



Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment – Part 4 – Tracked Version

Book 5


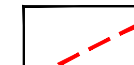


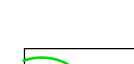

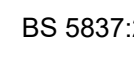

VERSION: 4.0

DATE: AUGUST 2024

Application Document Ref: 5.3

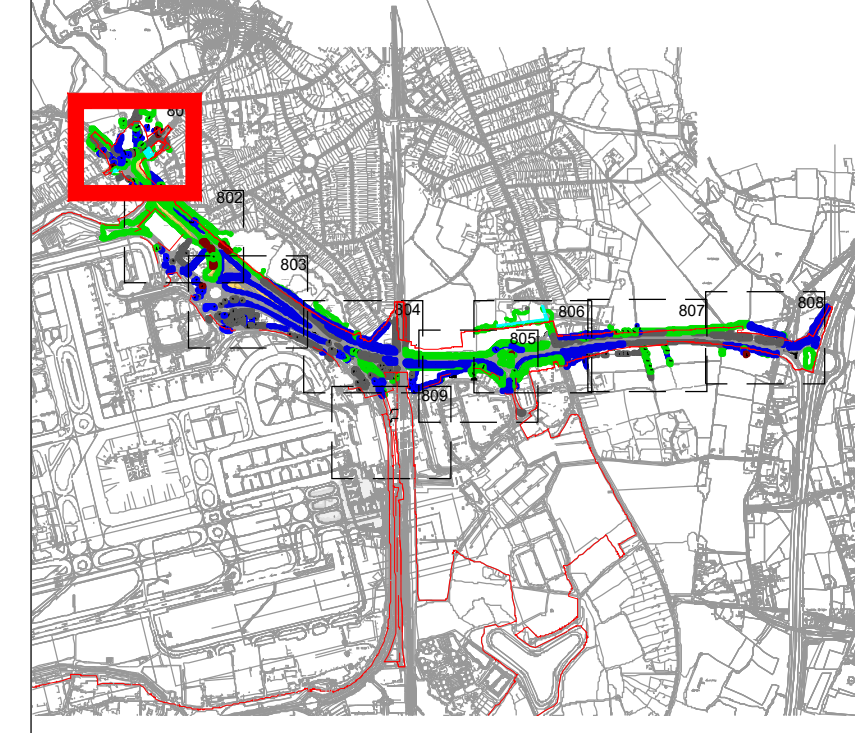
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Key

-  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.



Key Plan



DOCUMENT

Environmental Statement

DRAWING TITLE
M23 & A23 Preliminary Tree Removal Plans
 Appendix 8.10.1
 Sheet 1 of 9

DATE
 August 2024

ORIENTATION	DRAWING NO.	REVISION
N ▲	801	For ES Issue
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Lodge

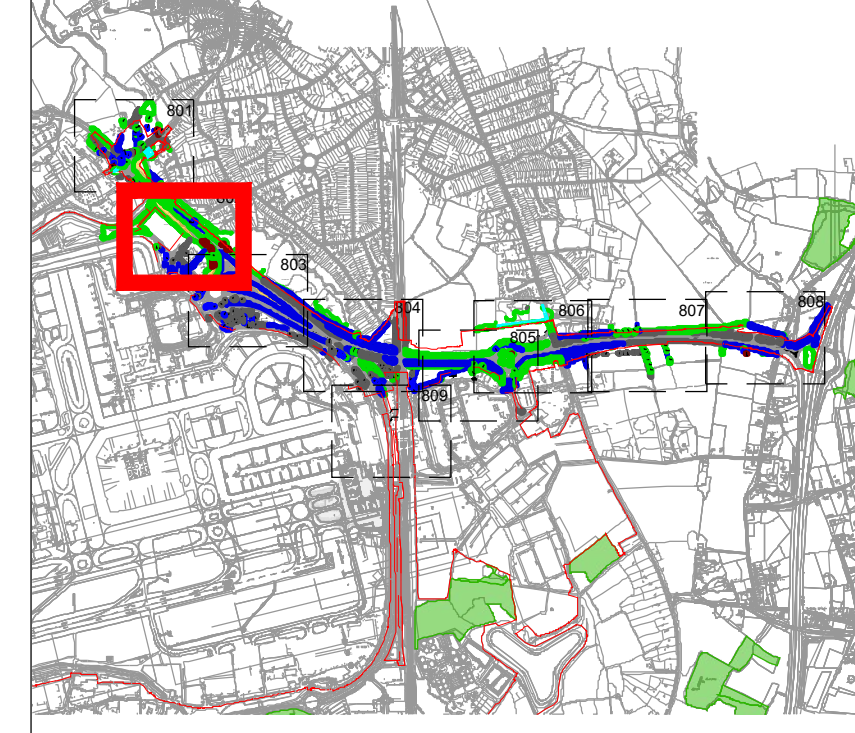
Car park

Riverside Park

Key

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

Key Plan



DOCUMENT

Environmental Statement

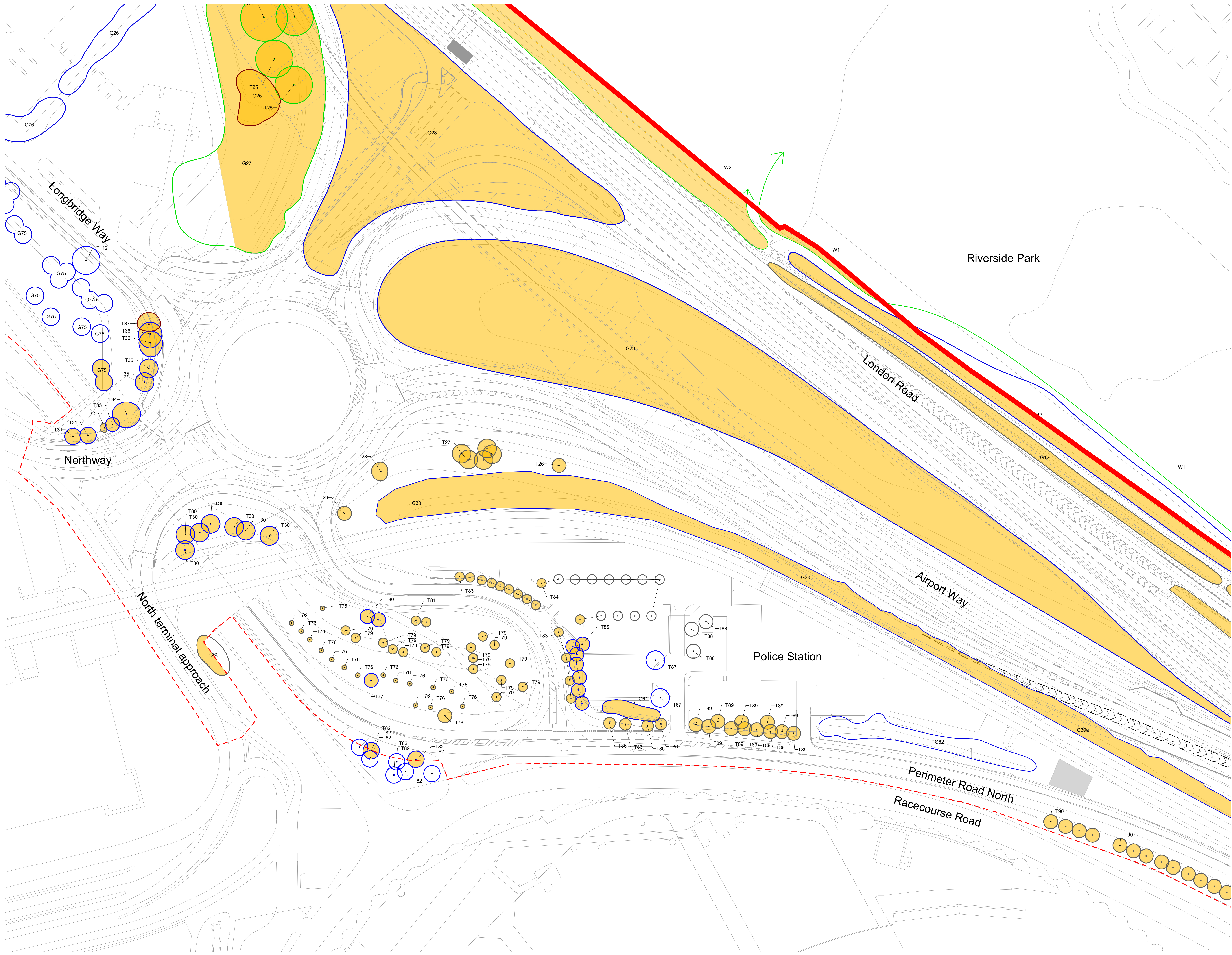
DRAWING TITLE
M23 & A23 Preliminary Tree Removal Plans
 Appendix 8.10.1
 Sheet 2 of 9

DATE
 August 2024

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	DRAWN BY RC	PM / CHECKED BY DC

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Key

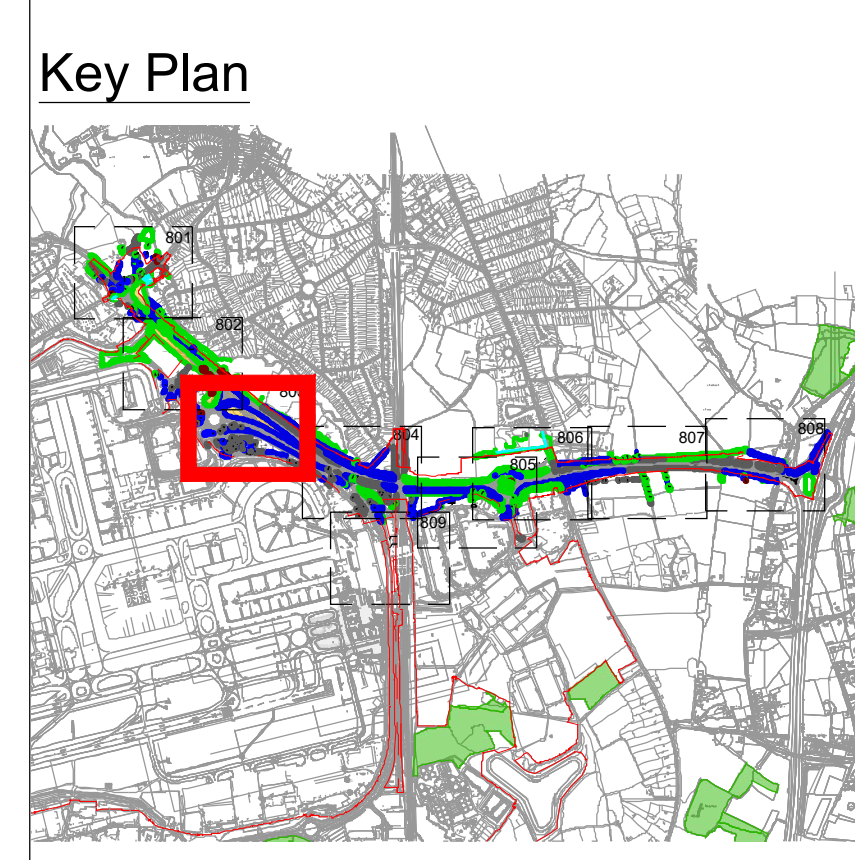
- Site Boundary
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BS 5837:2012 Tree Quality Categories - Table 1

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

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

DRAWING TITLE
M23 & A23 Preliminary Tree Removal Plans
 Appendix 8.10.1
 Sheet 3 of 9

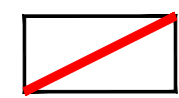
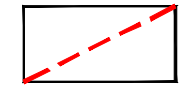


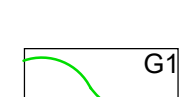
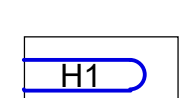
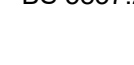


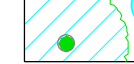
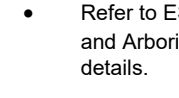
DATE
August 2024

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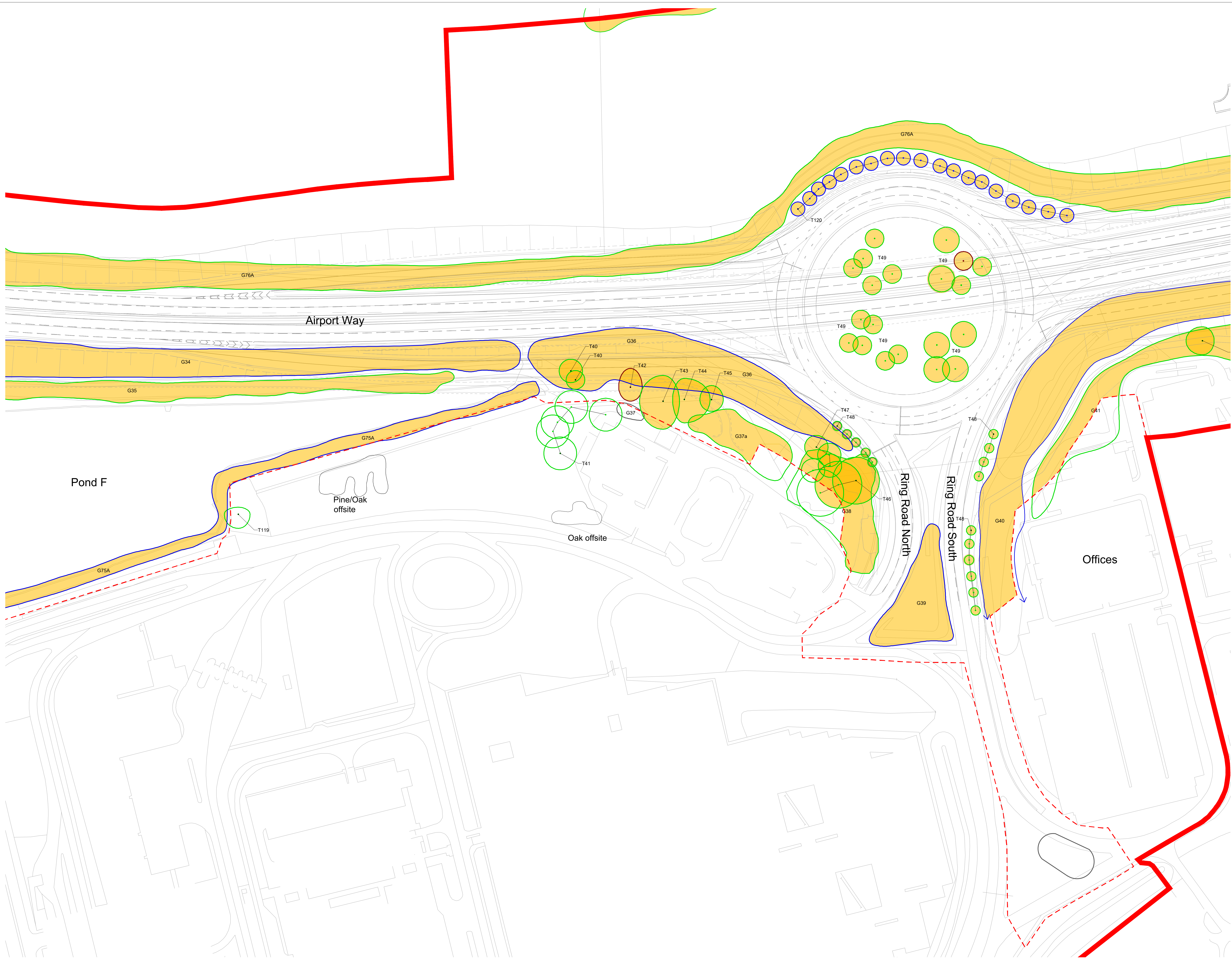
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NOTE:
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Key Plan



DOCUMENT

Environmental Statement

DRAWING TITLE
M23 & A23 Preliminary Tree Removal Plans
 Appendix 8.10.1
 Sheet 5 of 9


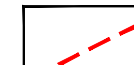


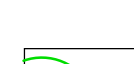

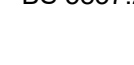


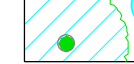
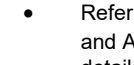
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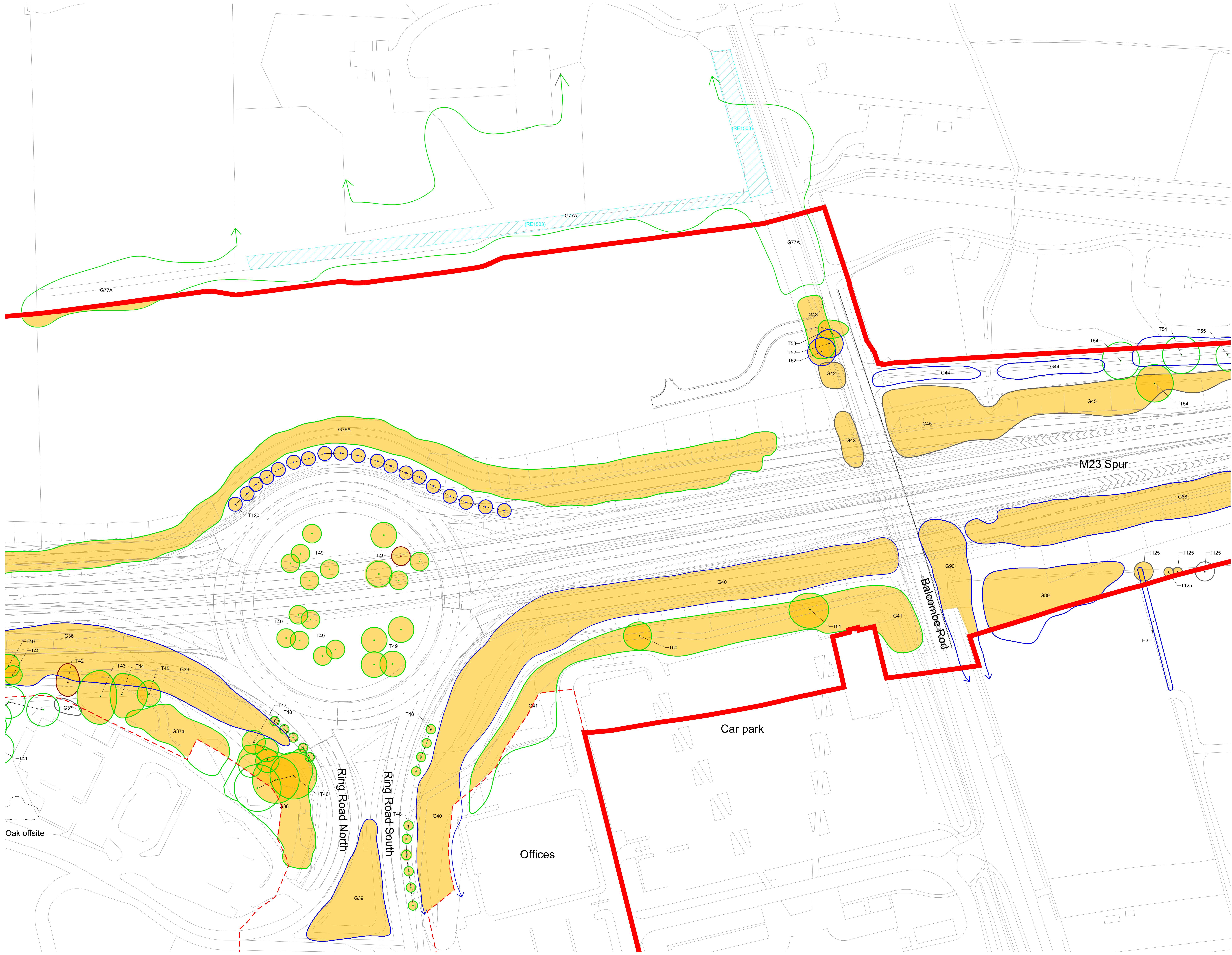
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	DRAWN BY RC	PM / CHECKED BY DC

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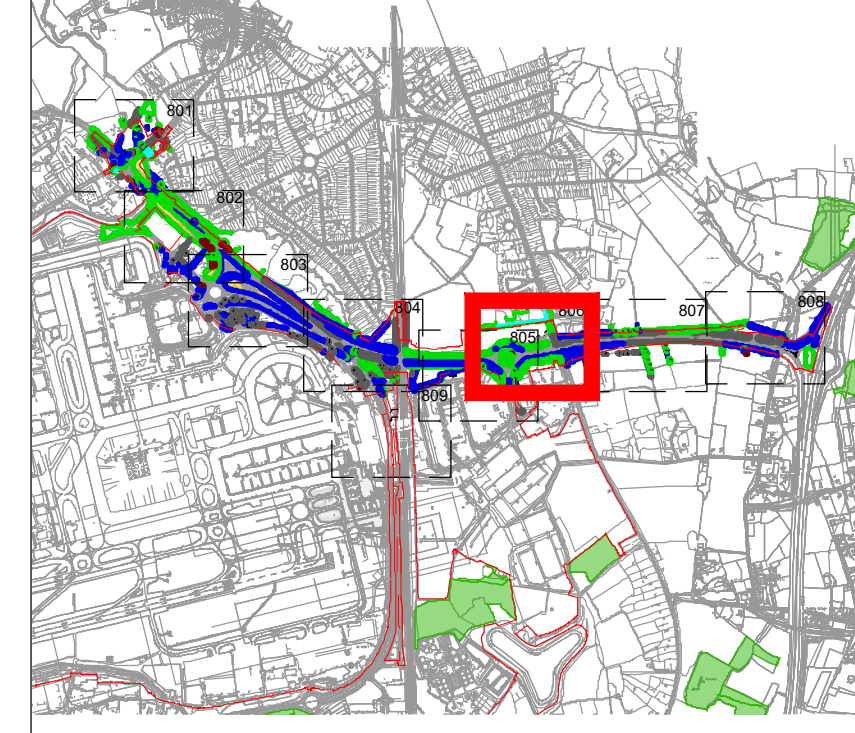
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- NOTE:**
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Key Plan



DOCUMENT

Environmental Statement

DRAWING TITLE
M23 & A23 Preliminary Tree Removal Plans
 Appendix 8.10.1
 Sheet 6 of 9






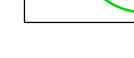
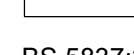


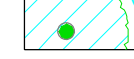
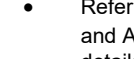
DATE
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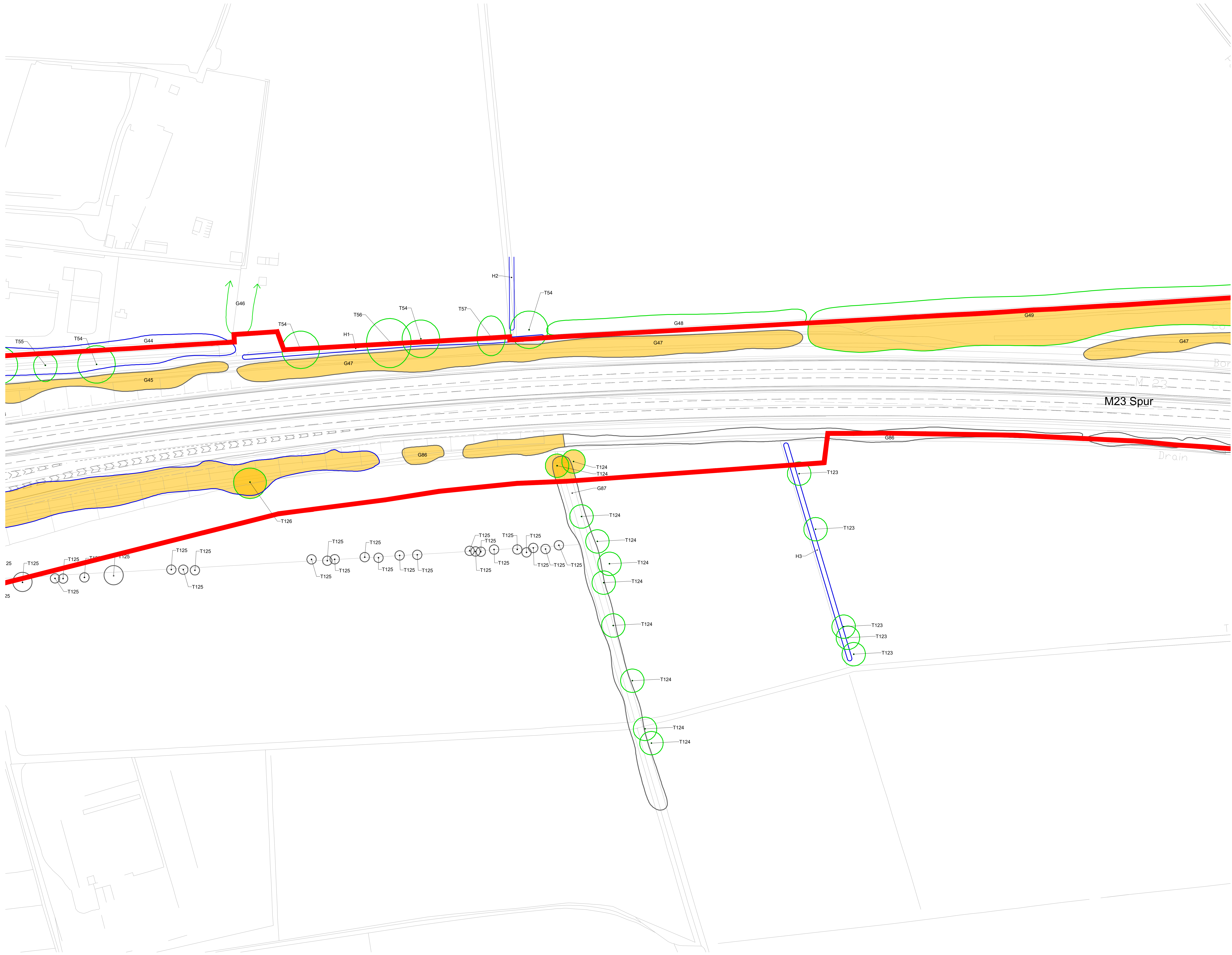
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	DRAWN BY RC	PM / CHECKED BY DC

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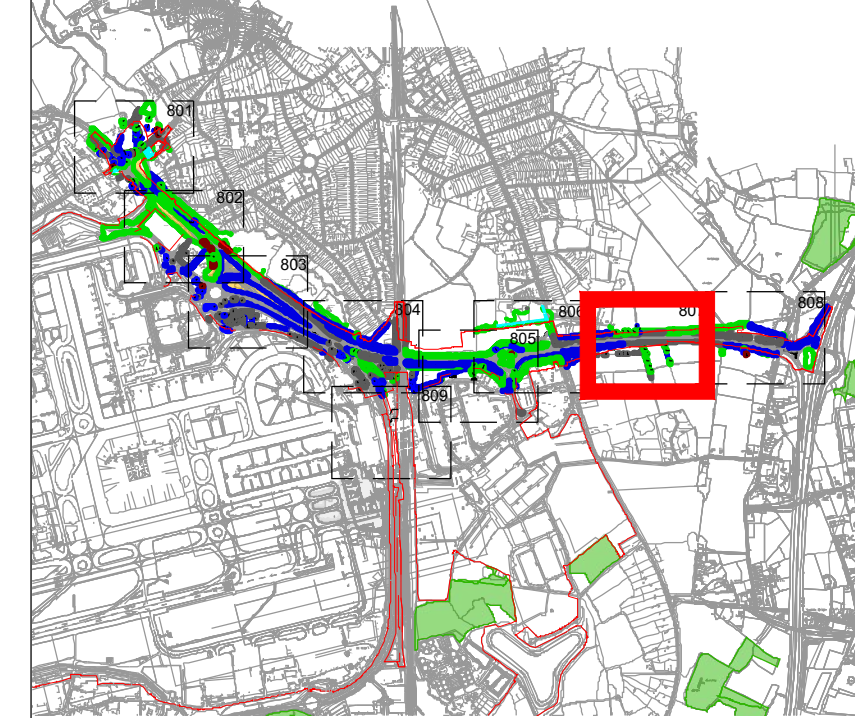
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Key

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 -  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.



Key Plan




DOCUMENT

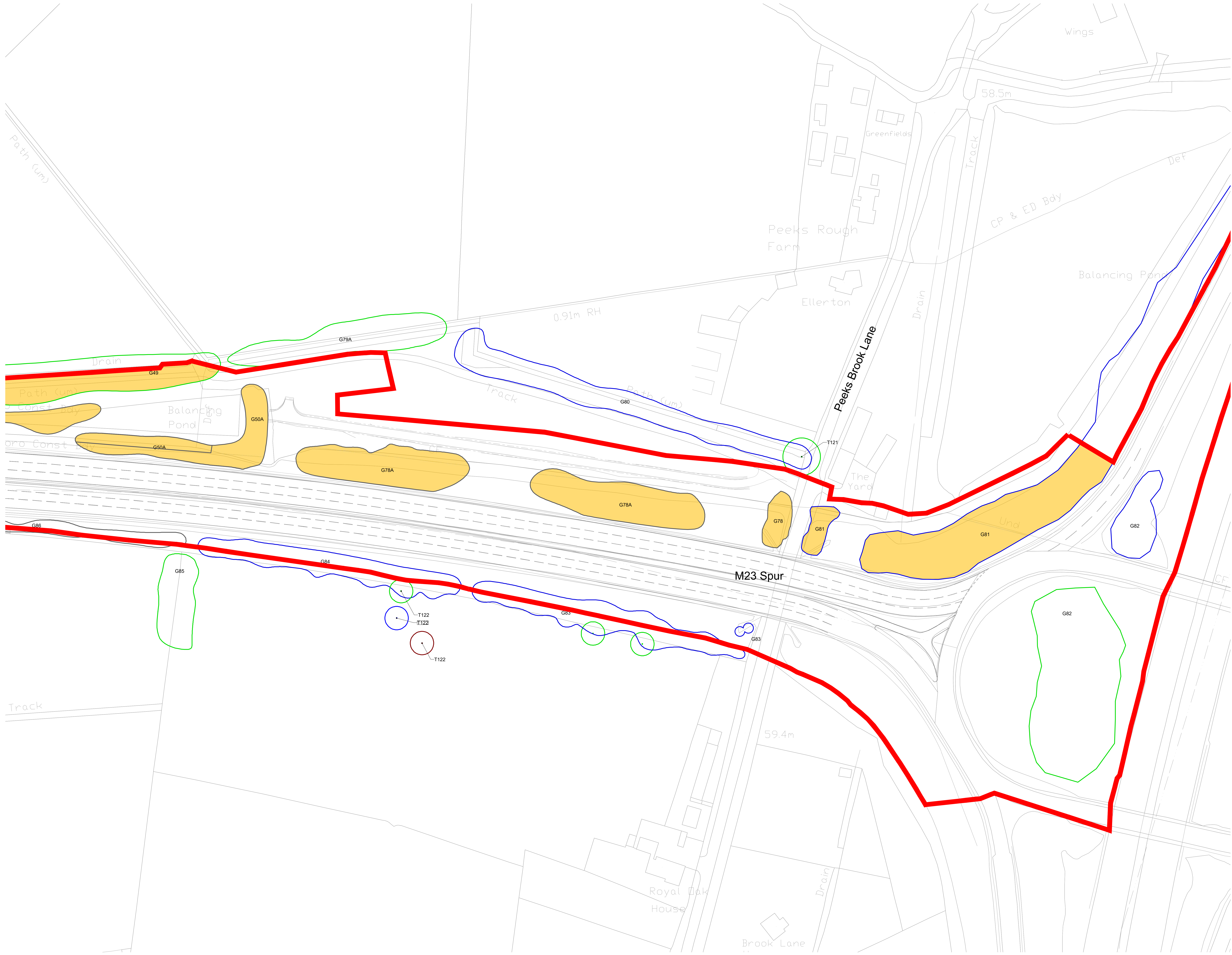
Environmental Statement

DRAWING TITLE
 M23 & A23 Preliminary Tree Removal Plans
 Appendix 8.10.1
 Sheet 7 of 9

DATE
 August 2024

ORIENTATION N 	DRAWING NO. 807	REVISION For ES Issue
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SCALE @ A0



Key

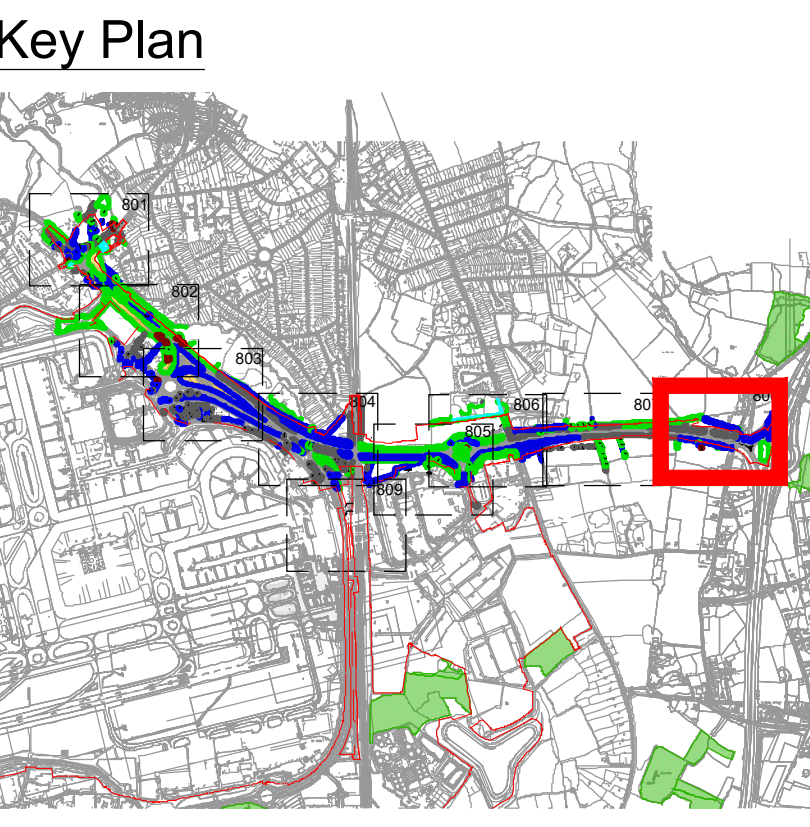
- Site Boundary
- Survey Boundary / Boundary of M23/A23 construction activity
- Projected Tree loss required for construction (Worst Case Scenario)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
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BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
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Tree protected by Tree Preservation Order. Bracketted number relates to the TPO reference.

NOTE:
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DOCUMENT

Environmental Statement

DRAWING TITLE

M23 & A23 Preliminary Tree Removal Plans
Appendix 8.10.1
Sheet 8 of 9

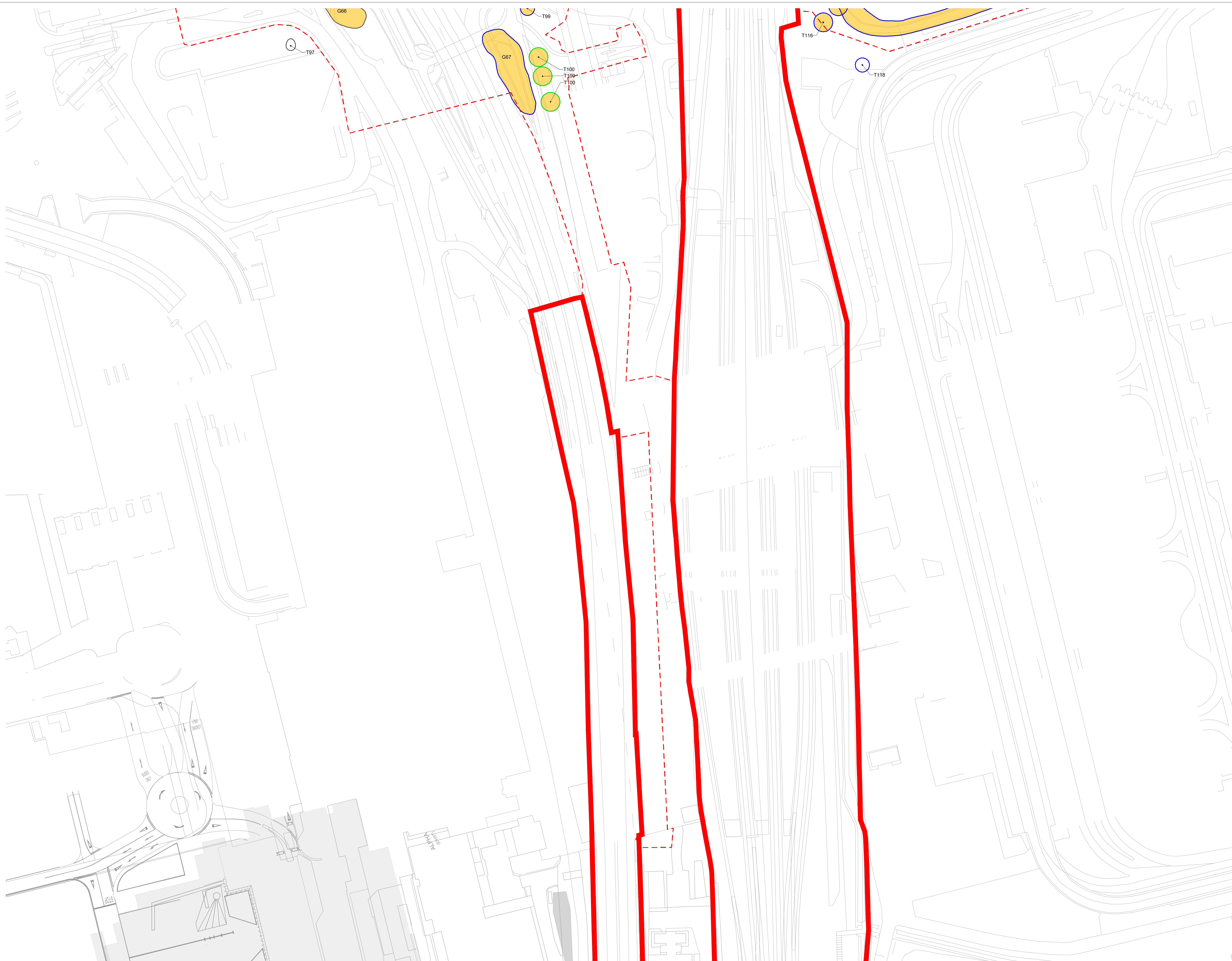
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August 2024

ORIENTATION	DRAWING NO.	REVISION
	808	For ES Issue
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	RC	DC

SCALE @ A0

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Key

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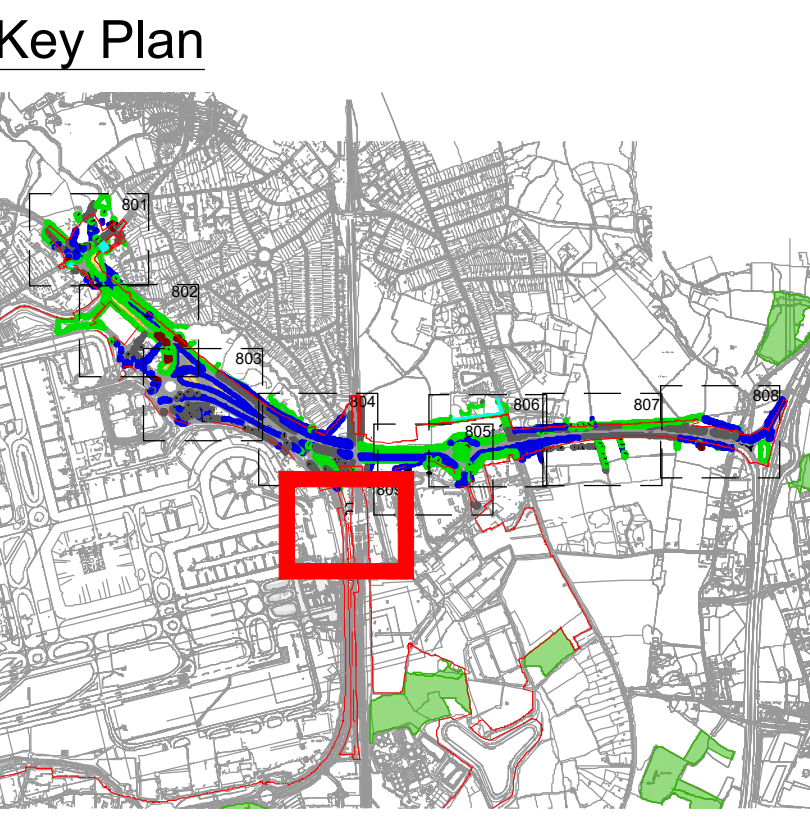
BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
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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

DRAWING TITLE
M23 & A23 Preliminary Tree Removal Plans
 Appendix 8.10.1
 Sheet 9 of 9

DATE
 August 2024

ORIENTATION 	DRAWING NO. 809	REVISION For ES Issue
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Appendix I
Airport Preliminary Tree Removal 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
- G1 Tree group plotted with individual stem locations and numbered reference. Canopy spread and coloured to match BS5837:2012 tree quality category as shown below.
- G1 Tree or Vegetation group with numbered reference. Canopy extends below and dashed line to show indicative stem line.
- H1 Hedge with numbered reference. Canopy extends below and dashed line to show hedge centerline.
- W1 Woodland with numbered reference. Canopy extends 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)

Projected tree loss required for construction of the Project (worst case scenario)

Indicative Scheme Layout

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.
- Plans 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 Plans
Appendix 8.10.1
Overview**

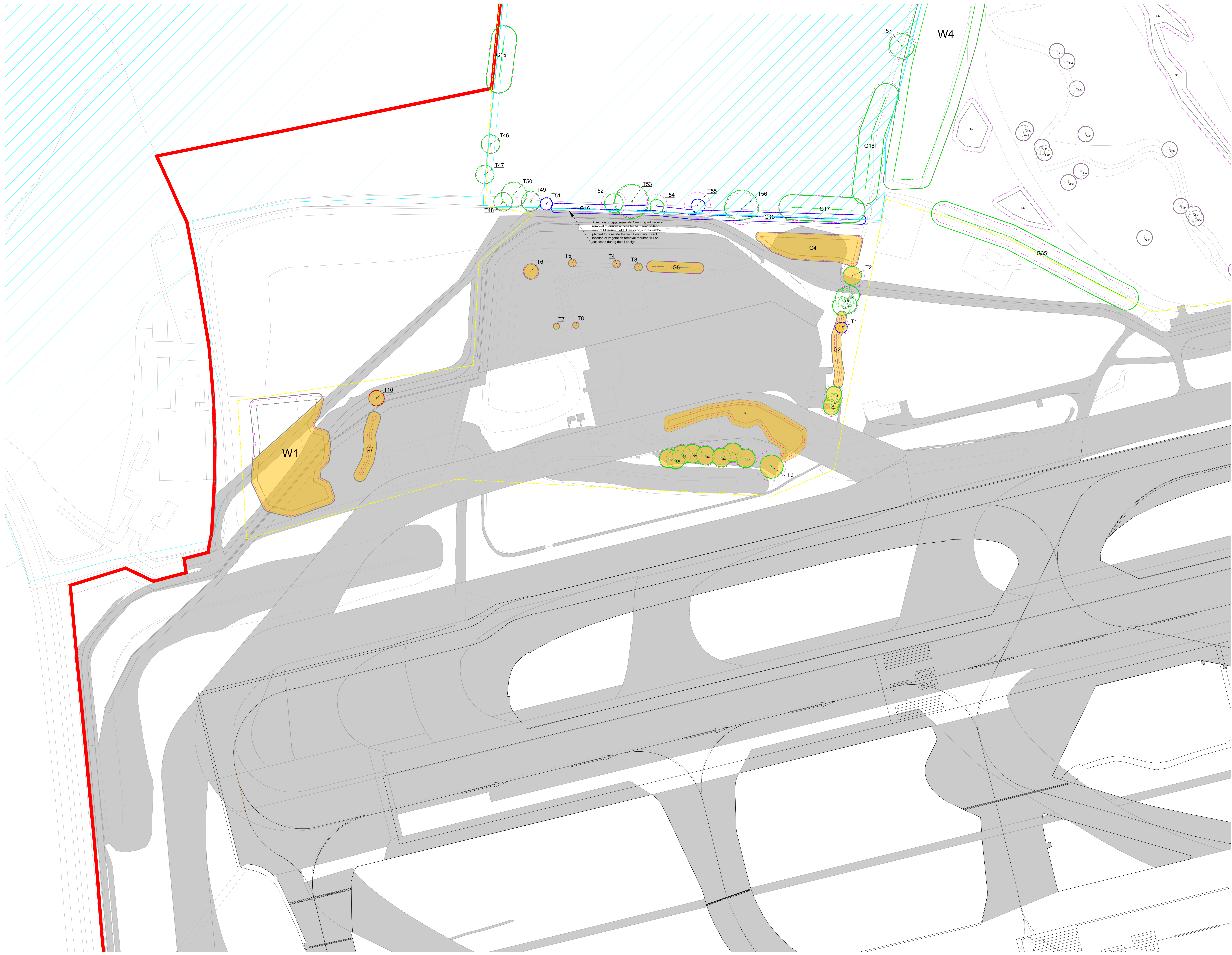
DATE

August 2024

ORIENTATION	DRAWING NO.	REVISION
N ▲	735	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.
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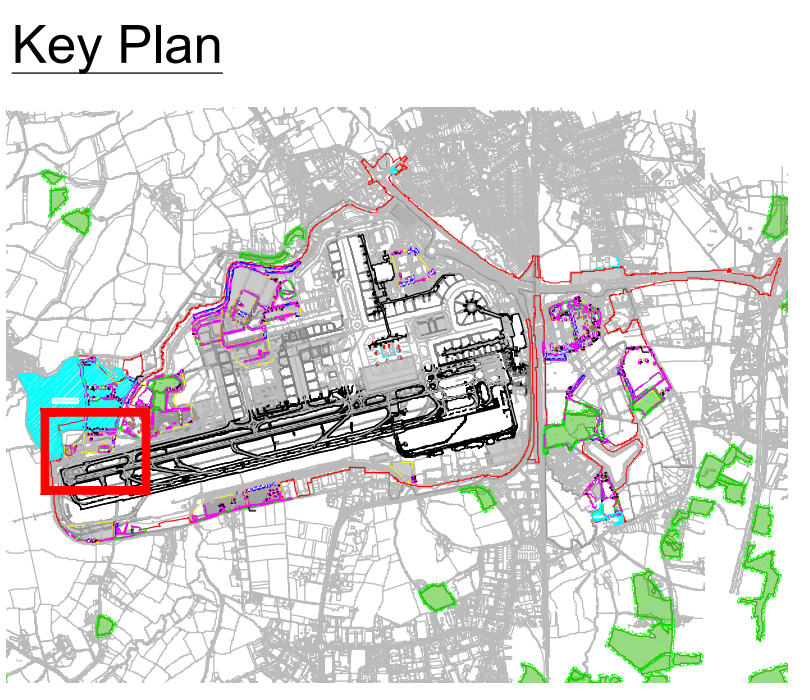
BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
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- Category C - Low quality
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- 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

NOTES:

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DOCUMENT

Environmental Statement

DRAWING TITLE

**Airport Preliminary Tree Removal Plans
Appendix 8.10.1
Sheet 1 of 13**

DATE

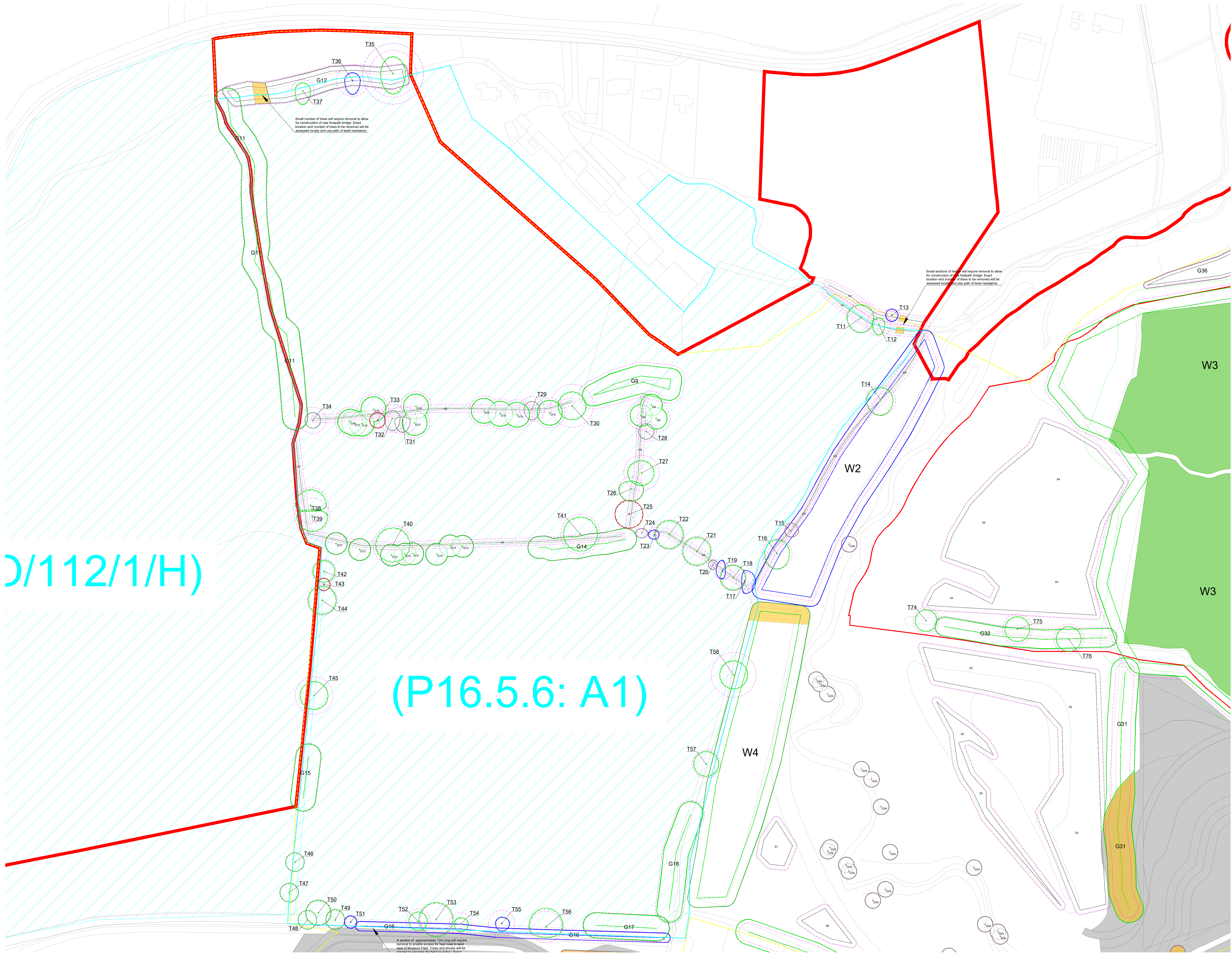
August 2024

ORIENTATION	DRAWING NO.	REVISION
N	736	For ES Issue
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	RC	DC

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0m 25m 50m

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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.

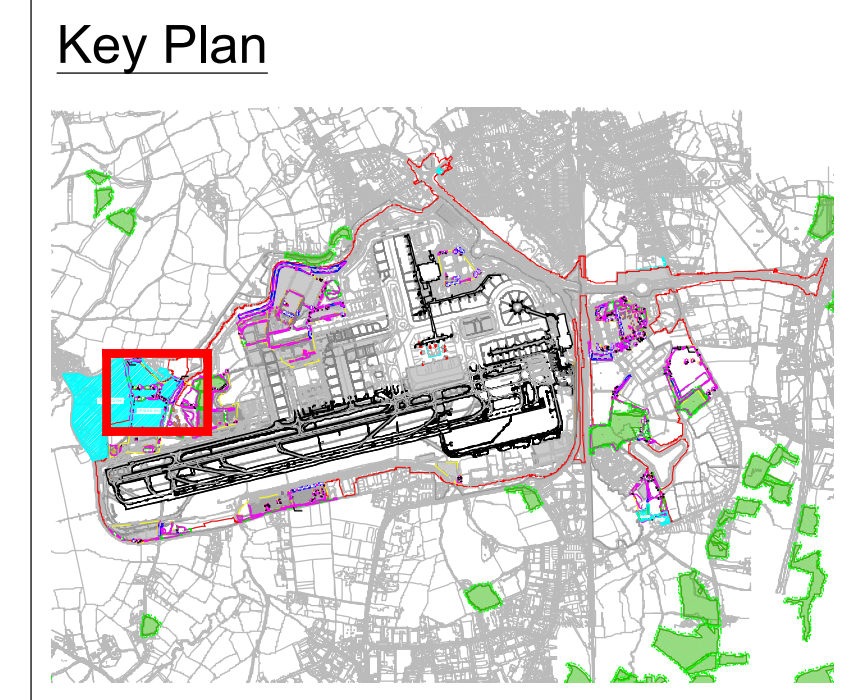
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- Tree protected by Tree Preservation Order. Bracketed number relates to the TPO reference.
- Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
- Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)
- Projected tree loss required for construction of the Project (worst case scenario)
- Indicative Scheme Layout

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 looked by eye.



D/112/1/H)

(P16.5.6: A1)

DOCUMENT

Environmental Statement

DRAWING TITLE

Airport Preliminary Tree Removal Plans
Appendix 8.10.1
Sheet 2 of 13

DATE

August 2024

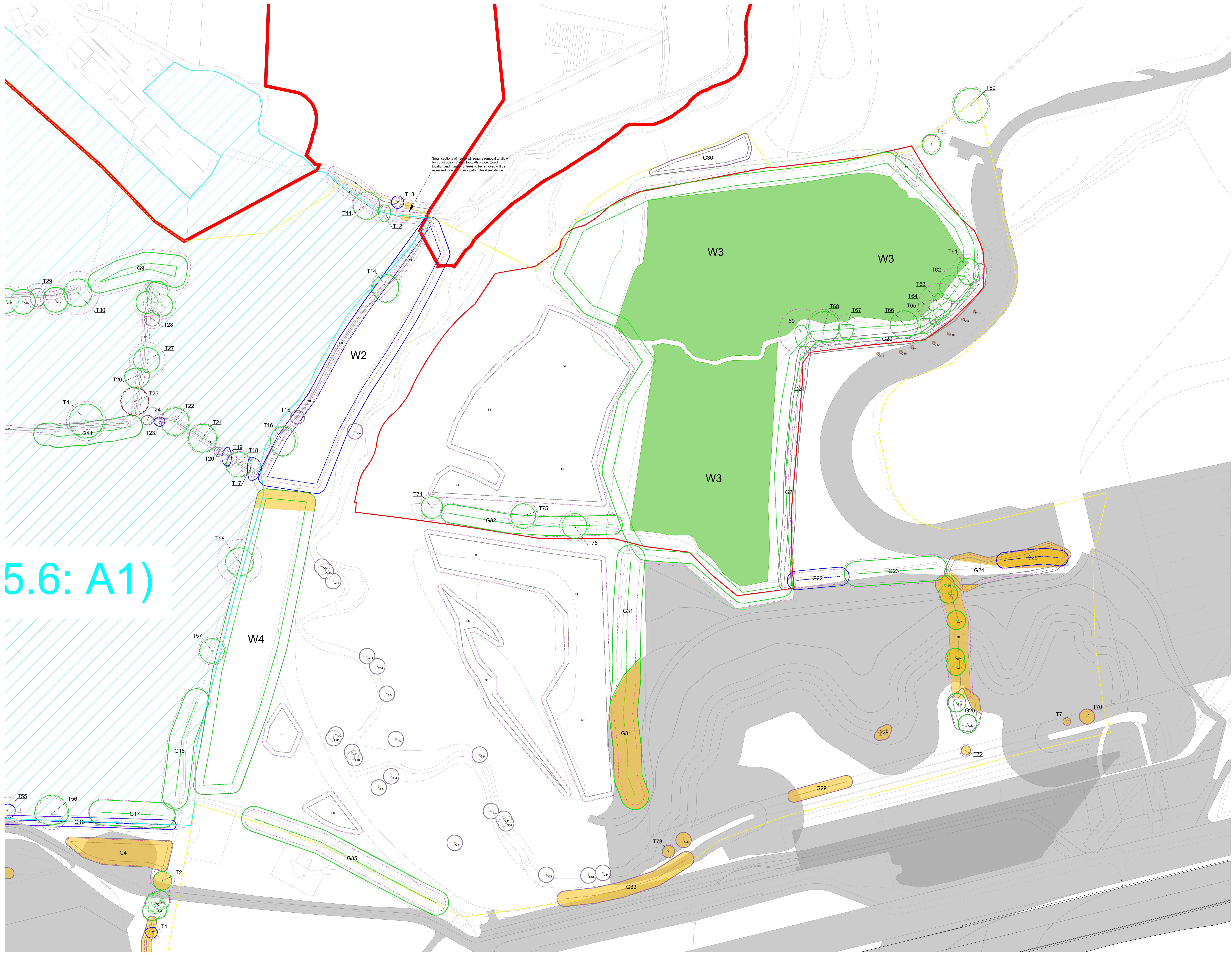
ORIENTATION	DRAWING NO.	REVISION
N	737	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC

SCALE @ A0

0m 25m 50m

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5.6: A1)

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

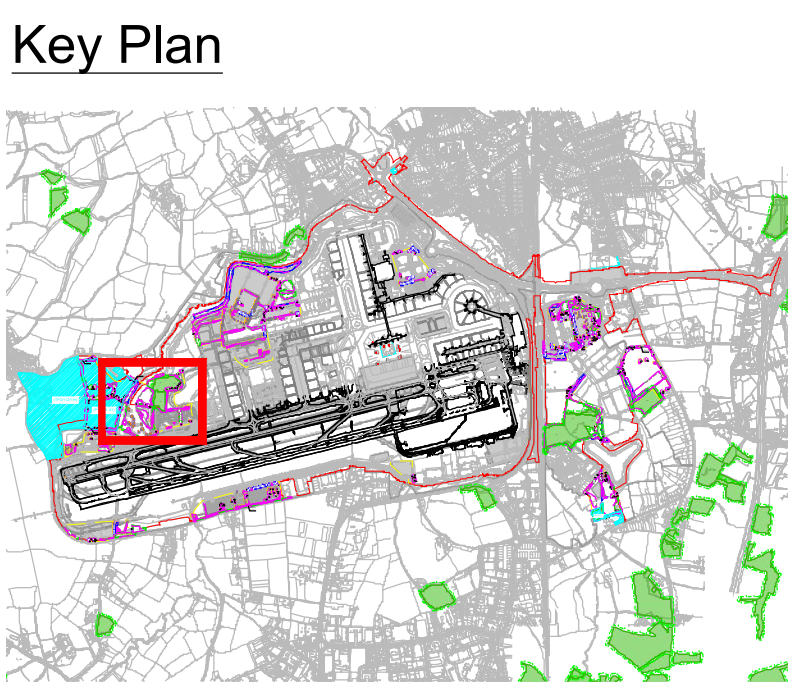
BS 5837:2012 Tree Quality Categories - Table 1

- 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
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DOCUMENT

Environmental Statement

DRAWING TITLE

Airport Preliminary Tree Removal Plans Appendix 8.10.1 Sheet 3 of 13

DATE

August 2024

ORIENTATION	DRAWING NO.	REVISION
N	738	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC

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
- G1 Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below.
- 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 centerline.
- 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.

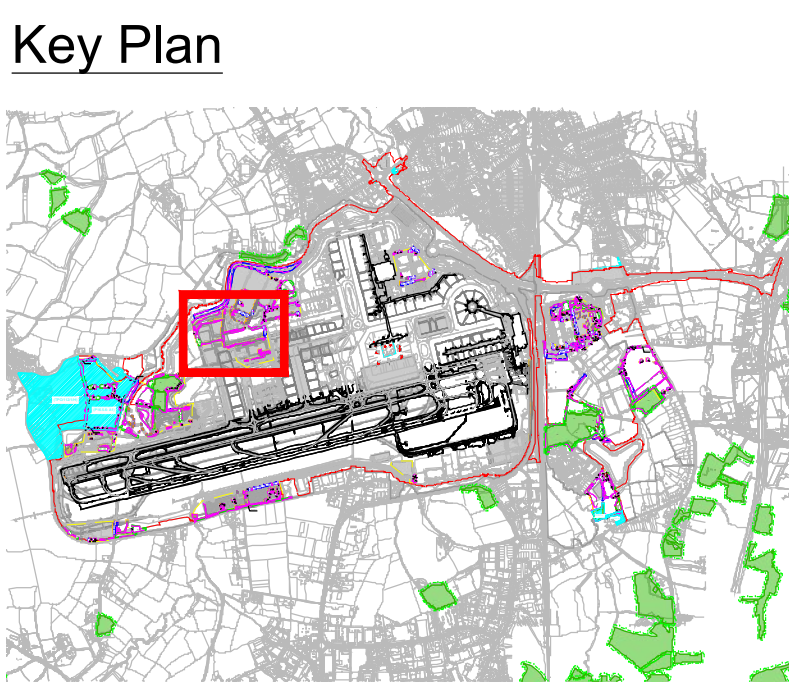
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DOCUMENT

Environmental Statement

DRAWING TITLE

**Airport Preliminary Tree Removal Plans
Appendix 8.10.1
Sheet 4 of 13**

DATE

August 2024

ORIENTATION	DRAWING NO.	REVISION
	739	For ES Issue
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	RC	DC

SCALE @ A0

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