1. The Root Protection Areas of the trees are included in the Tree Survey Schedule with reference to Table 1 of British Standard 5837. The Root Protection Area (RPA) is the area, measured in m2, which is calculated in accordance with the BS 5837 using the stem diameter of the trees. This should provide retained trees with sufficient rooting environment to survive the proposed development. BS 5837 provides for the shape of the RPA to be modified from the starting point of a circle to account for site features where rooting may be restricted, as long as the total area remains the same.

- No more than 20% of the RPA of retained trees is to be covered by existing or new hard surfacing of any kind unless already in situ.

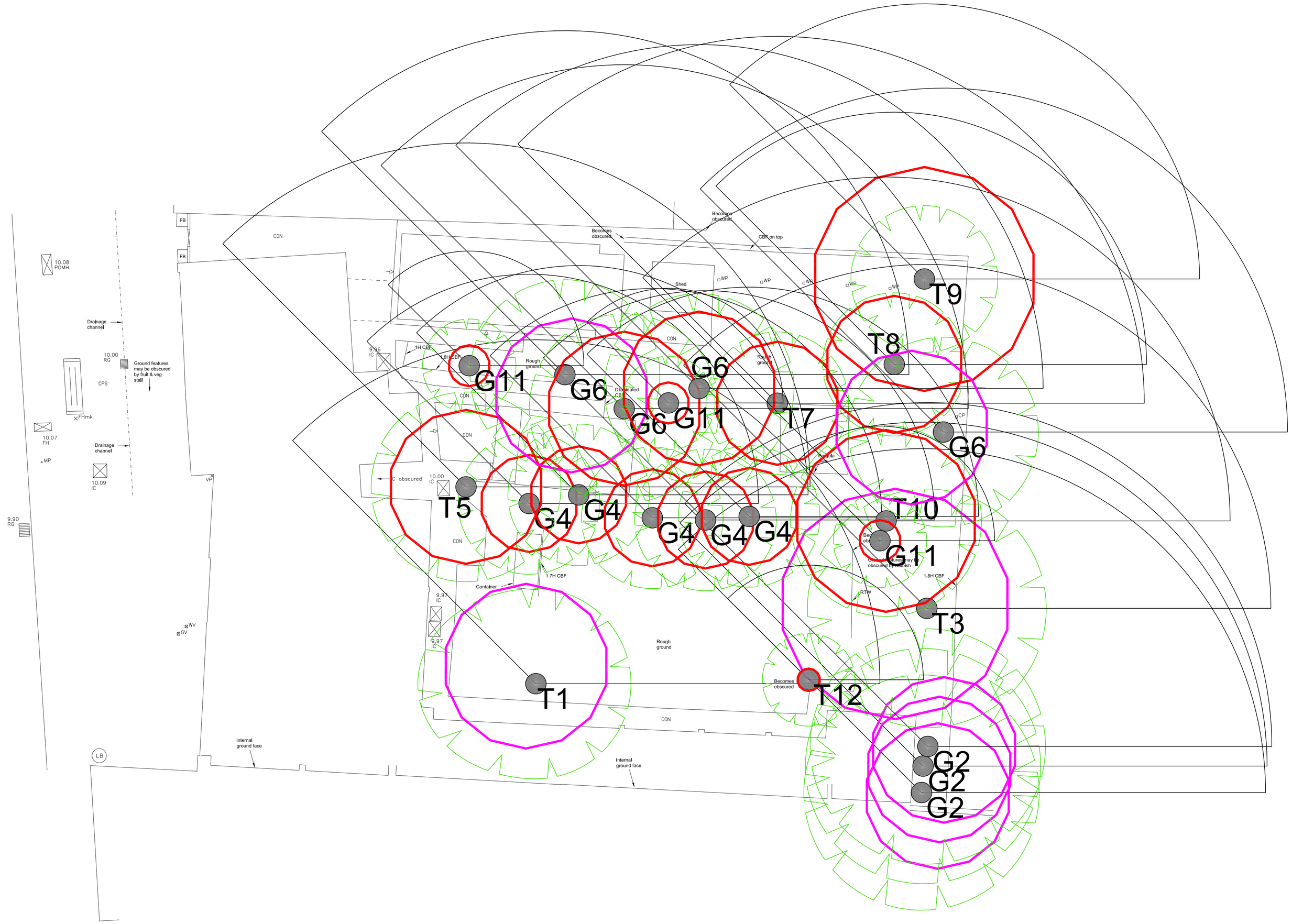
2. The approximate shade segments for surveyed trees has been plotted using the ArborCAD software system, which identifies the area of the site which may be affected by shade during the course of the day. The shade segment does not represent the area which will be in shade all day long; however, it represents an area which may be affected at some point during the course of a day by shade depending on the time of day and season.

3. Before the planning application is submitted to the Local Planning Authority, it may be necessary to include an Arboricultural Impact Assessment, an Arboricultural Method Statement and a Tree Protection Plan. These documents provide the detail relating to:

- Which trees need to be removed to accommodate the proposed layout
- The mitigation required in relation to the above tree removal
- The methods and sequencing of effective tree protection and retention during the construction phases
- The arboricultural monitoring and supervision necessary to ensure the delivery of robust and effective tree protection

The quality and value of the tree stock has been broken down by BS 5837 quality grade. The grading system can be summarised as follows:

A Grade - trees of high quality and value with a life expectancy of more than 40 years
B Grade - trees of moderate quality and value, with a life expectancy of more than 20 years
C Grade - trees of low quality and value, with a life expectancy of more than 10 years
U Grade - trees for removal, with a life expectancy of less than 10 years



DO NOT USE THIS PLAN UNLESS IT IS PRINTED IN COLOUR AND AT A1

Indicative

KEY:

- Shade patterns for surveyed trees
- BS rooting area is shown uniform but may be modified to account for site features
- BS rooting area has been modified to account for site features
- A Grade
- B Grade
- C Grade

Plan to be printed in colour and to scale

DRAWING TITLE
Tree Constraints Plan

PROJECT
179-181 High Street, Hampton Hill, Richmond, TW12 1NL

SCALE	DATE	DRAWN BY
1:100 @ A1	26.05.2015	D.C.

DRAWING NUMBER	REV
TCP-CC/1414 AR2599	0

Challice Consulting Ltd.
Holmwood Farm Grange
Horsham Road
North Holmwood
Dorking
Surrey
RH5 4JR
Tel: 01306 743374
Email: info@challiceconsulting.co.uk
Web: www.challiceconsulting.co.uk