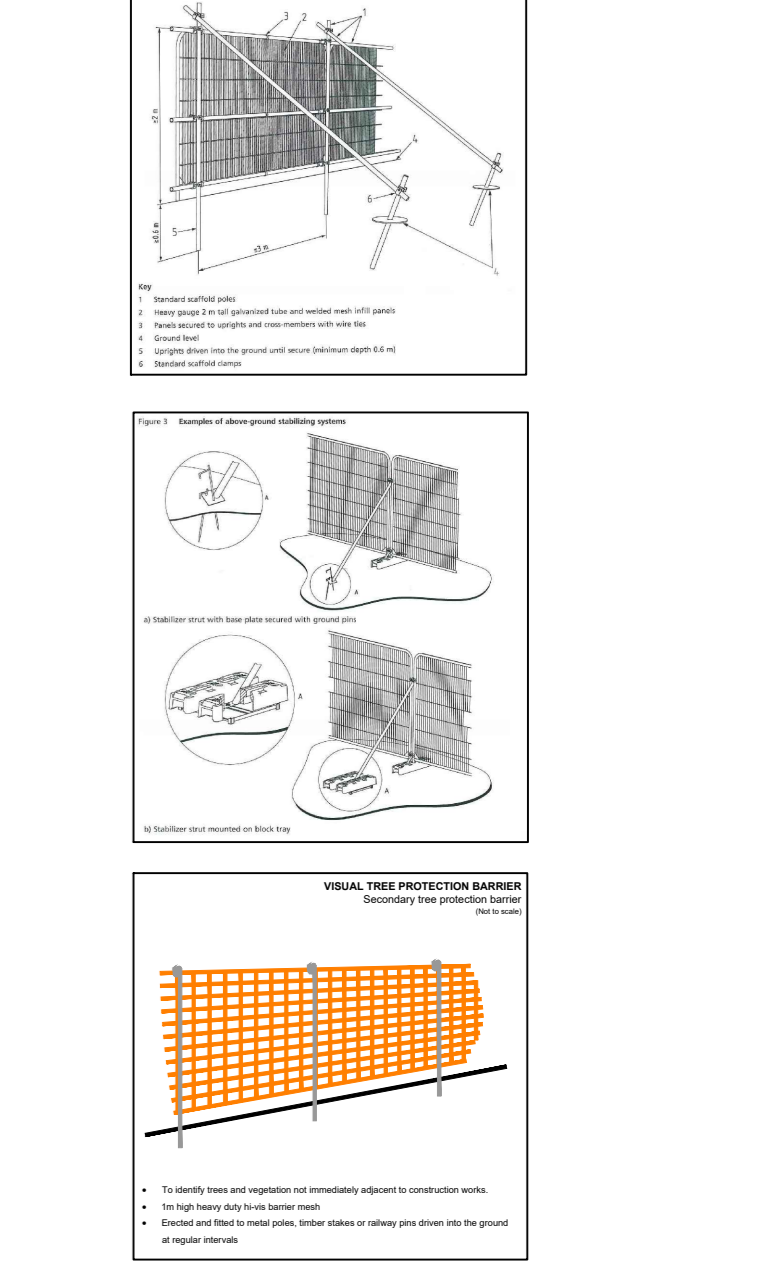
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Custom Scale



- Key**
- Red Line boundary.
 - Survey boundary.
 - Tree with numbered reference. Canopy spread and colour to match BS5837:2012 tree quality category as shown below.
 - = Tree details estimate (non-removable 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 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 of 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 reference relates to the TPO Schedule.
 - 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).
 - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
 - Indicative temporary protective fence in accordance with Section 6.2 of BS5837:2012. See below for example barriers.
 - Indicative secondary protective H/V Mesh fence in accordance with Section 6.2 of BS5837:2012. See below for example barriers.
 - Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

NOTES:

- Refer to RPA Tree Survey Report & Schedule for further details.
- Survey based on a visual inspection from the ground and is not intended as a 3D architectural elevation.
- Plan produced in accordance with recommendations set out in BS 5837:2012. Trees to be removed, identified and numbered.
- Due to the high protection afforded to breeding birds vegetation removal should not take place during the bird nesting period generally, although not restricted to March - August inclusive.
- Some trees are open Access Photographers and trees located by eye.



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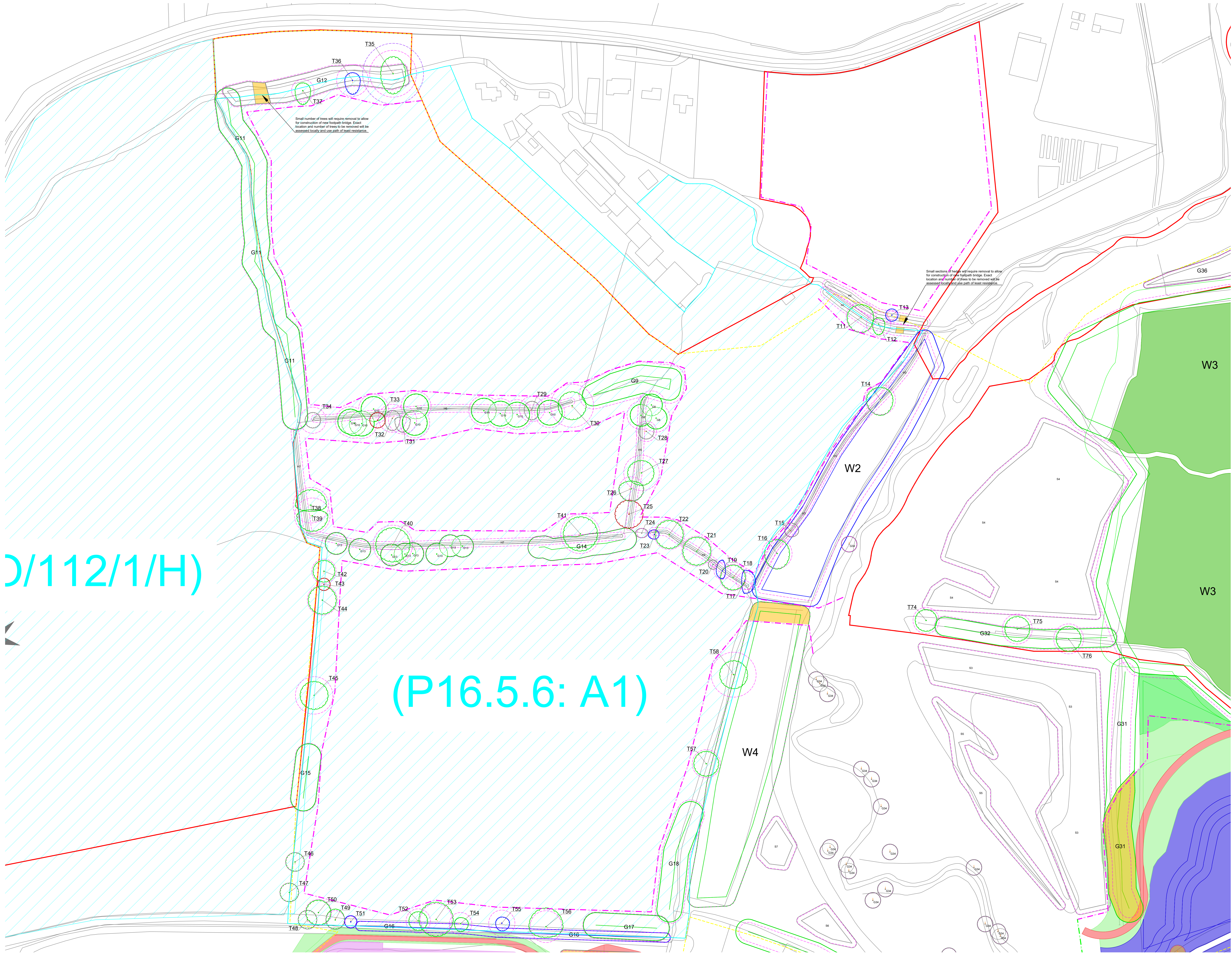
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Airport Preliminary Tree Removal & Protection Plans
Appendix 5.3.2 Annex 6
Sheet 1 of 13

DATE
January 2024

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(P16.5.6: A1)

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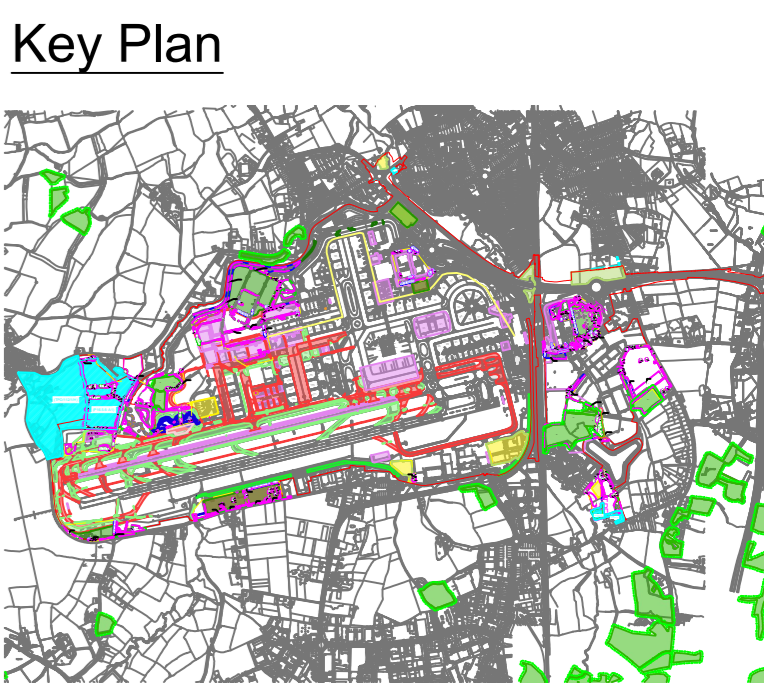
- Red Line boundary.
- Survey boundary.
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 - = Tree details estimate (measurable tree)
 - = Tree in site location
- Tree group plotted with individual stem locations and numbered reference. Canopy 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 - 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 reference relates to the TPO Schedule.
- 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)
- Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
- Indicative temporary protective fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative secondary protective H/W Mesh fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to TPO Tree Survey Report & Schedule for further details.
 - Survey based on a visual inspection from the ground and is not intended as a 3D model.
 - Plan produced in accordance with recommendations set out in BS 5837:2012 'Trees in Practice' design, installation and construction.
 - Due to the large protection afforded to existing trees, vegetation removal should not take place during the hot weather periods generally, although not restricted to March - August inclusive.
 - Some trees have been photographed and trees located by eye.



DOCUMENT

Environmental Statement

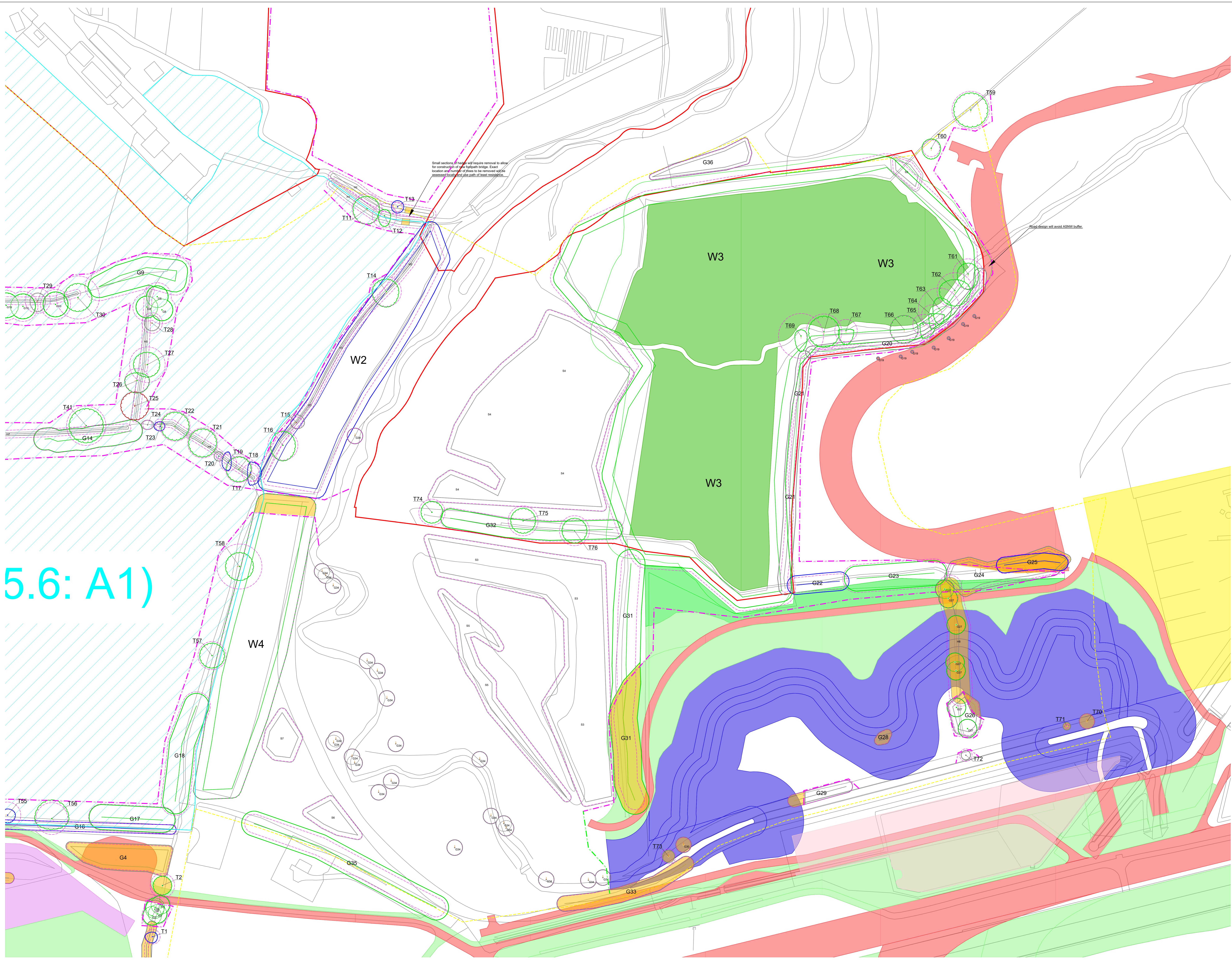
DRAWING TITLE
 Airport Perimetry Tree Removal & Protection Plans
 Appendix 5.3.2 Annex 6
 Sheet 2 of 13

DATE
 January 2024

ORIENTATION N	DRAWING NO. 737	REVISION For ES Issue
	DRAWN BY RC	PM / CHECKED BY DC

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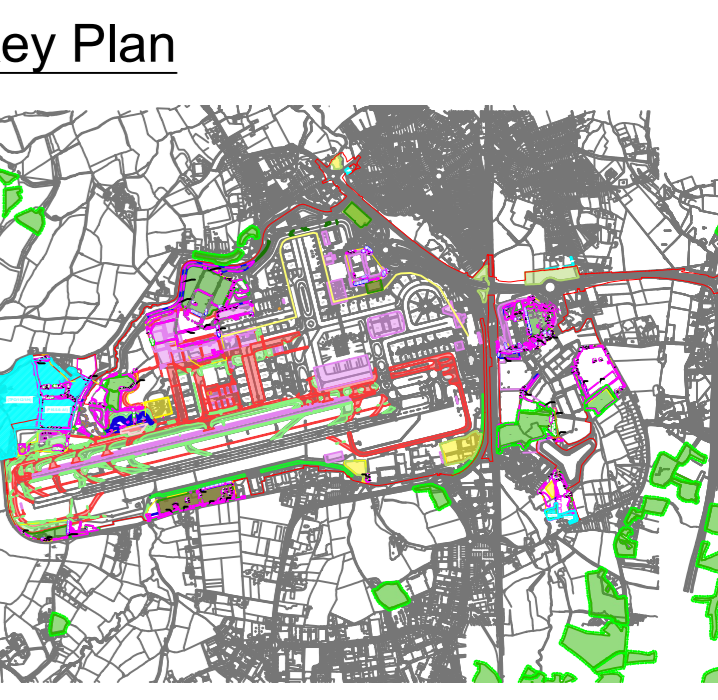
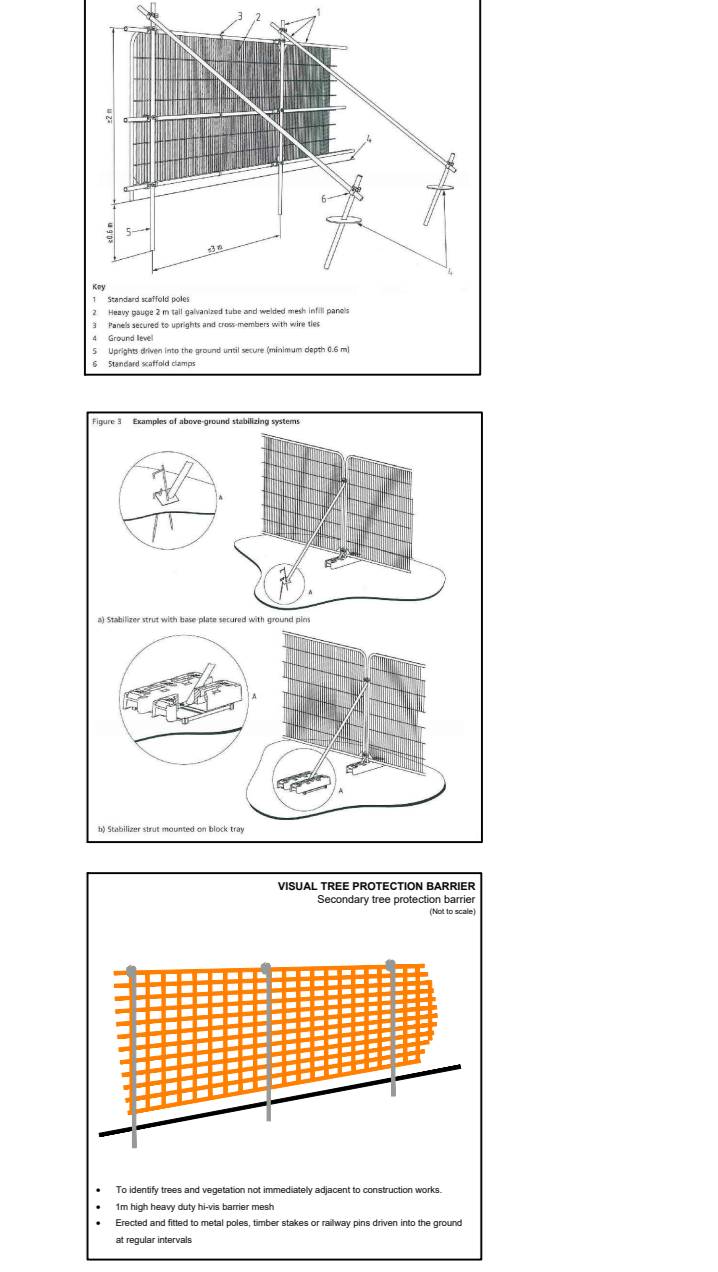


5.6: A1)

- Key**
- Red Line boundary.
 - Survey boundary.
 - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 - = Tree detail estimate (measurable 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 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 - 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 reference relates to the TPO Schedule.
 - 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)
 - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
 - Indicative temporary protective fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
 - Indicative secondary protective H/V Mesh fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
 - Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

NOTES:

- Refer to TPO Tree Survey Report & Schedule for further details.
- Survey based on a visual inspection from the ground and is not intended as a detailed structural survey.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - Trees in the Landscape: Design, Installation and Construction.
- Due to the large proportion of trees to be removed, vegetation removal should be undertaken during the hot weather period, generally, although not restricted to March - August inclusive.
- Survey based on aerial photography and trees located by eye.



DOCUMENT
Environmental Statement

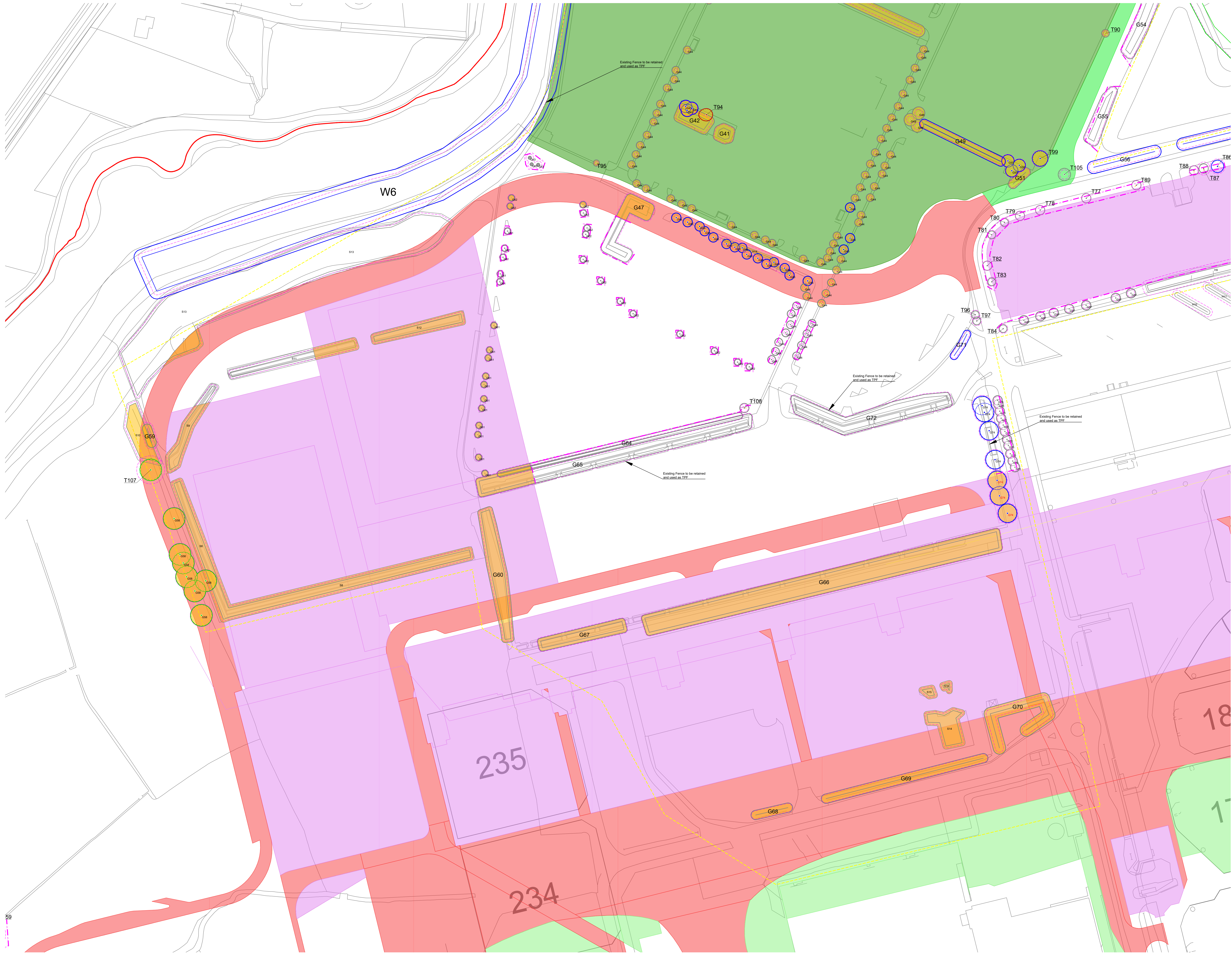
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Airport Preliminary Tree Removal & Protection Plans Appendix 5.3.2 Annex 6 Sheet 3 of 13

DATE
January 2024

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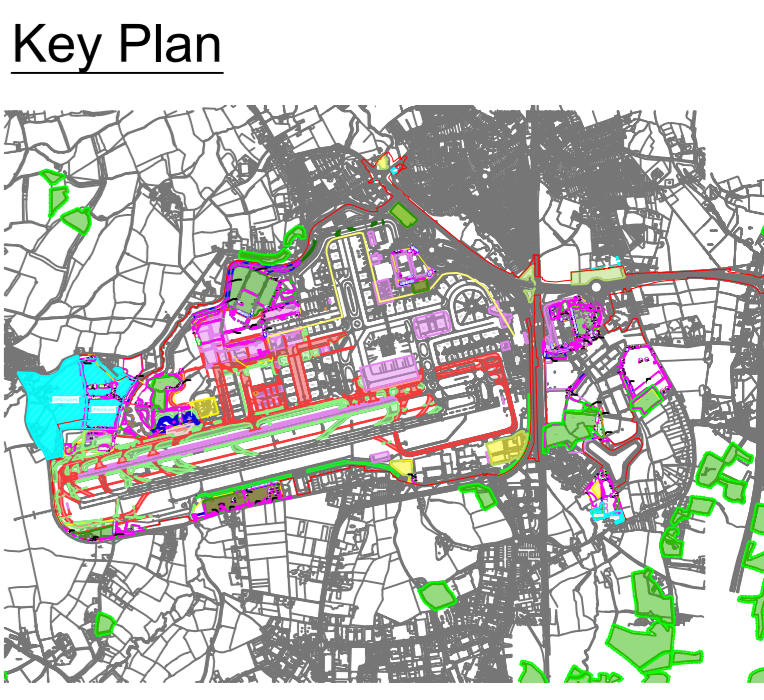
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- Key**
- Red Line boundary.
 - Survey boundary.
 - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 - = Tree details estimate (measurable tree)
 - = Tree in off site location
 - Tree group 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 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 stem 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 (as per standing advice produced by Forestry England and Natural England).
 - Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England).
 - Tree protected by Tree Preservation Order. Bracketed number reference relates to the TPO Schedule.
 - 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).
 - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
 - Indicative temporary protective fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
 - Indicative secondary protective Hi-Viz 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 RPA Tree Survey Report & Schedule for further details.
 - Survey based on a visual inspection from the ground and is not intended as a full structural assessment.
 - Plan produced in accordance with recommendations set out in BS 5837:2012. Trees in this category require retention and protection.
 - Due to the large protection afforded to existing trees, vegetation removal should not take place during the listed working periods generally, although not restricted to March - August inclusive.
 - Some trees are open Access Trees and are not located by sign.
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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
January 2024

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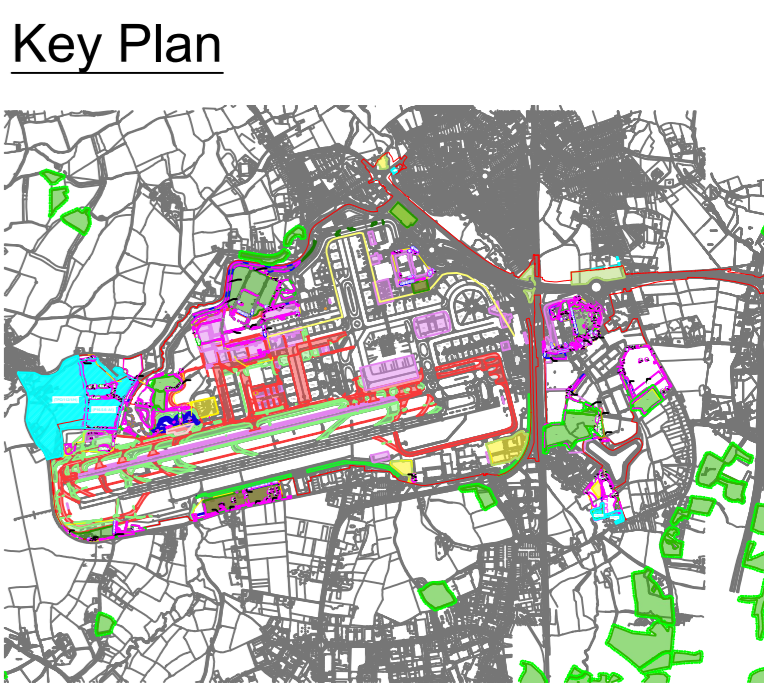
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- Key**
- Red Line boundary.
 - Survey boundary.
 - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 - = Tree details estimate (measurable tree)
 - = Tree in off site location
 - Tree group 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 - Unsuitable for retention
- Direction of first significant branch
 - Road 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 reference relates to the TPO Schedule.
 - 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)
 - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
 - Indicative temporary protective fence in accordance with Section 6.2.1 BS5837:2012. See below for example barriers.
 - Indicative secondary protective Hi-Viz Mesh fence in accordance with Section 6.2.1 BS5837:2012. See below for example barriers.
 - Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to RPA Tree Survey Report & Schedule for further details.
 - Survey based on a visual inspection from the ground and is not intended as a full structural inspection.
 - Plan produced in accordance with recommendations set out in BS 5837:2012. Trees in this plan to be removed are not to be removed.
 - Due to the large protection afforded to breeding birds vegetation removal should not take place during the bird nesting period generally, although not restricted to March - August inclusive.
 - Some trees are shown as being protected and trees located by eye.
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DOCUMENT

Environmental Statement

DRAWING TITLE

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

DATE

January 2024

ORIENTATION	DRAWING NO.	REVISION
N	740	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC

SCALE @ A0

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