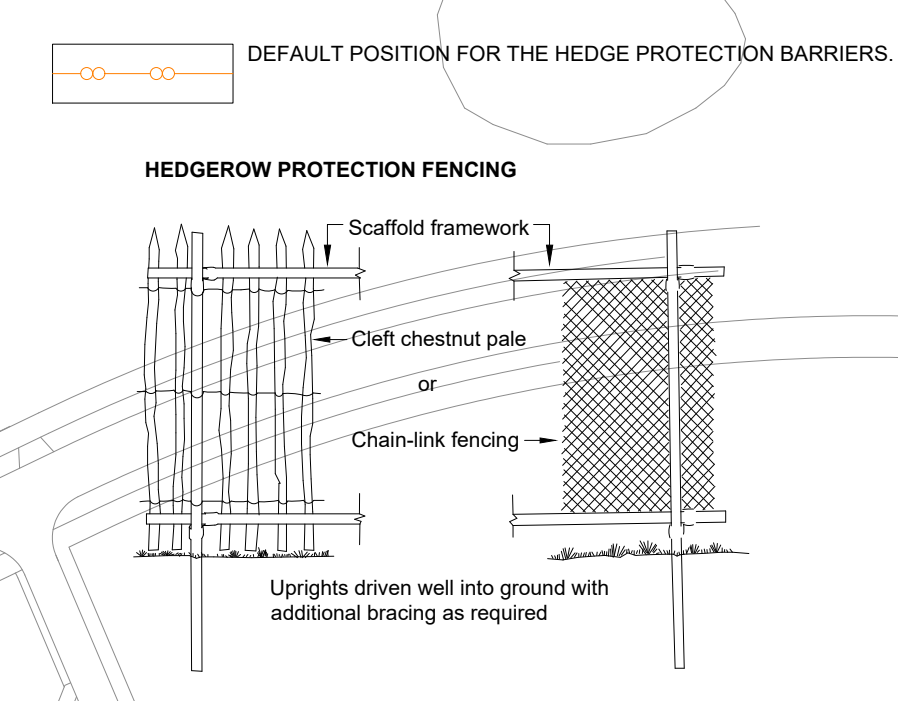
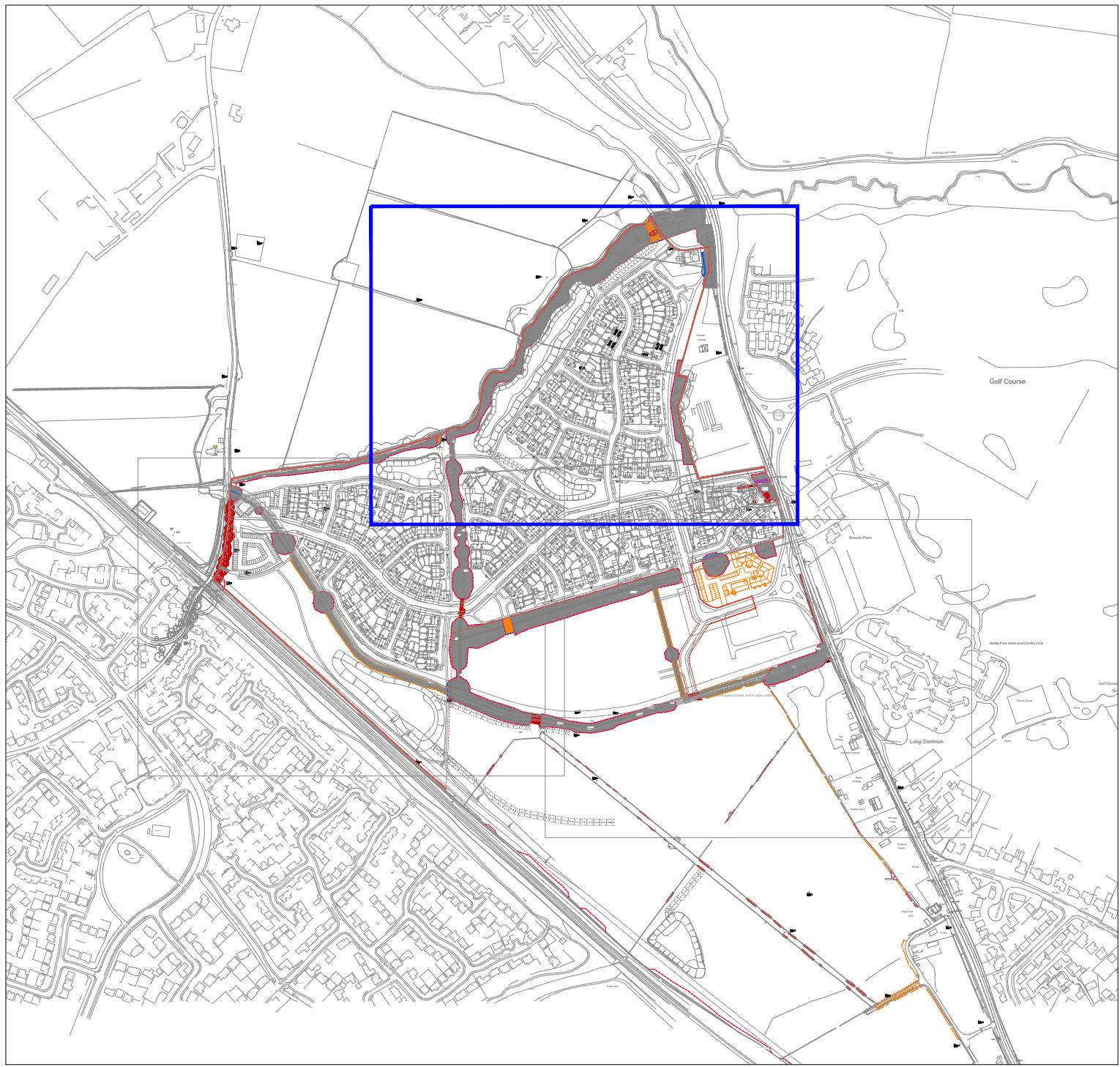
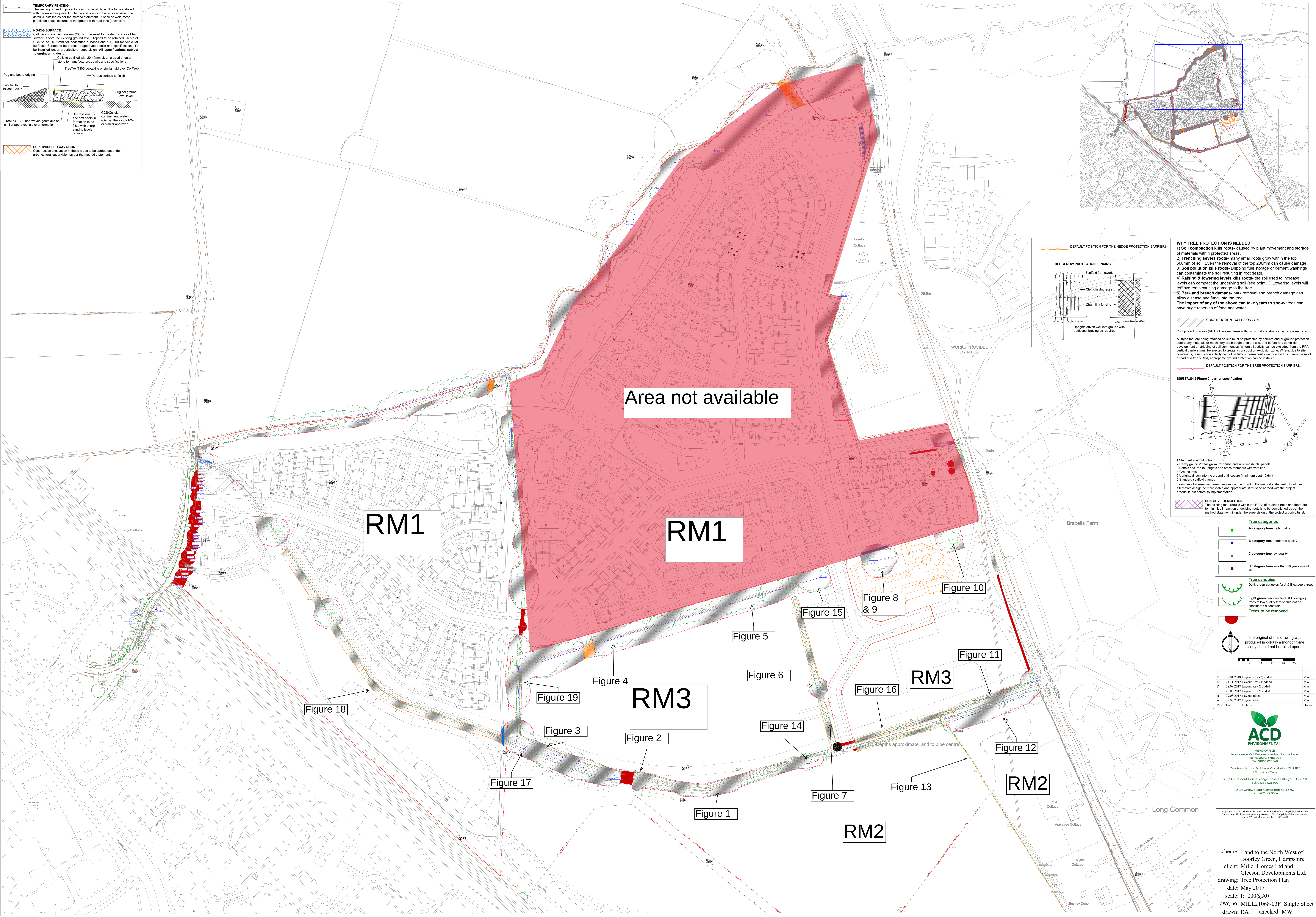


TEMPORARY FENCING
The fencing is used to protect areas of special detail. It is to be installed with the main tree protection fence and is only to be removed when the detail is installed as per the method statement. It shall be well-mesh panels or boards, secured to the ground with road pins (or similar).

NO-DIG SURFACE
Cellular confinement system (CCS) to be used to create this area of hard surface above the existing ground level. Typical to be retained. Depth of CCS to be 50-75mm for pedestrian surfaces and 100-200 for vehicular surfaces. Surface to be porous to approved details and specifications. To be installed under arboricultural supervision. All specifications subject to engineering design.
Cells to be filled with 20-40mm clean graded angular stone to manufacturers details and specifications

Peg and board edging
Top soil to BS3882:2007
Original ground level level
TreeTex T300 geotextile or similar approved laid over formation
Depressions and soft spots to be filled with sharp sand to levels required
CCS/Cellular confinement system formation to be filled with sharp sand to levels required

SUPERVISED EXCAVATION
Construction excavation in these areas to be carried out under arboricultural supervision as per the method statement.



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 diseases and fungi into the trees.

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

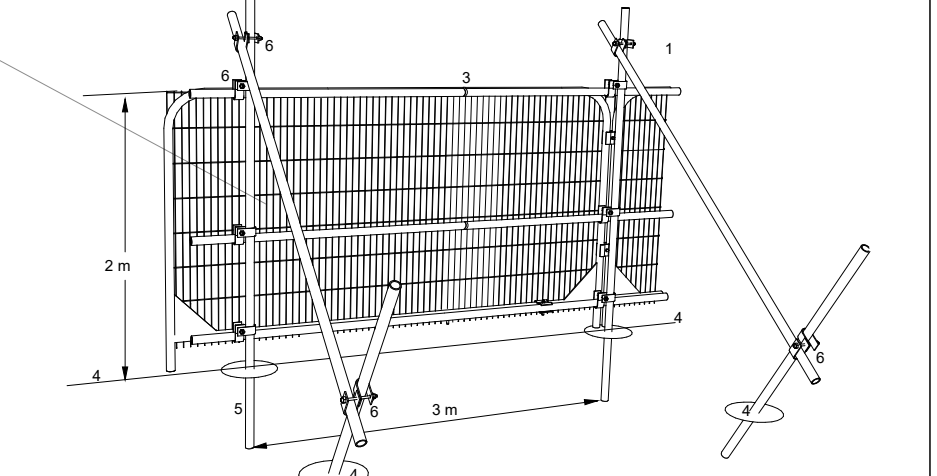
CONSTRUCTION EXCLUSION ZONE

Root protection areas (RPA) of retained trees within which all construction activity is restricted.

All trees that are being retained on site must be protected by barriers and/or ground protection before any materials or machinery are brought onto the site, and before any demolition, development or stripping of soil commences. Where all activity can be excluded from the RPA, vertical barriers must be erected to create a construction exclusion zone. Where, due to site constraints, construction activity cannot be fully or permanently excluded in this manner from all or part of a tree's RPA, appropriate ground protection can be installed.

DEFAULT POSITION FOR THE TREE PROTECTION BARRIERS.

BS5837:2012 Figure 2 - barrier specification



SENSITIVE DEMOLITION

The existing feature(s) is within the RPAs of retained trees and therefore, to minimise impact on underlying roots is to be demolished as per the method statement & under the supervision of the project arboriculturist.

Tree categories

- A category tree - high quality
- B category tree - moderate quality
- C category tree - low quality
- U category tree - less than 10 years useful life

Tree canopies

- Dark green canopies for A & B category trees
- Light green canopies for U & C category trees of low quality that should not be considered a constraint
- Trees to be removed

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

F	09.01.2018	Layout Rev ZD added	MW
E	21.11.2017	Layout Rev ZE added	MW
D	28.09.2017	Layout Rev X added	MW
C	28.09.2017	Layout Rev Y added	MW
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A	09.08.2017	Layout added	MW
Rev	Date	Details	Drawn

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Boorley Green, Hampshire
client: Miller Homes Ltd and
Gleeson Developments Ltd.
drawing: Tree Protection Plan
date: May 2017
scale: 1:1000@A0
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drawn: RA checked: MW