

BROOKLEIGH: CENTRAL SECTION

Proposed Tree Profile Report

DECEMBER 2024

Quality information

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Issue history

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01 INTRODUCTION

The purpose of this report is to illustrate the form and growing conditions that have been considered for all trees proposed along the Central Section road within the Brookleigh development. The report should be read in conjunction with the accompanying Design and Access Statement and Landscape Planting Plans.

Proposed tree species have been selected from the Northern Arc Street Design Adoption Manual. Exact tree positions and groupings have evolved as the wider design has developed, but the principle of creating a species resilience mixed avenue of trees that responds to the proposed character areas and existing rural-edge context remains.

This report comprises of:

Tree details

- List of the key details of all the proposed trees, as specified in the accompanying planting plans, including; potential mature heights and canopy spreads in optimal and native growing environments.

Tree scale

- An image and scaled reference of all proposed trees to illustrate their varying profile when encountered as part of an avenue. Images show the tree's optimal, unmanaged size, and the desired heights and canopy spreads regulated through on-going management.

Tree pit soil volume

- Two typical long sections of a tree pit / verge planting to illustrate the minimum and maximum soil volume provided for each proposed tree. These should be read in conjunction with planting details drawing included within the Landscape Planting Plans.



Proposed tree locations along Central Section

Key:

Feature trees / street trees:		Street Trees:	
●	Carpinus betulus	●	Tilia cordata
●	Acer buergerianum	●	Ulmus 'New Horizon'
●	Liriodendron tulipifera	●	Zelkova serrata
		●	Ginkgo biloba
		●	Quercus frainetto

02 TREE DETAILS

1 *Acer buergerianum* - Trident Maple
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 25m+ (less 20m)
Optimal mature spread: 10m (TDAG)
Crown: Ovoid / broad ovoid

2 *Carpinus betulus* - Hornbeam
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 20m+
Optimal mature spread: 4-8m (RHS)
Crown: Ovoid / globular

3 *Liriodendron tulipifera* - Tulip tree
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 15-25m
Optimal mature spread: 8m+ (RHS)
Crown: Ovoid / irregular with age

4 *Ginkgo biloba* - Ginkgo
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 30m+
Optimal mature spread: 4-8m (RHS)
Crown: Ovoid / irregular with age



Feature tree / street tree

Street tree

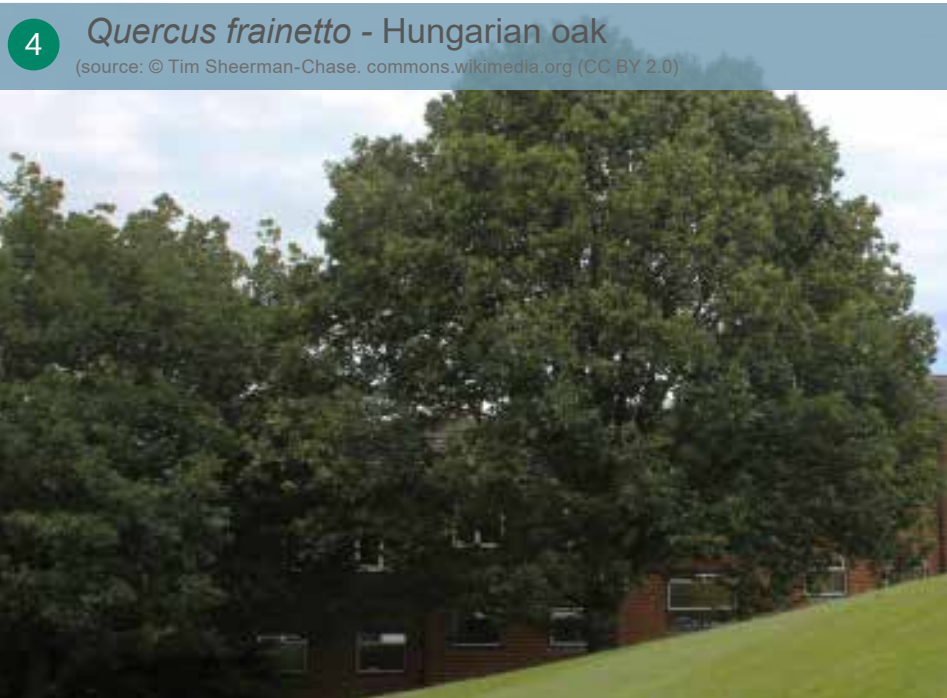
02 TREE DETAILS

5 *Tilia cordata* - Small leaved lime
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 30m+
Optimal mature spread: 8m+ (RHS)
Crown: Ovoid / globular

6 *Ulmus 'New Horizon'* - Elm New Horizon
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 8-12m
Optimal mature spread: 4-8m (RHS)
Crown: Conical

7 *Zelkova serrata* - Japanese zelkova
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 30m 20m*
Optimal mature spread: 8m+ (RHS)
Crown: Vase shaped

8 *Quercus frainetto* - Hungarian oak
Semi-mature Extra Heavy Standard; girth 16-18cm
Installed height: 4-4.5m
Optimal mature height: 25m
Optimal mature spread: 8m+ (RHS)
Crown: Globular



Street tree

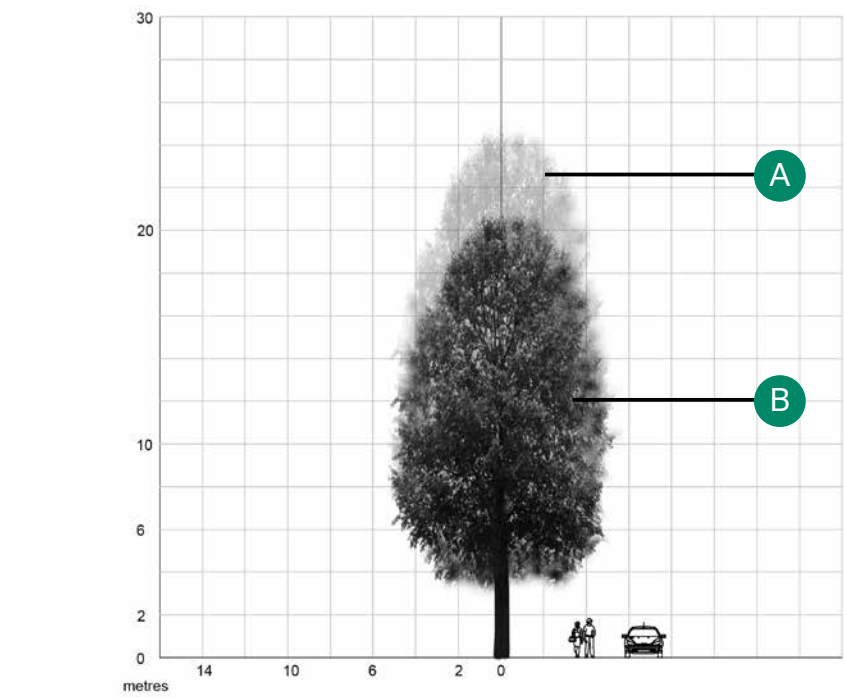
03 TREE SCALE

1 *Acer buergerianum* - Trident Maple
Optimal mature height: 25m+
Managed mature height: 18-25m
Optimal mature spread: 10m (TDAG)
Managed mature spread: 8-10m
Crown: Ovoid / broad ovoid

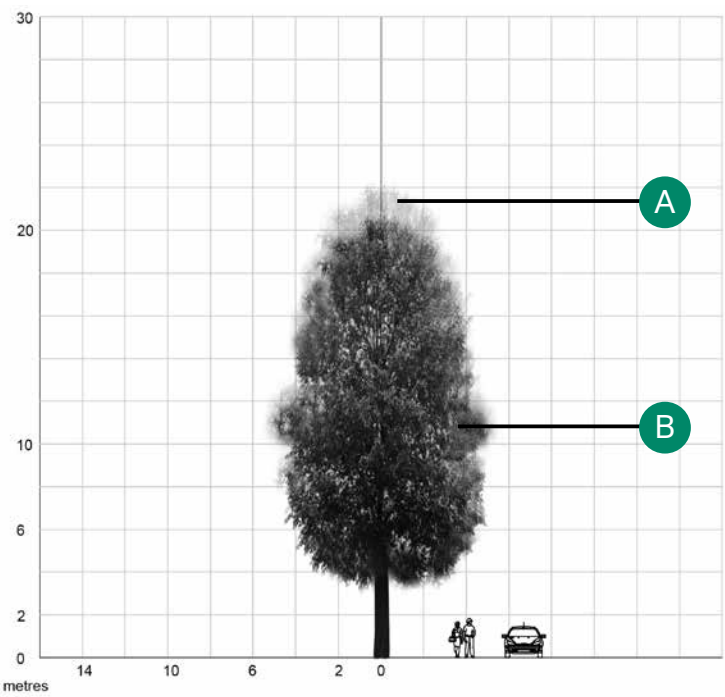
2 *Carpinus betulus* - Hornbeam
Optimal mature height: 20m+
Managed mature height: 20-25m
Optimal mature spread: 4-8m (RHS)
Managed mature spread: 4-8m
Crown: Ovoid / globular

3 *Liriodendron tulipifera* - Tulip tree
Optimal mature height: 15-25m
Managed mature height: 15-25m
Optimal mature spread: 8m+ (RHS)
Managed mature spread: 8-10m
Crown: Ovoid / irregular with age

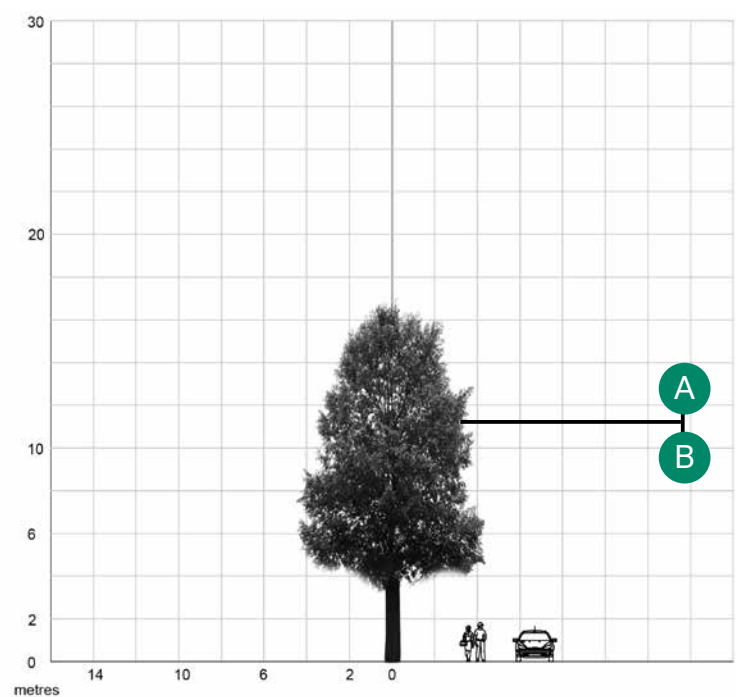
4 *Ginkgo biloba* - Ginkgo
Optimal mature height: 30m+
Managed mature height: 20-25m
Optimal mature spread: 4-8m (RHS)
Managed mature spread: 4-8m
Crown: Ovoid / irregular with age



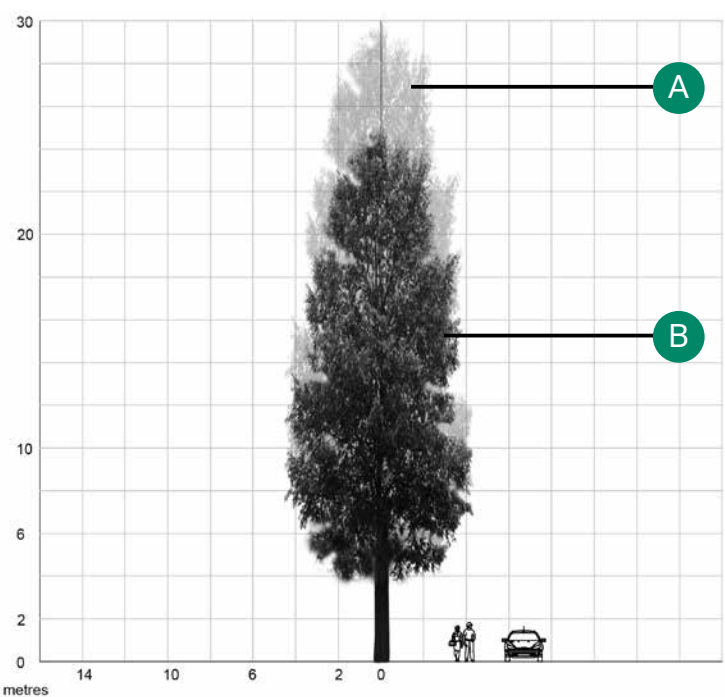
1 *Acer buergerianum* - Trident Maple



2 *Carpinus betulus* - Hornbeam



3 *Liriodendron tulipifera* - Tulip tree



4 *Ginkgo biloba* - Ginkgo

Feature tree / street tree
Street tree
A Optimum mature height/spread
B Managed mature height/spread

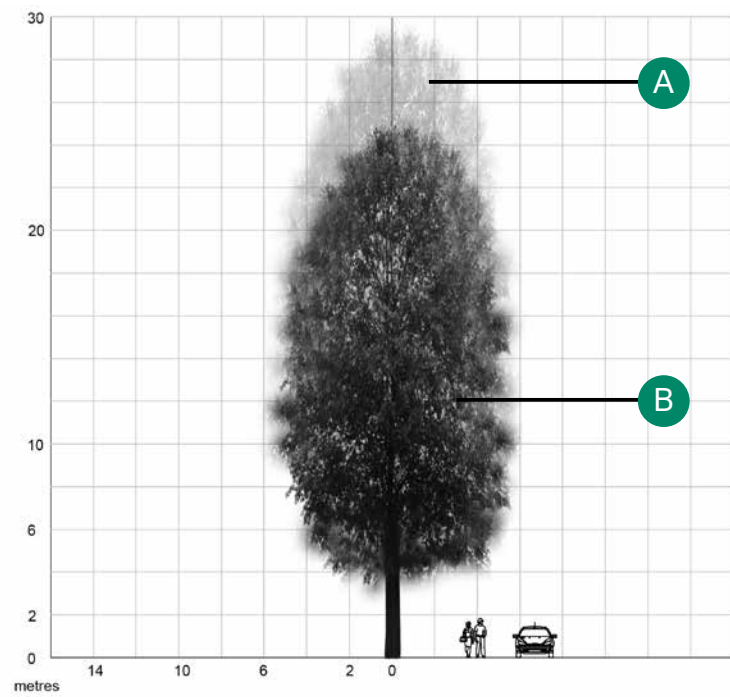
03 TREE SCALE

5 *Tilia cordata* - Small leaved lime
Optimal mature height: 30m+
Managed mature height: 20-25m
Optimal mature spread: 8m+ (RHS)
Managed mature spread: 8-10m
Crown: Ovoid / globular

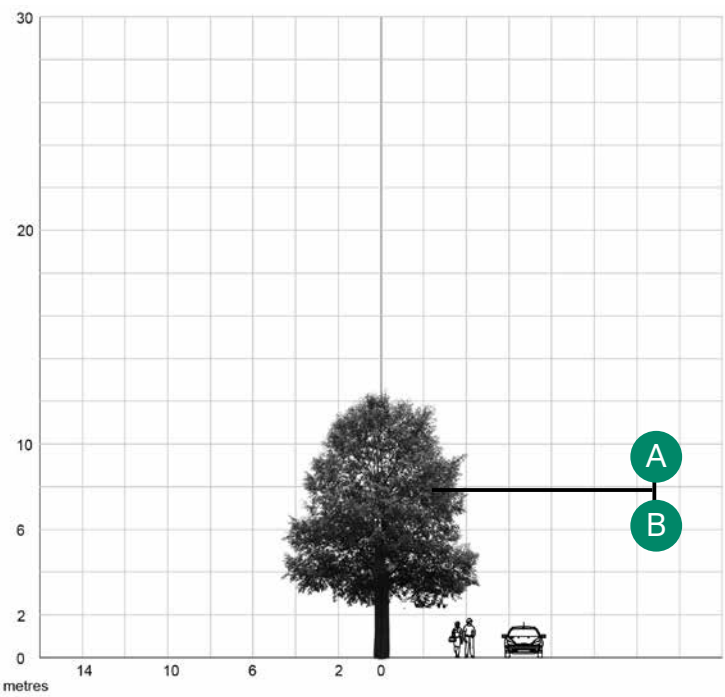
6 *Ulmus 'New Horizon'* - Elm New Horizon
Optimal mature height: 8-12m
Managed mature height: 12m
Optimal mature spread: 4-8m (RHS)
Managed mature spread: 8m
Crown: Conical

7 *Zelkova serrata* - Japanese zelkova
Optimal mature height: 30m
Managed mature height: 20-25m
Optimal mature spread: 8m+ (RHS)
Managed mature spread: 8-10m
Crown: Vase shaped

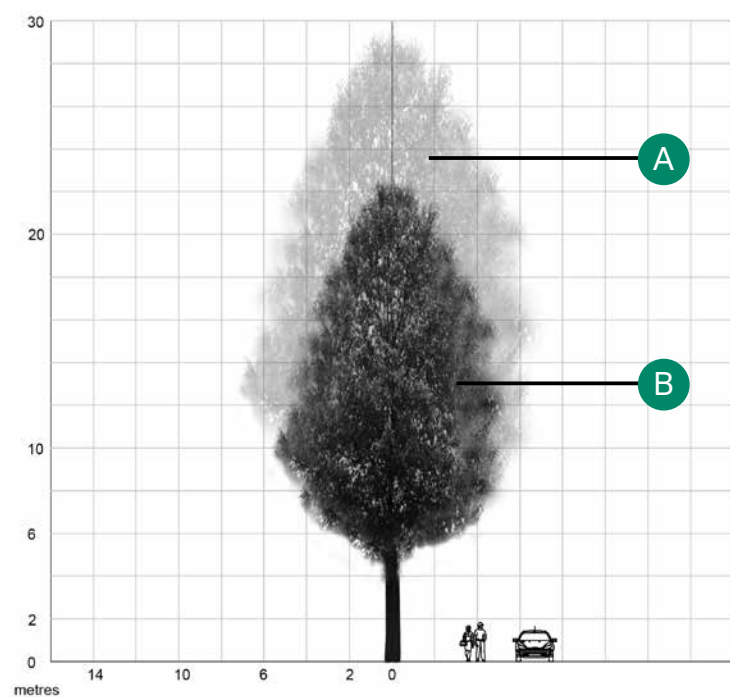
8 *Quercus frainetto* - Hungarian oak
Optimal mature height: 25m
Managed mature height: 20-25m
Optimal mature spread: 8m+ (RHS)
Managed mature spread: 8-10m
Crown: Globular



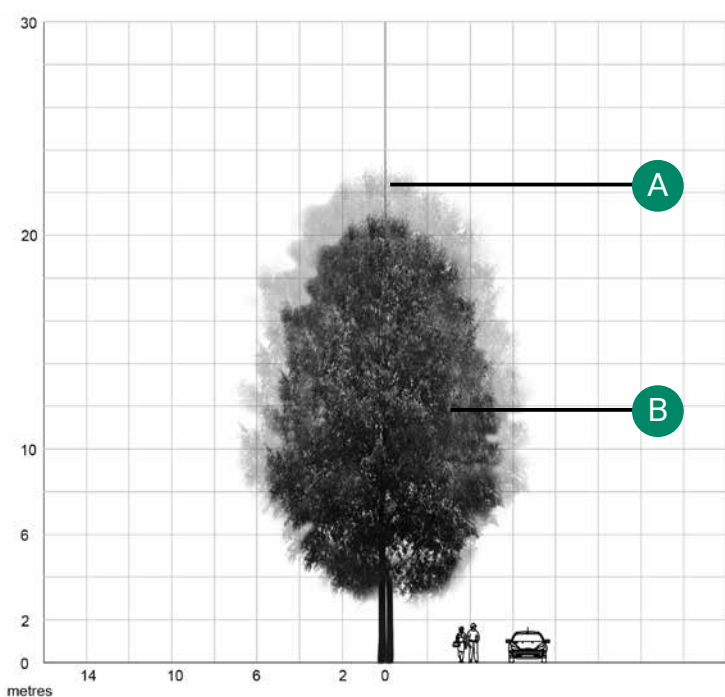
5 *Tilia cordata* - Small leaved lime



6 *Ulmus 'New Horizon'* - Elm New Horizon



7 *Zelkova serrata* - Japanese zelkova

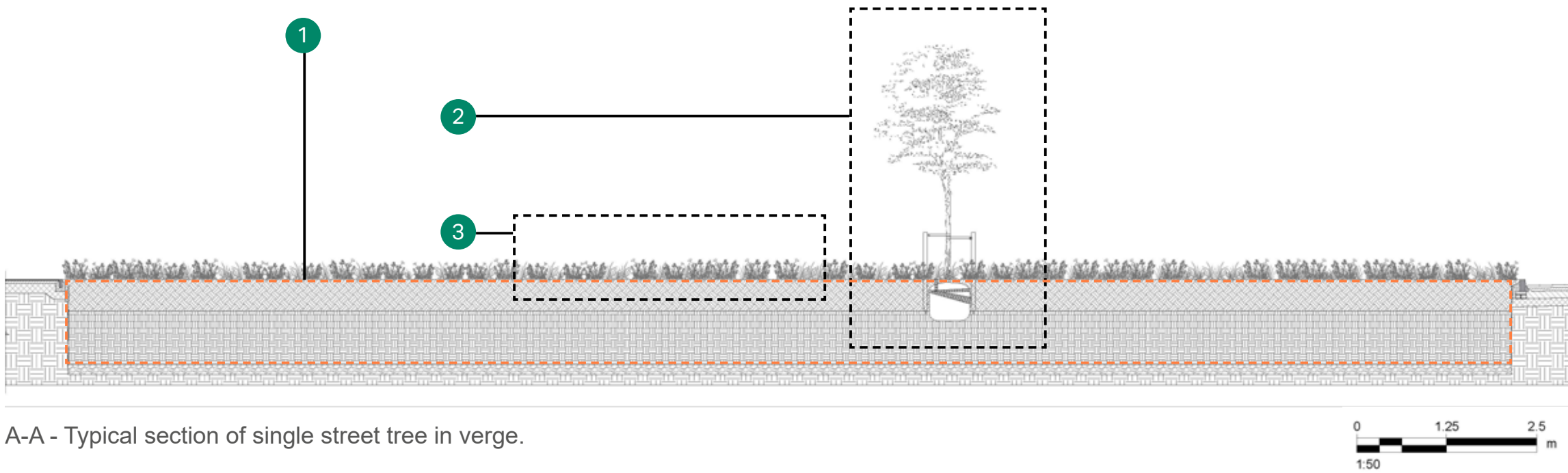


8 *Quercus frainetto* - Hungarian oak

Street tree
A Optimum mature height/spread
B Managed mature height/spread

3 TREE PIT SOIL VOLUME

- 1 Typical single tree pit volume in verge planting; 1m deep x 2.5m wide x varying lengths. Minimum volume 30m³. Single tree pit volume ranges from 30m³ to 127.5m³
- 2 Proposed street tree in planting – refer to PLANTING DETAILS 1 of 1 ref: 60610807-ACM-CS-ZZ-DR-LA-0410
- 3 Proposed verge planting – refer to PLANTING DETAILS 1 of 1 ref: 60610807-ACM-CS-ZZ-DR-LA-0410



3 TREE PIT SOIL VOLUME

- 1 Typical shared tree pit volume in verge planting; 1m deep x 2.5m wide x varying lengths. Minimum volume 24m³ per tree (20% reduction) when sharing with other proposed trees. Shared tree pit volume ranges from 60m³ to 470m³.
- 2 Proposed street tree in planting – refer to PLANTING DETAILS 1 of 1 ref: 60610807-ACM-CS-ZZ-DR-LA-0410
- 3 Proposed verge planting – refer to PLANTING DETAILS 1 of 1 ref: 60610807-ACM-CS-ZZ-DR-LA-0410

