

# Assessment of Drainage Proposals

### 55 Fitzroy Park, Camden

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### Introduction

JFA Environmental Planning were asked to assess the impact of the proposed drainage layout on both the existing and proposed landscape at 55 Fitzroy Park, Camden, London by affected neighbours. The impact on existing and proposed vegetation has been summarised in the following table and illustrated on the appended drawing overlays.

Potential for tree or shrub roots to impact on drainage/ foul sewer assets is related to:

- Species some species are more shallow rooting and therefore potential for impacts are reduced. However all trees and shrubs have the potential to impact on drainage features dependant on soil type, and climate (i.e. drought conditions); and
- Rooting extent generally the area of potential impact or RPA is the width of the canopy, which increases with the maturity of the plant. Therefore, the possible extent of the rooting zone should be based on the mature tree or shrub canopy size.



### **Identified Conflicts Between Drainage Proposals and Landscape**

Proposal	Tree Numbers	Species	Current Canopy (maximum reach)	Potential canopy spread	Conflict	Reference
Gravel/infill trench pipework to the south of plot 5	T552	Hawthorn	5m	4-8m	Pipework runs through RPA of tree	See Figure 6 of JFA overlays
	Т553	Sycamore	5m	10-25m	Pipework runs through RPA of tree	
	Trees in neighbouring land to south of site	Unknown	Unknown	Unknown	They may have RPAs that extend into the site where the gravel trench and pipework is proposed	
Foul water holding tank and pump chamber on north- western corner of site	T557	Eucalyptus	3m	7-15m	Within RPA of tree	
Storm drain pipework between the existing weir and the gravel trench	T557	Eucalyptus	3m	7-15m	Pipework runs through RPA of tree	
	T558	Eucalyptus	5m	7-15m	Pipework runs through RPA of tree	
Foul and storm drains running alongside and behind plots 1 and 4	T536	Apple	3.5m	4-8m	Tree canopy and roots could potentially enter the easement area	
	T563	Silver birch	4m	10m	Tree canopy and roots could potentially enter the easement area	
	T567	Ash	4m	20m	Tree canopy and roots could potentially enter the easement area	
Storm water pipework south of plot 4	T520	Walnut	6.5m	15m	Tree canopy and roots could potentially enter the easement area	
Proposed vegetation - Id	entified Conflicts					
Proposal	Proposed Vegetation reference	Species	Conflict			Reference
between the existing weir and	H2 hedge planting along north-western boundary	Hawthorn, Field Maple, Dog rose, Hornbeam;	Some of these species too close to easement / sewer			See Figure 9 of JFA overlays
	Tree planting indicated	Beech, Oak, Hornbeam, Silver birch, Holly and Rowan	Some of these species too close to easement / sewer			
Gravel/infill trench pipework to the south of plot 5	NS Native hedge planting along southern boundary	Holly, Yew, Hawthorn, Hornbeam, Beech and Hazel	Some of these species too close to easement / sewer			
	SP Structure planting along southern boundary	Hawthorn, Hazel, Dog rose, Wayfaring tree, Guelder rose	Some of these species too close to easement / sewer			
Foul and storm drains running alongside and behind plots 1 and 4		Hawthorn, Field Maple, Dog rose, Hornbeam;	Some of these species too close to easement / sewer			
	Tree planting indicated	Beech, Oak, Hornbeam, Silver birch, Holly and Rowan	Some of these species too close to easement / sewer			
	Orchard planting	Apple and plum varieties	Some of these species too close to easement / sewer			

## Conclusion

The overlay of the Tree Protection Plan onto the Proposed Drainage Layout highlights several existing trees that are to be retained whose canopy / root protection areas will be directly affected by the drainage proposals.

Some existing trees also have the potential to grow much larger in the future and as a result their roots could grow into the easement corridors of the proposed sewer runs.

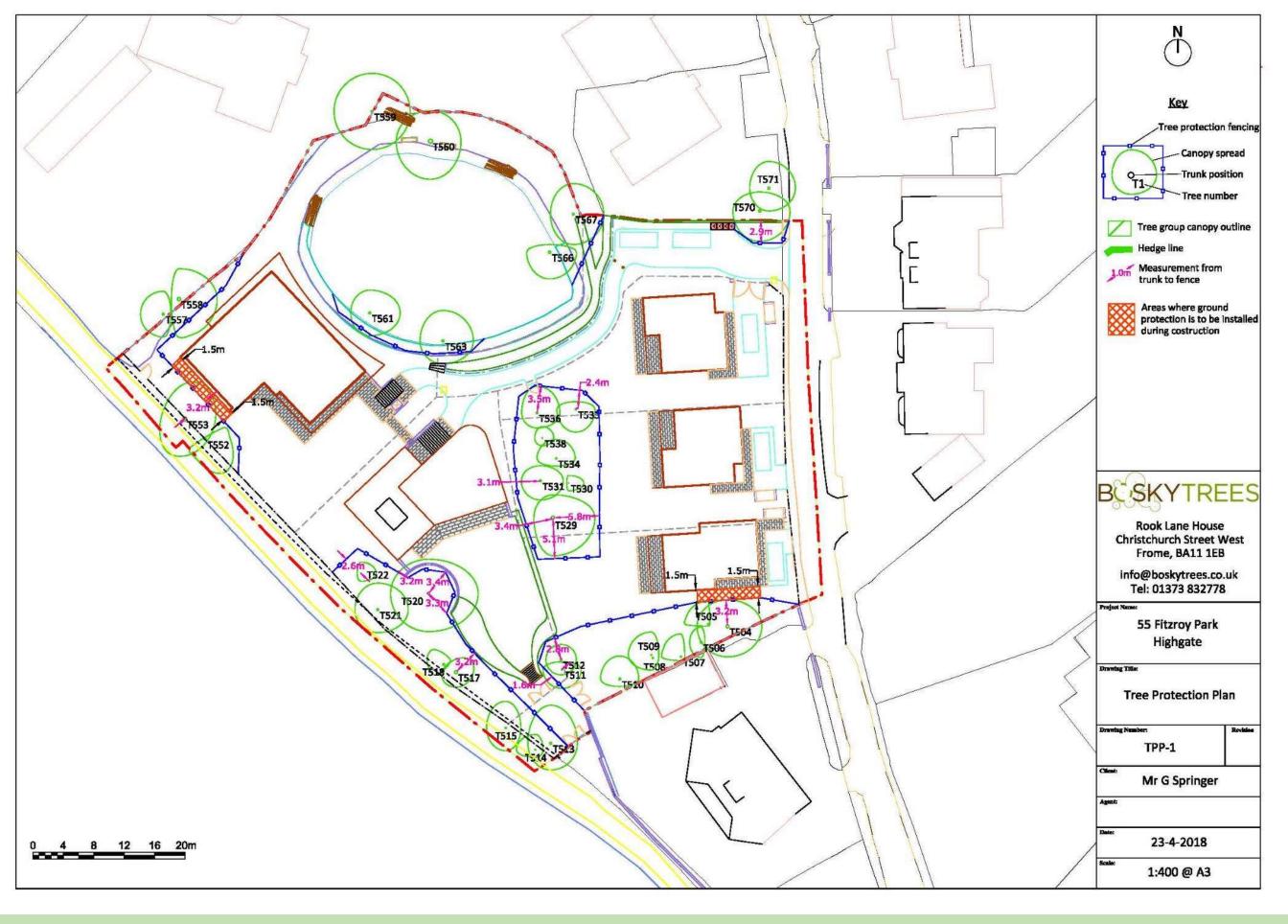
Trees in neighbouring land whose root protection areas overrun into the site could also be affected by excavations for the proposed sewers.

When the Proposed Drainage Layout is overlaid onto the Landscape Masterplan it is clear that the proposed tree and larger shrub planting that falls within the sewer easements would not be achievable.





#### Figure I -TREE REMOVAL PLAN – Bosky trees

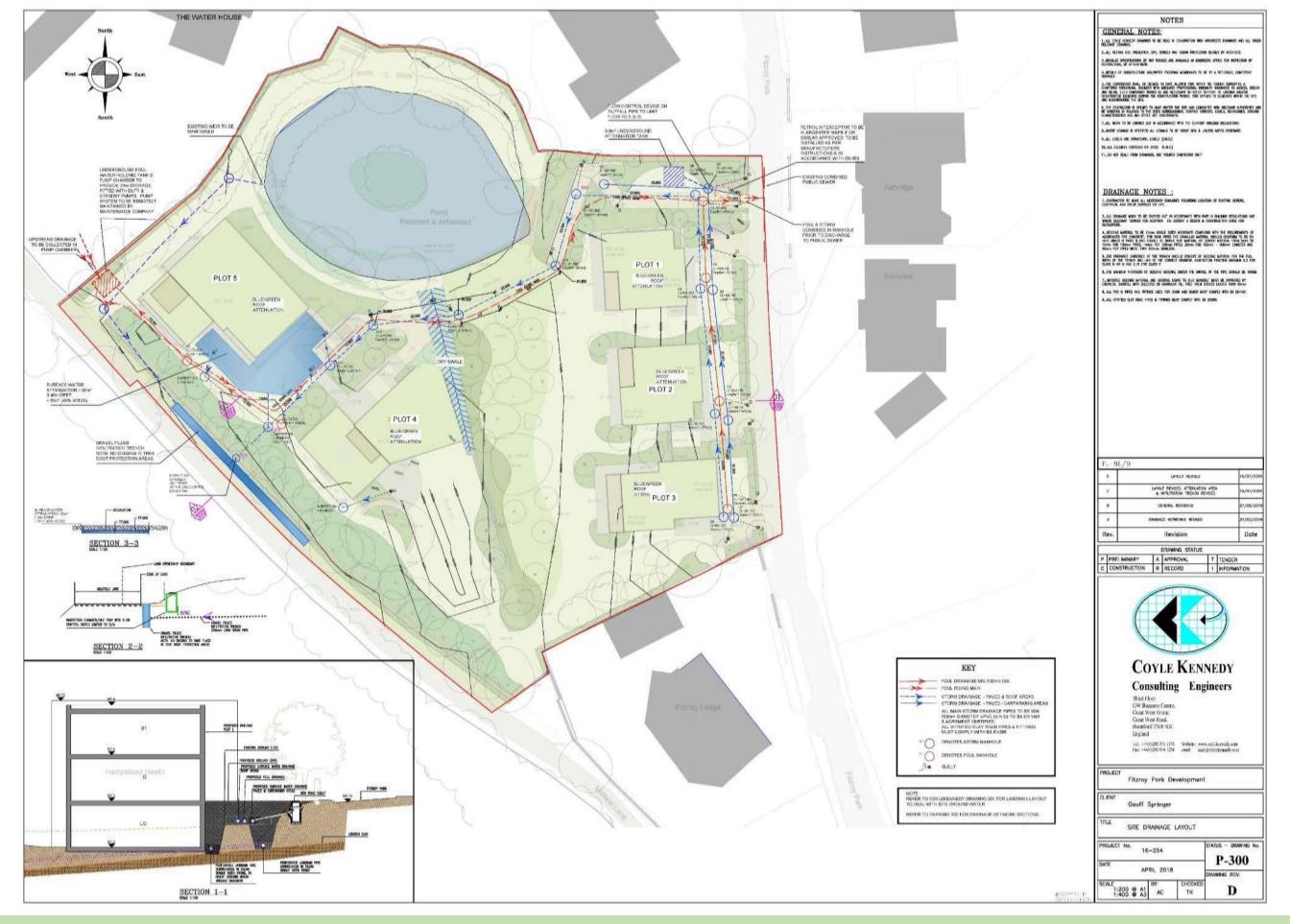


#### Figure 2 - TREE PROTECTION PLAN – Bosky Trees



#### Figure 3 - LANDSCAPE MASTERPLAN – LUC Architects

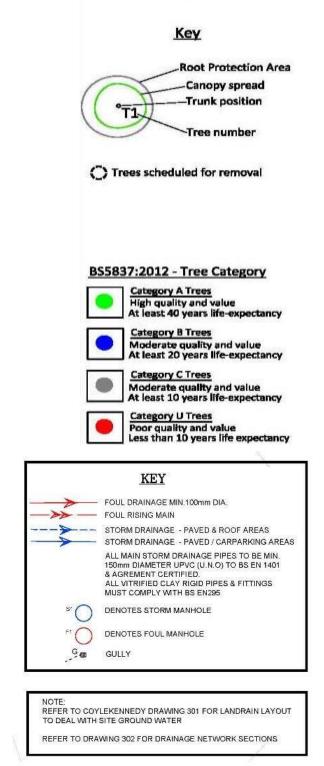
#### Figure 4 - SITE DRAINAGE LAYOUT – Coyle Kennedy Engineers



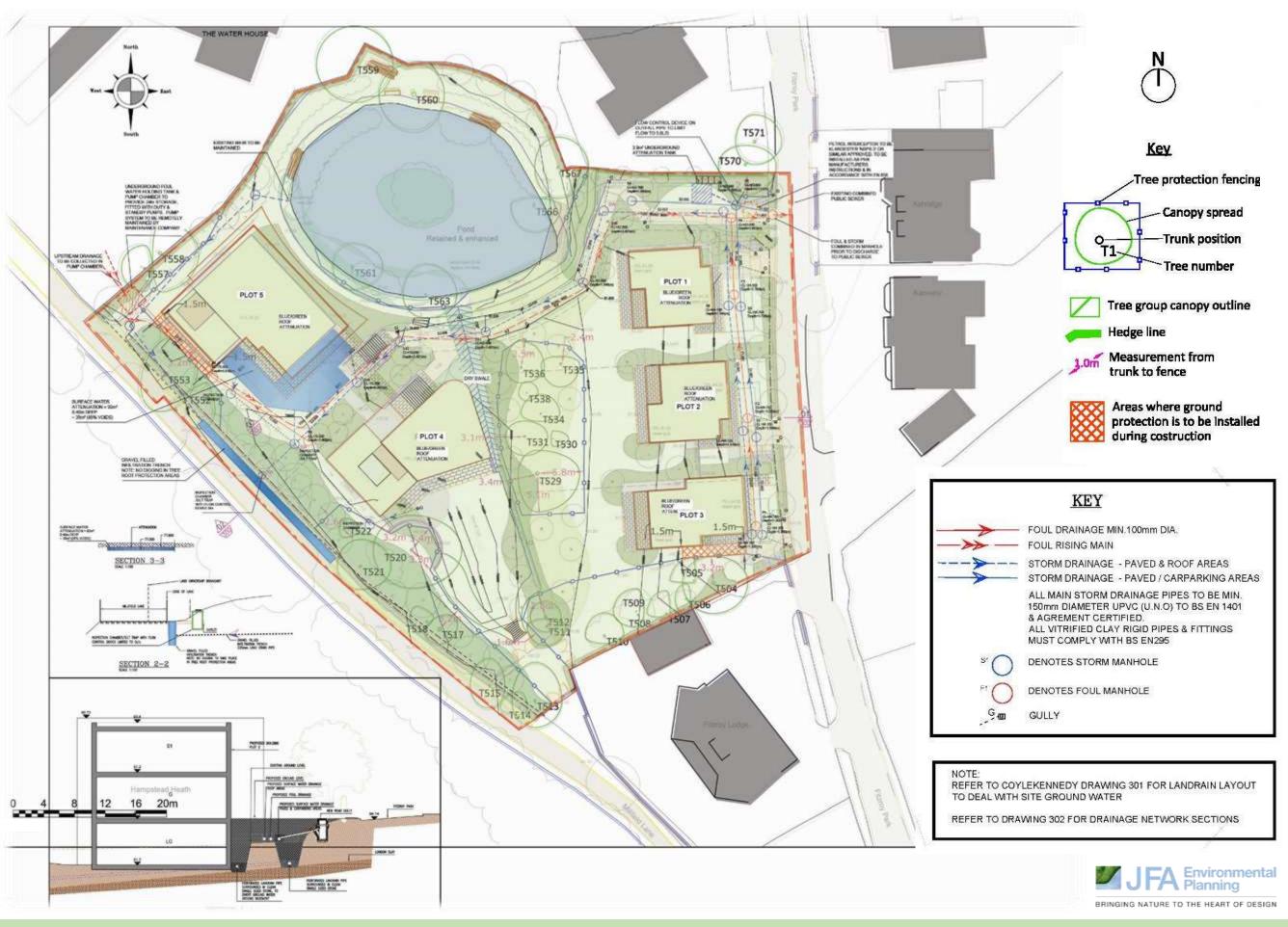
#### Figure 5 - TREE REMOVAL PLAN OVERLAID ONTO DRAINAGE LAYOUT







#### Figure 6 - TREE PROTECTION PLAN OVERLAID ONTO DRAINAGE LAYOUT 5





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Figure 7 - TREE REMOVAL PLAN OVERLAID ONTO PROPOSED LAYOUT



Figure 8 - TREE PROTECTION PLAN OVERLAID ONTO PROPOSED LAYOUT 55, FITZROY PARK, CAMDEN



Figure 9 - DRAINAGE LAYOUT OVERLAID ONTO PROPOSED LAYOUT

#### 55, FITZROY PARK, CAMDEN

FA Environmental Planning

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