



# Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment – Part 5 – Tracked 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.
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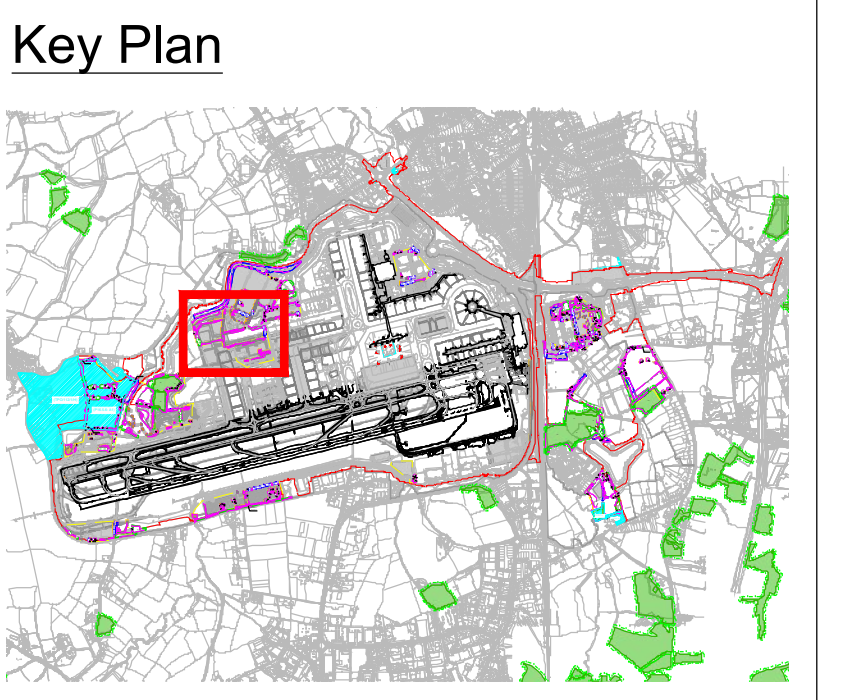
BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
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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
	DRAWN BY	PM / CHECKED BY
	RC	DC

SCALE @ A0

0m 25m 50m

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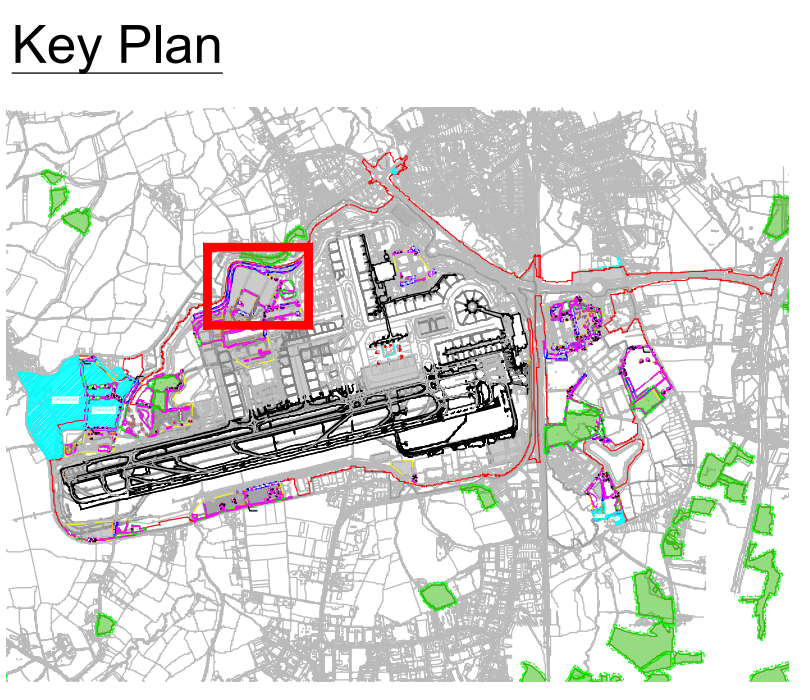
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**Airport Preliminary Tree Removal Plans Appendix 8.10.1 Sheet 5 of 13**

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ORIENTATION	DRAWING NO.	REVISION
N	740	For ES Issue
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	RC	DC

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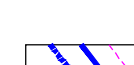


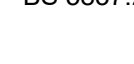



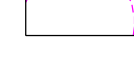
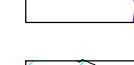




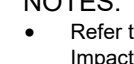
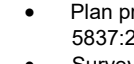
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**Airport Preliminary Tree Removal Plans  
Appendix 8.10.1  
Sheet 6 of 13**

**DATE**

**August 2024**

**ORIENTATION**



**DRAWING NO.**

**741**

**REVISION**

**For ES Issue**

**DRAWN BY**

**RC**

**PM / CHECKED BY**

**DC**








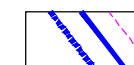

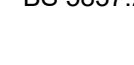




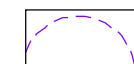
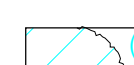

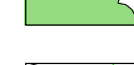



**SCALE @ A0**



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**DRAWING TITLE**

**Airport Preliminary Tree Removal Plans  
Appendix 8.10.1  
Sheet 7 of 13**

**DATE**

**August 2024**

**ORIENTATION**



**DRAWING NO.**

**742**

**REVISION**

**For ES Issue**

**DRAWN BY**

**RC**

**PM / CHECKED BY**

**DC**

**SCALE @ A0**







A section of H32 approximately 12m long will require removal to enable access for soil deposition at Perimeter Field. Trees and shrubs will be planted to reinstatement the hedge. Exact location of vegetation removal required will be assessed during detail design.

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Sheet 8 of 13**

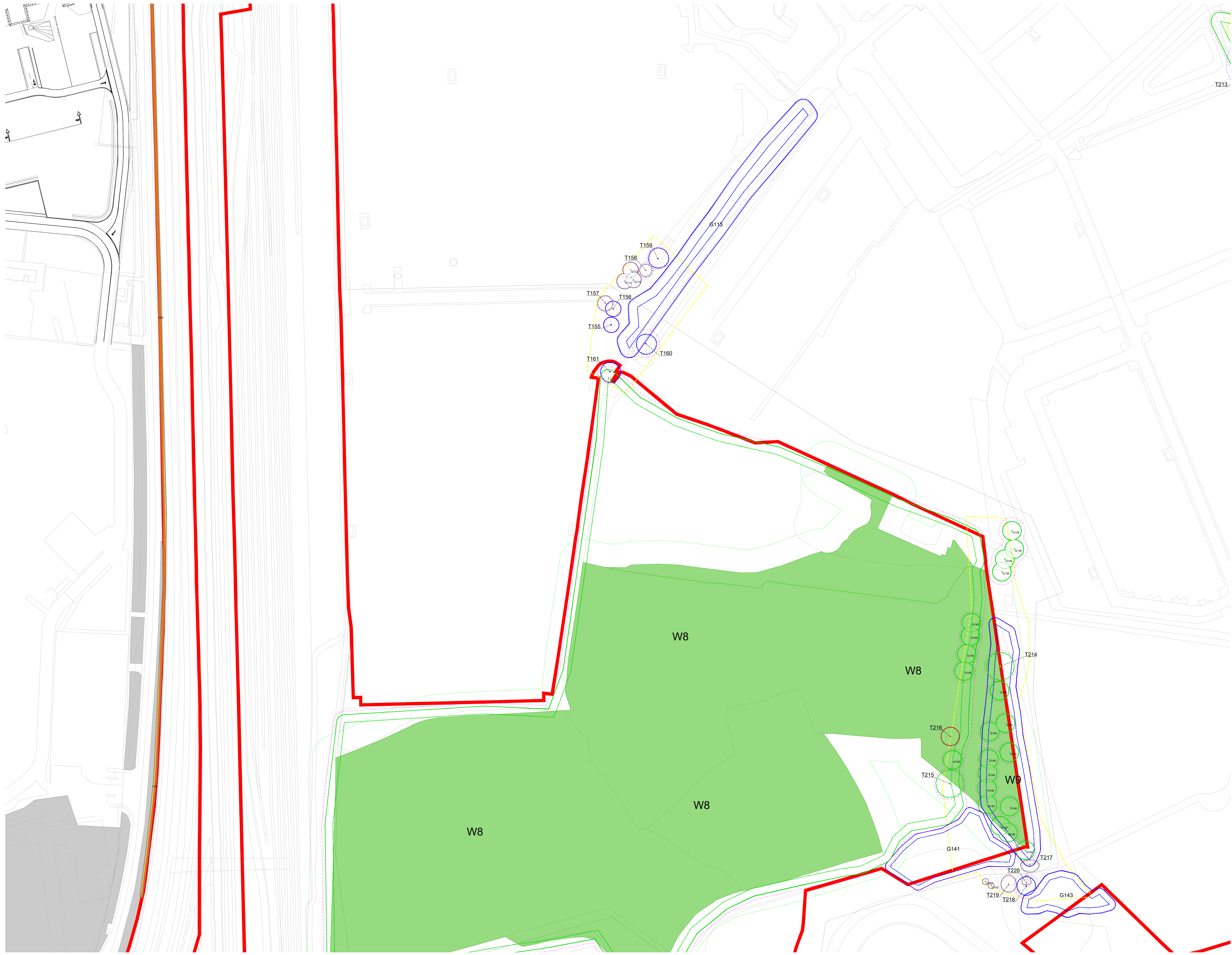
**DATE**  
August 2024

ORIENTATION	DRAWING NO.	REVISION
N ▲	743	For ES Issue
	DRAWN BY RC	PM / CHECKED BY DC

**SCALE @ A0**  
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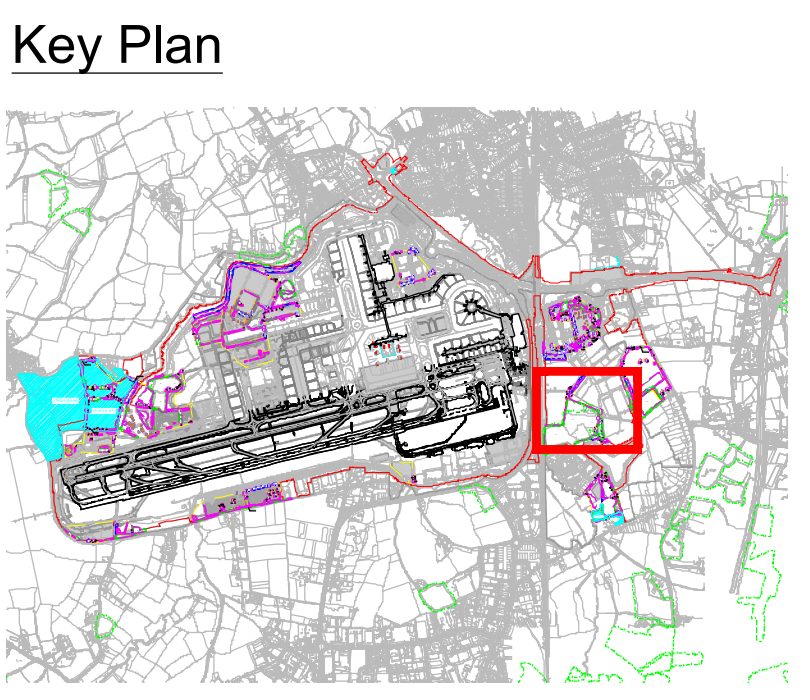
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SCALE @ A0







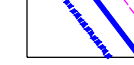






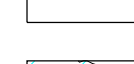


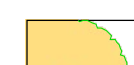

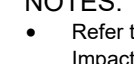
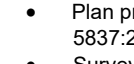

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Sheet 10 of 13**

**DATE**  
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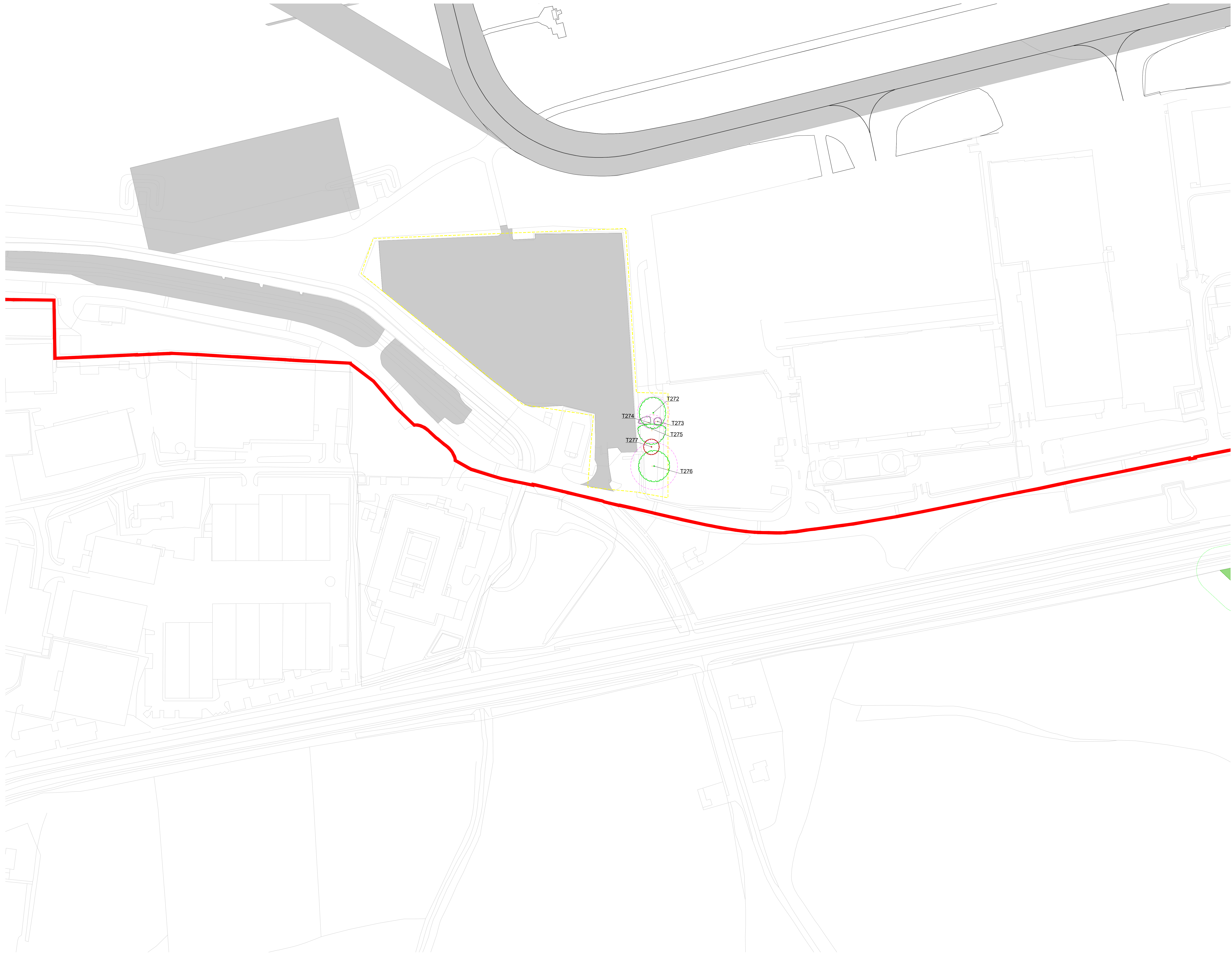
ORIENTATION	DRAWING NO.	REVISION
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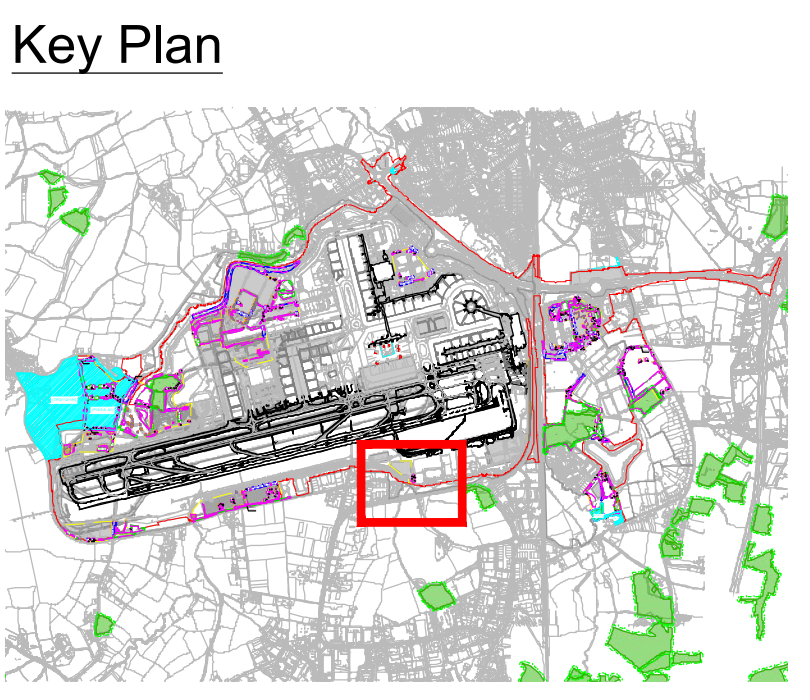
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Sheet 11 of 13**

DATE

**August 2024**

ORIENTATION N	DRAWING NO. 746	REVISION For ES Issue
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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 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.

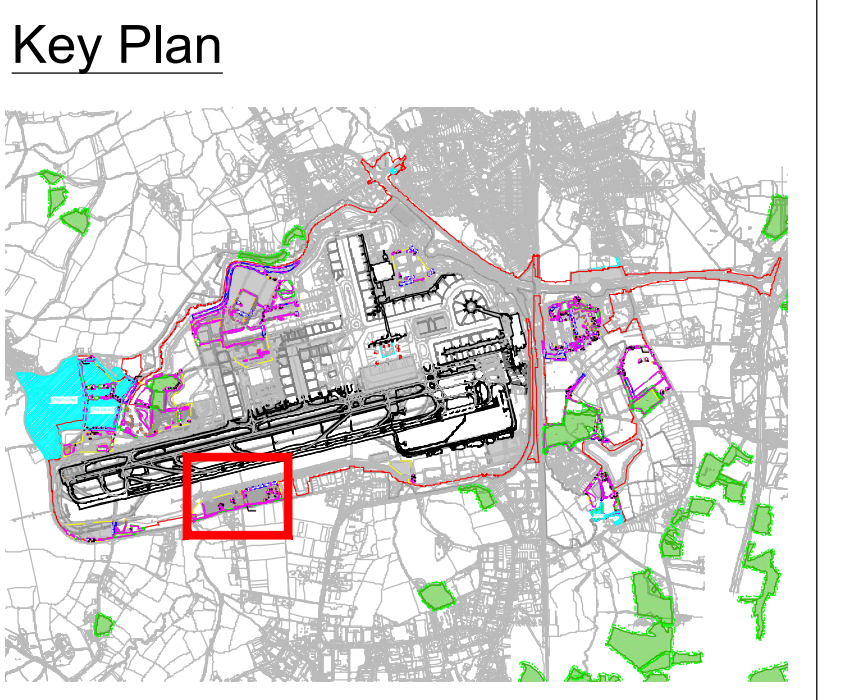
**BS 5837:2012 Tree Quality Categories - Table 1**

- 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)
- Trees 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.
- 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.



DOCUMENT

**Environmental Statement**

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DRAWING TITLE

**Airport Preliminary Tree Removal Plans  
Appendix 8.10.1  
Sheet 12 of 13**

DATE

**August 2024**

ORIENTATION	DRAWING NO.	REVISION
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	RC	DC






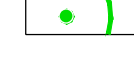
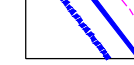








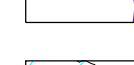


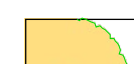

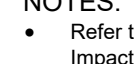
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0m      25m      50m

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**Key**

-  Site boundary.
  -  Survey boundary.
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    -  = 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.
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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**
-  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)
  -  Trees 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.



**Key Plan**



**DOCUMENT**

**Environmental Statement**

**DRAWING TITLE**

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

**DATE**

**August 2024**

**ORIENTATION**



**DRAWING NO.**

**748**

**REVISION**

**For ES Issue**

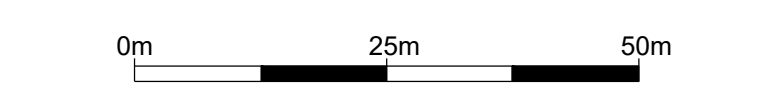
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**RC**

**PM / CHECKED BY**

**DC**

**SCALE @ A0**



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Appendix J

Tree Loss and Replanting Calculation Methodology



# TECHNICAL NOTE: Tree Loss and Replanting Calculation Methodology

## 1 Introduction

### 1.1 Purpose of this note

1.1.1 This technical note provides a summary of how tree loss and replanting figures for the part of the Gatwick Airport's Northern Runway Project (the 'Project') which lies within Crawley Borough Council's administrative area were calculated in accordance with Crawley Borough Local Plan 2015-2030 (December 2015) Policy CH6: "Tree Planting and Replacement Standards".

1.1.2 The technical elements, taken from ES Appendix 8.10.1, which contribute to this note are:

- Appendix D: M23 and A23 Tree Removal Schedule
- Appendix E: Airport Tree Removal Schedule
- Appendix H: M23 & A23 Preliminary Tree Removal Plans
- Appendix I: Airport Preliminary Tree Removal Plans
- Appendix J: Annex 1 - Crawley Replanting Calculation Tables
- Appendix J: Annex 2 - Project Wide Replanting Calculation Tables

1.1.3 This technical note has been updated to reflect the updated Tree Survey Report and Arboricultural Impact Assessment (contained in **ES Appendix 8.10.1**) (Doc Ref. 5.3). Whilst the draft DCO already provided for full details of both tree (and vegetation) loss and replanting to be submitted to and approved by the local authority, the JLAs have stressed their need for more detail at this stage. In response to comments from the JLAs and the subsequent discussions, therefore, the Applicant has brought forward work to provide additional detail on the tree loss and replanting which will occur as a result of the Project as follows:

- 1) A walkover survey to collate more detailed information about the existing trees across the site as reported in the updated AIA.
- 2) Further internal discussions with the design and construction teams about tree removal required along the surface access improvement corridor have confirmed, as expected, that the absolute worst-case scenario that is assumed in the EIA is overly cautious not realistic and not all those trees will be required to be removed. Whilst still taking a conservative approach, the planned tree removal along the



surface access corridor has been reduced as shown on the Preliminary Tree Removal and Protection Plans, which are secured by DCO Requirement 28.

- 3) Developing the planting specifications for the Museum Field Environmental Mitigation Area ~~following and~~ detailed discussions with the safeguarding team at the airport has confirmed that a large number of trees can be appropriately planted in this area. This conforms the planned planting in this area which was ~~has been~~ included in an updated version of the Outline Landscape and Ecology Management Plan (Doc Ref. 5.3) submitted at Deadline 6 and which is to be secured by DCO Requirement 8.

## 1.2 Policy CH6 Tree Replanting Standards

- 1.2.1 Crawley Borough Council has a specific local policy about the planting and replacement of trees within its borough. This is Local Policy CH6 “Tree Planting and Replacement Standards” which states:

*“Where development proposals would result in the loss of trees, applicants must identify which trees are to be removed and replaced in order to mitigate for the visual impact resulting from the loss of the tree canopies. Proposals must demonstrate that the number of replacements accords with the following requirements:*

*Trunk diameter of each tree (measured in cms at 1.5m above ground level) to be removed, and number of replacement trees:*

- *Less than 19.9cm = 1 replacement tree*
- *20-29.9cm = 2 replacement trees*
- *30-39.9cm = 3 replacement trees*
- *40-49.9cm = 4 replacement trees*
- *50-59.9cm = 5 replacement trees*
- *60-69.9cm = 6 replacement trees*
- *70-79.9cm = 7 replacement trees*
- *80 plus cm = 8 replacement trees”*

- 1.2.2 The surveys that were initially carried out by the Applicant were in accordance with BS5837:2012 Standards. Precise conformity with Policy CH6 requires a specific number of trees to be known; the results of a survey in accordance with the BS do not produce that. Instead the BS allows for averages to be used.



- 1.2.3 Following the BS, for larger groups or those with a mixed range of sizes within the group, the average DBH is recorded but the specific number of trees is not recorded:

*“4.4.2.3 Trees growing as groups or woodland should be identified and assessed as such where the arboriculturist determines that this is appropriate. However, an assessment of individuals within any group should still be undertaken if there is a need to differentiate between them, e.g. in order to highlight significant variation in attributes (including physiological or structural condition).”*

*NOTE The term “group” is intended to identify trees that form cohesive arboricultural features either aerodynamically (e.g. trees that provide companion shelter), visually (e.g. avenues or screens) or culturally, including for biodiversity (e.g. parkland or wood pasture), in respect of each of the three subcategories (see 4.5).”*

- 1.2.4 In accordance with~~Under~~ the BS the approximate canopy area is plotted on plans rather than each individual tree.

1.2.5 In response to a request from Crawley Borough Council to provide an assessment against Policy CH6; an additional survey which does not follow the BS was required. This has now been carried out and is reported in Annex 1 to this document.

4.2.51.2.6 It remains relevant, however, that the actual precise extent of tree loss cannot be known until the detailed design stage and that the application continues to take a cautious approach to the estimation of tree loss.



## 2 ~~Replanting~~ Calculation Methodology to Inform Compliance with Policy CH6

2.1.1 This section sets out how the tree removal and replacement calculations have been carried out to identify the number of trees that would be required to be replanted for the Project in order for the Project to be compliant with Policy CH6.

### 2.2 Tree Removal Calculation Methodology

2.2.1 To calculate the number of trees to be removed in each group, in a proportionate and fair way to inform the Policy CH6 calculation, ~~at this stage,~~ the following method has been applied:

#### A. Assumptions

- That the density of each group is uniform.
- That 50% of trees within each group will be within the average size range (stem diameter) of trees within the group.
- That 25% of trees will have a smaller stem diameter than the average tree in the group and that 25% will be larger.

#### B. Additional Data Collection

2.2.2 To calculate the range of tree sizes within each group an additional walkover survey was carried out to collect the following data for each group, or part of group, to be removed:

- Approximate size of smallest trees within group, ignoring outliers (Lowest DBH).
- The most common size of tree within each group (Mode DBH).
- Approximate size of largest trees within group, ignoring outliers (Highest DBH).
- Approximate spacing of trees within each group (Centres)

2.2.3 Additionally, the canopy area of groups, or the parts of groups, to be removed was measured in AutoCAD and recorded.

#### C. Calculation

2.2.4 To estimate the approximate number of trees being removed within each group the following calculation was applied, and the result recorded:

$$\text{Tree Number} = \frac{\text{Area of Group}}{\text{Centres}^2}$$



## 2.3 Tree Replacement Calculation Methodology

2.3.1 The tree removal figure for each group was then divided up into three, with the following calculations, in order to approximate numbers of trees within each size category within a group:

- Upper 25% (Small Trees) = (Tree number/100) x25
- Middle 50% (Average Trees) = (Tree number/100) x50
- Lower 25% (Larger Trees) = (Tree number/100) x25

### A. Average Size Calculations

2.3.2 To estimate the approximate average DBH for each of the above three tree size categories within each removed group, the following calculations were made:

- Upper 25% Average= (Lowest DBH + Middle 50% Average) / 2
- Middle 50% Average= (Lowest DBH + Highest DBH + Mode DBH2) / 4
- Lower 25% Average= (Highest DBH + Middle 50% Average) / 2

### B. Replanting Calculations

2.3.3 When the average DBH had been calculated for the three categories within each group they were compared to the DBH listed in the Crawley BC Local Plan Policy CH6 replanting requirement (see section 1.2). This identifies how many trees are needed to replace each of those within each size range

Example:

Lower 25% Average= 150mm, Policy CH6 States: Less than 19.9cm = 1 replacement tree

Middle 50% Average= 300mm, Policy CH6 States: 30-39.9cm = 3 replacement trees

Higher 25% Average= 450mm, Policy CH6 States: 30-39.9cm = 40-49.9cm = 4 replacement trees

2.3.4 These numbers are then multiplied by the tree replacement multiplier for each size category and added together to give a total replanting figure for the group:

Example:

Lower 25% Tree Number = 10 x 1 replacement trees = 10 Trees

Middle 50% Tree Number = 20 x 3 replacement trees = 60 Trees

Higher 25% Tree Number = 10 x 4 replacement trees = 40 Trees

Total Replacement Figure for Group = 110 Trees



### 3 Replanting Calculation for the Project to Inform Compliance with Policy CH6

#### 3.1 Tree Removal Calculation

- 3.1.1 When totalled, and added to the individual tree removal figures, these removal calculations show that there are a maximum of approximately 9,410,508 trees to be removed within Crawley Borough Council's administrative area:

Trees Removed within Crawley Boroug (Estimated)
9,508

#### 3.2 Required Replacement Trees under CH6 Policy

- 3.2.1 The table below shows the total number of trees required to be replanted to comply with CH6 Policy on the basis of the size category for all trees proposed for removal within Crawley Borough, including individual trees:

Crawley Borough Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
1826	<199	1	1826
2892	200-299	2	5783
1768	300-399	3	5305
886	400-499	4	3542
1052	500-599	5	5261
556	600-699	6	3336
41	700-799	7	287
488	>800	8	3902
<b>9508</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>29242</b>

- 3.2.2 The detail of the calculations is provided in Annex 1 to this technical note.



## 4 The Project's Compliance with Policy CH6 within Crawley Borough

4.1.1 In order to calculate how many trees are being proposed for planting, the following has been assumed:

- All plants within Scrub mixes will be whips planted at 1m centres;
- All plants within Woodland mixes will whips planted at 1.5m centres;
- All Individual trees will be standards planted at 5m centres.

4.1.2 Variations in plant spacing will occur during detailed design to reflect specific woodland and scrub mixes. Consequently, some areas may be planted more densely, while others may have wider spacing. However, these figures represent reasonable average spacing for each planting type, for use in the replanting calculations.

4.1.3 ES Appendix 8.8.1: Outline Landscape and Ecology Management Plan includes an [outline](#) landscape and ecological strategy for the Project. The proposals include extensive native woodland, scrub and grassland communities which offer usable amenity space for the public, diverse ecological habitats and linkages between urban and rural spaces.

4.1.4 The table below shows proposed replanting figures for the Project, within Crawley Borough, based upon replanting areas taken from Annex 1 of the Biodiversity Net Gain Statement that forms Appendix 9.9.2 of the Environmental Statement:

Proposed Planting within Crawley Borough				
Type	(Ha)	Centres	Plants Per Ha	Total Trees/ Shrubs
Scrub	8.96	1.00	10,000	89,614
Woodland	8.35	1.50	4,444	37,091
Individual trees	0.41	5.00	400	166
Totals	17.72	-	-	126,870

4.1.5 Current landscape replanting figures show that new Woodland/ Individual trees amount to 37,256 trees currently proposed, within Crawley Borough. This is a net gain of 27,846,748 trees, and is 8,469,014 trees over of the calculated required tree replanting. This is summarised in the table below:



Estimated Tree Removal	Proposed trees	Net Gain	Crawley Tree Requirement	Difference
9,508	37,256	27,748	29,242	8,014
(Groups + Individual)	(Woodland + Individual)	(Net Gain)		(Trees over target)

- 4.1.6 In addition 89,614 new plants are proposed within Crawley Borough in new areas of scrub. Typical planting schedules in annex 3 of the oLEMP include a native scrub mix of which 30% are tree species that, even within scrub areas, would grow to a size large enough to be included in a future count of tree stock numbers. These have not been included in the above calculations and would be in addition to the 37,256 proposed trees referenced above.
- 4.1.7 Therefore, the mitigation replanting proposed will be more than sufficient to meet the requirements laid out in Crawley Local Plan Policy CH6: “Tree Planting and Replacement Standards”.



## 5 Project-wide Replanting Calculation for the Project against CBC Policy CH6

5.1.1 Whilst CBC Policy CH6 is not applicable outside of Crawley Borough, a calculation has been undertaken applying the approach of CBC Policy CH6 to the whole Project site to provide a ~~helpful~~ guide for Interested Parties in understanding the level of tree replanting proposed by the Project against the levels of tree loss estimated on a worst case basis.

5.1.2 CBC Policy CH6 has therefore been applied to Project-wide tree loss to identify the replacement that would be required if all the relevant local planning authorities had adopted an equivalent local policy. This is based on a worst case scenario so demonstrates a maximum potential tree loss figure.

### 5.2 Project-wide Tree Removal Calculation

5.2.1 There are up to ~~11,902~~12,000 trees to be removed Project wide, as shown in Annex 2 of Appendix J, including individual trees and trees within groups:

Project wide Tree Removal (Estimated)
12,000

### 5.3 Project-wide Replanting Calculation

5.3.1 The table below shows the total replanting numbers by size across the Project that would be required under Policy CH6, including individual tree and groups:

Project wide Tree Replanting Requirement			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Total
1920	<199	1	1920
3561	200-299	2	7122
2440	300-399	3	7319
1556	400-499	4	6223
1105	500-599	5	5524
845	600-699	6	5072
73	700-799	7	508
501	>800	8	4010
<b>12000</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>37697</b>

5.3.2 A further breakdown of the data used to calculate Project wide tree replanting in this report has been collated in the Replanting Calculation Tables that form Annex 2 to this technical note.



## 6 Project-wide compliance with Policy CH6

- 6.1.1 The table below shows proposed sitewide replanting figures, based upon data from the Biodiversity Net Gain Statement that forms ES Appendix 9.9.2 (Doc Ref. 5.3):

Proposed Project-wide Planting				
Type	(Ha)	Centres	Trees Per Ha	Total Trees
Scrub	9.39	1.00	10,000	93,930
Woodland	9.66	1.50	4,444	42,951
Individual trees	0.50	5.00	400	201
Totals	19.56	-	-	137,082

- 6.1.2 These figures show that new Woodland/ Individual trees amount to 43,152 trees currently proposed. This is a net gain of 31,250152 trees and is 5,621455 trees over the calculated required tree replanting. This is summarised in the table below:

Estimated Tree Removal	Proposed trees	Net Gain	CH6 Tree Requirement	Difference
12,000	43,152	31,152	37,697	5,455
(Groups + Individual)	(Woodland + Individual)	(Net Gain)		(Trees over target)

- 6.1.3 In addition 93,930 new plants are proposed Project wide in new areas of scrub. Typical planting schedules in Annex 3 of the oLEMP include a native scrub mix of which 30% are tree species that, even within scrub areas, would grow to a size large enough to be included in a future count of tree stock numbers. These have not been included in the above calculations and would be in addition to the 43,152 proposed trees referenced above.
- 6.1.4 Therefore, the Project's proposed replanting would exceed CBC Policy CH6 requirements if applying the Policy at a Project wide level. These conclusions can be confidently stated now both because of the margin of exceedance and because the tree loss estimates remain worst case estimates.



## 7 Conclusion

7.1.1 The project replanting calculations demonstrate compliance with Crawley Borough Council's Policy CH6 for tree planting and replacement exceeding the required replanting within Crawley Borough Council by 8,469,014 trees.

### 7.2 Tree Removal and Replanting for the Project site within Crawley Borough:

- A total of 9,440,508 trees are estimated to be removed in Crawley Borough.
- Following the requirements of Policy CH6, this necessitates a total replanting requirement of 29,087,242 trees within Crawley Borough based on diameter at breast height (DBH) categories.
- The proposed replanting provision in Crawley Borough comprises 37,256 trees, resulting in a net gain of 27,846,748 trees, which exceeds the required number under Policy CH6 by 8,469,014 trees.
- Additionally, 89,614 plants are proposed in new scrub areas, with typical mixed consisting of 30% tree species. This would be 26,884 additional trees bringing the total proposed tree replanting within Crawley Borough to 64,140 trees.

### 7.3 Project-wide Tree Removal and Replanting:

- A total of 41,902,12,000 trees are estimated to be removed Project wide.
- Following Policy CH6 requirements for the whole Project site, this would require 37,534,697 replacement trees.
- The proposed Project wide replanting comprises 43,152 trees, resulting in a net gain of 31,250,152 trees, which exceeds Policy CH6's requirement by 5,621 trees (if it were applicable to the whole Project site).
- Additionally, 93,930 plants are proposed in new scrub areas, with typical mixed consisting of 30% tree species. This would be 28,179 additional trees bringing the total proposed project-wide tree replanting to 71,331 trees.

7.3.1 Impacts on townscape and ecological receptors have been mitigated and compensated for within the Project through the provision of a well-designed highway planting scheme incorporating public footpaths and extensive areas of connected and nearby replacement open space. The mitigation measures would, on balance, provide an improvement in the value and attractiveness of the area, a greater sense of place and accessibility, an increase in biodiversity and opportunities to improve the health and wellbeing of the local community.



7.3.2 In summary, the Project's proposed replanting strategy not only meets but significantly exceeds the replanting requirements outlined in Crawley Borough Council's Policy CH6, ensuring a substantial net gain in tree numbers in both the Borough and Project wide. This commitment to replanting underlines the Project's dedication to maintaining and enhancing the local and sitewide tree stock.



## Annex 1

# Replanting Calculation Tables for Crawley Borough Council



**TREE REPLANTING CALCULATION**

Site: Gatwick - M23 & A23  
 Project Schedule Ref: JSL3287\_755.1  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 / 16.06.22 / 30.06.22

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T1	400	1	
T2	700	1	
T3	400		1
T4	200		1
T5	800		1
T6	200		1
T7	750		1
T8	600		1
T9	600		1
T10	200		1
T11	400		3
T12	300		7
T13	250		7
T14	350		3
T15	300		1
T16	400		1
T17	400		1
T18	400		1
T19	700		3
T20	700		7
T21	700		1
T20a	300	1	
T21a	150	1	
T22	800	1	
T23	550		1
T24	900	2	
T25	1100	4	
T26	150	1	
T27	400	5	
T28	200	1	
T29	250	1	
T30	300	7	
T31	300	2	
T32	200	1	
T33	300	1	
T34	400	1	
T35	200	2	
T36	300	2	
T37	400	1	
T38	350	1	
T39	600	2	
T39a	600	1	
T40	500	2	
T41	700		5
T42	450	2	
T43	1100	1	
T44	950	1	
T45	900	1	

Tree Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
59	<199	1	59
87	200-299	2	174
35	300-399	3	105
25	400-499	4	100
22	500-599	5	110
8	600-699	6	48
5	700-799	7	35
14	>800	8	112
<b>255</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>743</b>

Note: This survey is based on a brief visual inspection from the ground.

It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Signifigant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick - M23 & A23  
 Project Schedule Ref: JSL3287\_755.1  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
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 16.06.22 / 30.06.22

Surveyor:  
 Status:  
 Revision:  
 Notes:

D. Cox  
 For Planning  
 A  
 -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T46	800	2	1
T47	600	4	
T48	200	15	
T49	500	20	
T50	900	1	
T51	850	1	
T52	350		2
T53	600		1
T54	750	1	6
T55	650		1
T56	1100		1
T57	1100		1
T58	650		1
T59	700		4
T60	150		2
T61	700		1
T62	200		1
T63	250		1
T64	500		1
T65	400		1
T66	350		1
T67	400		1
T68	300		1
T69	800		1
T70	500		1
T71	900		1
T72	400		1
T73	400		2
T74	300		1
T75#	1000		2
T76	100	16	
T77	200	1	
T78	200	1	
T79	200	16	
T80	200	2	
T81	150	2	
T82	300	2	6
T83	150	13	
T84	200	2	11
T85	200	7	
T86	300	4	
T87	300		2
T88#	200		3
T89	300	11	
T90	250	23	
T91	200	3	3
T92	200		9
T93	500		1

Note: This survey is based on a brief visual inspection from the ground.

It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Signifigant Branch.



### TREE REPLANTING CALCULATION

Site: Gatwick - M23 & A23  
Project Schedule Ref: JSL3287\_755.1  
Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 /  
16.06.22 / 30.06.22

Surveyor:  
Status:  
Revision:  
Notes:

D. Cox  
For Planning  
A  
-



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T94	100	2	2
T95	200	2	
T96	200	2	
T97	100		1
T98	400	2	
T99	300	1	
T100	300	3	
T101	200	5	
T102	650		1
T103	350		1
T104	250		1
T105	600		8
T106	500		1
T107	500		1
T108	350		1
T109	300		1
T110	200		3
T111	300		1
T112	900		1
T113	350		1
T114	400	4	2
T115	150	24	
T116	400	9	
T117	700	1	
T118	300		1
T119	800		1
T120	500		19
T121	800		1
T122	450		3
T123	300		5
T124	700	2	8
T125	200	3	24
T126	600	1	
	Total	255	

Note: This survey is based on a brief visual inspection from the ground.

It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Signifigant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - M23 & A23 Groups  
 Project Schedule Ref: JSL3287\_755.2  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 / 16.06.22 / 30.06.22

Trees Removed	Area Removed (Ha)	Groups Replanting Total
7024	11.45	24131

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G1	1159	2.0	150	200	400
G2	861	2.0	150	250	450
G5	685	2.3	150	180	300
G6	75	2.0	150	175	300
G7	90	3.0	150	180	280
G8	2502	2.5	150	200	290
G9	918	2.0	150	210	250
G11	820	9.0	150	200	250
G12	1333	20.0	150	150	180
G13	1407	2.8	150	180	280
G14	351	2.5	165	180	800
G15	2418	3.5	165	165	290
G16	1299	3.0	160	180	600
G17	592	2.8	160	180	800
G21	110	6.0	450	450	550
G22	1224	5.0	200	500	1200
G23	459	5.0	200	1000	1200
G24	12320	6.0	200	500	1100
G25	893	7.0	150	400	1000
G27	4500	7.0	150	400	1300
G28	6966	7.0	150	450	700
G29	13086	5.5	150	350	700
G30	4648	4.0	150	350	600
G31	2785	3.0	150	375	800
G31a	778	6.0	150	150	1000
G32	1862	6.0	150	250	700
G33	780	5.0	150	300	1000
G34	3617	7.0	150	300	600
G35	1712	4.0	150	450	1250
G36	2644	6.0	150	300	1250

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
290	72.5	145.0	72.5
216	54.0	108.0	54.0
136	34.0	68.0	34.0
19	4.8	9.5	4.8
10	2.5	5.0	2.5
401	100.3	200.5	100.3
230	57.5	115.0	57.5
11	2.8	5.5	2.8
4	1.0	2.0	1.0
186	46.5	93.0	46.5
57	14.3	28.5	14.3
198	49.5	99.0	49.5
145	36.3	72.5	36.3
79	19.8	39.5	19.8
4	1.0	2.0	1.0
49	12.3	24.5	12.3
19	4.8	9.5	4.8
343	85.8	171.5	85.8
19	4.8	9.5	4.8
92	23.0	46.0	23.0
143	35.8	71.5	35.8
433	108.3	216.5	108.3
291	72.8	145.5	72.8
310	77.5	155.0	77.5
22	5.5	11.0	5.5
52	13.0	26.0	13.0
32	8.0	16.0	8.0
74	18.5	37.0	18.5
107	26.8	53.5	26.8
74	18.5	37.0	18.5

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
194	238	319
213	275	363
176	203	251
175	200	250
174	198	239
180	210	250
178	205	228
175	200	225
154	158	169
174	198	239
248	331	566
181	196	243
220	280	440
245	330	565
463	475	513
400	600	900
525	850	1025
388	575	838
319	488	744
356	563	931
294	438	569
269	388	544
256	363	481
288	425	613
256	363	681
244	338	519
294	438	719
244	338	469
363	575	913
325	500	875

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
73	290	218	580
108	216	162	486
34	136	68	238
5	19	10	33
3	5	5	13
100	401	201	702
58	230	115	403
3	11	6	19
1	2	1	4
47	93	93	233
29	86	71	185
50	99	99	248
73	145	145	363
40	119	99	257
4	8	5	17
49	147	98	294
24	76	38	138
257	858	686	1801
14	38	33	86
69	230	184	483
72	286	179	536
217	650	541	1407
146	437	291	873
155	620	465	1240
11	33	33	77
26	78	65	169
16	64	56	136
37	111	74	222
80	268	214	562
56	185	148	389

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - M23 & A23 Groups  
 Project Schedule Ref: JSL3287\_755.2  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 / 16.06.22 / 30.06.22

Trees Removed	Area Removed (Ha)	Groups Replanting Total
7024	11.45	24131

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G37a	485	5.0	200	550	700
G38	894	6.0	300	600	1250
G39	957	4.0	250	600	1000
G40	4720	5.0	250	600	700
G41	2705	4.0	200	600	1250
G42	178	2.0	150	500	1000
G45	2530	4.0	150	500	1250
G47	1999	5.0	150	450	1500
G49	346	4.0	150	450	500
G50A	334	8.0	150	160	250
G55	807	4.5	200	220	1000
G58	1940	4.0	200	450	800
G59	352	3.8	180	290	300
G60	83	5.0	350	450	500
G61	143	4.5	350	350	550
G66	256	4.5	150	300	400
G67	398	4.5	200	300	350
G75A	2188	10.0	150	200	400
G76A	8054	4.0	200	400	1250
G78	178	5.0	150	300	450
G78A	1901	2.7	150	210	310
G81	1298	1.5	150	270	500
G86	421	4.0	150	650	750
G87	84	3.0	150	650	750
G88	3265	5.0	150	200	1250
G89	1077	6.0	150	300	450
G90	661	6.0	250	500	700
W2	1985	3.5	150	320	650
W4	1355	2.5	200	350	900

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
20	5.0	10.0	5.0
25	6.3	12.5	6.3
60	15.0	30.0	15.0
189	47.3	94.5	47.3
170	42.5	85.0	42.5
45	11.3	22.5	11.3
159	39.8	79.5	39.8
80	20.0	40.0	20.0
22	5.5	11.0	5.5
6	1.5	3.0	1.5
40	10.0	20.0	10.0
122	30.5	61.0	30.5
26	6.5	13.0	6.5
4	1.0	2.0	1.0
8	2.0	4.0	2.0
13	3.3	6.5	3.3
20	5.0	10.0	5.0
22	5.5	11.0	5.5
504	126.0	252.0	126.0
8	2.0	4.0	2.0
261	65.3	130.5	65.3
577	144.3	288.5	144.3
27	6.8	13.5	6.8
10	2.5	5.0	2.5
131	32.8	65.5	32.8
30	7.5	15.0	7.5
19	4.8	9.5	4.8
163	40.8	81.5	40.8
217	54.3	108.5	54.3

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
350	500	600
494	688	969
431	613	806
394	538	619
431	663	956
344	538	769
375	600	925
394	638	1069
269	388	444
165	180	215
305	410	705
338	475	638
223	265	283
394	438	469
375	400	475
219	288	344
244	288	319
194	238	319
381	563	906
225	300	375
185	220	265
224	298	399
350	550	650
350	550	650
300	450	850
225	300	375
369	488	594
255	360	505
325	450	675

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
15	50	30	95
25	75	50	150
60	180	120	360
142	473	284	898
170	510	340	1020
34	113	79	225
119	477	318	914
60	240	160	460
11	33	22	66
2	3	3	8
30	80	70	180
92	244	183	519
13	26	13	52
3	8	4	15
6	16	8	30
7	13	10	29
10	20	15	45
6	22	17	44
378	1260	1008	2646
4	12	6	22
65	261	131	457
289	577	433	1298
20	68	41	128
8	25	15	48
98	262	262	622
15	45	23	83
14	38	24	76
82	245	204	530
163	434	326	922

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - M23 & A23 Groups  
 Project Schedule Ref: JSL3287\_755.2  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 / 16.06.22 / 30.06.22

Trees Removed	Area Removed (Ha)	Groups Replanting Total
7024	11.45	24131

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total

M23 & A23 Estimated Group Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
647	<199	1	647
2233	200-299	2	4466
1462	300-399	3	4386
738	400-499	4	2950
948	500-599	5	4739
501	600-699	6	3005
34	700-799	7	238
463	>800	8	3702
<b>7024</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>24131</b>

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T1	389	1	
T2	650	1	
T3	150	1	
T4	150	1	
T5	150	1	
T6	358	1	
T7	150	1	
T8	173	1	
T9	800	1	
T10	600	1	
T11	800		1
T12	650		1
T13	247		1
T14	800		1
T15	300		1
T16	800		1
T17	460		1
T18	707		1
T19	450		1
T20	141		1
T21	800		1
T22	800		1
T23	250		1
T24	250		1
T25	900		1
T26	650		1
T27	950		1
T28	550		1
T29	672		1
T30	1150		1
T31	750		1
T32	750		1
T33	750		1
T34	700		1
T35	1300		1
T36	850		1
T37	600		1
T38	950		1
T39	950		1
T40	1050		1
T41	1050		1
T42	650		1
T43	500		1
T44	800		1
T45	1000		1
T46	500		1
T47	500		1
T48	500		1
T49	500		1
T50	700		1
T51	300		1
T52	650		1
T53	850		1
T54	600		1
T55	700		1
T56	850		1
T57	750		1

Tree Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
18	<199	1	18
19	200-299	2	38
13	300-399	3	39
6	400-499	4	24
1	500-599	5	5
5	600-699	6	30
0	700-799	7	0
11	>800	8	88
<b>73</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>242</b>

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor:  
 Status:  
 Revision:  
 Notes:

Ross Carthew  
 For Planning  
 A  
 -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T58	1200		1
#T59	1000		1
T60	450		1
T61	808		1
T62	950		1
T63	1100		1
T64	550		1
T65	550		1
T66	750		1
T67	600		1
T68	950		1
T69	1200		1
T70	397	1	
T71	100	1	
T72	335	1	
T73	397	1	
#T74	700		1
T75	800		1
T76	800		1
T77	250		1
T78	250		1
T79	250		1
T80	250		1
T81	250		1
T82	250		1
T83	250		1
T84	250		1
T85	400		1
T86	400		1
T87	350		1
T88	250		1
T89	250		1
T90	141	1	
T91	1000		1
T92	212	1	
T93	100	1	
T94	577	1	
T95	100	1	
T96	250		1
T97	250		1
T98	150	1	
#T99	450		1
T100	200		1
T101	200		1
T102	150		1
T103	250		1
T104	300		1
T105	250		1
T106	550		1
#T107	750		1
T108	212		1
T109	400		1
T110	150		1
T111	300		1
T112	300		1
T113	200		1
T114	250		1

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor:  
 Status:  
 Revision:  
 Notes:

Ross Carthew  
 For Planning  
 A  
 -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T115	250		1
T116	250		1
T117	354		1
T118	173		1
T119	177		1
T120	260		1
T121	300		1
T122	548		1
T123	450		1
T124	450		1
T125	450		1
T126	450		1
T127	450		1
T128	500		1
T129	1050	1	
T130	400	1	
T131	400	1	
T132	350	1	
T133	350	1	
T134	1443	1	
T135	1167		1
T136	900	1	
T137	1200	1	
T138	200	1	
T139	1039	1	
T140	600	1	
T141	300	1	
T142	400	1	
T143	1250	1	
T144	250		1
T145	200	1	
T146	250	1	
T147	250	1	
T148	850	1	
T149	600		1
T150	600		1
T151	800		1
T152	200		1
T153	250		1
T154	354		1
T155	400		1
T156	400		1
T157	380		1
T158	400		1
T159	550		1
T160	750		1
T161	650		1
T162	300		1
T163	300		1
T164	100	1	
T165	212	1	
T166	300	1	
T167	400		1
T168	400		1
T169	650		1
T170	225	1	
T171	225	1	

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor:  
 Status:  
 Revision:  
 Notes:

Ross Carthew  
 For Planning  
 A  
 -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T172	250	1	
T173	200	1	
T174	200	1	
T175	200	1	
T176	850		1
T177	750		1
T178	200		1
T179	350		1
T180	751		1
T181	268		1
T182	260		1
T183	350		1
T184	316	1	
T185	250	1	
T186	200	1	
T187	350		1
T188	200		1
T189	200		1
T190	300		1
T191	224		1
T192	850		1
T193	850		1
T194	346		1
T195	600		1
T196	250		1
T197	600		1
T198	300		1
T199	300		1
T200	600		1
T201	600		1
T202	600		1
T203	250		1
T204	300		1
#T205	1100		1
T206	350		1
T207	300		1
T208	150		1
T209	150		1
T210	150		1
T211	150		1
T212	150		1
T213	1300		1
T214	850		1
T215	850		1
T216	600		1
T217	404		1
T218	650		1
T219	389		1
T220	200		1
T221	200		1
#T222	592		1
*T223	700		1
*T224	800		1
T225	150		1
#T226	200		1
#T227	200		1
T228	450		1

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor:  
 Status:  
 Revision:  
 Notes:

Ross Carthew  
 For Planning  
 A  
 -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T229	550		1
T230	550		1
T231	250		1
T232	500		1
T233	200		1
T234	200		1
T235	346		1
T236	350		1
T237	350		1
T238	950		1
T239	400		1
T240	950		1
T241	500		1
T242	1050		1
T243	650		1
T244	650		1
T245	850		1
T246	500		1
T247	700		1
T248	300	1	
T249	200	1	
T250	200	1	
T251	150	1	
T252	150	1	
T253	150	1	
T254	150	1	
T255	325	1	
T256	470	1	
T257	250	1	
T258	850	1	
T259	650		1
T260	650	1	
T261	900	1	
T262	600	1	
T263	1200	1	
T264	447	1	
T265	250	1	
T266	491	1	
T267	150		1
T268	100	1	
T269	250	1	
T270	150	1	
T271	150	1	
#T272	837		1
#T273	200		1
#T274	300		1
#T275	750		1
#T276	1204		1
#T277	433		1
T278	500		1
T279	350		1
T280	250		1
T281	350		1
T282	495		1
T283	300	1	
T284	247		1
<b>Total</b>		<b>73</b>	

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups  
 Project Schedule: JSL3287\_755.4  
 Ref:  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G1	Trees Counted		500	500	500
G2	291	2.0	100	100	150
G4	1057	5.0	100	200	300
G5	246	6.0	150	150	150
G6	Trees Counted		550	550	550
G7	359	5.0	100	100	150
G19	Trees Counted		50	50	50
G24	705	5.0	100	150	200
G25	439	8.0	400	450	500
G26	84	5.0	150	200	200
G27	Trees Counted		500	500	500
G28	81	4.0	100	100	150
G29	328	5.0	100	150	150
G30	Trees Counted		150	150	150
G31	1536	7.0	400	500	600
G33	909	6.0	100	150	150
G40	982	6.0	150	200	250
G41	143	3.0	150	200	200
G42	297	5.0	150	150	200
G43	Trees Counted		300	300	300
G44	Trees Counted		100	100	100
G45	Trees Counted		150	150	150
G46	Trees Counted		150	150	150
G47	257	5.0	100	150	150
G48	Trees Counted		200	200	200
G49	356	4.0	150	200	200
G50	Trees Counted		350	350	350

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
4	1.0	2.0	1.0
73	18.3	36.5	18.3
43	10.8	21.5	10.8
7	1.8	3.5	1.8
8	2.0	4.0	2.0
15	3.8	7.5	3.8
7	1.8	3.5	1.8
29	7.3	14.5	7.3
7	1.8	3.5	1.8
4	1.0	2.0	1.0
5	1.3	2.5	1.3
6	1.5	3.0	1.5
14	3.5	7.0	3.5
1	0.3	0.5	0.3
32	8.0	16.0	8.0
26	6.5	13.0	6.5
28	7.0	14.0	7.0
16	4.0	8.0	4.0
12	3.0	6.0	3.0
3	0.8	1.5	0.8
68	17.0	34.0	17.0
3	0.8	1.5	0.8
15	3.8	7.5	3.8
11	2.8	5.5	2.8
3	0.8	1.5	0.8
23	5.8	11.5	5.8
3	0.8	1.5	0.8

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
500	500	500
106	113	131
150	200	250
150	150	150
550	550	550
106	113	131
50	50	50
125	150	175
425	450	475
169	188	194
500	500	500
106	113	131
119	138	144
150	150	150
450	500	550
119	138	144
175	200	225
169	188	194
156	163	181
300	300	300
100	100	100
150	150	150
150	150	150
119	138	144
200	200	200
169	188	194
350	350	350

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
5	10	5	20
18	37	18	73
11	43	22	75
2	4	2	7
10	20	10	40
4	8	4	15
2	4	2	7
7	15	7	29
7	14	7	28
1	2	1	4
6	13	6	25
2	3	2	6
4	7	4	14
0	1	0	1
32	80	40	152
7	13	7	26
7	28	14	49
4	8	4	16
3	6	3	12
2	5	2	9
17	34	17	68
1	2	1	3
4	8	4	15
3	6	3	11
2	3	2	6
6	12	6	23
2	5	2	9

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups  
 Project Schedule: JSL3287\_755.4  
 Ref:  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G51	95	5.0	150	200	200
G58	Trees Counted		600	600	600
G59	85	3.0	100	150	150
G60	917	3.0	75	100	150
G61	Trees Counted		200	200	200
G62	Trees Counted		200	200	200
G64	86	4.5	200	200	200
G65	437	4.0	200	200	200
G66	3484	3.0	100	200	250
G67	502	3.0	100	150	200
G68	155	3.0	100	100	100
G69	653	3.0	100	100	150
G70	733	6.0	100	150	200
G74	Trees Counted		500	550	600
G77	Trees Counted		100	100	100
G78	Trees Counted		200	200	200
G79	Trees Counted		150	150	150
G80	Trees Counted		300	300	300
G81	Trees Counted		300	300	300
G86	Trees Counted		350	350	350
G90	2146	5.0	150	300	600
G93	Trees Counted		250	250	250
G95	495	8.0	400	450	500
G97	Trees Counted		350	350	350
G98	3044	5.0	200	300	700
G99	2819	5.0	250	450	750
G101	Trees Counted		350	350	350

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
4	1.0	2.0	1.0
7	1.8	3.5	1.8
10	2.5	5.0	2.5
102	25.5	51.0	25.5
16	4.0	8.0	4.0
14	3.5	7.0	3.5
5	1.3	2.5	1.3
28	7.0	14.0	7.0
388	97.0	194.0	97.0
56	14.0	28.0	14.0
18	4.5	9.0	4.5
73	18.3	36.5	18.3
21	5.3	10.5	5.3
3	0.8	1.5	0.8
13	3.3	6.5	3.3
18	4.5	9.0	4.5
3	0.8	1.5	0.8
4	1.0	2.0	1.0
8	2.0	4.0	2.0
3	0.8	1.5	0.8
86	21.5	43.0	21.5
4	1.0	2.0	1.0
8	2.0	4.0	2.0
5	1.3	2.5	1.3
122	30.5	61.0	30.5
113	28.3	56.5	28.3
19	4.8	9.5	4.8

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
169	188	194
600	600	600
119	138	144
91	106	128
200	200	200
200	200	200
200	200	200
200	200	200
144	188	219
125	150	175
100	100	100
106	113	131
125	150	175
525	550	575
100	100	100
200	200	200
150	150	150
300	300	300
300	300	300
350	350	350
244	338	469
250	250	250
425	450	475
350	350	350
288	375	538
363	475	613
350	350	350

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
1	2	1	4
11	21	11	42
3	5	3	10
26	51	26	102
8	16	8	32
7	14	7	28
3	5	3	10
14	28	14	56
97	194	194	485
14	28	14	56
5	9	5	18
18	37	18	73
5	11	5	21
4	8	4	15
3	7	3	13
9	18	9	36
1	2	1	3
3	6	3	12
6	12	6	24
2	5	2	9
43	129	86	258
2	4	2	8
8	16	8	32
4	8	4	15
61	183	153	397
85	226	170	480
14	29	14	57

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups  
 Project Schedule: JSL3287\_755.4  
 Ref:  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G102	212	3.0	150	200	250
G103	396	6.0	150	200	250
G105	322	6.0	200	250	250
G106	Trees Counted		750	750	750
G107	Trees Counted		200	200	200
G108	Trees Counted		100	100	100
G109	276	4.0	150	200	250
G115	Trees Counted		300	300	300
G116	Trees Counted		500	500	500
G117	Trees Counted		550	550	550
G118	Trees Counted		550	550	550
G119	Trees Counted		250	250	250
G120	Trees Counted		200	200	200
G121	Trees Counted		200	200	200
G122	Trees Counted		150	150	150
G123	Trees Counted		350	350	350
G126	Trees Counted		450	450	450
G129	Trees Counted		300	300	300
G133	219	3.0	150	200	200
G161	535	4.0	150	300	350
G164	155	5.0	250	300	300
G165	608	8.0	100	100	150
G166	Trees Counted		200	200	200
G167	450	4.0	150	200	200
G168	Trees Counted		250	250	250
G170	1774	8.0	200	250	300
G177	74	3.0	200	300	350

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
24	6.0	12.0	6.0
11	2.8	5.5	2.8
9	2.3	4.5	2.3
2	0.5	1.0	0.5
4	1.0	2.0	1.0
20	5.0	10.0	5.0
18	4.5	9.0	4.5
3	0.8	1.5	0.8
2	0.5	1.0	0.5
3	0.8	1.5	0.8
2	0.5	1.0	0.5
7	1.8	3.5	1.8
3	0.8	1.5	0.8
2	0.5	1.0	0.5
3	0.8	1.5	0.8
2	0.5	1.0	0.5
2	0.5	1.0	0.5
9	2.3	4.5	2.3
25	6.3	12.5	6.3
34	8.5	17.0	8.5
7	1.8	3.5	1.8
10	2.5	5.0	2.5
3	0.8	1.5	0.8
29	7.3	14.5	7.3
3	0.8	1.5	0.8
28	7.0	14.0	7.0
9	2.3	4.5	2.3

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
175	200	225
175	200	225
219	238	244
750	750	750
200	200	200
100	100	100
175	200	225
300	300	300
500	500	500
550	550	550
550	550	550
250	250	250
200	200	200
200	200	200
150	150	150
350	350	350
450	450	450
300	300	300
169	188	194
213	275	313
269	288	294
106	113	131
200	200	200
169	188	194
250	250	250
225	250	275
244	288	319

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
6	24	12	42
3	11	6	19
5	9	5	18
4	7	4	14
2	4	2	8
5	10	5	20
5	18	9	32
2	5	2	9
3	5	3	10
4	8	4	15
3	5	3	10
4	7	4	14
2	3	2	6
1	2	1	4
1	2	1	3
2	3	2	6
2	4	2	8
7	14	7	27
6	13	6	25
17	34	26	77
4	7	4	14
3	5	3	10
2	3	2	6
7	15	7	29
2	3	2	6
14	28	14	56
5	9	7	20

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups  
 Project Schedule: JSL3287\_755.4  
 Ref:  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G178	312	6.0	150	200	250
G179	Trees Counted		300	300	300
G180	242	2.0	50	50	75
W1	2502	4.0	150	250	400
W4	448	4.0	150	500	800

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
9	2.3	4.5	2.3
9	2.3	4.5	2.3
61	15.3	30.5	15.3
157	39.3	78.5	39.3
28	7.0	14.0	7.0

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
175	200	225
300	300	300
53	56	66
206	263	331
319	488	644

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
2	9	5	16
7	14	7	27
15	31	15	61
79	157	118	353
21	56	42	119

M23 & A23 Estimated Group Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
1102	<199	1	1102
553	200-299	2	1106
258	300-399	3	775
117	400-499	4	468
82	500-599	5	408
42	600-699	6	254
2	700-799	7	14
0	>800	8	0
<b>2156</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>4126</b>

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Combined Crawley figures  
 Project Schedule JSL3287\_755.5  
 Ref:  
 Drawing JSL3287\_736-748 & JSL3287\_801- 808  
 Reference:  
 Survey date: October 2023 - December 2023



Total Crawley Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
<b>9508</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>29242</b>

M23 & A23 Individual Tree Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Trees	Replanting Total
59	<199	1	59
87	200-299	2	174
35	300-399	3	105
25	400-499	4	100
22	500-599	5	110
8	600-699	6	48
5	700-799	7	35
14	>800	8	112
<b>255</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>743</b>

Airport Individual Tree Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Trees	Replanting Total
18	<199	1	18
19	200-299	2	38
13	300-399	3	39
6	400-499	4	24
1	500-599	5	5
5	600-699	6	30
0	700-799	7	0
11	>800	8	88
<b>73</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>242</b>

M23 & A23 Estimated Group Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Trees	Replanting Total
647	<199	1	647
2233	200-299	2	4466
1462	300-399	3	4386
738	400-499	4	2950
948	500-599	5	4739
501	600-699	6	3005
34	700-799	7	238
463	>800	8	3702
<b>7024</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>24131</b>

Airport Estimated Group Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Trees	Replanting Total
1102	<199	1	1102
553	200-299	2	1106
258	300-399	3	775
117	400-499	4	468
82	500-599	5	408
42	600-699	6	254
2	700-799	7	14
0	>800	8	0
<b>2156</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>4126</b>

M23 & A23 Total Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
706	<199	1	706
2320	200-299	2	4640
1497	300-399	3	4491
763	400-499	4	3050
970	500-599	5	4849
509	600-699	6	3053
39	700-799	7	273
477	>800	8	3814
<b>7279</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>24874</b>

Airport Total Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
1120	<199	1	1120
572	200-299	2	1144
271	300-399	3	814
123	400-499	4	492
83	500-599	5	413
47	600-699	6	284
2	700-799	7	14
11	>800	8	88
<b>2229</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>4368</b>

Total Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
1826	<199	1	1826
2892	200-299	2	5783
1768	300-399	3	5305
886	400-499	4	3542
1052	500-599	5	5261
556	600-699	6	3336
41	700-799	7	287
488	>800	8	3902
<b>9508</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>29242</b>



Annex 2

Project-wide Replanting Calculation Tables



**TREE REPLANTING CALCULATION**

Site: Gatwick - M23 & A23  
 Project Schedule Ref: JSL3287\_755.1  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 /  
 16.06.22 / 30.06.22

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T1	400	1	
T2	700	1	
T3	400		1
T4	200	1	
T5	800	1	
T6	200	1	
T7	750	1	
T8	600	1	
T9	600	1	
T10	200	1	
T11	400	3	
T12	300	7	
T13	250	7	
T14	350	3	
T15	300	1	
T16	400	1	
T17	400	1	
T18	400		1
T19	700		3
T20	700	7	
T21	700	1	
T20a	300	1	
T21a	150	1	
T22	800	1	
T23	550		1
T24	900	2	
T25	1100	4	
T26	150	1	
T27	400	5	
T28	200	1	
T29	250	1	
T30	300	7	
T31	300	2	
T32	200	1	
T33	300	1	
T34	400	1	
T35	200	2	
T36	300	2	
T37	400	1	
T38	350	1	
T39	600	2	
T39a	600	1	
T40	500	2	
T41	700		5
T42	450	2	
T43	1100	1	
T44	950	1	
T45	900	1	
T46	800	2	1
T47	600	4	
T48	200	15	
T49	500	20	

M23 & A23 Individual Tree Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
61	<199	1	61
99	200-299	2	198
48	300-399	3	144
31	400-499	4	124
24	500-599	5	120
12	600-699	6	72
18	700-799	7	126
17	>800	8	136
<b>310</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>981</b>

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Signifigant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick - M23 & A23  
 Project Schedule Ref: JSL3287\_755.1  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 /  
 16.06.22 / 30.06.22

Surveyor:  
 Status:  
 Revision:  
 Notes:

D. Cox  
 For Planning  
 A  
 -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T50	900	1	
T51	850	1	
T52	350	2	
T53	600	1	
T54	750	1	6
T55	650		1
T56	1100		1
T57	1100		1
T58	650	1	
T59	700	4	
T60	150	2	
T61	700		1
T62	200	1	
T63	250		1
T64	500		1
T65	400		1
T66	350		1
T67	400		1
T68	300		1
T69	800	1	
T70	500	1	
T71	900	1	
T72	400	1	
T73	400		2
T74	300		1
T75#	1000		2
T76	100	16	
T77	200	1	
T78	200	1	
T79	200	16	
T80	200	2	
T81	150	2	
T82	300	2	6
T83	150	13	
T84	200	2	11
T85	200	7	
T86	300	4	
T87	300		2
T88#	200		3
T89	300	11	
T90	250	23	
T91	200	3	3
T92	200		9
T93	500		1
T94	100	2	2
T95	200	2	
T96	200	2	
T97	100		1
T98	400	2	
T99	300	1	
T100	300	3	
T101	200	5	

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Signifigant Branch.



### TREE REPLANTING CALCULATION

Site: Gatwick - M23 & A23  
Project Schedule Ref: JSL3287\_755.1  
Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 /  
16.06.22 / 30.06.22

Surveyor:  
Status:  
Revision:  
Notes:

D. Cox  
For Planning  
A  
-



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T102	650		1
T103	350		1
T104	250	1	
T105	600		8
T106	500		1
T107	500	1	
T108	350		1
T109	300		1
T110	200		3
T111	300		1
T112	900		1
T113	350		1
T114	400	4	2
T115	150	24	
T116	400	9	
T117	700	1	
T118	300		1
T119	800		1
T120	500		19
T121	800		1
T122	450		3
T123	300		5
T124	700	2	8
T125	200	3	24
T126	600	1	
	Total	310	

Note: This survey is based on a brief visual inspection from the ground.  
It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Signifigant Branch.

**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - M23 & A23 Groups  
 Project Schedule Ref: JSL3287\_755.2  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 / 16.06.22 / 30.06.22

Trees Removed	Area Removed (Ha)	Groups Replanting Total
9461	12.99	32348

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G1	1159	2.0	150	200	400
G2	861	2.0	150	250	450
G4	517	4.0	150	155	280
G5	685	2.3	150	180	300
G6	75	2.0	150	175	300
G7	259	3.0	150	180	280
G8	2502	2.5	150	200	290
G9	1178	2.0	150	210	250
G11	820	9.0	150	200	250
G12	1333	20.0	150	150	180
G13	1481	2.8	150	180	280
G14	351	2.5	165	180	800
G15	2606	3.5	165	165	290
G16	1299	3.0	160	180	600
G17	668	2.8	160	180	800
G18	1220	2.5	225	300	850
G19	385	3.5	190	320	850
G21	110	6.0	450	450	550
G22	1224	5.0	200	500	1200
G23	459	5.0	200	1000	1200
G24	12320	6.0	200	500	1100
G25	893	7.0	150	400	1000
G27	4500	7.0	150	400	1300
G28	6966	7.0	150	450	700
G29	13086	5.5	150	350	700
G30	4648	4.0	150	350	600
G31	2785	3.0	150	375	800
G31a	778	6.0	150	150	1000
G32	1862	6.0	150	250	700
G33	780	5.0	150	300	1000
G34	3617	7.0	150	300	600

Tree Removal Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
290	72.5	145.0	72.5
216	54.0	108.0	54.0
33	8.3	16.5	8.3
136	34.0	68.0	34.0
19	4.8	9.5	4.8
29	7.3	14.5	7.3
401	100.3	200.5	100.3
295	73.8	147.5	73.8
11	2.8	5.5	2.8
4	1.0	2.0	1.0
196	49.0	98.0	49.0
57	14.3	28.5	14.3
214	53.5	107.0	53.5
145	36.3	72.5	36.3
90	22.5	45.0	22.5
196	49.0	98.0	49.0
32	8.0	16.0	8.0
4	1.0	2.0	1.0
49	12.3	24.5	12.3
19	4.8	9.5	4.8
343	85.8	171.5	85.8
19	4.8	9.5	4.8
92	23.0	46.0	23.0
143	35.8	71.5	35.8
433	108.3	216.5	108.3
291	72.8	145.5	72.8
310	77.5	155.0	77.5
22	5.5	11.0	5.5
52	13.0	26.0	13.0
32	8.0	16.0	8.0
74	18.5	37.0	18.5

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
194	238	319
213	275	363
168	185	233
176	203	251
175	200	250
174	198	239
180	210	250
178	205	228
175	200	225
154	158	169
174	198	239
248	331	566
181	196	243
220	280	440
245	330	565
322	419	634
305	420	635
463	475	513
400	600	900
525	850	1025
388	575	838
319	488	744
356	563	931
294	438	569
269	388	544
256	363	481
288	425	613
256	363	681
244	338	519
294	438	719
244	338	469

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
73	290	218	580
108	216	162	486
8	17	17	41
34	136	68	238
5	19	10	33
7	15	15	36
100	401	201	702
74	295	148	516
3	11	6	19
1	2	1	4
49	98	98	245
29	86	71	185
54	107	107	268
73	145	145	363
45	135	113	293
147	392	294	833
24	64	48	136
4	8	5	17
49	147	98	294
24	76	38	138
257	858	686	1801
14	38	33	86
69	230	184	483
72	286	179	536
217	650	541	1407
146	437	291	873
155	620	465	1240
11	33	33	77
26	78	65	169
16	64	56	136
37	111	74	222

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - M23 & A23 Groups  
 Project Schedule Ref: JSL3287\_755.2  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 / 16.06.22 / 30.06.22

Trees Removed	Area Removed (Ha)	Groups Replanting Total
9461	12.99	32348

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G35	1712	4.0	150	450	1250
G36	2644	6.0	150	300	1250
G37a	485	5.0	200	550	700
G38	894	6.0	300	600	1250
G39	957	4.0	250	600	1000
G40	4720	5.0	250	600	700
G41	2705	4.0	200	600	1250
G42	299	2.0	150	500	1000
G43	275	2.5	200	400	1000
G45	2740	4.0	150	500	1250
G47	2603	5.0	150	450	1500
G49	3107	4.0	150	450	500
G50A	955	8.0	150	160	250
G52	115	2.0	200	220	450
G55	807	4.5	200	220	1000
G56	661	2.5	200	220	550
G57	576	4.0	175	225	800
G58	1940	4.0	200	450	800
G59	352	3.8	180	290	300
G60	83	5.0	350	450	500
G61	143	4.5	350	350	550
G66	256	4.5	150	300	400
G67	398	4.5	200	300	350
G69	95	5.0	350	350	400
G70	557	1.5	150	225	650
G71	349	9.5	300	300	500
G75A	2188	10.0	150	200	400
G76A	8101	4.0	200	400	1250
G78	221	5.0	150	300	450
G78A	2163	2.7	150	210	310
G81	2319	1.5	150	270	500

Tree Removal Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
107	26.8	53.5	26.8
74	18.5	37.0	18.5
20	5.0	10.0	5.0
25	6.3	12.5	6.3
60	15.0	30.0	15.0
189	47.3	94.5	47.3
170	42.5	85.0	42.5
75	18.8	37.5	18.8
44	11.0	22.0	11.0
173	43.3	86.5	43.3
105	26.3	52.5	26.3
195	48.8	97.5	48.8
17	4.3	8.5	4.3
29	7.3	14.5	7.3
40	10.0	20.0	10.0
106	26.5	53.0	26.5
37	9.3	18.5	9.3
122	30.5	61.0	30.5
26	6.5	13.0	6.5
4	1.0	2.0	1.0
8	2.0	4.0	2.0
13	3.3	6.5	3.3
20	5.0	10.0	5.0
4	1.0	2.0	1.0
248	62.0	124.0	62.0
4	1.0	2.0	1.0
22	5.5	11.0	5.5
507	126.8	253.5	126.8
10	2.5	5.0	2.5
297	74.3	148.5	74.3
1031	257.8	515.5	257.8

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
363	575	913
325	500	875
350	500	600
494	688	969
431	613	806
394	538	619
431	663	956
344	538	769
350	500	750
375	600	925
394	638	1069
269	388	444
165	180	215
236	273	361
305	410	705
249	298	424
266	356	578
338	475	638
223	265	283
394	438	469
375	400	475
219	288	344
244	288	319
356	363	381
231	313	481
325	350	425
194	238	319
381	563	906
225	300	375
185	220	265
224	298	399

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
80	268	214	562
56	185	148	389
15	50	30	95
25	75	50	150
60	180	120	360
142	473	284	898
170	510	340	1020
56	188	131	375
33	110	77	220
130	519	346	995
79	315	210	604
98	293	195	585
4	9	9	21
15	29	22	65
30	80	70	180
53	106	106	265
19	56	46	120
92	244	183	519
13	26	13	52
3	8	4	15
6	16	8	30
7	13	10	29
10	20	15	45
3	6	3	12
124	372	248	744
3	6	4	13
6	22	17	44
380	1268	1014	2662
5	15	8	28
74	297	149	520
516	1031	773	2320

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.

**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - M23 & A23 Groups  
 Project Schedule Ref: JSL3287\_755.2  
 Drawing Reference: JSL3287\_801- 808 - Tree Removal Plans  
 Survey date: 16.05.2022 / 24.05.2022 / 14.06.22 / 16.06.22 / 30.06.22

Trees Removed	Area Removed (Ha)	Groups Replanting Total
9461	12.99	32348

Surveyor: D. Cox  
 Status: For Planning  
 Revision: A  
 Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G86	421	4.0	150	650	750
G87	84	3.0	150	650	750
G88	3265	5.0	150	200	1250
G89	1077	6.0	150	300	450
G90	661	6.0	250	500	700
W2	1985	3.5	150	320	650
W4	3757	2.5	200	350	900
W5	1797	2.0	200	350	850

Tree Removal Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
27	6.8	13.5	6.8
10	2.5	5.0	2.5
131	32.8	65.5	32.8
30	7.5	15.0	7.5
19	4.8	9.5	4.8
163	40.8	81.5	40.8
602	150.5	301.0	150.5
450	112.5	225.0	112.5

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
350	550	650
350	550	650
300	450	850
225	300	375
369	488	594
255	360	505
325	450	675
319	438	644

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
20	68	41	128
8	25	15	48
98	262	262	622
15	45	23	83
14	38	24	76
82	245	204	530
452	1204	903	2559
338	900	675	1913

M23 & A23 Estimated Group Replanting Numbers			
Estimated	DBH (mm)	Replacement Tree Multiplier	Replanting Total
739	<199	1	739
2890	200-299	2	5781
2121	300-399	3	6362
1402	400-499	4	5607
998	500-599	5	4991
786	600-699	6	4716
53	700-799	7	368
473	>800	8	3786
<b>9461</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>32348</b>

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.  
 # - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T1	389	1	
T2	650	1	
T3	150	1	
T4	150	1	
T5	150	1	
T6	358	1	
T7	150	1	
T8	173	1	
T9	800	1	
T10	600	1	
T11	800		1
T12	650		1
T13	247		1
T14	800		1
T15	300		1
T16	800		1
T17	460		1
T18	707		1
T19	450		1
T20	141		1
T21	800		1
T22	800		1
T23	250		1
T24	250		1
T25	900		1
T26	650		1
T27	950		1
T28	550		1
T29	672		1
T30	1150		1
T31	750		1
T32	750		1
T33	750		1
T34	700		1
T35	1300		1
T36	850		1
T37	600		1
T38	950		1
T39	950		1
T40	1050		1
T41	1050		1
T42	650		1
T43	500		1
T44	800		1
T45	1000		1
T46	500		1
T47	500		1
T48	500		1
T49	500		1
T50	700		1

Airport Individual Tree Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
18	<199	1	18
19	200-299	2	38
13	300-399	3	39
6	400-499	4	24
1	500-599	5	5
5	600-699	6	30
0	700-799	7	0
11	>800	8	88
<b>73</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>242</b>

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.

**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T51	300		1
T52	650		1
T53	850		1
T54	600		1
T55	700		1
T56	850		1
T57	750		1
T58	1200		1
#T59	1000		1
T60	450		1
T61	808		1
T62	950		1
T63	1100		1
T64	550		1
T65	550		1
T66	750		1
T67	600		1
T68	950		1
T69	1200		1
T70	397	1	
T71	100	1	
T72	335	1	
T73	397	1	
#T74	700		1
T75	800		1
T76	800		1
T77	250		1
T78	250		1
T79	250		1
T80	250		1
T81	250		1
T82	250		1
T83	250		1
T84	250		1
T85	400		1
T86	400		1
T87	350		1
T88	250		1
T89	250		1
T90	141	1	
T91	1000		1
T92	212	1	
T93	100	1	
T94	577	1	
T95	100	1	
T96	250		1
T97	250		1
T98	150	1	
#T99	450		1
T100	200		1

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T101	200		1
T102	150		1
T103	250		1
T104	300		1
T105	250		1
T106	550		1
#T107	750		1
T108	212		1
T109	400		1
T110	150		1
T111	300		1
T112	300		1
T113	200		1
T114	250		1
T115	250		1
T116	250		1
T117	354		1
T118	173		1
T119	177		1
T120	260		1
T121	300		1
T122	548		1
T123	450		1
T124	450		1
T125	450		1
T126	450		1
T127	450		1
T128	500		1
T129	1050	1	
T130	400	1	
T131	400	1	
T132	350	1	
T133	350	1	
T134	1443	1	
T135	1167		1
T136	900	1	
T137	1200	1	
T138	200	1	
T139	1039	1	
T140	600	1	
T141	300	1	
T142	400	1	
T143	1250	1	
T144	250		1
T145	200	1	
T146	250	1	
T147	250	1	
T148	850	1	
T149	600		1
T150	600		1

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.

**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T151	800		1
T152	200		1
T153	250		1
T154	354		1
T155	400		1
T156	400		1
T157	380		1
T158	400		1
T159	550		1
T160	750		1
T161	650		1
T162	300		1
T163	300		1
T164	100	1	
T165	212	1	
T166	300	1	
T167	400		1
T168	400		1
T169	650		1
T170	225	1	
T171	225	1	
T172	250	1	
T173	200	1	
T174	200	1	
T175	200	1	
T176	850		1
T177	750		1
T178	200		1
T179	350		1
T180	751		1
T181	268		1
T182	260		1
T183	350		1
T184	316	1	
T185	250	1	
T186	200	1	
T187	350		1
T188	200		1
T189	200		1
T190	300		1
T191	224		1
T192	850		1
T193	850		1
T194	346		1
T195	600		1
T196	250		1
T197	600		1
T198	300		1
T199	300		1
T200	600		1

Note: This survey is based on a brief visual inspection from the ground.  
 It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
 Project Schedule Ref: JSL3287\_755.3  
 Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
 Survey date: October 2023 - December 2023

Surveyor: Ross Carthew  
 Status: For Planning  
 Revision: A  
 Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T201	600		1
T202	600		1
T203	250		1
T204	300		1
#T205	1100		1
T206	350		1
T207	300		1
T208	150		1
T209	150		1
T210	150		1
T211	150		1
T212	150		1
T213	1300		1
T214	850		1
T215	850		1
T216	600		1
T217	404		1
T218	650		1
T219	389		1
T220	200		1
T221	200		1
#T222	592		1
*T223	700		1
*T224	800		1
T225	150		1
#T226	200		1
#T227	200		1
T228	450		1
T229	550		1
T230	550		1
T231	250		1
T232	500		1
T233	200		1
T234	200		1
T235	346		1
T236	350		1
T237	350		1
T238	950		1
T239	400		1
T240	950		1
T241	500		1
T242	1050		1
T243	650		1
T244	650		1
T245	850		1
T246	500		1
T247	700		1
T248	300	1	
T249	200	1	
T250	200	1	

Note: This survey is based on a brief visual inspection from the ground.  
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# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.

**TREE REPLANTING CALCULATION**

Site: Gatwick Airport  
Project Schedule Ref: JSL3287\_755.3  
Drawing Reference: JSL3287\_736-748 - Tree Removal Plans  
Survey date: October 2023 - December 2023

Surveyor: Ross Carthew  
Status: For Planning  
Revision: A  
Notes: -



Tree removals			
Ref. no	Average DBH	Trees felled	Trees Retained
T251	150	1	
T252	150	1	
T253	150	1	
T254	150	1	
T255	325	1	
T256	470	1	
T257	250	1	
T258	850	1	
T259	650		1
T260	650	1	
T261	900	1	
T262	600	1	
T263	1200	1	
T264	447	1	
T265	250	1	
T266	491	1	
T267	150		1
T268	100	1	
T269	250	1	
T270	150	1	
T271	150	1	
#T272	837		1
#T273	200		1
#T274	300		1
#T275	750		1
#T276	1204		1
#T277	433		1
T278	500		1
T279	350		1
T280	250		1
T281	350		1
T282	495		1
T283	300	1	
T284	247		1
	Total	73	211

Note: This survey is based on a brief visual inspection from the ground.  
It is not intended as a full arboricultural inspection.  
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**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups

Project Schedule Ref: JSL3287\_755.4

Drawing Reference: JSL3287\_736-748 - Tree Removal Plans

Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew

Status: For Planning

Revision: A

Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G1	Trees Counted		500	500	500
G2	291	2.0	100	100	150
G4	1057	5.0	100	200	300
G5	246	6.0	150	150	150
G6	Trees Counted		550	550	550
G7	359	5.0	100	100	150
G19	Trees Counted		50	50	50
G24	705	5.0	100	150	200
G25	439	8.0	400	450	500
G26	84	5.0	150	200	200
G27	Trees Counted		500	500	500
G28	81	4.0	100	100	150
G29	328	5.0	100	150	150
G30	Trees Counted		150	150	150
G31	1536	7.0	400	500	600
G33	909	6.0	100	150	150
G40	982	6.0	150	200	250
G41	143	3.0	150	200	200
G42	297	5.0	150	150	200
G43	Trees Counted		300	300	300
G44	Trees Counted		100	100	100
G45	Trees Counted		150	150	150
G46	Trees Counted		150	150	150
G47	257	5.0	100	150	150
G48	Trees Counted		200	200	200
G49	356	4.0	150	200	200

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
4	1.0	2.0	1.0
73	18.3	36.5	18.3
43	10.8	21.5	10.8
7	1.8	3.5	1.8
8	2.0	4.0	2.0
15	3.8	7.5	3.8
7	1.8	3.5	1.8
29	7.3	14.5	7.3
7	1.8	3.5	1.8
4	1.0	2.0	1.0
5	1.3	2.5	1.3
6	1.5	3.0	1.5
14	3.5	7.0	3.5
1	0.3	0.5	0.3
32	8.0	16.0	8.0
26	6.5	13.0	6.5
28	7.0	14.0	7.0
16	4.0	8.0	4.0
12	3.0	6.0	3.0
3	0.8	1.5	0.8
68	17.0	34.0	17.0
3	0.8	1.5	0.8
15	3.8	7.5	3.8
11	2.8	5.5	2.8
3	0.8	1.5	0.8
23	5.8	11.5	5.8

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
500	500	500
106	113	131
150	200	250
150	150	150
550	550	550
106	113	131
50	50	50
125	150	175
425	450	475
169	188	194
500	500	500
106	113	131
119	138	144
150	150	150
450	500	550
119	138	144
175	200	225
169	188	194
156	163	181
300	300	300
100	100	100
150	150	150
150	150	150
119	138	144
200	200	200
169	188	194

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
5	10	5	20
18	37	18	73
11	43	22	75
2	4	2	7
10	20	10	40
4	8	4	15
2	4	2	7
7	15	7	29
7	14	7	28
1	2	1	4
6	13	6	25
2	3	2	6
4	7	4	14
0	1	0	1
32	80	40	152
7	13	7	26
7	28	14	49
4	8	4	16
3	6	3	12
2	5	2	9
17	34	17	68
1	2	1	3
4	8	4	15
3	6	3	11
2	3	2	6
6	12	6	23

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.

**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups

Project Schedule JSL3287\_755.4

Ref: JSL3287\_755.4

Drawing Reference: JSL3287\_736-748 - Tree Removal Plans

Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew

Status: For Planning

Revision: A

Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G50	Trees Counted		350	350	350
G51	95	5.0	150	200	200
G52	Trees Counted		300	300	300
G58	Trees Counted		600	600	600
G59	85	3.0	100	150	150
G60	917	3.0	75	100	150
G61	Trees Counted		200	200	200
G62	Trees Counted		200	200	200
G64	86	4.5	200	200	200
G65	437	4.0	200	200	200
G66	3484	3.0	100	200	250
G67	502	3.0	100	150	200
G68	155	3.0	100	100	100
G69	653	3.0	100	100	150
G70	733	6.0	100	150	200
G74	Trees Counted		500	550	600
G77	Trees Counted		100	100	100
G78	Trees Counted		200	200	200
G79	Trees Counted		150	150	150
G80	Trees Counted		300	300	300
G81	Trees Counted		300	300	300
G86	Trees Counted		350	350	350
G90	2146	5.0	150	300	600
G93	Trees Counted		250	250	250
G95	495	8.0	400	450	500
G97	Trees Counted		350	350	350

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
3	0.8	1.5	0.8
4	1.0	2.0	1.0
1	0.3	0.5	0.3
7	1.8	3.5	1.8
10	2.5	5.0	2.5
102	25.5	51.0	25.5
16	4.0	8.0	4.0
14	3.5	7.0	3.5
5	1.3	2.5	1.3
28	7.0	14.0	7.0
388	97.0	194.0	97.0
56	14.0	28.0	14.0
18	4.5	9.0	4.5
73	18.3	36.5	18.3
21	5.3	10.5	5.3
3	0.8	1.5	0.8
13	3.3	6.5	3.3
18	4.5	9.0	4.5
3	0.8	1.5	0.8
4	1.0	2.0	1.0
8	2.0	4.0	2.0
3	0.8	1.5	0.8
86	21.5	43.0	21.5
4	1.0	2.0	1.0
8	2.0	4.0	2.0
5	1.3	2.5	1.3

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
350	350	350
169	188	194
300	300	300
600	600	600
119	138	144
91	106	128
200	200	200
200	200	200
200	200	200
200	200	200
144	188	219
125	150	175
100	100	100
106	113	131
125	150	175
525	550	575
100	100	100
200	200	200
150	150	150
300	300	300
300	300	300
350	350	350
244	338	469
250	250	250
425	450	475
350	350	350

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
2	5	2	9
1	2	1	4
1	2	1	3
11	21	11	42
3	5	3	10
26	51	26	102
8	16	8	32
7	14	7	28
3	5	3	10
14	28	14	56
97	194	194	485
14	28	14	56
5	9	5	18
18	37	18	73
5	11	5	21
4	8	4	15
3	7	3	13
9	18	9	36
1	2	1	3
3	6	3	12
6	12	6	24
2	5	2	9
43	129	86	258
2	4	2	8
8	16	8	32
4	8	4	15

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups

Project Schedule Ref: JSL3287\_755.4

Drawing Reference: JSL3287\_736-748 - Tree Removal Plans

Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew

Status: For Planning

Revision: A

Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G98	3044	5.0	200	300	700
G99	2819	5.0	250	450	750
G101	Trees Counted		350	350	350
G102	212	3.0	150	200	250
G103	396	6.0	150	200	250
G105	322	6.0	200	250	250
G106	Trees Counted		750	750	750
G107	Trees Counted		200	200	200
G108	Trees Counted		100	100	100
G109	276	4.0	150	200	250
G115	Trees Counted		300	300	300
G116	Trees Counted		500	500	500
G117	Trees Counted		550	550	550
G118	Trees Counted		550	550	550
G119	Trees Counted		250	250	250
G120	Trees Counted		200	200	200
G121	Trees Counted		200	200	200
G122	Trees Counted		150	150	150
G123	Trees Counted		350	350	350
G126	Trees Counted		450	450	450
G129	Trees Counted		300	300	300
G133	219	3.0	150	200	200
G161	535	4.0	150	300	350
G164	155	5.0	250	300	300
G165	608	8.0	100	100	150
G166	Trees Counted		200	200	200

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
122	30.5	61.0	30.5
113	28.3	56.5	28.3
19	4.8	9.5	4.8
24	6.0	12.0	6.0
11	2.8	5.5	2.8
9	2.3	4.5	2.3
2	0.5	1.0	0.5
4	1.0	2.0	1.0
20	5.0	10.0	5.0
18	4.5	9.0	4.5
3	0.8	1.5	0.8
2	0.5	1.0	0.5
3	0.8	1.5	0.8
2	0.5	1.0	0.5
7	1.8	3.5	1.8
3	0.8	1.5	0.8
2	0.5	1.0	0.5
3	0.8	1.5	0.8
2	0.5	1.0	0.5
2	0.5	1.0	0.5
9	2.3	4.5	2.3
25	6.3	12.5	6.3
34	8.5	17.0	8.5
7	1.8	3.5	1.8
10	2.5	5.0	2.5
3	0.8	1.5	0.8

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
288	375	538
363	475	613
350	350	350
175	200	225
175	200	225
219	238	244
750	750	750
200	200	200
100	100	100
175	200	225
300	300	300
500	500	500
550	550	550
550	550	550
250	250	250
200	200	200
200	200	200
150	150	150
350	350	350
450	450	450
300	300	300
169	188	194
213	275	313
269	288	294
106	113	131
200	200	200

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
61	183	153	397
85	226	170	480
14	29	14	57
6	24	12	42
3	11	6	19
5	9	5	18
4	7	4	14
2	4	2	8
5	10	5	20
5	18	9	32
2	5	2	9
3	5	3	10
4	8	4	15
3	5	3	10
4	7	4	14
2	3	2	6
1	2	1	4
1	2	1	3
2	3	2	6
2	4	2	8
7	14	7	27
6	13	6	25
17	34	26	77
4	7	4	14
3	5	3	10
2	3	2	6

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.

**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Airport Groups

Project Schedule Ref: JSL3287\_755.4

Drawing Reference: JSL3287\_736-748 - Tree Removal Plans

Survey date: October 2023 - December 2023

Trees Removed	Area Removed (Ha)	Groups Replanting Total
2156	3.22	4126

Surveyor: Ross Carthew

Status: For Planning

Revision: A

Notes: -



Calculation input					
Ref. no	Area to be Removed (Square Meters)	Approx Centres (m)	Lowest DBH (mm)	Mode DBH (mm)	Highest DBH (mm)
G167	450	4.0	150	200	200
G168	Trees Counted		250	250	250
G170	1774	8.0	200	250	300
G177	74	3.0	200	300	350
G178	312	6.0	150	200	250
G179	Trees Counted		300	300	300
G180	242	2.0	50	50	75
W1	2502	4.0	150	250	400
W4	448	4.0	150	500	800

Tree Numbers			
Total Trees	Lower 25%	Mid 50%	Upper 25%
29	7.3	14.5	7.3
3	0.8	1.5	0.8
28	7.0	14.0	7.0
9	2.3	4.5	2.3
9	2.3	4.5	2.3
9	2.3	4.5	2.3
61	15.3	30.5	15.3
157	39.3	78.5	39.3
28	7.0	14.0	7.0

Mean Diameters (mm)		
Lower 25%	Mid 50%	Upper 25%
169	188	194
250	250	250
225	250	275
244	288	319
175	200	225
300	300	300
53	56	66
206	263	331
319	488	644

Replanting Numbers			
Lower 25%	Mid 50%	Upper 25%	Total
7	15	7	29
2	3	2	6
14	28	14	56
5	9	7	20
2	9	5	16
7	14	7	27
15	31	15	61
79	157	118	353
21	56	42	119

Airport Estimated Group Replanting Numbers			
Estim	DBH (mm)	Replacement Tree	Replantin
1102	<199	1	1102
553	200-299	2	1106
258	300-399	3	775
117	400-499	4	468
82	500-599	5	408
42	600-699	6	254
2	700-799	7	14
0	>800	8	0
<b>2156</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>4126</b>

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.

# - indicates estimated/offsite tree. \* - indicates off site tree. FSB - First Significant Branch.



**TREE REPLANTING CALCULATION**

Site: Gatwick NRP - Combined project wide figures  
 Project: JSL3287\_755.5  
 Schedule Ref:  
 Drawing: JSL3287\_736-748 & JSL3287\_801- 808  
 Reference:  
 Survey date: October 2023 - December 2023



Total Replanting Numbers			
Estimated Tree Removal	DBH (mm)	Replacement Tree Multiplier	Replanting Total
12000	Total trees	Total Replacement Trees	37697

M23 & A23 Individual Tree Replanting Numbers			
Count	DBH	Replacement Trees	Total
61	<199	1	61
99	200-299	2	198
48	300-399	3	144
31	400-499	4	124
24	500-599	5	120
12	600-699	6	72
18	700-799	7	126
17	>800	8	136
<b>310</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>981</b>

Airport Individual Tree Replanting Numbers			
Count	DBH	Replacement Trees	Total
18	<199	1	18
19	200-299	2	38
13	300-399	3	39
6	400-499	4	24
1	500-599	5	5
5	600-699	6	30
0	700-799	7	0
11	>800	8	88
<b>73</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>242</b>

M23 & A23 Estimated Group Replanting Numbers			
Count	DBH	Replacement Trees	Total
739	<199	1	739
2890	200-299	2	5781
2121	300-399	3	6362
1402	400-499	4	5607
998	500-599	5	4991
786	600-699	6	4716
53	700-799	7	368
473	>800	8	3786
<b>9461</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>32348</b>

Airport Estimated Group Replanting Numbers			
Count	DBH	Replacement Trees	Total
1102	<199	1	1102
553	200-299	2	1106
258	300-399	3	775
117	400-499	4	468
82	500-599	5	408
42	600-699	6	254
2	700-799	7	14
0	>800	8	0
<b>2156</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>4126</b>

M23 & A23 Total Replanting Numbers			
Count	DBH	Replacement Trees	Total
800	<199	1	800
2989	200-299	2	5979
2169	300-399	3	6506
1433	400-499	4	5731
1022	500-599	5	5111
798	600-699	6	4788
71	700-799	7	494
490	>800	8	3922
<b>9771</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>33329</b>

Airport Total Replanting Numbers			
Count	DBH	Replacement Trees	Total
1120	<199	1	1120
572	200-299	2	1144
271	300-399	3	814
123	400-499	4	492
83	500-599	5	413
47	600-699	6	284
2	700-799	7	14
11	>800	8	88
<b>2229</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>4368</b>

Total Replanting Numbers			
Count	DBH	Replacement Trees	Total
1920	<199	1	1920
3561	200-299	2	7122
2440	300-399	3	7319
1556	400-499	4	6223
1105	500-599	5	5524
845	600-699	6	5072
73	700-799	7	508
501	>800	8	4010
<b>12000</b>	<b>Total trees</b>	<b>Total Replacement Trees</b>	<b>37697</b>

Appendix K

Veteran Tree Identification Methodology