Arboricultural Survey and Construction Integration Report

at

Swiss Gardens Primary School, Swiss Gardens, Shoreham-by-Sea, West Sussex, BN43 5WH

12th June, 2016



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Appendix A Site Plan

Arboricultural and Woodland Consultants

Quaife Woodlands

2 Squerryes Farm Cottages, Westerham, Kent. TN16 1SL
Telephone: 01959 563878 Facsimile: 01959 564854
E-mail: jq@quaife-woodlands.co.uk

ARBORICULTURAL REPORT

LOCATION	Swiss Gardens Primary School, Swiss Gardens, Shoreham-by-Sea, West Sussex, BN43 5WH	**REF:** **AR/3562/jq**
CLIENT	Pellings LLP, 24 Widmore Road, Bromley, Kent, BR1 1RY	**DATE OF REPORT** 12th June 2016
REPORT PREPARED BY	J. Quaife, AA Registered Consultant Dip.Arb.(RFS), F.Arbor.A, CEnv.	**DATE(S) OF INSPECTION** 18th May 2016
SURVEY INSPECTOR(S)	J. Quaife, AA Registered Consultant Dip.Arb.(RFS), F.Arbor.A, CEnv.	**SHEET No.** 1 of 3

LOCAL AUTHORITY	Adur and Worthing Councils
CONTACT	Arboricultural Officer

Please note that abbreviations introduced in [square brackets] *are used throughout the report.*

INSTRUCTIONS

Issued by – James Freeth of Pellings LLP, 24 Widmore Road, Bromley, Kent, BR1 1RY

TERMS OF REFERENCE – To survey those subject trees likely to be affected by the proposed installation of a modular building with recommendations for such tree removal, tree protection measures and working methods as may be appropriate.

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Summary

The original proposal to install a new modular building for additional classroom space requiring the removal of one of only two trees on the small green space within the school site, has been revised, so that no trees need to be removed and the green space remains intact. The green space within the school site is very limited which makes it extremely valuable, and by utilising a corner site adjacent to the original site, the tree needing to be removed can be retained.
This also relieves any construction pressure upon the trees so that by utilising the existing fencing they will be protected.
The revised proposal is sustainable in arboricultural terms.

Documents Supplied

- Pellings drawing ref: 250/017/003 dated 22/3/16
- Drawing as supplied by the Head Teacher showing the preferred position of the proposed new building

Scope of Survey

1.1 The survey is concerned with the arboricultural aspects of the site only.

1.2 The protection status of the trees on site was investigated and we are informed by the Council by telephone that there are no Tree Preservation Orders or Conservation Areas which apply.

1.3 The survey was undertaken in accordance with British Standard 5837:2012 Trees in relation to design, demolition and construction – Recommendations [BS5837].

1.4 The trees were inspected on the basis of the Visual Tree Assessment method expounded by Mattheck and Breloer (The body language of trees, DoE booklet Research for Amenity Trees No. 4, 1994).

1.5 Pruning works will be required to be in accord with British Standard 3998:2010 Tree work - Recommendations [BS3998].

Survey Method

2.1 The survey was conducted from ground level.

2.2 No tissue samples were taken nor was any internal investigation of the subject trees undertaken.

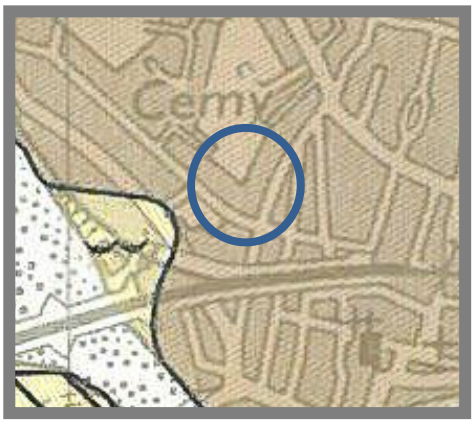
2.3 No soil samples were taken.

2.4 No measurements of subject trees were necessary.

The Site

3.1 The topography of the site is level and the subject zone is on the road frontages of the junction of Swiss Gardens and Victoria Road.

3.2 The site is ringed in blue on this extract reproduced from the Geological Survey Drift Map, Sheet 318/333, Brighton and Worthing (by permission of the British Geological Survey ©NERC. All rights reserved). The indicated soil parent material shown brown is a head deposit of clay.



C08/105-CSL British Geological Survey.
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3.3 The clay soil type is shrinkable, and is susceptible to compaction, which is highly detrimental to tree roots.

Subject Trees

4.1 The positions of the two subject trees are depicted at Appendix A.

4.2 The two subject trees are on the only area of green space within the school site. The proposal as drawn was for a rectangular building parallel with the Swiss Gardens road frontage which would have required the removal of the eastern tree (Photograph 1, Appendix A), a cherry.

Observations

5.1 The proposal is to install a new modular immediately adjacent to the road frontage to Swiss Gardens. This would extend to approximately halfway across the green space and there would be no peripheral path along the rear elevation.

5.2 The preferred proposal is to configure the new building in an 'L' shape and to locate it in the south-eastern corner of the site at the junction of Swiss Gardens and Victoria Road. This will then be on existing hard surfacing and retain the green space with its two trees.

5.3 The compactable soil type is irrelevant in terms of tree protection.

5.3 The access for the installation will use the existing entrance and parking area north of the proposed building location (Photograph 2 at Appendix A).

Recommendations

6.1 On the assumption that the revised layout will be adopted, there will be no effect upon the two subject trees.

6.2 The Root Protection Areas [RPA] of the subject tress do not reach the installation area.

6.3 No pruning is required to either subject tree in relation to the proposal.

6.4 There is space for a peripheral path along the southern and eastern elevations utilising the existing hard surfacing.

6.5 On the same assumption that the revised layout will be adopted, the requirement to fence of the subject trees from construction activities can be achieved with the existing fencing as shown at Appendix. No other tree protection measures are necessary.

6.6 I have not been advised of the underground service routes, but it seems logical to suppose that they can be routed to the north to avoid any compromise to tree roots. Clearly if any underground service routes should need to enter a root system, the provisions of BS5837 and NJUG 4 should be employed and if necessary, further arboricultural advice sought.

6.7 The constructional activities will be confined to the adjacent area of tarmac.

6.8 The sequence of works should be as follows:

i) retention of existing fencing and excluding all construction access west of it.

Swiss Gardens Primary School, Swiss Gardens, Shoreham-by-Sea, BN43 5WH

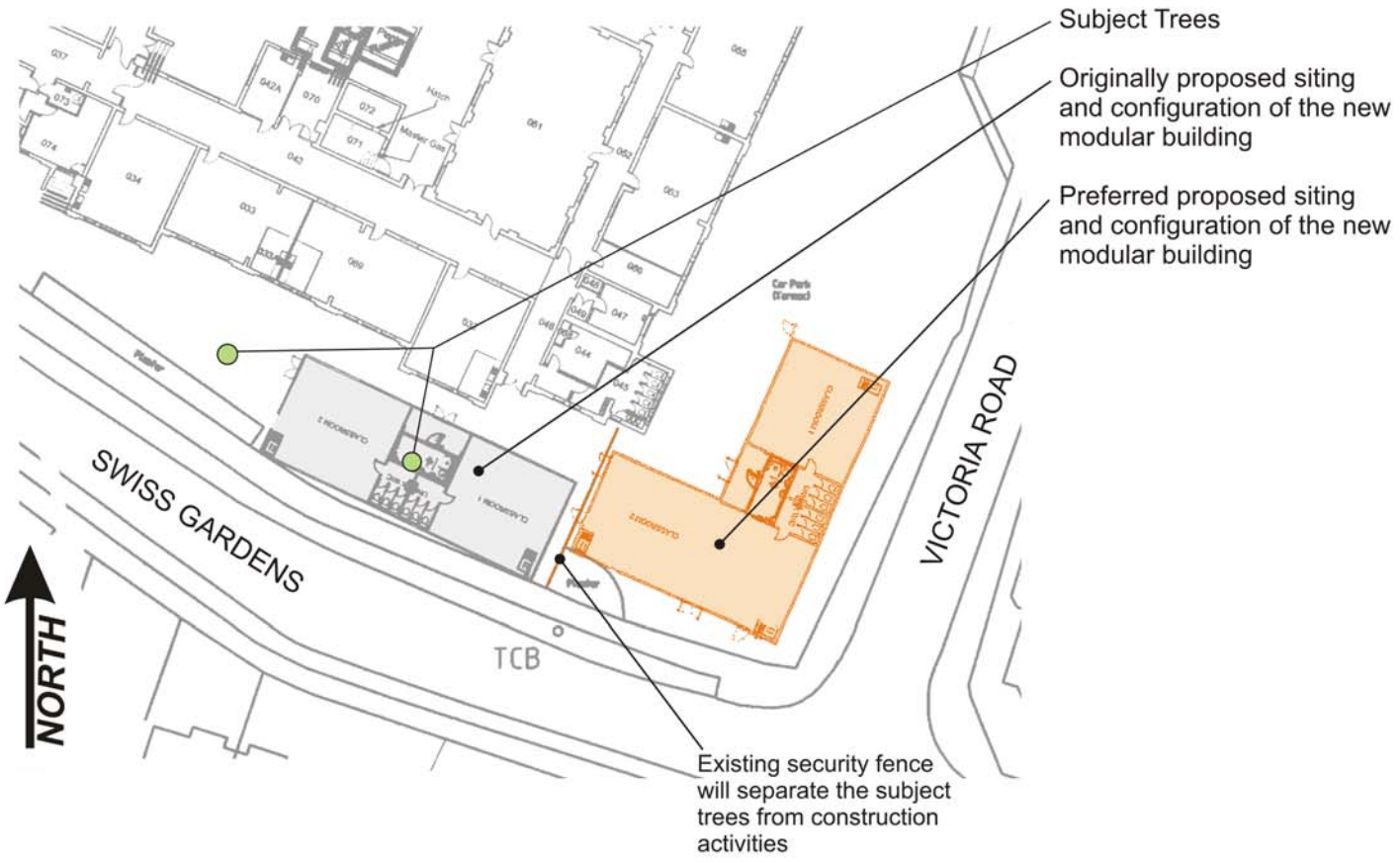
Site Plan - 18th May, 2016

Scale 1:500 approximately

0 10 20 30 40 50 metres

Scaling accuracy is sufficient for planning purposes but this drawing should not be used for construction

This plan is drawn in colour so monochrome reproduction may be unreliable





Photograph 1.
View looking to the south-west showing the two subject trees, the cherry in the foreground would be lost with the original proposal. This is the only green space within the school site.



Photograph 2.
View looking to the south showing the area of existing hard surfacing onto which the new 'L'-shaped building is now proposed to be located.