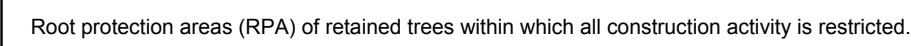


- 1) **Soil compaction kills roots**— caused by plant movement and storage of materials within protected areas.
- 2) **Trenching severs roots**— many small roots grow within the top 600mm of soil. Even the removal of the top 200mm can cause damage.
- 3) **Soil pollution kills roots**— Drilling fuel storage or cement washings can contaminate the soil resulting in root death.
- 4) **Raising & lowering the soil level**— 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.

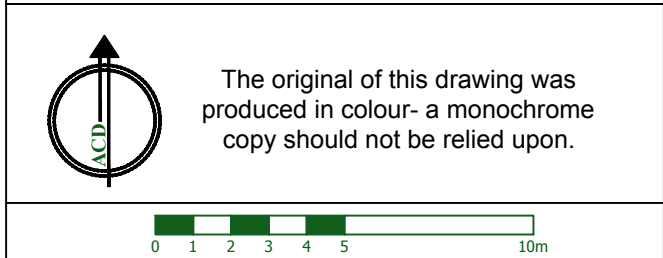
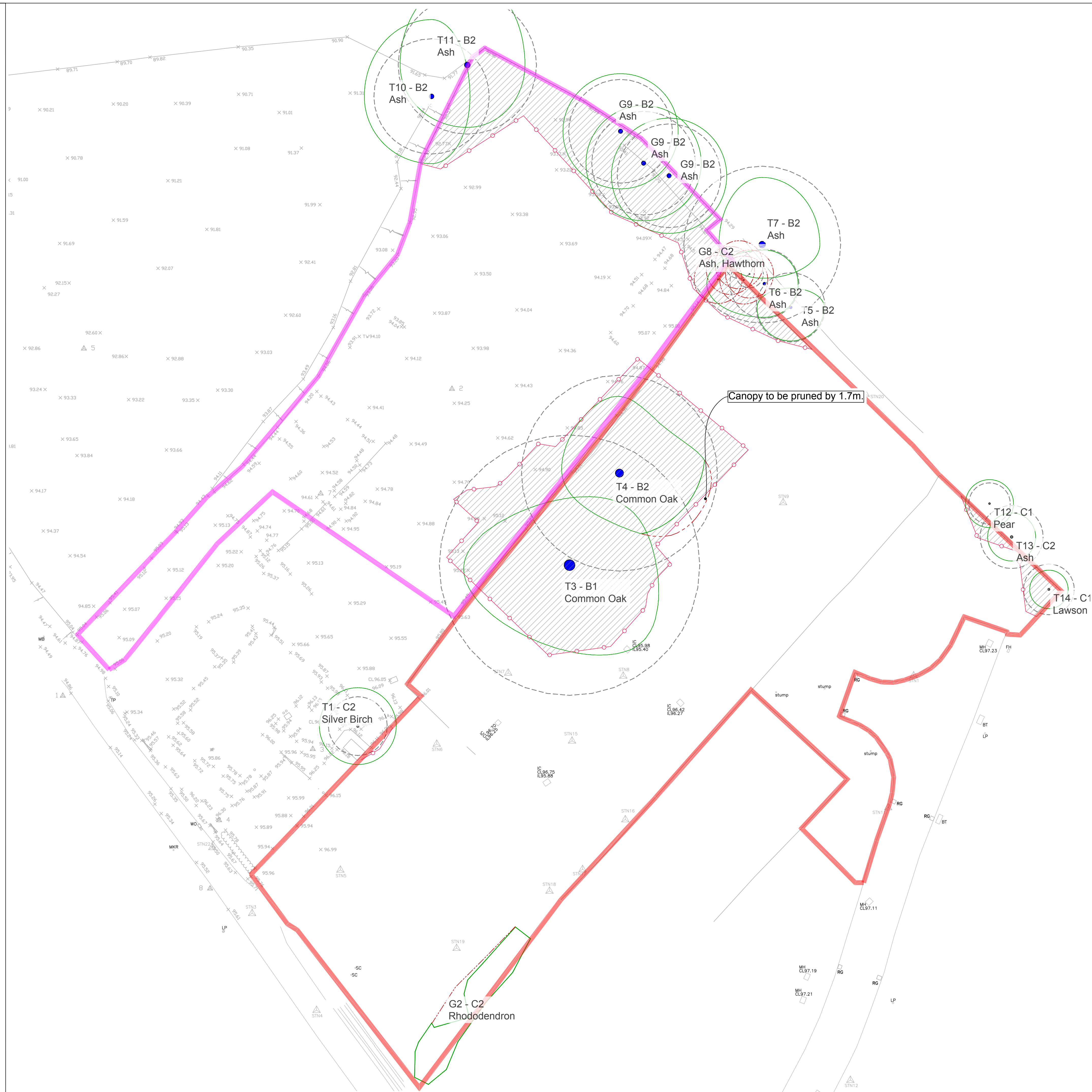
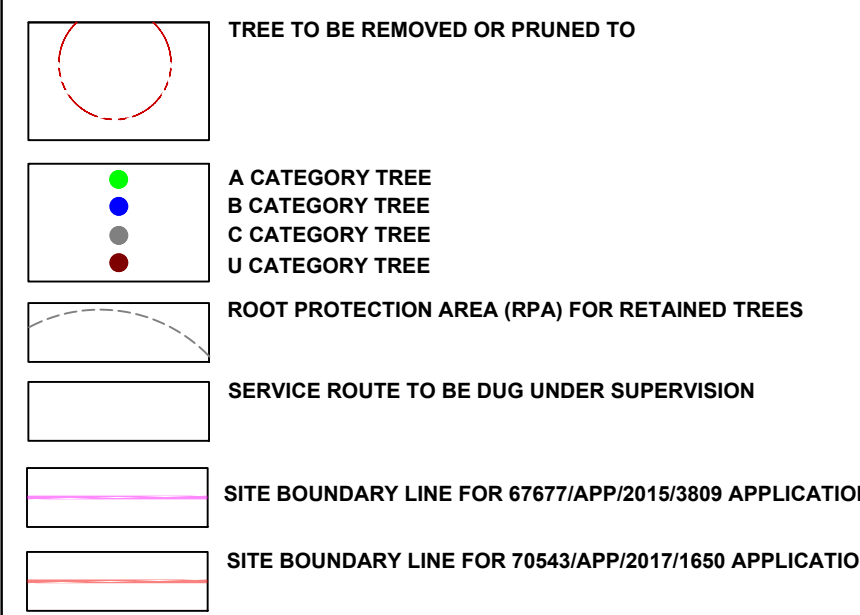
The impact of any of the above can take years to show— trees can have huge reserves of food and water.



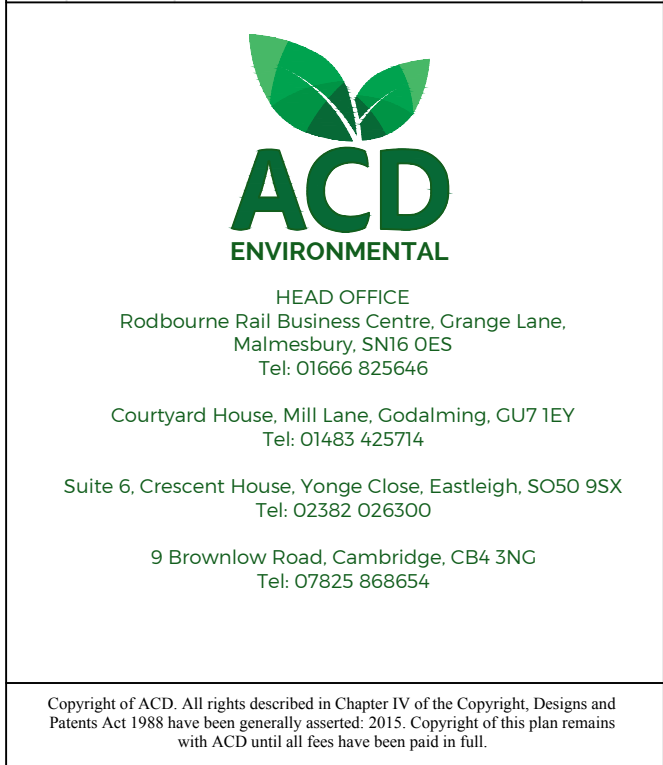
All trees that are being retained on site must be protected by barriers and/or ground protection before any materials or machinery are brought onto the site, and before any demolition, development or stripping of soil commences. Where all activity can be excluded from the RPA, vertical barriers must 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 a tree's RPA, appropriate ground protection can be installed.



- 1 Standard scaffold poles
 - 2 Heavy gauge 2m tall galvanized tube and weld mesh infill panels
 - 3 Panels secured to uprights and cross-members with wire ties
 - 4 Ground level
 - 5 Uprights driven into the ground until secure (minimum depth 0.6m)
 - 6 Standard scaffold clamps
- Examples of alternative barrier designs can be found in the method statement. Should an alternative design be more viable and appropriate, it must be agreed with the project arboriculturist before its implementation.



Rev	Date	Details	Drawn



scheme: Land forming 10& 12
Jackets Lane, Northwood
client: Shanley Homes
drawing: Tree Protection Plan
date: October 2017
scale: 1:200@A1
dwg no: SH21492-03
drawn: RA checked: MW