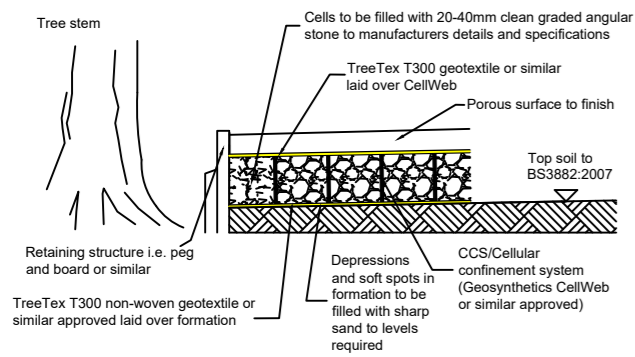


**WHY TREE PROTECTION IS NEEDED**

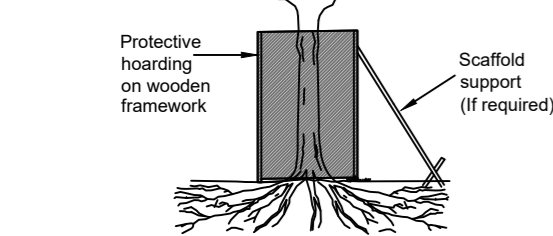
- 1) Soil compaction kills roots**- caused by plant movement and storage of materials within protected areas.
- 2) Trenching severs roots**- many small roots grow within the top 600mm of soil. Even the removal of the top 200mm can cause damage.
- 3) Soil pollution kills roots**- Dripping fuel storage or cement washings can contaminate the soil resulting in root death.
- 4) Raising & lowering levels kills roots**- the soil used to increase levels can compact the underlying soil (see point 1). Lowering levels will remove roots causing damage to the tree.
- 5) Bark and branch damage**- bark removal and branch damage can allow disease and fungi into the tree.

The impact of any of the above can take years to show- trees can have huge reserves of food and water.

**NO-DIG SURFACE**  
Cellular confinement system (CCS) to be used to create this area of hard surface, above the existing ground level. Underlying subbase to be retained. Depth of CCS to be 50-75mm for proposed bike storage area. Surface to be porous to approved details and specifications. To be installed under arboricultural supervision.  
All specifications subject to engineering design.



**TREE STEM PROTECTION**  
The boxing shall be installed prior to any plant activity on site whatsoever, including: demolition, utility installation, groundworks, and soil stripping



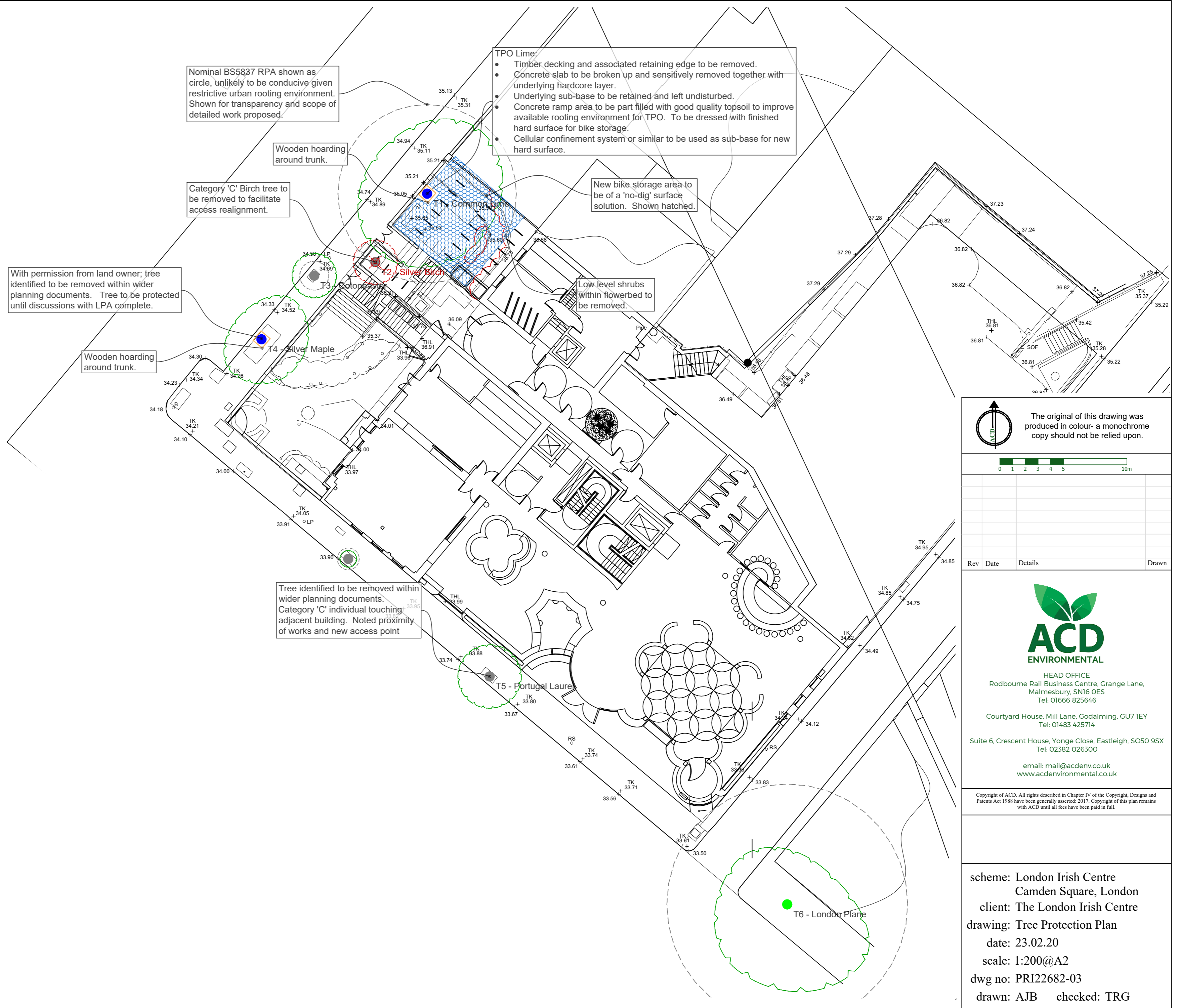
- TREE TO BE RETAINED
- TREE TO BE REMOVED
- A CATEGORY TREE
- B CATEGORY TREE
- C CATEGORY TREE
- U CATEGORY TREE
- ROOT PROTECTION AREA (RPA) FOR RETAINED TREES
- INDICATIVE SERVICE ROUTE AVOIDING PROTECTION AREAS

**RESTRICTIONS WITHIN TREE PROTECTION AREAS**  
Inside the exclusion area of the fencing, the following shall apply:

- No mechanical excavation whatsoever
- No excavation by any other means without arboricultural site supervision
- No hand digging without a written method statement having first been approved by the project arboriculturalist.
- No lowering of levels for any purpose (except removal of grass sward using hand tools)
- No storage of plant or materials
- No storage or handling of any chemical including cement washings
- No vehicular access
- No fire lighting

In addition to the above, further precautions are necessary adjacent to trees:

- No substances injurious to tree health, including fuels, oil, bitumen, cement (including cement washings), builders sand, concrete mixing and other chemicals shall be stored or used within or directly adjacent to the protection areas of retained trees
- No fire shall be lit such that flames come within 5m of tree foliage.



The original of this drawing was produced in colour- a monochrome copy should not be relied upon.



Rev	Date	Details	Drawn

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