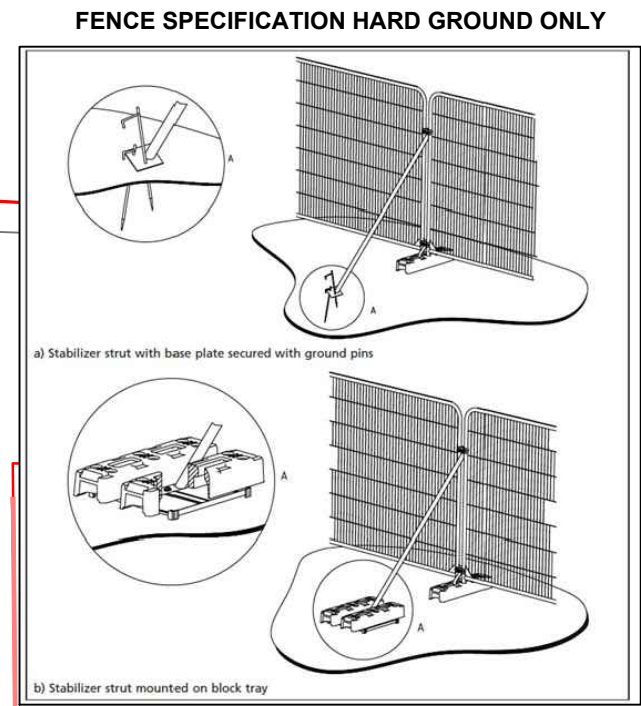
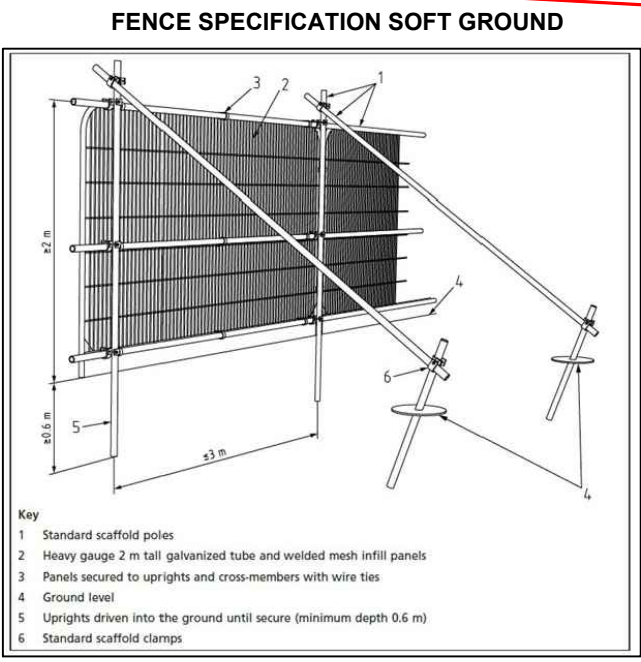
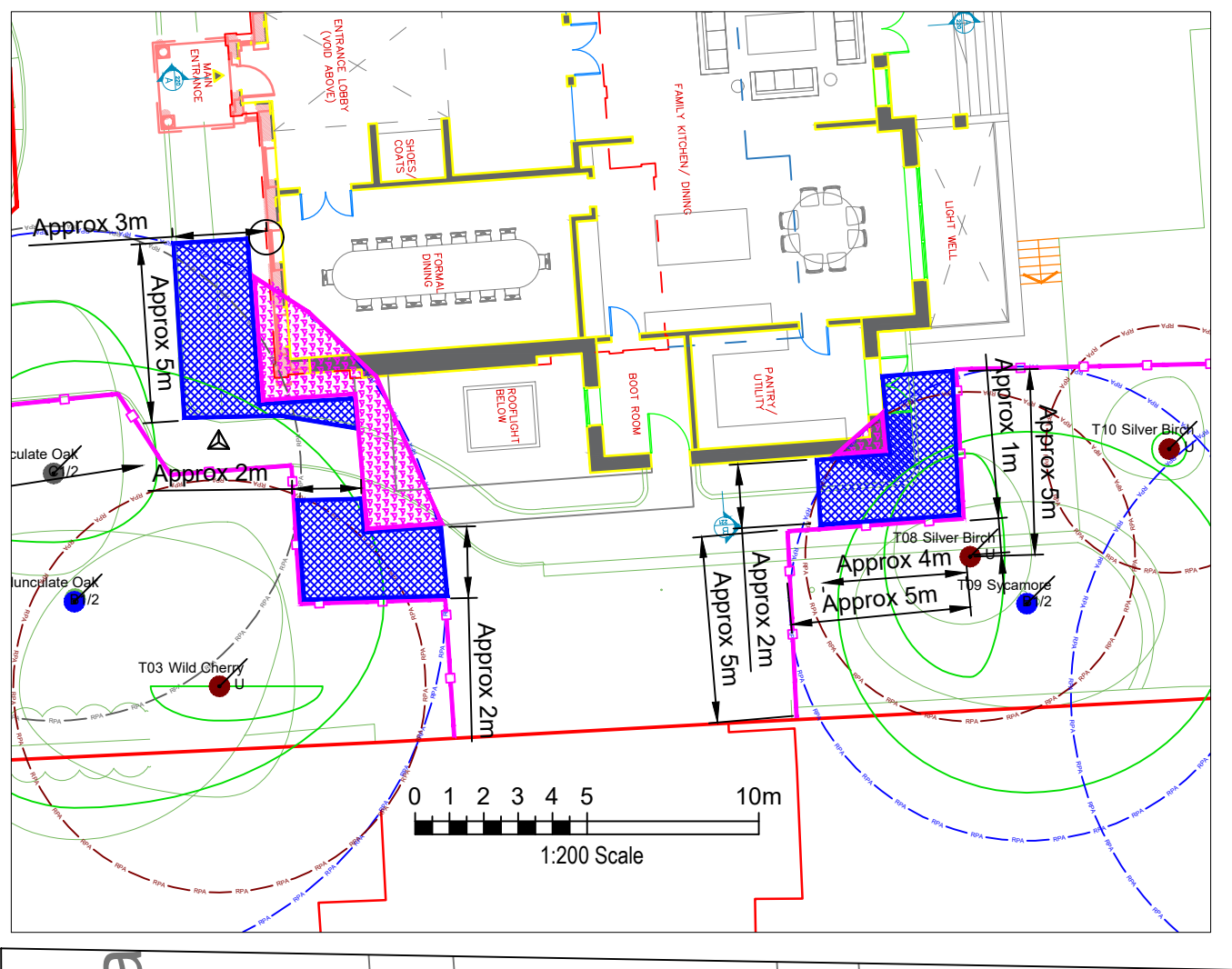




- 1 Construction Exclusion Zone**
- 1.1 No works will be undertaken within any Construction Exclusion Zone (CEZ). The CEZs are to be afforded protection at all times and will be protected by fencing. A protective fence shall be erected prior to the commencement of any site works e.g., before any materials or machinery are brought on site, development or the stripping of soil commences.
- 1.2 The fence shall have signs attached to it stating that this is a Construction Exclusion Zone and that **NO WORKS are Permitted within the fence**, see Image 4 in Appendix II. The tree protection fencing may only be removed following completion of all construction works.
- 1.3 The fence is required to be sited in accordance with the Tree Protection Plan.
- 1.4 They must be constructed as per Figures 1 and 2 in BS 5837 2012 and be fit for excluding any construction activity. (See Appendix II). Any other fence or barrier used must be fit for the purpose.
- Beaulieu**
- 1.5 The fencing unless otherwise agreed with the tree officer shall consist of Heras fencing panels, around 3.5m long and 2 m tall. They shall be fixed into the ground on scaffold poles driven at least 0.6 m into the ground. They shall be supported by rear struts also secured to posts driven into the ground, see Figure 1 in Appendix II.
- 1.6 All bolts shall be secured from inside the fencing to prevent easy removal from the outside during the construction phase.
- 1.7 Where there are **existing hard surfaces**, then rubber feet can be used to support the fencing, but these rubber feet shall be secured into the ground with road pins or other robust metal pins, to prevent the fencing being moved. This shall also be secured by rear struts which are also pinned into the ground, see Figure 2 in Appendix II.
- 1.8 All tree protection fencing shall be regarded as sacrosanct and will not be removed or altered without prior written consent of the Local Authority Tree Officer.
- 2 Ground Protection Measures**
- 2.1 The ground protection measures will be for pedestrian work access only. This will consist of a single thickness of scaffold boards placed either on top of a driven scaffold frame to form a suspended walkway, or on top of a compression-resistant layer (e.g., 100mm minimum depth of woodchip), laid onto a geotextile membrane.
- 2.2 Alternatively, Ground Guards or a similarly tested product, as detailed in Appendix VI could be used. This is accordance with BS 5837 (2012) and is to prevent compaction to the underlying soil.

G01 Cypress Hedge

Blue Orchard

G03 Cypress Hedge

Tree Protection Fencing along Edge of Tennis Court

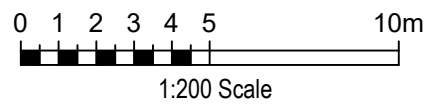
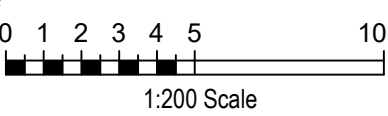
G01 Cypress Hedge

Tree Protection Fencing along Edge of Soft Verges

Site Entrances

Tree Protection Fencing along Edge of Soft Verges

SITE OFFICE, FACILITIES, & STORAGE AREA



Bracken Knoll

T01	Pedunculate Oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam (mm): 870 Spread (m): 7N, 9E, 6S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	N:7 E:9 S:6 W:5	Ivy clad	B1,2	Radius: 10.4m. Area: 340 sq. m.	Protect with tree protection fencing and ground protection during the construction.	Physiological Cond: Good Structural Cond: Good Bat Habitat: Medium	3 Yrs.
T02	Pedunculate Oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam (mm): 550 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 10+ Years	N:5 E:3 S:2 W:6	Trunk damage at base with exposed heartwood. Minor deadwood	C1,2	Radius: 6.6m. Area: 137 sq. m.	Protect with tree protection fencing and ground protection during the construction.	Physiological Cond: Poor Structural Cond: Fair Bat Habitat: Medium	3 Yrs.
T03	Wild Cherry (<i>Prunus avium</i>)	Height (m): 5 Stem Diam (mm): 500 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 2 Life Stage: Over Mature Rem. Contrib.: <10 years	N:0 E:3 S:1 W:2	Mostly dead	U	None - due to Retention Category of U.	Protect with tree protection fencing during the construction.	Physiological Cond: Poor Structural Cond: Poor Bat Habitat: Low	3 Yrs.
T04	Pedunculate Oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam (mm): 600 Spread (m): 4N, 5E, 6S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 10+ Years	N:4 E:5 S:6 W:7	Epicormic growth to 8m. Large burrs on the trunk. Previously crown lifted to 8 m with good wound occlusion.	C1	Radius: 7.2m. Area: 163 sq. m.	Protect with tree protection fencing during the construction.	Physiological Cond: Good Structural Cond: Fair Bat Habitat: Medium	3 Yrs.
T05	Elder (<i>Sambucus nigra</i>)	Height (m): 6 2 stems, diam(mm): 180, 200, 100 Spread (m): 0N, 1E, 1S, 3W Crown Clearance (m): 3 Life Stage: Over Mature Rem. Contrib.: 10+ Years	N:0 E:1 S:1 W:3	Major deadwood	C1	Radius: 3.4m. Area: 36 sq. m.	Protect with tree protection fencing during the construction.	Other Reference: Distance 1: Distance 2: Custom Number 3: Physiological Cond: Poor Structural Cond: Poor Bat Habitat: Low	3 Yrs.
T08	Silver Birch (<i>Betula pendula</i>)	Height (m): 5 Stem Diam (mm): 380 Spread (m): 3N, 3E, 3S, 2.5W Crown Clearance (m): 2 Life Stage: Over Mature Rem. Contrib.: <10 years	N:3 E:1 S:3.5 W:2.5	Mostly dead large cavity where leader was lost at 4 m on East side, limited occlusion.	U	None - due to Retention Category of U.	Protect with tree protection fencing during the construction.	Physiological Cond: Poor Structural Cond: Poor Bat Habitat: Low	3 Yrs.
T09	Sycamore (<i>Acer pseudoplatanus</i>)	Height (m): 11 2 stems, diam(mm): 470, 310 Spread (m): 5N, 6E, 5.5S, 5.5W Crown Clearance (m): 5 Lowest Branch (m): 5(S) Life Stage: Early Mature Rem. Contrib.: 20+ Years	N:5 E:6 S:5.5 W:5.5	Twin stemmed from 1 m. Tight union and included bark.	B1,2	Radius: 6.8m. Area: 145 sq. m.	Protect with tree protection fencing and ground protection during the construction.	Physiological Cond: Good Structural Cond: Fair Bat Habitat: Low	3 Yrs.
T10	Silver Birch (<i>Betula pendula</i>)	Height (m): 4 Stem Diam (mm): 260 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0.5 Life Stage: Over Mature Rem. Contrib.: <10 years	N:0.5 E:0.5 S:0.5 W:0.5	Topped at 4 m. Just a monolith.	U	None - due to Retention Category of U.	Protect with tree protection fencing during the construction.	Physiological Cond: Poor Structural Cond: Poor Bat Habitat: Low	3 Yrs.
T16	Pedunculate Oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam (mm): 710 Spread (m): 4N, 5E, 10S, 11W Crown Clearance (m): 8 Lowest Branch (m): 8(S) Life Stage: Early Mature Rem. Contrib.: 20+ Years	N:4 E:5 S:10 W:11	Epicormic growth to 8 m.	B1,2	Radius: 8.5m. Area: 227 sq. m.	Protect with tree protection fencing during the construction.	Physiological Cond: Good Structural Cond: Good Bat Habitat: Medium	3 Yrs.
T46	Lawson cypress (<i>Chamaecyparis lawsonia</i>)	Height (m): 20 2 stems, diam(mm): 550, 450 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	N:4 E:4 S:4 W:4	On adjacent property. Twin stemmed from 1 m. Tight union and included bark.	B1,2	Radius: 8.5m. Area: 227 sq. m.	Protect with tree protection fencing during the construction.	Physiological Cond: Good Structural Cond: Fair Bat Habitat: Medium	3 Yrs.
G01	14 Leyland cypress (<i>× Cupressopitys leylandii</i>)	Height (m): 9 Ave stems, diam(mm): 200 Spread (m): 2N, 3E, 2S, 3W Crown Clearance (m): 2 Life Stage: Semi-Mature Rem. Contrib.: 10+ Years	N:2 E:3 S:2 W:3	On adjacent property. Twin stemmed from 1 m. Tight union and included bark.	C1/2	Radius: 8.5m. Area: 227 sq. m.	Protect with tree protection fencing during the construction.	Physiological Cond: Good Structural Cond: Fair Bat Habitat: Low	3 Yrs.
G03	8 Lawson cypress (<i>Chamaecyparis lawsonia</i>)	Height (m): 11 Ave stems, diam(mm): 100 Spread (m): 1.5N, 1.5E, 1.5S, 1.5W Crown Clearance (m): 1.5 Life Stage: Semi-Mature Rem. Contrib.: 10+ Years	N:1.5 E:1.5 S:1.5 W:1.5	On adjacent property. Twin stemmed from 1 m. Tight union and included bark.	C1/2	Radius: 1.8m. Area: 10 sq. m.	Protect with tree protection fencing during the construction.	Physiological Cond: Good Structural Cond: Fair Bat Habitat: Low	3 Yrs.

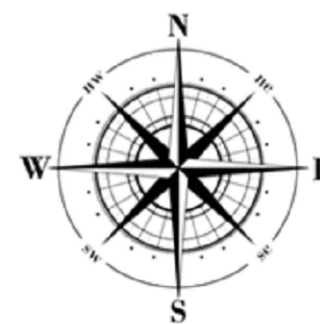
11 Foundation Designs

- 11.1 There is an incursion into the RPA of T01 an oak tree at the front and T09 a sycamore at the rear. This is an approved design, and the approved foundation specification is for continuous core piled foundations.
- 11.2 These will extend 500 mm outside the existing foundation footprint. This will be augured and wet poured, so there is no way of mitigating this minor impact to the edge of the RPA of T01.
- 11.3 There is nothing that can be done to limit this impact at this stage other than the tree protection fencing and ground protection measures outside the foundations, as shown on AC.2022.184 TPP-01 Rev A.
- 11.4 The building in the south-west corner with the rooflight is a basement building. This is also approved and will extend through the edge of the RPA of T01, through the 1 m deep RPA.
- 11.5 There is nothing that can be done to limit this impact at this stage other than the tree protection fencing and ground protection measures outside the foundations, as shown on AC.2022.184 TPP-01 Rev A.
- 11.6 The incursion into the RPA of T01 will be minimal with much of this restricted due to it being under the existing building anyway. The tree is more than capable of withstanding this.
- 11.7 The pantry/utility room at the rear is also designed with continuous core piles but they do not need to extend outside the footprint. The incursion into the RPA of T09 will be minimal and the tree is more than capable of withstanding this. The only measures to be taken are the tree protection fencing and ground protection measures outside the foundations, as shown on AC.2022.184 TPP-01 Rev A

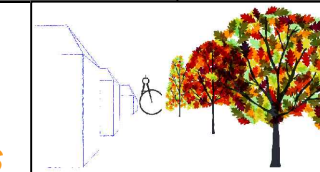
Legend

- CATEGORY A TREE
- CATEGORY B TREE
- CATEGORY C TREE
- CATEGORY U TREE
- ROOT PROTECTION AREA (RPA) Coloured by Tree Category
- MODIFIED ROOT PROTECTION AREA (MRPA)
- CROWN SPREAD
- TREE TO BE REMOVED
- PROTECTIVE FENCING
- TEMPORARY GROUND PROTECTION
- "NO-DIG" CONSTRUCTION
- CEZ CONSTRUCTION EXCLUSION ZONE
- NEW TREE
- SOIL TEST
- SHADE (CURRENT)
- SHADE (FUTURE)
- LOW BRANCH DIRECTION
- RPA INCURSION

Notes:



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Client: Ms Philippa Hughes of BTP Group

Project: Guildens, Courtenay Avenue, Highgate, London, N6 4LP

Title: TREE CONSTRAINTS PLAN
TREE PROTECTION PLAN

Date: 24/03/22 Scale: 1: 200 Original Paper Size: A1

Drawn: IST Checked: - N/A Job Ref: AC.2022.184

Drawing Number: TPP-01 Rev: A

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