

Arboricultural Impacts	
Impacts	Nos. of trees
Trees to be relocated	3
Trees to be removed	2
Groups (partial groups) to be removed	1 (1)
Trees with proposed incursions into RPAs	3
Groups with proposed incursions into RPAs	0
Trees that will require pruning	5
Groups that will require pruning	0

Arboricultural Impacts			
No.	Species	Proposed structure	Incursion
3	Common yew	Lower ground floor structure	RPA
6	Common lime	Lower ground floor structure	RPA & crown
7	Common lime	Lower ground floor structure	RPA

Arboricultural Impacts			
No.	Species	RPA	Incursion
3	Common yew	83.4m <sup>2</sup>	6.1m <sup>2</sup> 7.3%
6	Common lime	162.9m <sup>2</sup>	13.0m <sup>2</sup> 8.0%
7	Common lime	162.9m <sup>2</sup>	0.5m <sup>2</sup> 0.3%

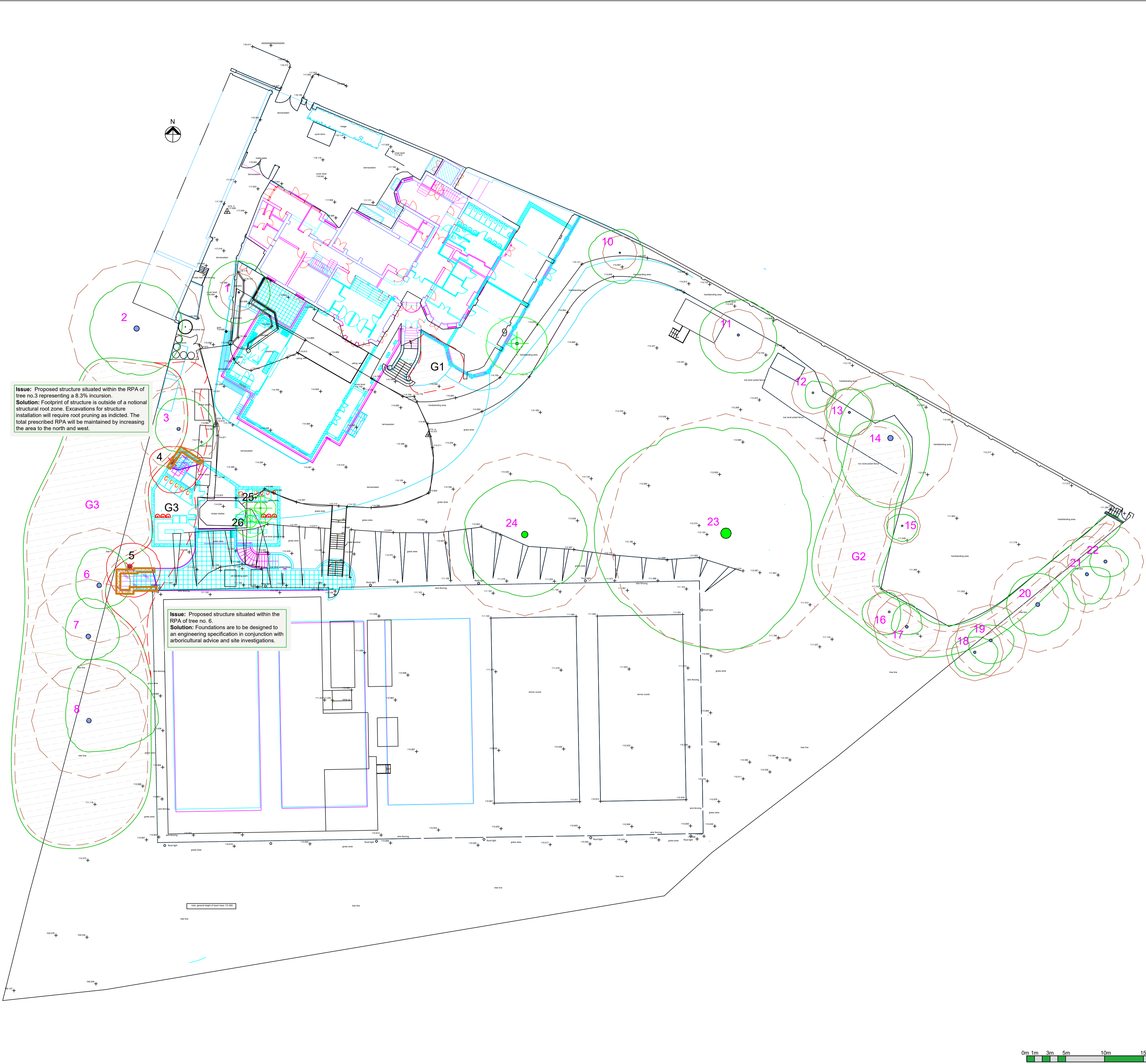
Tree Work Schedule			
No.	Species	Works	Category
G1	Various	Fell trees to ground level, grind out stumps.	C12
G3	Various	Partial removal of group, fell trees to ground level, grind out stumps.	C12
3	Common yew	Root pruning: Roots will be exposed using manual excavation techniques. Prune roots in line with the orange hatch.	B1
4	Common yew	Fell tree to ground level, grind out stump.	B1
5	Common yew	Fell tree to ground level, grind out stump.	B1
6	Common lime	Crown lift to achieve 2m clearance over proposed structure.	B1
9	Norway maple	Relocate tree using tree spade. Initial pruning of roots to be undertaken within the season prior to tree relocation.	B1
10	Common ash	Prune crown lift south side to achieve 4m ground clearance.	B1
11	Common ash	Prune crown lift north & northeast side to achieve 4m ground clearance.	B1
12	Common holly	Prune, reduce all growth on northeast side to a height of 4m to allow for installation of site hoarding.	C1
13	Common holly	Prune, reduce all growth on northeast side to a height of 4m to allow for installation of site hoarding.	B1
25	Mountain ash	Relocate tree using tree spade.	C1
26	Whitebeam	Relocate tree using tree spade.	C1

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.  
 All arising's are to be removed and the site is to be left as found.  
 Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

No. of individual trees to be removed			
U	A	B	C
N/A	0	2	0

No. of groups (partial groups) to be removed			
U	A	B	C
N/A	N/A	N/A	1 (1)

**Arboricultural Method Statement**  
 All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations. Please refer to Arbtch Consulting Ltd. Tree Schedule, Arboricultural Method Statement and Tree Protection Plan, for full details of all surveyed trees and how all aspects of the development may be implemented without detriment to retained trees.



**Issue:** Proposed structure situated within the RPA of tree no.3 representing a 8.3% incursion.  
**Solution:** Footprint of structure is outside of a notional structural root zone. Excavations for structure installation will require root pruning as indicated. The total prescribed RPA will be maintained by increasing the area to the north and west.

**Issue:** Proposed structure situated within the RPA of tree no. 6.  
**Solution:** Foundations are to be designed to an engineering specification in conjunction with arboricultural advice and site investigations.

**Site investigations**

Site investigations are to be undertaken within the RPAs of retained trees to determine the size, depth and location of any roots that may be present for the purpose of informing foundation design.  
 All excavation within the RPAs will be initially undertaken to a minimum depth of 800mm deep for any excavation or to the full depth of the proposed foundations, hard surfacing or underground services. The soil is to be loosened with the use of a fork or pick and then cleared with the aid of an air-spade and air-vac using a specialist arboricultural contractor. If an air-spade is not used and all excavations are to be undertaken using hand tools (forks, shovel, trowel, brush).  
 Soil will be loosened with the aid of a fork or trowel and the spoil removed from with the aid of a shovel. Where an air spade or specialist arboricultural contractor is not employed, all excavations are to be undertaken under direct arboricultural supervision. All roots are to be retained in situ and the project arborist will visit the site to record and photograph the depth, location, and size of any roots present; during this visit the project arborist may be able to cut specific roots with the use of a hand saw or secateurs. The edge of the excavation closest to the retained trees and all uncovered roots will be covered over with a minimum of two layers of damp hessian to prevent drying out, and where necessary be shuttered to prevent soil collapse or contamination. If appropriate soil beneath the depth of 800mm may be sheet piled with any deeper excavations being undertaken by a machine with an appropriate bucket under direct arboricultural supervision. If a decision is made for a machine to be used it must work from outside of the RPA or have appropriate ground protection in place to move and work upon.  
 Upon the completion of the site investigations all trial excavations are to be back filled with the original material or inert fill. It may be suitable to insert a root barrier in locations where the proposed roots are not present or are beginning to enter to prevent root activity within areas deemed to be root free.

**Utility apparatus**

**Underground utility apparatus**  
 Mechanical trenching for the installation of underground apparatus and drainage serves any roots present and can change the local hydrology in a way that adversely affects the health of the tree. For this reason, particular care should be taken in the route and methods of installation of all underground apparatus. Wherever possible, apparatus should be routed outside of RPAs. Where this is not possible, it is preferable to keep apparatus together in common ducts, all inspection chambers should be sited outside of the RPAs.  
 Where underground apparatus is to pass within the RPAs, detailed plans showing the proposed route should be drawn up in conjunction with the project arboriculturalist. In such cases trenchless insertion methods should be used with entry and retrieval pits being located outside of the RPAs. If this option is not feasible and providing roots can be retained, and protected excavations should be undertaken using hand held tools (air-spade, forks, shovels) or a combination of trenchless and manual excavation (broken trench). Any design and installation should be undertaken in accordance with the National Joint Utilities Guidelines (NJUG).  
**Above-ground utility apparatus**  
 Above-ground apparatus (including CCTV cameras and lighting) should be sited to avoid the need for detrimental tree pruning, as such the current and future crown size of the tree should be assessed. Tree branches can be pruned back with care to provide space, though it is not appropriate for repetitive and significant tree work to be an initial design solution unless this is a suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010

Rev.	Date:	Notes:
A	22/01/18	Inclusion of phased site set up plans & temporary construction access from Highgate Hill
B	16/03/18	Amended site set up to retain trees 10, 11, 12 & 13; transplanting of trees 9, 25 & 26.

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**Project:**  
 Channing Junior School,  
 Fairseat,  
 Highgate Hill,  
 N6 5JR

**Client:**  
 Channing School

**Drawing:**  
 Arboricultural Impact Assessment

**Based on:**  
 17-282-003-A; 17282-004B;  
 343.36/PLA07 343.36/PLA08;  
 CA1272/CT005/A

<b>Drawing No:</b> Arbtch AIA 01	<b>Rev:</b> B
<b>Date:</b> MAR 2018	<b>Scale:</b> 1:250 @ A1
<b>Drawn:</b> JCH	

Key:			
Tree Nos.: 2	Tree Canopies:	Trunks:	
RPAs:	Category 'A' trees:	Category 'B' trees:	
Category 'C' trees:	Trees to be removed:	Incursion - Dwelling:	
Topo. survey:	Proposed LGF:	Proposed GF:	
Site invest.:	Trees to be relocated:		

All dimensions should be checked on site. No dimensions are to be scaled from this drawing.  
 Please notify us of any discrepancies found. Arbtch Consulting Ltd. cannot be held responsible for inaccuracies in this drawing in which this plan is based.  
 This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.  
 This drawing is not to be read as a definitive part of the engineering or construction design or method statement, and as such does not constitute an offer of any services, and is not to be used for any other purpose.  
 This drawing was produced in colour - a monochrome copy should not be relied upon.  
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