ADUR & WORTHING
WDM/0540/13
VALID - 1 MAY 2013

Protection and Retention of Existing Vegetation
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.

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.

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 installed protective fencing shall be 2.0 metres minimum height 'Heras' Welded Wire Mesh Fencing positioned to the outside edge of the existing tree Root Protection Areas specified. All tree protection to be in accordance with *BS 5837; 2012; 'Trees in Relation to Design, Demolition and Construction - Recommendations'*.
The fencing should be strained, and fixed to fences, walls, knee rails where possible to provide a *complete protected area.*

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. Fencing shall be used to enclose the full canopy spread of any tree in accordance with the specified Root Protection Areas and generally with 1.5m on either side of any hedge.

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. Repositioning of the protective fencing during the course of the contract as the contract works progress shall need to be agreed with the Landscape Architect.

At the end of the contract period the Contractor shall remove protective fencing from the site. All retained vegetation shall be healthy and thriving at the handover date.

Within the protected area the following activities must not take place:
– 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.

Removal of Existing Vegetation
All existing trees to be designated for removal are to be removed in accordance with the Tree Protection and Retention Drawing. All tree work and removal shall be carried out in accordance with *BS 5837; 2012; 'Trees in Relation to Design, Demolition and Construction - Recommendations'* . Trees designated for removal and felling shall be 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. Trees shall be felled prior to the erection of the tree protective fencing. Care should be taken to avoid damage to trees, which are designated to be retained.

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 levelled and grassed over. 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.

Tree Surgery
Any significant defects found in the trees during the course of the scheduled work shall be reported to the Landscape Architect. All 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
For Tree and Vegetation Retention and Removal Proposals refer to the accompanying *LLD532 Existing Tree Schedule.*

Method Statements
Refer to *LLD532 Arboricultural Assessment and Method Statement* for Construction / Tree Protection details.

Temporary Construction / Contractor Access

Tree Protection Zone - Ground Protection Zone
A temporary *'Ground Protection Zone'* shall allow for the passage of construction vehicles to the site and shall be implemented without intrusion or change of existing ground levels within the Root Protection Areas of existing trees. The Ground Protection measures shall be implemented prior to the main construction works.

The existing ground within the Root Protection areas of existing trees is to be overlain with a Heavy Duty Geotextile Membrane and overlain with granular fill of a No Fines - Open Graded Aggregate Type **3.** The granular fill shall ensure a minimum supportive depth of 200mm.

All temporary retaining kerb restraints / edge supports are to be secured above ground and no general excavation within existing RPAs shall be permitted.

Tree Protective Fencing
All Tree Protection and Tree Protective Fencing to be in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'* Tree Protective Fencing - to be 2.0 metres minimum height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned as specified. No Construction Access shall be permitted within the RPA of existing trees.

Tree to be Removed (TG 06 / 4)
Tree Group tree (4) to be removed to allow construction access.

Temporary Construction / Contractor's Compound
The temporary contractor's compound area shall not impinge on any specified Root Protection Area of existing trees to be retained. All Tree Protection Fencing shall ensure the enclosure of the RPA or Existing Tree Canopy, whichever is the greater. No access shall be permitted within the tree protection areas.

Area extent to be defined / agreed.

Tree Protective Fencing
All Tree Protection and Tree Protective Fencing to be in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'* . Tree Protective Fencing - to be 2.0 metres minimum height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned as specified. No Construction Access shall be permitted within the RPA of existing trees.

0 5 10 25 50
Metres

Tree Retention and Protection Plan
St. Nicolas and St. Mary CE Primary School

Legend

- **Existing Trees to be Retained and Protected on Site.**
- **Existing Trees to be Removed from Site Prior to Protection.** Proposed 2:1 replacement native tree planting in mitigation for trees removed.
- **Existing Shrub Planting Areas to be Retained and Protected on Site.**
- **Existing Hedgeline to be Retained and Protected on Site.**
- **Tree Root Protection Areas** Tree Root Protection Areas calculated and specified in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.*
- **Category U Trees; Trees Unviable for Retention**
- **Category A Trees; Trees of High Quality and Value.**
- **Category B Trees Trees of Moderate Quality and Value.**
- **Category C Trees Trees of Low Quality and Value.**
- **Tree Protection Zone - Ground Protection Zone** A temporary *'Ground Protection Zone'* shall allow for the passage of construction vehicles to the site and shall be implemented without intrusion or change of existing ground levels within the Root Protection Areas of existing trees. The Ground Protection measures shall be implemented prior to the main construction works.
  - The existing ground within the Root Protection areas of existing trees is to be overlain with a Heavy Duty Geotextile Membrane and overlain with granular fill of a No Fines - Open Graded Aggregate Type 3. The granular fill shall ensure a minimum supportive depth of 200mm.
  - All temporary retaining kerb restraints / edge supports are to be secured above ground and no general excavation within existing RPAs shall be permitted.
- **Tree Protective Fencing** All Tree Protection and Tree Protective Fencing to be in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'* . Tree Protective Fencing - to be 2.0 metres minimum height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned as specified. No Construction Access shall be permitted within the RPA of existing trees.
- **Proposed Building Development** Footprint of proposed school extensions / building footprint.
- **Existing Building Footprint**
- **Proposed Contractor / Construction Access** Proposed access for contractor / construction traffic.
  - temporary access to be formed at Buckingham Close break-through;
  - existing Eastern Ave. school access to be utilised

Tree and Vegetation Management
For Tree and Vegetation Retention and Removal Proposals refer to the accompanying *LLD532 Existing Tree Schedule.*
Method Statements
Refer to *LLD532 Arboricultural Assessment and Method Statement* for Construction / Tree Protection details.

(Refer to Shaw Colgate Land and Building Surveyors drawing 03213 for Topographical Survey.)

Rev	Description	Date	Initials
01	Planning Issue	03.04.13	KM
00	Draft Planning Issue	26.03.13	KM
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Lizard Landscape Design
Lizard Landscape Design
19 Broadwater Street East
Worthing
West Sussex
BN14 9AA
Tel. 01903 216033
Fax. 01903 214777
Email. lizard.landscape@btconnect.com

Project title
St. Nicolas and St. Mary
CE Primary School

Drawing title
Tree Retention and Protection
West Sussex County Council

Scale	Drawn	Date
1:250@A1	KM	25.03.13
	Approved	

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CAD Filename LLD532/CADDrawings
Revision 01