

EV Arboricultural Advice for Rich 44 – OS 354/360 Upper Richmond Road West

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Project: EV Rich 44

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In response to your request to the Green Infrastructure Team's (GI) technical advice in relation to the installation of the EV charging points please find below the following advice.

This report is primarily concerned with providing arboricultural advice in relation to the installation of the feeder pillar, charging point and connecting cable only.

The GI team were instructed to provide landscape and arboricultural advice with emphasis on the following elements:

- I. Arboricultural considerations
- II. Arboricultural impacts
- III. Methodology to mitigate impacts

Arboricultural considerations

The proposed EV charging point will be located within the footway and carriage way situated outside of 356 to 360 Upper Richmond Road West, adjacent to or in close proximity of the works are 6 trees, which are identified as asset's 200099002387, 12945189, 200002000020, 5670115 and 200099000006 and 5670128. The details of the trees are set out in table 1 below:

Table 1: Showing tree survey schedule

Asset ID	Species	Age Class	Crown Spread (m)	Height (m)	Stem Dia (cm)	Comments	Category	RPA m2	RPA radius m
200099002387	Sweet Gum	Semi Mature	3	5	14	Fair condition. Central leader previously lost	C	8.9	1.7
12945189	Apple Crab	Mature	5	11	29	Good condition. Crown suppressed on eastern side.	B	38	3.5
200002000020	Ash Common	Semi Mature	6	13	31	Good condition. Crown suppressed on east and western side.	C	43.5	3.7
5670115	Whitebeam	Mature	5.5	7	38	Good condition. Crown suppressed on west side.	B	66.5	4.6
200099000006	Ash Common	Semi-mature	6.5	9	31	Crown suppressed on eastern side.	B	43.5	3.7
5670128	Whitebeam	Semi-mature	4.25	5.5	19	Crown suppressed on western side.	B	16.6	2.3

Arboricultural impacts

The proposed EV charging will require excavations within the Root Protection Area (RPA) of trees 2000020002, 5670115, 200099000006 and 5670128. The excavations will be required to form access chambers and foundations for the charging point and a utility trench between this and the feeder pillar. The feeder pillar is located outside of the RPA of any trees. The greatest excavation required is of that to form the access camber and foundation for the charging point, this will require an excavation which measures 700mm by 700mm (0.49m²).

The location of the charging point has been positioned to be practicable for charging and not directly in line with any existing trees and between trees 20000200020 and 5670115. The proposed excavation equates to an impact of 1.1% and 0.7% on their RPA's respectively.

The utility trench will encroach across RPA of trees 20000200020, 5670115, 200099000006 and 5670128. Although these works have the possibility of an impact during construction, there will be no long-term loss of rooting environment.

Methodology to mitigate impacts

To ensure the impact upon all trees retained is minimised, all construction works close to or within the Root Protection Area should be completed in line with the following methodology.

- The cable trench will not be closer than 1.5m from the base of any tree and be outside of the Prohibited Zone as set out NJUG Volume 4 Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees.
- All excavations will be undertaken with the use of hand tools only and/or an air pick.
- The soil will be carefully removed from the excavations, to avoid any damage to the roots.
- All excavation spoil will be stored outside of any unsurfaced RPA's.
- All roots over 25mm in diameter will be retained and if exposed, wrapped in damp hessian during installation of the cable.
- Once the cable has been installed, the trench will be back filled straight away.
- If roots greater than 25mm in diameter are found within the charging point foundations, these will be altered to accommodate the root. If this is not possible a TFL arboricultural specialist must be contacted prior to any pruning of roots greater than 25mm in diameter.
- The edges of the charging point foundations will be lined prior to the pouring of any wet cement.
- No tracked or wheeled machinery will be sat within or tracked over any unsurfaced RPA's.