

21<sup>st</sup> March 2016

Ref:ha/let1/addendum/stationrd

Your Ref:

Mr C Chapman  
 Clive Chapman Architects  
 4 Eel Pie Island  
 Twickenham  
 Middlesex  
 TW1 3DY

Dear Mr Chapman

**Tree Root Assessment Record at: 49 Station Road, Hampton, TW12 2BU**

Please find below a record of the root investigations and our advice.

The tree and trench numbers are provided on the attached plan.

Table 1

<i>Trench No</i>	<i>Soil Type</i>	<i>Root Depth</i>	<i>Observation*</i>	<i>Comment/Recommendation</i>
1	Sandy gravel and fill	120mm-140mm	1 x 20mmØ 1 x 25mmØ	2 x small, woody to woody roots found just underside concrete
1	As above	120-140	Very fine to small - several	Fibrous rooting within sandy gravel underside of concrete

Note:

\*Table 2

Root Size/Description	Function
1-5mmØ – Very fine	Moisture and element absorption
5-10mm – Small	Moisture and element absorption & some starch storage; conduit and minor anchorage
10-20 – small woody	Starch storage; Conduit and anchorage
20-50 - woody	Starch storage; Conduit and anchorage
>50-100 Large woody	Starch storage; Anchorage, conduit and structural
>100 Structural/buttress	Starch storage; Anchorage, main conduit and structural

Trial trench No 1	Comment
	<p>Roots growing in soil just underside the concrete subbase (Tyres used to support exposed roots; compost bags used to retain moisture)</p>
	<p>2 x 20-25mm diameter roots. Fine roots arrowed.</p>

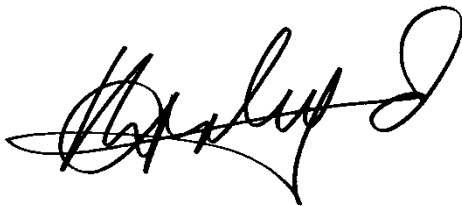
## Conclusions and Recommendations

The above findings demonstrate that root development of the Walnut tree T4 is broadly retained to the tree-side of the boundary. Two roots of 20 and 25mm diameter respectively have grown under the footings of the wall, together with some minor rooting of less than 10mm diameter.

Excavations within soil in which roots have exploited, will need to be carried out under specialist supervision and in conjunction with proper root pruning techniques performed by a professional.

I hope that the above is clear and helpful but if I can be of any further assistance, please do not hesitate to contact me.

Yours sincerely



Hal Appleyard  
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*Arboricultural Association Registered Consultant*

