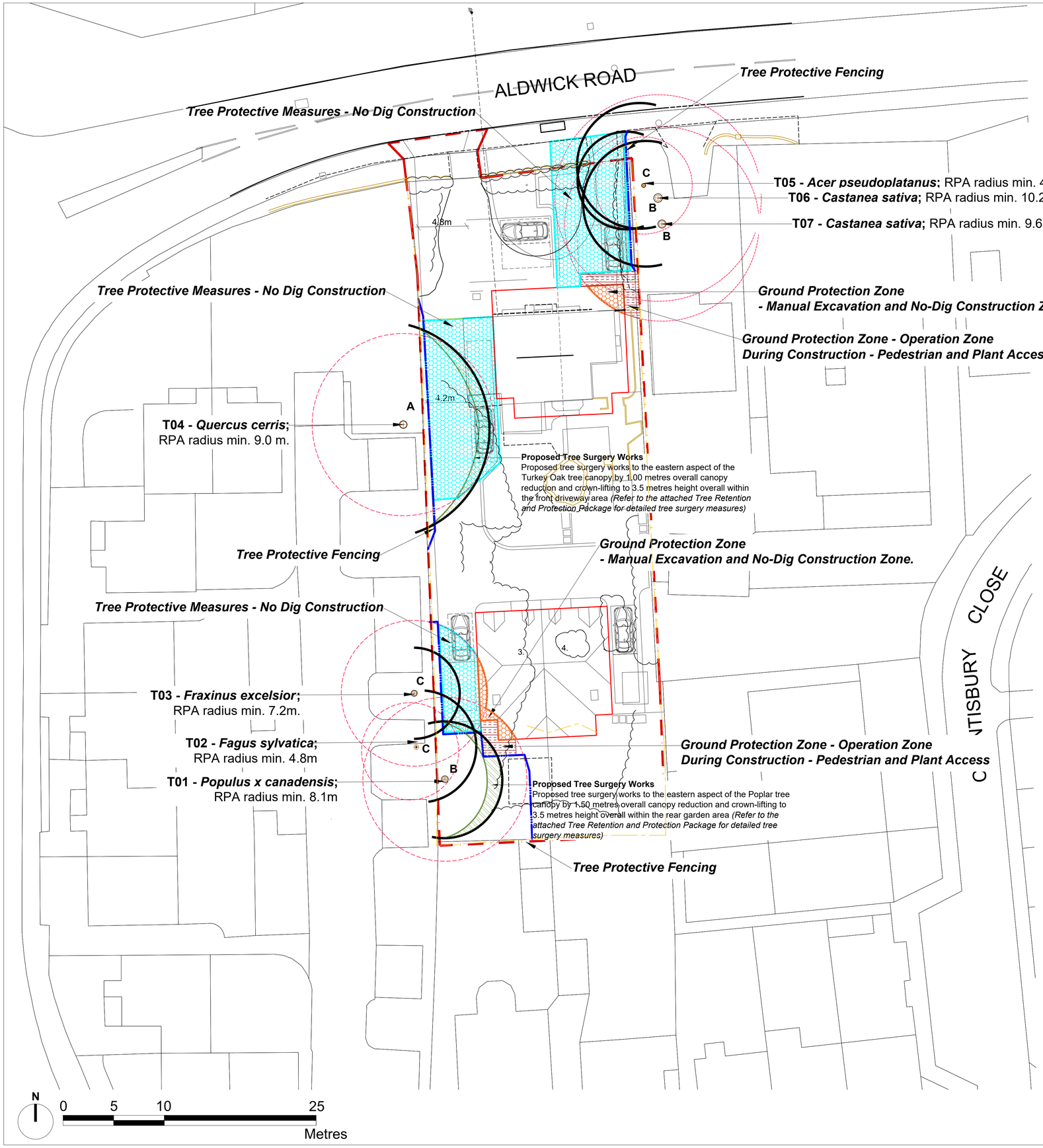

Ground Protection Zone - Manual Excavation

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

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 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.

Tree Protective Measures - No-Dig Construction

A 'no-dig' Construction method shall be employed during the construction of driveway access areas 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; grass sward and topsoil layer 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 25/10 or equal and approved)* and shall ensure a minimum supportive construction depth of 150 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, tarmac or permeable block-paving shall then be installed above the bedding layer to create the access driveways.

Ground Protection Zone - Operation Zone During Construction

While construction work is commencing on the proposed dwellings; parking areas; and access driveways; the existing ground levels within the RPAs of existing trees proposed to be retained shall be protected with ground protection measures. For pedestrian construction access only, protection should consist of a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer *(such as 100 mm depth of woodchip),* laid onto a geotextile membrane; for pedestrian-operated plant up to a gross weight of 2 tonnes, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (*such as 150 mm depth of woodchip*), laid onto a geotextile membrane should be used. The ground protection should be in place for the duration of the construction period in accordance with *BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'*. When construction work is completed the ground protection can be removed and no-dig construction hard landscape materials can be implemented above existing ground levels.

Tree Retention and Protection Plan
261 Aldwick Road, Bognor Regis

Legend

Site Survey Boundary.

Proposed Dwellings.

Tree Root Protection Areas
Tree root protection areas calculated in accordance with *BS5837; 2012 - 'Trees in Relation to Design, Demolition and Construction Recommendations'*.

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 Protective Fencing

Tree Protective Measures - 'No-Dig' Construction.

Ground Protection Zone - Operation Zone During Construction.

Ground Protection Zone - Manual Excavation Construction Zone.

Proposed Tree Surgery Works
Proposed tree surgery works to the eastern aspect of the Turkey Oak and Poplar tree canopy overall within the scheme proposals *(Refer to the attached Arboricultural Impact Assessment for detailed tree surgery measures).*

Notes:
The original of this drawing was produced in colour - a monochrome copy should not be relied upon.
Drawing to be viewed in conjunction with:
LLD1425-ARB-DWG-01-TCP - Tree Constraints Plan;
LLD1425-ARB-DWG-02-TRPP - Tree Retention and Protection Plan;
LLD1425-ARB-DWG-03-TOPO - Section Lines and Levels;
LLD1425-ARB-DWG-04-SECT - Sections Through No-Dig Construction;
LLD1425-ARB-DWG-05-DET - No-Dig Construction Indicative Detail;
LLD1425-ARB-ETS - Existing Tree Schedule and Schedule of Tree Works;
LLD1425-ARB-AIA - Arboricultural Impact Assessment and Method Statement.

Drawings based upon Topographical Survey ; J. Brotherton and Partners Topographical Survey - Drawing No. 18192.

Planning Issue

Rev	Description	Date	Initials
03	Planning Issue	11.03.19	JJ
02	Planning Issue	21.02.19	JJ
01	Planning Issue	21.06.18	LB

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Project Title and Location
261 Aldwick Road, Bognor Regis
Client
Domusea Developments Limited
Drawing Title
Tree Retention and Protection Plan

Scale	*Drawn*	*Date*
1:200@A1	LB	21.06.18
	Approved JJ	

Drawing No **LLD1425-ARB-DWG-002** *Revision* 03
CAD Filename

ARUN DISTRICT COUNCIL AW/239/18/06/E