Tree Protective Measures - No-Dig Construction

A 'no-dig' Construction method shall be employed during the construction in order to avoid damage to existing tree roots and localised compaction of subsoil within the tree root protection areas of trees proposed for retention.
Existing surfacing materials shall be left undisturbed and retained during the construction period for as long as possible in order to protect the tree root protection area of the existing trees to be retained; existing soft ground layers shall be removed carefully by hand within the existing tree root protection areas. A ground stabilising geo-mesh ('TDP SN20 GeoGrid' or equal and approved), shall be rolled out over the existing ground level and evenly covered with a No Fines - Open Graded Aggregate (in accordance with Highways Agency Specification; Clause 805 (Type 3) or equal and approved.)
The granular fill shall be incorporated within a 3 dimensional GeoCell (Terram Geocell 22/20 or equal and approved) and shall ensure a minimum supportive construction depth of 200 mm. A geo-textile filter membrane is to be laid over the granular fill construction (Geotextile filter membrane to be TDP 115 Non-woven Geotextile Fabric or equal and approved.)
A permeable system and construction method shall be installed over the prepared sub-base layers. A bedding layer of crushed aggregate (to BS EN13242; range size; 4 - 14 mm) is to be laid level and compacted above the Geotextile filter membrane to a depth of 25 mm. A permeable top layer, which could consist of (for example) resin-bound gravel, permeable tarmac or permeable block-paving shall then be installed above the bedding layer to create the terrace areas.

Ground Protection Zone - Manual Excavation/ Demolition and Minimal-Dig Construction Zone

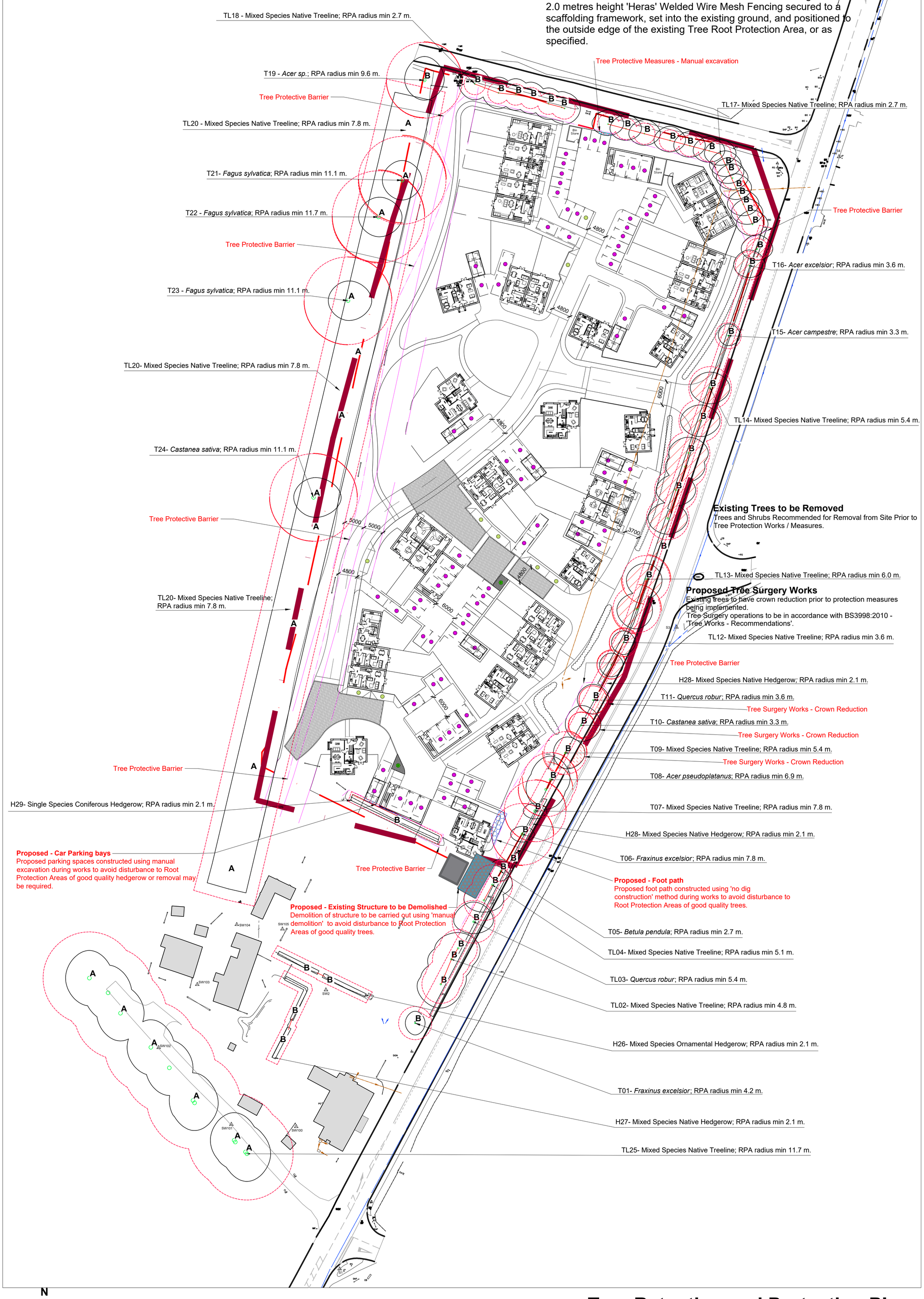
Where the proposed dwelling foundations increases the depth of construction within the tree RPA, a manual excavation and 'minimal-dig' construction method shall be employed in order to avoid damage to existing tree roots and localised compaction of subsoil within the tree root protection areas of existing trees.

Tree Protection Zone - Demolition Zones

Demolition Zone shall be implemented, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction'. Any demolition of existing structures within the tree RPA shall be undertaken with due care with hand held tools, inwards within the footprint, 'top down, pull back' demolition method.

Tree Protective Barrier

All Tree Protection and Tree Protective Barrier 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 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, or as specified.



Legend

- **Site Survey Area.**
- **Tree/Tree Group/ Tree Line/Shrub** Identification Label. (T/ TG/ TL/ SH)
- **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.
- **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.
- **Existing Hedgerow** Vegetation of High Quality and Value.
- **Existing Hedgerow** Vegetation of Moderate Quality and Value.
- **Existing Trees to be removed.** Tree Surgery operations to be in accordance with *BS3998:2010 - 'Tree Works -Recommendations'*.
- **Tree Protection Barrier** All Tree Protection and Tree Protection Barriers to be in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'*. Tree Protective Barrier to be 2.0 metres 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, or as specified.
- **Existing Hedgerow to be removed.**
- **Tree Protection Zone - 'No Dig' Construction** A 'No Dig' Construction shall allow for construction to be implemented without intrusion or change of existing ground levels, in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction'*.
- **Tree Protection Zone - Manual Excavation / Demolition** *Limited Manual Excavation / Demolition Zone* shall be implemented, in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction'*. The excavation of bank to widen the vehicular access to demolition site shall be undertaken with due care with hand held tools under *Arboricultural Supervision* only.
- **Proposed Tree Surgery Works** Existing trees to have crown reduced prior to protection measures being implemented. Tree Surgery operations to be in accordance with *BS 3998:2010 - 'Tree Works - Recommendations'*.

Notes:
1. Drawing to be read in colour.
2. For details of existing trees and vegetation refer to: *LLD1544-ARB-SCH-001 - Existing Tree Schedule;*
3. *For assessment of effects of the proposed development on existing trees refer to LLD1544-ARB-REP-001- Arboricultural Impact Assessment and Method Statement;*

PLANNING ISSUE

Rev	Description	Date	Initials
03	Planning Issue	30.03.20	LB
02	Planning Issue	18.02.20	LB

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Project Title and Location
Land West of Fontwell Ave
Client
Reside Developments Limited
Drawing Title
Tree Retention Protection Plan

Scale 1:500@A1 | *Drawn* LB | *Approved* GS | *Date* 18.02.2020

Drawing No LLD1544-ARB-DWG-002 | *Revision* 03
CAD Filename LLD1544-ARB-DWG-002

N
0 1 2.5 5 10 m
Scale 1:500

Tree Retention and Protection Plan
Land West of Fontwell Ave, Eastergate, West Sussex