
ANDREW BURDEN, HNDip.arb

**18A North Street, East Rainton, Houghton-le-Spring, Tyne & Wear, DH5 9QF
Tel: 0191 9030846 Mob: 0771 9734990 email: andrewburden@hotmail.co.uk**

Title: BS:5837 (2012) Tree Survey

Site: 5a Laburnum Grove, Cleadon, SR6

Client: Mr. Andrew Burnham

Surveyor: Mr. Andrew Burden, HNDip.arb

Date: 20 May 2016

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Forestry

Arboriculture

Environmental

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1.0 Introductory Details

- 1.1 The site was visited on Friday 13 May following a verbal request from Mr. Andrew Burnham. The purpose of the visit being to record arboricultural data to provide a tree survey in accordance with the guidelines set out within the document BS:5837 (2012) Trees in relation to design, demolition and construction recommendations (BSI London 2012).
- 1.2 No tree works recommended within this report should be carried out without the formal, written consent from South Tyneside Council.
- 1.3 The surveyor, Mr. Andrew Burden is an arborist with twenty eight years industry experience qualified to HND level in arboriculture & urban woodland management (Houghall Collage Durham 1994 – 96).
- 1.4 All trees were surveyed from ground level only, in good weather conditions with no visibility constraints. No destructive methods of sampling were undertaken. All observations relate to the site as seen on the day of inspection.

2.0 Site Details

- 2.1 Front garden of 5a Laburnum Grove which is a domestic dwelling comprising, concrete driveway, lawn area, unplanted shrub bed and brick built garage.
- 2.2 No soil analysis report was viewed prior to undertaking this report which is based upon arboricultural merit alone.
- 2.3 The proposed development works comprise uplift and resurfacing of the existing concrete driveway, which is within the existing trees root protection area, along with extending the surface area of the proposed driveway.

3.0 Summary

- 3.1 No trees require removal to facilitate the proposed driveway works.
- 3.2 The proposed driveway works are within the Root Protection Area (RPA) of the three existing mature Sycamore trees present on site. An Arboriculture Method Statement (AMS) is required to facilitate these works and is included within this report.
- 3.3 The three existing Sycamore trees on site are of low quality due to the presence of structural defects and have a limited safe useful life expectancy.

4.0 Preliminary Management Recommendations

- 4.1 Tree No: 04 – Reduce 1 No: lowest limb to East back to first secondary branch union. This limb is very out grown with a decay pocket present, works for purpose of safety.

5.0 Arboricultural Impact Assessment (AIA)

- 5.1 No trees are recommended for removal to facilitate the proposed development.
- 5.2 The existing concrete driveway and garage have existed for a number of years within the rooting zone of the three Sycamore trees. The trees are showing no signs of decline that could be attributed to this existing development.
- 5.3 We would anticipate that the uplift, replacement and extension of the driveway will have no adverse impact upon the sites existing tree stock if the details provided within the arboricultural method statement regarding materials and construction are followed.

6.0 Protection of Trees Being Retained

- 6.1 Although the proposed development works are within the root protection area of the three Sycamores being retained, erection of temporary protective fencing will still be required throughout the period of proposed development. Specifications for the type of protective fencing required are given in section 11.0 of this report.
- 6.2 The protective fencing should be positioned along the Western edge of the existing concrete driveway, extending approximately 10 metres South towards the driveway entrance from Laburnum Grove.
- 6.3 Once the uplift of the existing concrete driveway and resurfacing of this area has been carried out, the protective fencing can be removed to allow works using hand tools only to extend the surfacing to the West towards the boundary wall.
- 6.4 We would advise surfacing no closer than 2 metres (as a radius) to tree No: 04, this radius should be left as open soil. This area will require fencing throughout the entire period of proposed development.
- 6.5 Whilst the temporary protective fencing is in situ, this area is a construction operative no go area. No storage of tools, materials or machinery is allowed within the fenced area at any time throughout the period of proposed development. Entry within the tree root protection area is only allowed under arboricultural supervision.

7.0 Arboricultural Method Statement (AMS)

- 7.1 Erect temporary weld mesh panel fencing along Western edge of existing concrete driveway. Panel also to be placed East to West along Southern end of root protection area to prevent access.

- 7.2 Uplift of the existing concrete driveway can be carried out mechanically via the use of a small excavator under the following guidelines;
- a. Machine to work in reverse from North to South, machine to be positioned on the existing concrete pad at all times. Once the concrete has been lifted no machine access allowed, lifting small sections at a time and lightly grading the existing sub base whilst working South is advised.
 - b. No further excavation to be carried out once existing concrete has been lifted.
 - c. Any final grading of levels to be carried out using hand tools only.
- 7.3 Install cellular confinement system (Cell Web or similar product)
- 7.4 Lay sub base of inert material (non lime based stone chippings or washed gravel) as per confinement systems manufacturer's instructions. Add sharp sand layer, lay block paving.
- 7.5 Once this area is complete, reposition weld mesh panel fencing to protect the 2 metre radius around tree No: 04.
- 7.6 Grade to level area of former tree root protection area using hand tools only to tie into levels required. No further digging / excavation of this area should be undertaken.
- 7.7 Install cellular confinement system and repeat sub base and block laying as per section 7.3 – 7.4
- 7.8 Only when works are entirely completed, remove temporary weld mesh panel fencing. Mulch 2 metre soil area around Tree No: 04

8.0 Ecological Observations

- 8.1 It is an offence under the Wildlife & Countryside Act (1981 & amendments) and also under the EU Habitats Directive, to disturb the roosts of Bats, the nests of all breeding birds, as well as other protected species. On the time and day of inspection no visual evidence of any European protected species was observed.
- 8.2 There is an active Carrion Crow (*Corvus corone corone*) nest present within Tree No: 03, no works are recommended to this tree.

9.0 Tree Survey Data Sheets attached

9.1 Glossary of Survey Terms

Tree No:	Relates to attached plans & TPO Ref:
Species:	Common & botanical name of tree.
Category:	BS:5837 criteria for tree quality assessment.
Age class:	Current life cycle stage of tree.
Height:	Current height of tree in metres.
Spread:	Crown spread measured at cardinal points in metres.
Crown clearance:	Height to canopy of tree in metres.
DBH:	Stem diameter in millimetres.
Condition:	Current physiological and structural condition, along with estimated remaining safe contribution.

10.0 Tree Constraints Plans 1: 1000 @ A4

- 10.1 Position & BS:5837 Colour Code of Trees Surveyed.
- 10.2 Crown Spread of Trees Surveyed.
- 10.3 Root Protection Area (RPA) of Trees Surveyed.

