

LIZARD

Landscape Design and Ecology

LANDSPEED HOMES LIMITED

FORMER CHANDLERS BMW WATER LANE, ANGMERING

LLD1606-ARB-REP-001

Arboricultural Impact Assessment and Method Statement

Planning Issue

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1.0 INTRODUCTION

- 1.1 Lizard Landscape Design and Ecology has been commissioned to undertake a dendrological survey and produce arboricultural documentation for the proposed development at Former Chandlers BMW, Water Lane, Angmering.
- 1.2 The Arboricultural Impact Assessment and Method Statement report provides assessment of the direct and indirect effects of the proposed design and where necessary recommends mitigation.
- 1.3 The Arboricultural Impact Assessment and Method Statement report for the development at Former Chandlers BMW has been prepared by Joshua Harwood; Assistant Ecologist at Lizard Landscape Design and Ecology, Worthing.
- 1.4 This written Arboricultural Impact Assessment and Method Statement should be read in conjunction with the associated tree survey documentation, including LLD1606-ARB-DWG-001 – Tree Constraints Plan, LLD1606-ARB-SCH-001 – Existing Tree Schedule and LLD1606-ARB-DWG-002.

2.0 EXISTING SITE INFORMATION

The Site

- 2.1 The site is located within the center of Angmering village within Arun district, West Sussex. The site is approximately 0.44ha in size and is immediately surrounded by housing and walls, with Water Lane to the north. To a broader aspect of the site there is a rural feel with areas of Arable Land, Woodland and Grassland to the east and west.

Existing Site Vegetation

- 2.2 The site is formed predominantly of Hard / Bare Ground with five trees in the southern aspect and one large tree group to the south eastern aspect. There are two single species Hedgerows on Site, one to the north and one to the south, there are no areas of shrubbery located on Site. For more information see *LLD1606-ECO-REP-001-Preliminary Ecological Appraisal*.

3.0 DEVELOPMENT PROPOSAL

It is understood that the development proposals include the construction of 22 new dwellings, with supplementary access roads, parking and associated soft and hard landscape schemes.

4.0 ARBORICULTURAL IMPACT ASSESSMENT

4.1 The development proposals would involve the following site operations that could impact upon the existing trees:

- Contractor movements; site access and operations; storage and compound;
- Removal of Existing Vegetation not for Retention;
- Installation of Construction elements;
- Ground Work
- General Site Operations;
- Removal of protective measures;
- Storage of materials.
- Demolition of existing structures
- Construction of structures and access routes

Impacts of Development Proposals on Existing Vegetation

4.2 **T02** will be subject to minor encroachment to the western aspect of its RPA and canopy due to the proposed pathway. The canopy will need to be lifted to at least 2.0m combined with Tree Protective Barrier and 'No Dig' Construction to allow erection of the protective barrier and the construction of the footpath. See *LLD1606-ARB-DWG-002 – Tree Retention and Protection Plan*. Trees **T01**, **T05 (i)** and **T05 (ii)** will have their RPA's encroached significantly (>20%).

The above impacts will be considered *Negligible* due to conditions of the development and conditions of the trees. **T05 (i)** and **(ii)**, have been recommended for removal due to their un-retainable quality (Category U). Whilst **T01** is a poor quality tree (Category C) and is recommended for removal to allow development proposals. The proposed developments for the site lie within the existing Hard / Bare Ground habitat parcel and is not considered to damage any existing vegetation.

Tree Retention, Protection and Removal

- 4.3 Trees proposed for removal include **T01**, **T05 (i)** and **T05 (ii)**. Both **T05** trees are *category U* trees and are not viable for retention due to location of trees being in collision with development proposals. **T01** (Category C) has been proposed for removal, additionally the tree's RPA is encroached by the proposed development buildings and the access pathways to the building.

Impact of Loss of Existing Trees

- 4.4 The loss of the vegetation proposed is considered to be *negligible*. The Trees and shrubs proposed to be removed are of low quality and limited species composition (see *LLD1606-ECO-REP-001 – PEA*). The loss of these vegetation will be replaced by additional vegetation of trees and shrubs as proposed, additionally the species proposed for use in the Preliminary Ecological Appraisal are all native species with ecological function for native fauna. The habitat connectivity will not be improved on the site by the introduced vegetation, this however is due to the location of the site opposed to the loss of vegetation and habitats.

Tree Loss Mitigation Measures

- 4.5 Only trees of low value (Category U and C) are proposed for removal. The tree protection measures would mitigate the impact upon trees, roots and rooting. New tree planting proposed is considered to compensate for the loss of existing vegetation.

5.0 ARBORICULTURAL METHOD STATEMENT

Protection and Retention of Existing Habitats – Scattered Trees / Hedgerows

- 5.1 The Contractor shall exercise extreme care when performing operations beneath the canopy of existing mature trees and vegetation designated for protection and avoid at all times damage to the roots, trunk and branches. The Contractor shall train all members of the construction workforce operating within the proximity of valued habitats and make such persons aware that there shall not be, without having sought prior notification, the following operations undertaken within the Protected areas:
- ***Dumping of spoil or rubbish, excavation or disturbance of topsoil, parking of vehicles or plant, storing of materials or placing of temporary accommodation within an area which is the larger of the branch spread of the tree or an area with a radius***

of half the tree's height, measured from the trunk, and within the specified Root Protection Areas;

- ***Roots exceeding 25 mm in diameter must not be severed. If unintentionally severed; notice shall be given and specialist arboricultural advice sought;***
- ***Changes to the level of the ground within the specified Root Protection Areas;***
- ***Vegetation clearance to site boundaries should take place outside the bird nesting season (nesting season: March-September inclusive) or alternatively under a watching brief from a suitability qualified ecologist.***

Contractor Movements. Site access and operations. Storage and Compound Areas

- 5.2 The Contractor site Compound shall be located outside of any prescribed tree Root Protection Area and shall be permitted for the storage and securement of materials only within a temporary compound. The compound shall be fenced (2.0m minimum height Heras Weld Mesh Fencing) and shall allow designated contractor access without obstruction for construction vehicles entering the site.
- 5.3 The compound area shall be located so as to not incur damage or injury to the root systems or canopy of any existing trees or vegetation within or adjacent to the site, in accordance with *BS 5837:2012 – 'Trees in Relation to Design, Demolition and Construction – Recommendations'*. All site operations associated with the useage of the compound area shall be undertaken with due care and attention so as to negate damage of the surrounding environment.
- 5.4 All site operations and construction procedures for the duration of the construction period shall seek to protect the existing site vegetation and root protection areas in accordance with *BS 5837:2012*.

Removal of Existing Vegetation

- 5.5 All existing trees to be designated for removal are to be removed in accordance with the *LLD1606-ARB-DWG-002 – Tree Retention and Protection Plan*. All tree work and removal shall be carried out in accordance with *BS 5837:2012*. Trees designated for removal and felling shall be clearly marked on site with white paint. Prior to the removal and felling of trees, the required work and tree positions shall be agreed on site with the Landscape Architect / Arboricultural Consultant. Trees shall be felled prior to the erection of the Tree Protective Fencing. Care should be taken during the tree removal process to avoid any damage to any trees which are designated to be retained.

- 5.6 Stumps shall be removed and cut away so that the top of the stump shall be at least 450 mm below the final topsoil level in order that the site can be reinstated in accordance with the existing site levels. Stumps are to be treated with an approved herbicide to be agreed with the Landscape Architect. Where the depth is greater than 450 mm the areas shall be backfilled with topsoil to the required level.
- 5.7 The removal of shrub or scrub material within the Root Protection Area of any tree to be retained shall employ a Manual Removal method; the use of hand tools shall be used in order to maintain the ground surface of the Root Protection Area and reduce any damage to existing tree roots within the protected root zone. Adjacent trees shall not be utilised as anchors or levers to facilitate the removal of adjacent vegetation.
- 5.8 Vegetation clearance to site boundaries should take place outside the bird nesting season (*nesting season: March-September inclusive*) or alternatively under a watching brief from a suitability qualified ecologist.

Tree Surgery

- 5.9 Any significant defects found in the trees during the course of the scheduled work shall be reported to the Landscape Architect / Arboricultural Consultant. All scheduled and arising tree work shall be undertaken by an approved and qualified tree surgeon in accordance with *BS 3998: 2010 'Tree Work: Recommendations'*. Care should be taken to avoid damage to neighbouring trees to be retained. Branches in confined spaces shall be removed and taken down in sections. All arisings shall be transported and disposed of away from site to the Contractor's tip

Tree and vegetation Management

- 5.10 For Tree and Vegetation Retention and Removal Proposals refer to the accompanying Existing Tree Schedule *LLD1606-ARB-SCH-001-ETS*.

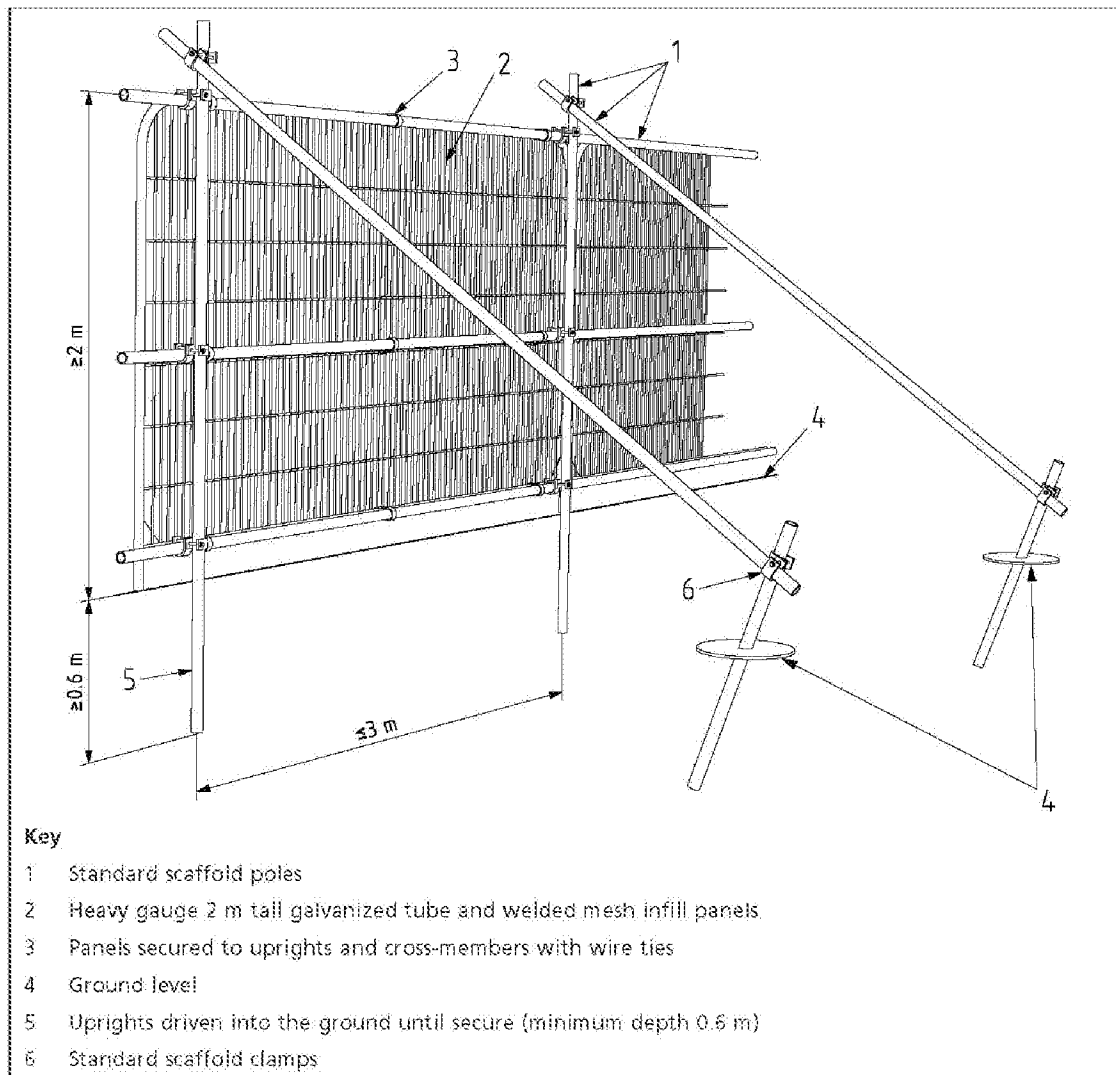
Protection and Retention of Existing Vegetation

- 5.11 The Contractor shall exercise extreme care when performing operations beneath the canopy of existing mature trees and vegetation and within the specified Root Protection Areas designated for protection and avoid at all times damage to the roots, trunk and branches of existing trees proposed to be retained.

- 5.12 All excavations, cultivation and grading beneath the canopy of existing mature trees and within the specified Root Protection Areas of the existing trees and vegetation shall be carried out using hand tools, taking care not to damage or disturb any existing tree roots.
- 5.13 All trees to be retained on site shall be protected with fencing erected around the area of mature vegetation in accordance with BS 5837; 2012; 'Trees in Relation to Design, Demolition and Construction - Recommendations'. The fencing shall be installed, protected and maintained during the main works by the Contractor who shall be responsible for protecting any area beneath the canopy of the existing trees and within the specified Root Protection Areas. The Landscape Architect / Arboricultural Consultant should be contacted regarding any query's in relation to retained tree protection.
- 5.14 The installed protective fencing shall be 2.0 metres minimum height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned to the outside edge of the existing Tree Root Protection Area. Where existing ground conditions do not allow for the above method, the Welded Wire Mesh Fencing Panels may be mounted on concrete or rubber feet, supported on the inner side with stabilizer struts fixed on a block tray or secured with ground pins; and positioned as specified. The fencing should be strained, and fixed to fences, walls, knee rails where possible to provide a complete protected area (*refer to Figure 2 and Figure 3 below; © British Standards Institute 2012*). All tree protection to be in accordance with BS 5837; 2012; 'Trees in Relation to Design, Demolition and Construction - Recommendations' set out as specified within drawings LLD875/04 – *Tree Retention and Protection Plan (Sheet 1 of 2)* and LLD875/05 – *Tree Retention and Protection Plan (Sheet 2 of 2)*. Landscape Architect / Arboricultural Consultant

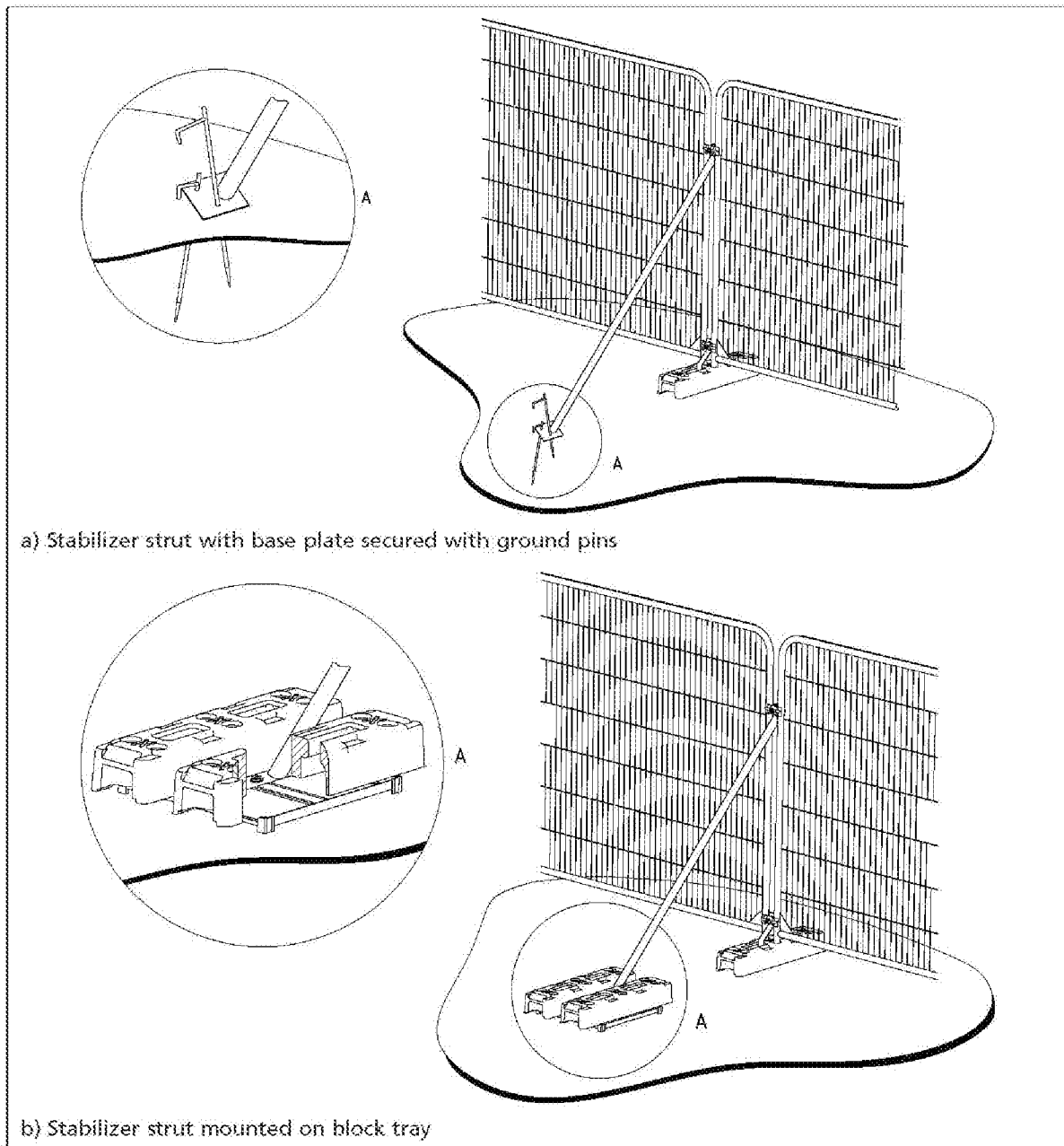
5.15

Figure 2 Default specification for protective barrier



© The British Standards Institution 2012

Figure 3 Examples of above-ground stabilizing systems





- 5.16 Day-glo ribbons shall be maintained during the main works by the Main Contractor attached to the top of the fencing to ensure that the fencing is clearly visible during the works. The tree protection fencing shall display all-weather notices starting '*Construction Exclusion Zone – NO ACCESS*'.
- 5.17 All such fencing shall be maintained for the full contract period. All necessary excavations, earthworks and cultivation beneath the canopy spread of any existing tree; shrub or hedge shall be undertaken by hand. *No commencement of construction operations should occur prior to the inspection of the installed tree and ground protection by the Landscape Architect / Arboricultural Consultant.* Repositioning of the protective fencing during the course of the contract as the contract works progress shall need prior agreement with the Landscape Architect / Arboricultural Consultant.
- 5.18 Within the protected areas the following activities must not take place;
- ***No vehicles are to be used in the fenced off areas;***
 - ***No vehicles are to be used in the fenced off areas;***
 - ***No materials are to be stockpiled or stored;***
 - ***No chemicals are to be stored;***
 - ***No excavation or increase in the soil level shall occur;***
 - ***No fires shall be lit on site.***





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