

### Arboricultural Impacts: Summary

(For details, see below)

Impact	No. of Trees
Trees to be removed	15
Trees to be pruned	9

#### Trees to be Removed

Ordered from west to east

No.	Species
6001	Ash
6000	Ash
6002	Ash
6003	Ash
43	Monterey pine
82	Monterey pine
6004	Ash
5836	Ash
95	Scots pine
97	Monterey pine
6006	Ash
6010	Silver birch
6007	Goat willow
6008	Goat willow
6009	Goat willow

#### Trees to be pruned

(For full details, see SJA schedule of tree works\*)

No.	Species	Works (Outline only)
5813	Ash	Reduce southern canopy extent by 2m
5815	Common alder	Reduce southern leader by 3m
5820	Monterey pine	Remove all deadwood over 100mm in diameter
4	Monterey pine	Reduce hazard beam limbs originating at 17m and extending upwards to source
5833	Ash	Remove hazard beam limb originating at 1.5m and extending north-west
533	Oak	Reduce crown by 4m
6005	English oak	Remove all deadwood over 100mm in diameter
5839	Ash	Reduce southern crown extent by 2m
5840	Ash	Reduce to previous reduction points

Pruning is to be undertaken in accordance with the British Standard Recommendations for Tree work, BS3998: 2010. Climbing irons or spikes are not to be used whilst pruning trees. Pruning will be undertaken according to the principles of good arboricultural practice as stated in Arboriculture Research Note ARN 48 'A Definition of the Best Pruning Position' (AAIB, 1983). When removing branches, care will be taken to cut back to the branch bark collar or ridge so as not to leave a stub that could provide a food base for decay fungi; yet not to cut into or beyond this collar or ridge. Where limbs or branches are to be shortened they will be cut back cleanly to a vigorous side branch, leaving the branch bark ridge and collar intact. **At their point of origin, retained side branches intended to form the new dominant shoot shall be at least 30% of the diameter of the parent branch at the pruning point.**

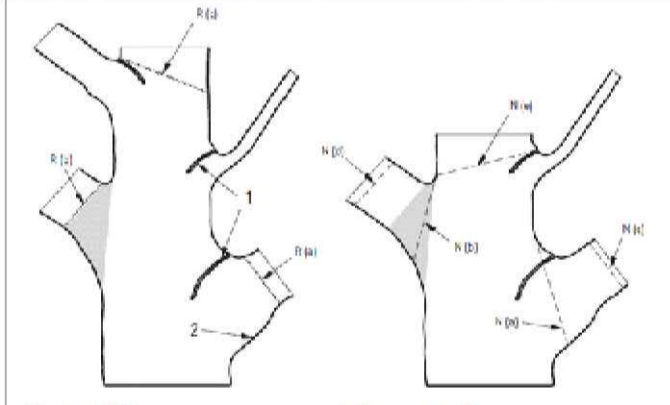
### Pruning

Pruning shall be undertaken following the principles of good arboricultural practice as stated in British Standard BS 3998: 2010. The positions of final pruning cuts will comply with Figure 2 'Positions of final cuts' at p23 of this document, as shown below.

Where aerial growth is to be removed, great care shall be taken not to leave a stub which may provide a food base for both fresh wound parasites and decay fungi.

Where a limb, branch or leader is to be shortened it shall be cut back cleanly to a vigorous side branch leaving the branch bark ridge and branch collar intact. **Retained side branches intended to form the new dominant shoot shall be at least 30% of the diameter of the parent branch at the pruning point.** Injury of the wood and bark of the parent stem or branch above the cut will also be avoided.

The contractor shall relate the position of any individual final pruning cut to the form of the canopy as a whole, so that upon completion of the work the tree has as natural an appearance (for the species) as constraints allow.



- Legend for pruning symbols:
- 1 Branch bark ridge
  - 2 Branch collar
  - 3 Cut to new main stem/branch and branch bark ridge are square
  - 4 Cut to new main stem/branch ridge - no branch collar as aspect
  - 5 Branch to be cut to the correct diameter - make sure cut is made on side of branch
  - 6 Cut to branch bark ridge - no bark collar and cut to the bark bark ridge
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### Tree Felling

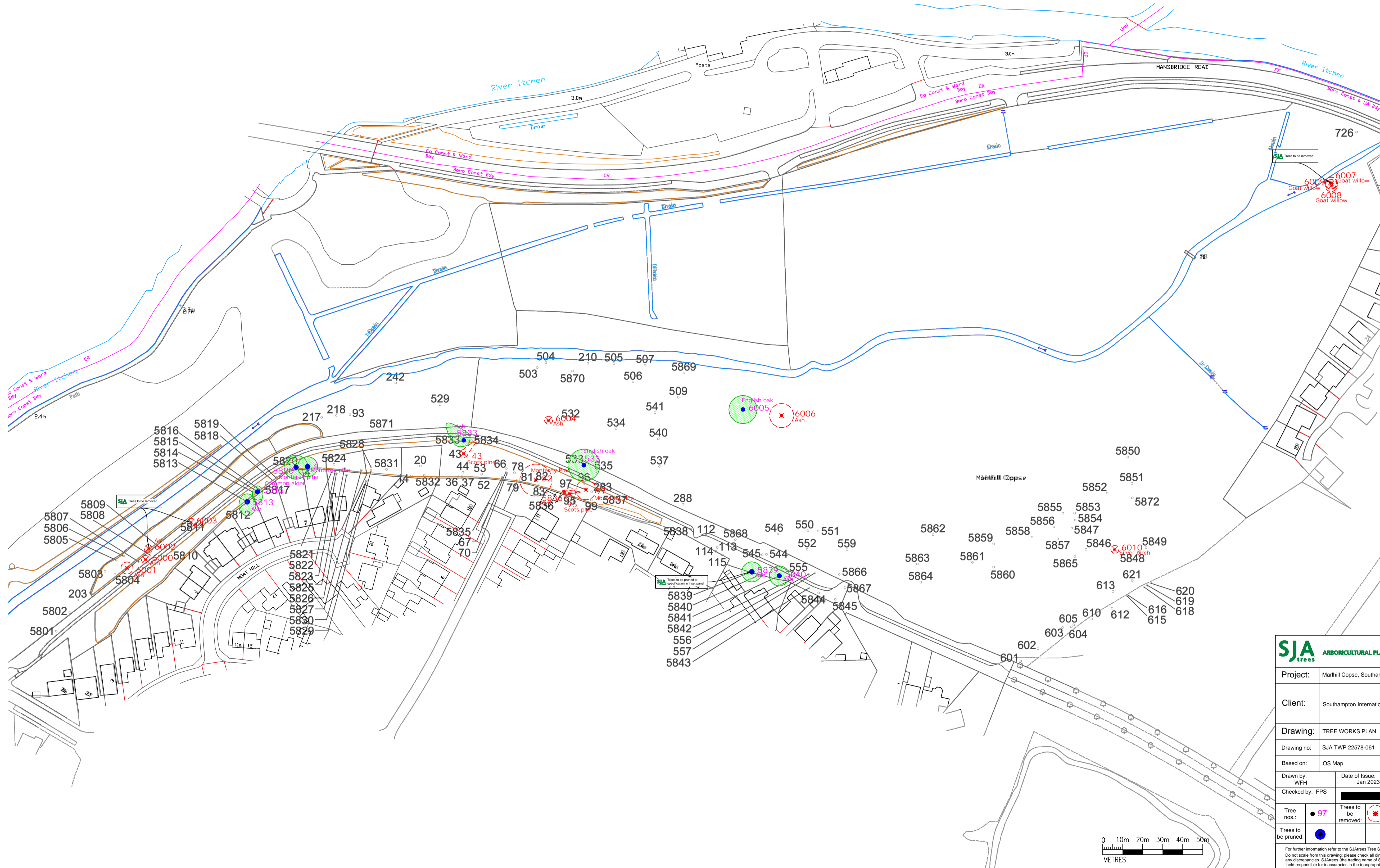
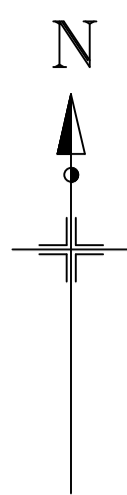
Felling is defined as the cutting down of a tree to a point as close to ground level as is reasonably practicable, but no higher than 100mm above surrounding ground level. (Unless a tree has pronounced buttress roots which makes this impractical, in which case it should be cut to as close to 100mm as possible).

Felling shall be carried out in a controlled manner, using guide ropes where appropriate to ensure that trees or branches fall away from buildings, equipment, and other trees and understory shrubs.

Where necessary, trees should be dismantled and removed in sections rather than felled from the ground to prevent them falling into, and damaging buildings, equipment, vehicles and the crowns of other trees.

No part of any tree shall fall outside the boundaries of the premises unless prior agreement has been reached with the adjacent landowner, and the client has been informed in advance.

In order to allow time for bats to re-locate, trees that are covered with dense ivy will be left for a period of 24 hours prior to cutting up or removal.



#### Crown Reduction

Crown reduction is defined as the reduction of the outline dimension of the canopy, from the tips of limbs and branches toward the main trunk, by pruning growth to an appropriately sized lateral branch, twig or bud to leave a flowing silhouette.

Reduction may be of the entire crown, or of one part of the crown. The extent of reduction is given in metres.

Where a limb, branch or leader is to be shortened it shall be cut back cleanly to a vigorous side branch leaving the branch bark ridge and branch collar intact. Retained side branches intended to form the new dominant shoot shall be at least 30% of the diameter of the parent branch at the pruning point. The contractor shall relate the position of any individual final pruning cut to the form of the canopy as a whole, so that upon completion of the work the tree has as natural an appearance (for the species) as constraints allow.

#### Dead-Wooding

Dead-wooding is the removal of all dead, dying or diseased branch wood, broken branches and stubs left from previous tree surgery operations that are 25mm in diameter or above at their point of origin.

When removing dead or diseased branches care will be taken to avoid injury to living bark or sapwood, which could lead to the development of further dysfunction and colonization by decay fungi or pathogens.

Pollarding should be avoided between the time of bud-burst and midsummer, when starch reserves are low, and again during autumn and early winter when the moisture content of wood is low. Pollarding should not be undertaken during a drought year.

**ARBORICULTURAL PLANNING CONSULTANTS**

Project:	Marlhill Copse, Southampton	
Client:	Southampton International Airport	
Drawing:	TREE WORKS PLAN	
Drawing no.:	SJA TWP 22578-061	
Based on:	OS Map	
Drawn by:	Date of Issue:	Scale:
WFH	Jan 2023	1:1000@ A1
Checked by:	FPS	
Tree nos.:	● 97	● 82
Trees to be removed:	● 97	● 82
Canopies of trees to be retained:	● 97	● 82
Trees to be pruned:	● 97	● 82

For further information refer to the SJA Trees Tree Survey Schedule. Do not scale from this drawing please check all dimensions on site, and notify us of any discrepancies. SJA trees (the trading name of Simon Jones Associates Ltd.) cannot be held responsible for inaccuracies in the topographical plan on which this drawing is based. © Simon Jones Associates Ltd. 2023.

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This drawing is designed to reflect only the principles of layout and/or design insofar as these relate to the protection of trees to be retained, and should NOT be read as a definitive engineering or construction method statement. Reference should be made to the architect or structural engineer, as appropriate, over any matters of construction detail or specification, or any engineering standards or regulatory requirements relating to proposed structures, hard surfaces or underground services.

