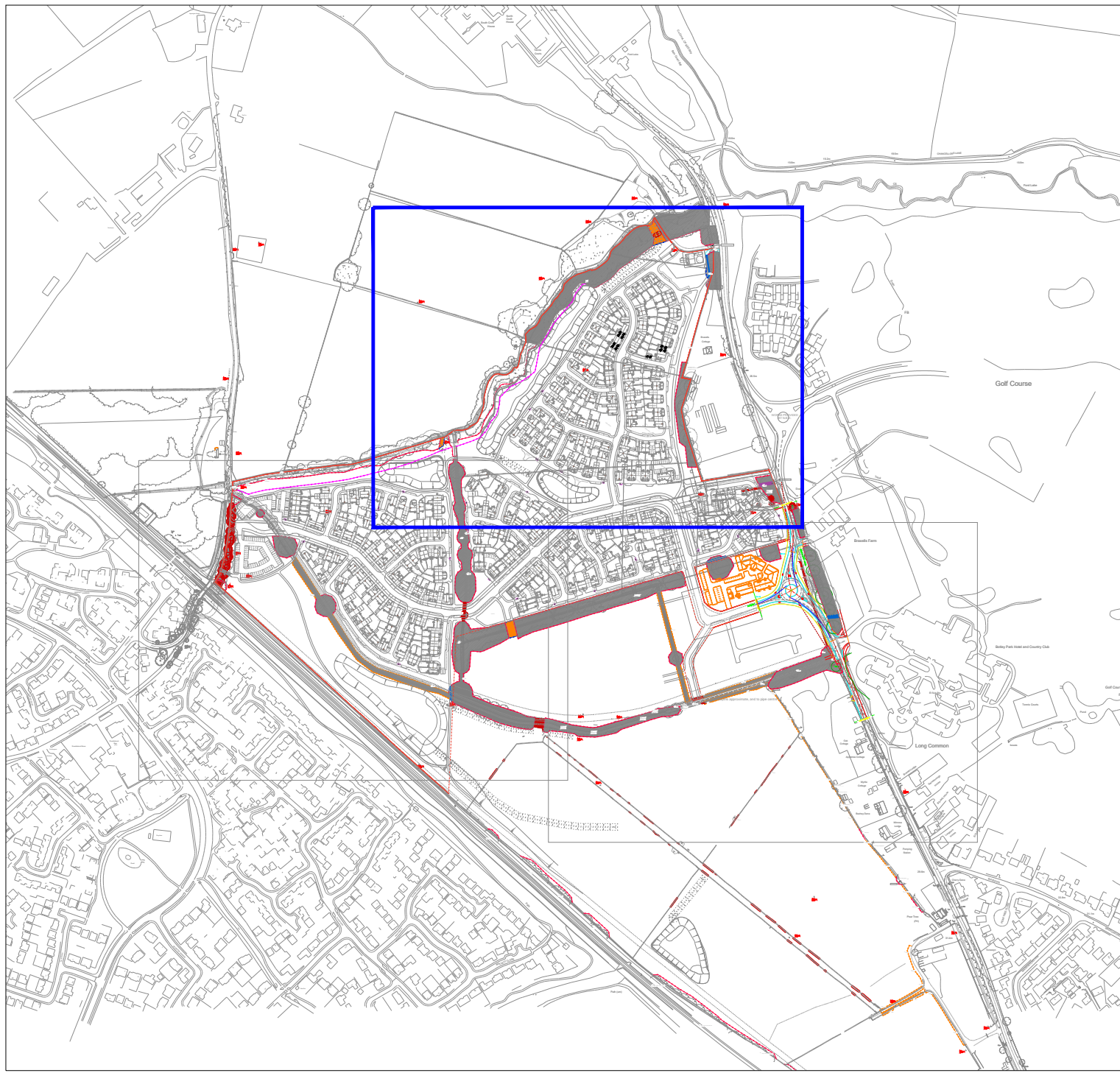
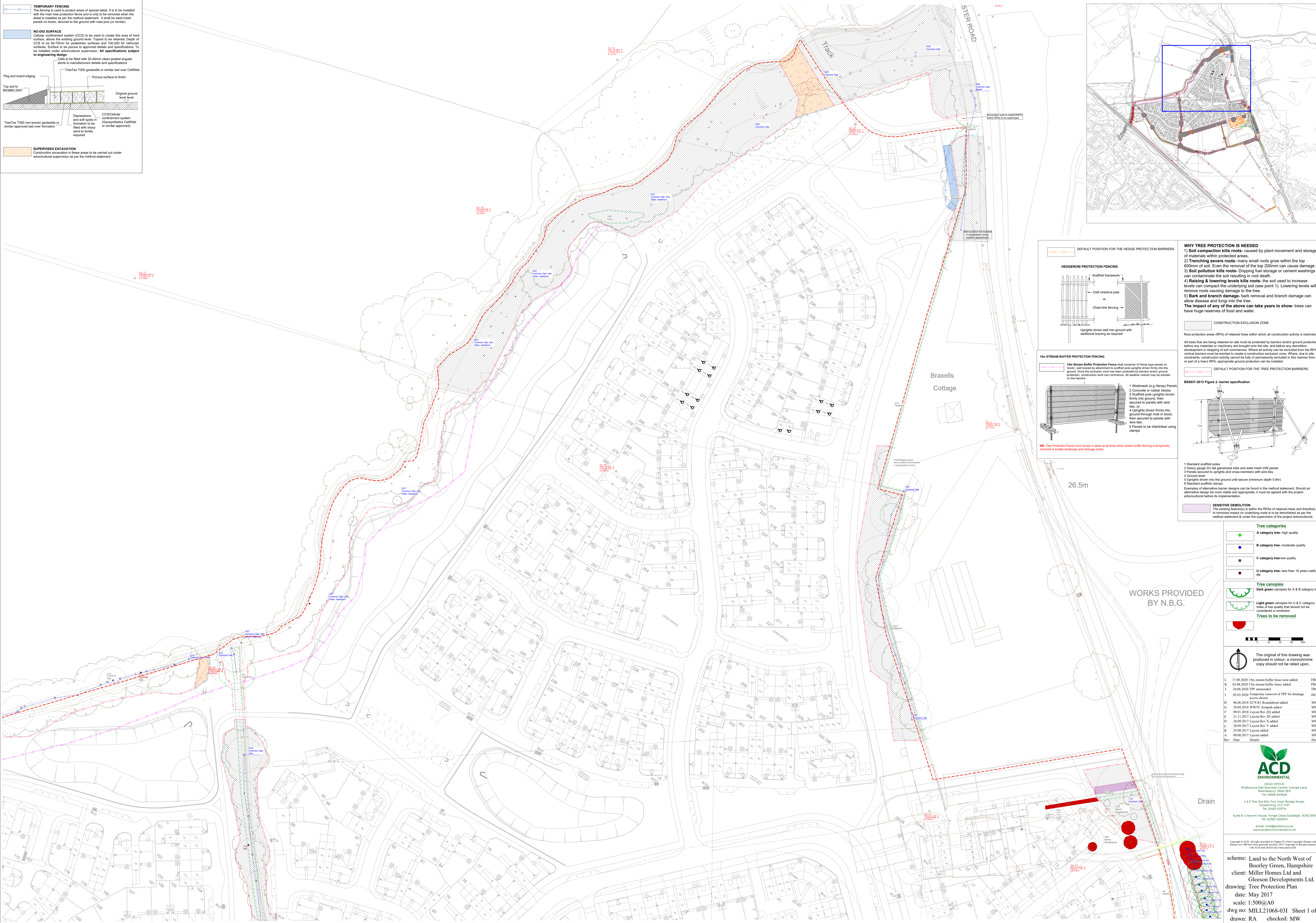


TEMPORARY FENCING
The fencing is used to protect areas of special detail. It is to be installed with the main tree protection fence and is only to be removed when the detail is installed as per the method statement. It shall be well-treat panels on posts, secured to the ground with road pins (or similar).

NO-DIG SURFACE
Cellular confinement system (CCS) to be used to create this area of hard surface above the existing ground level. Topsoil to be retained. Depth of CCS to be 50-75mm for pedestrian surfaces and 100-200 for vehicular surfaces. Surfaces 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 BS3883:2007
Original ground level level
Tree Tex 1300 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.



DEFAULT POSITION FOR THE HEDGE PROTECTION BARRIERS.

HEDGEROW PROTECTION FENCING

Scaffold framework
Clift chestnut pale or Chain-link fencing
Uprights driven well into ground with additional bracing as required

15m STREAM BUFFER PROTECTION FENCING

15m Stream Buffer Protection Fence shall comprise of three type panels on 'locks' well secured by attachment to scaffold pole uprights driven firmly into the ground. Once the exclusion zone has been protected by barriers and/or ground protection, construction work can commence. All weather notices may be erected on the barriers.

1 Weldmesh (e.g Heras) Panels
2 Concrete or rubber blocks
3 Scaffold pole uprights driven firmly into ground, then secured to panels with wire ties, or
4 Uprights driven firmly into ground through hole in block, then secured to panels with wire ties
5 Panels to be interlinked using clamps

NB: Tree Protection Fence must remain in place at all times when stream buffer fencing is temporarily removed to enable landscape and drainage works.

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

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 0.8m)
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.

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

WORKS PROVIDED BY N.B.G.

Scale: 1:500@A0

Legend:

17.08.2020 15m stream buffer fence note added TRG
03.08.2020 15m stream buffer fence added TRG
24.06.2020 TPF amended TRG
05.03.2020 Temporary removal of TPF for drainage access shown HEP
06.06.2018 S278 R1 Roundabout added MW
30.04.2018 WWT Footpath added MW
09.01.2018 Layout Rev Z2 added MW
21.11.2017 Layout Rev Z2 added MW
28.09.2017 Layout Rev X added MW
20.09.2017 Layout Rev V added MW
29.08.2017 Layout added MW
09.08.2017 Layout added MW

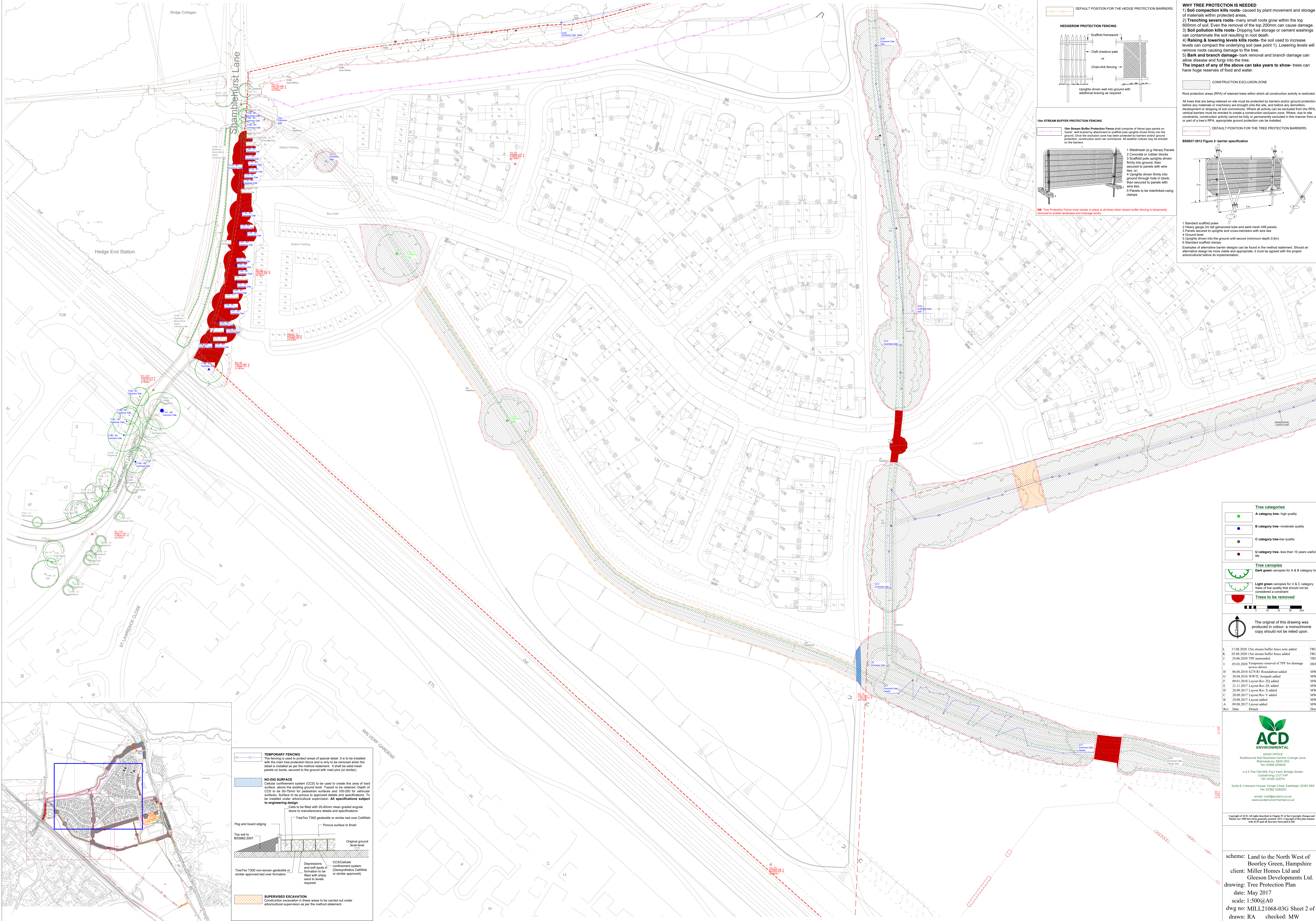
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4 & 5 The Old Mill, Fry's Yard Bridge Street,
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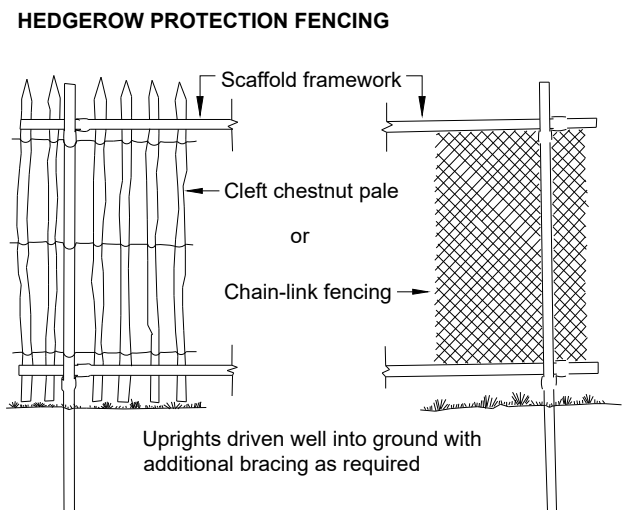
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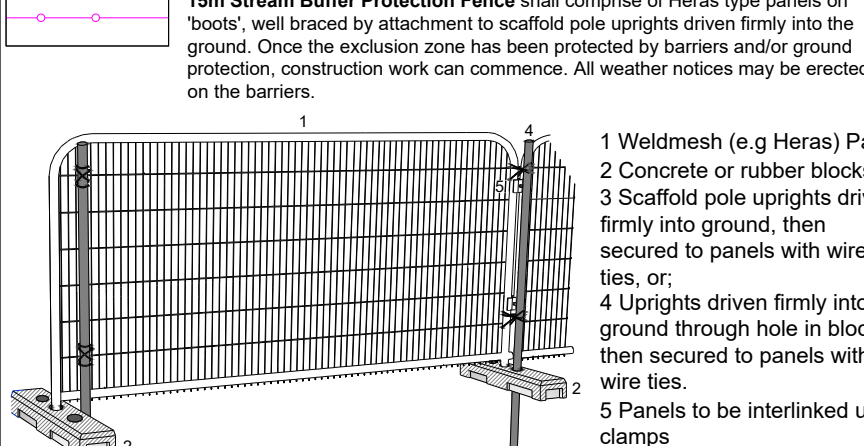
scheme: Land to the North West of
Boorley Green, Hampshire
client: Miller Homes Ltd and
Gleeson Developments Ltd.
drawing: Tree Protection Plan
date: May 2017
scale: 1:500@A0
dvg no: MILL21068-031 Sheet 1 of 3
drawn: RA checked: MW



DEFAULT POSITION FOR THE HEDGE PROTECTION BARRIERS.



15m STREAM BUFFER PROTECTION FENCING



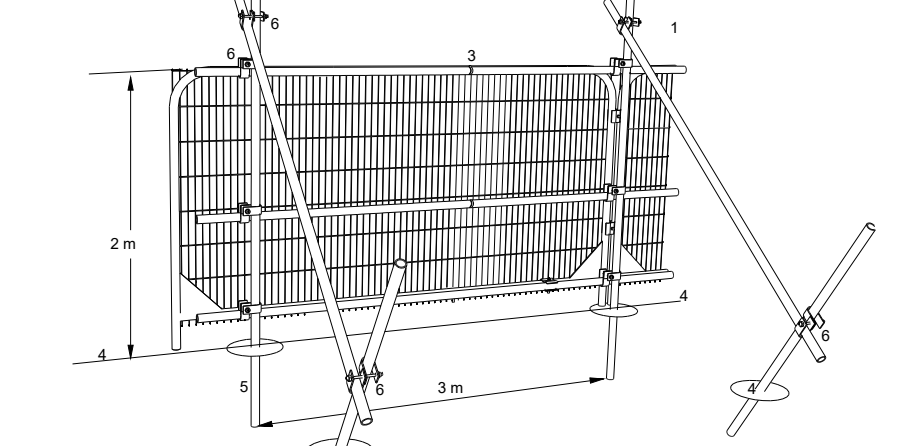
NB: Tree Protection Fence must remain in place at all times when stream buffer fencing is temporarily removed to enable landscape and drainage works.

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.

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.

BS5837:2012 Figure 3- barrier specification



1 Standard scaffold poles
2 Heavy gauge 2in x 1in 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 architect/landlord before implementation.

- 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

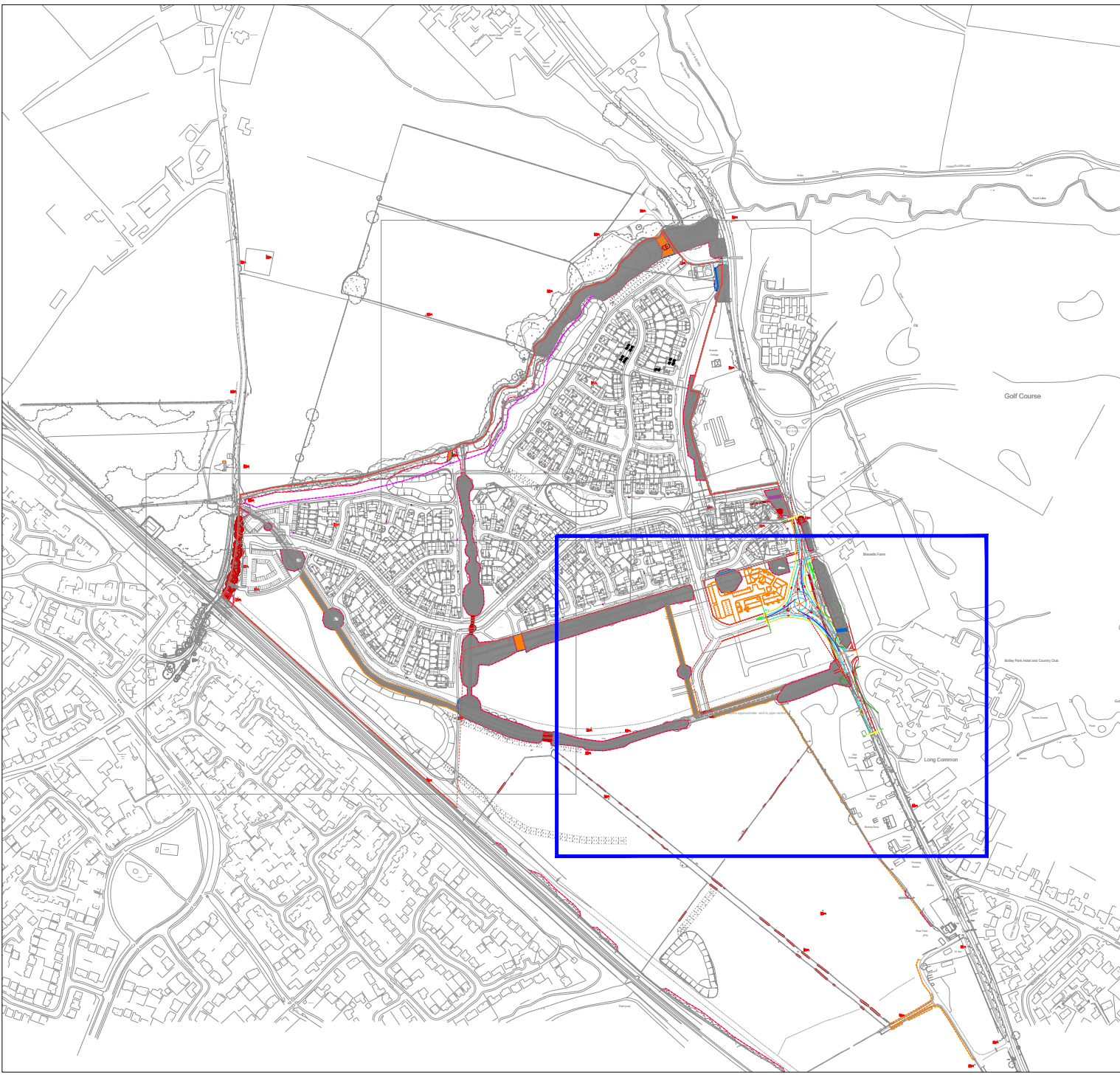
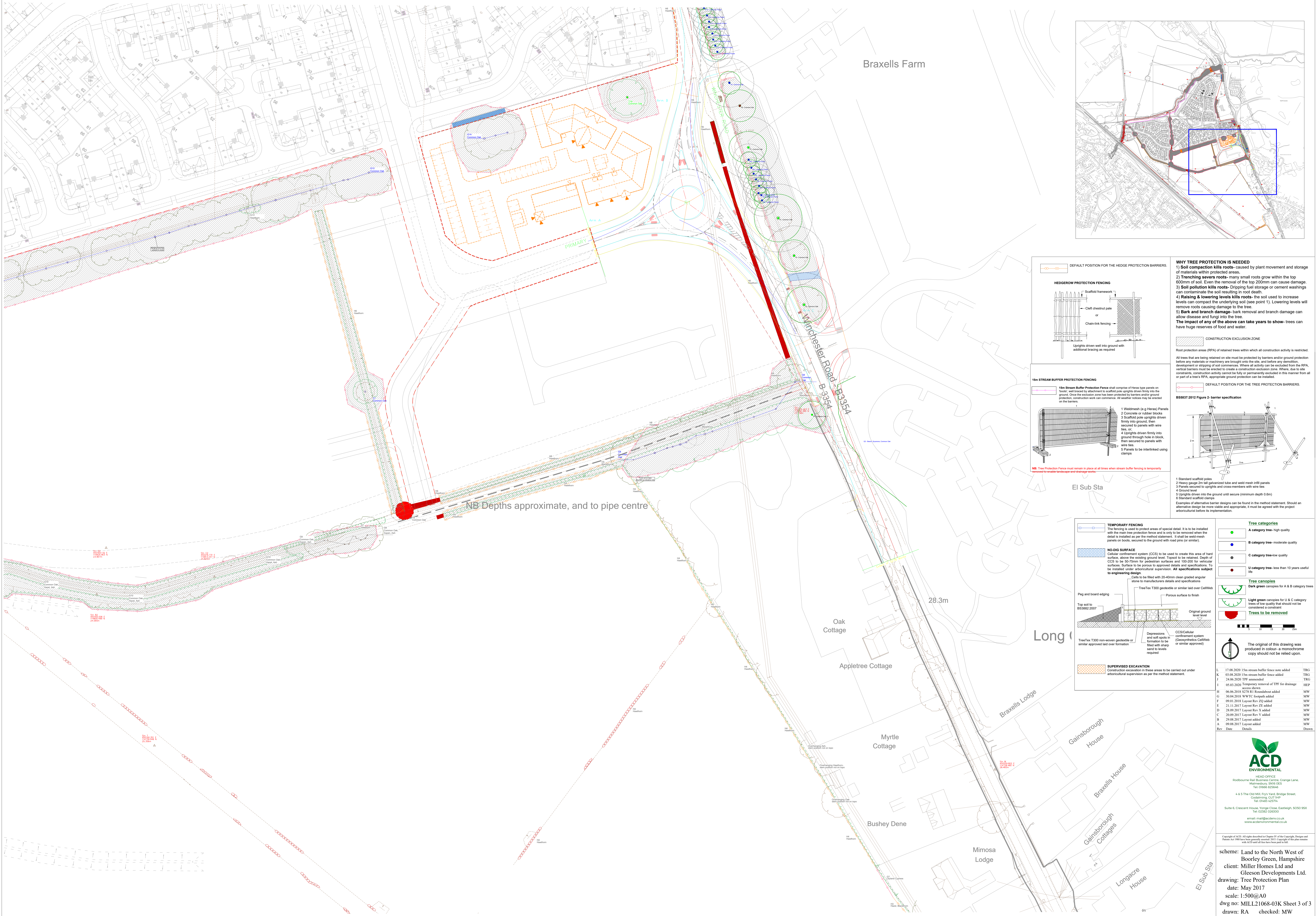
The original of this drawing was produced in colour- a monochrome copy should not be relied upon.

L	17.08.2020	15m stream buffer fence note added	TRG
K	03.08.2020	15m stream buffer fence added	TRG
J	24.06.2020	TPP amended	TRG
I	05.03.2020	Temporary removal of TPP for drainage access added	HEP
H	06.06.2018	5278 R1 Roundabout added	MW
G	30.04.2018	WWTFC footprint added	MW
F	09.01.2018	Layover Rev ZQ added	MW
E	21.11.2017	Layover Rev ZJ added	MW
D	28.09.2017	Layover Rev X added	MW
C	20.09.2017	Layover Rev Y added	MW
B	29.08.2017	Layover added	MW
A	09.08.2017	Layover added	MW
Rev	Date	Details	Drawn

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scheme: Land to the North West of Boorley Green, Hampshire
client: Miller Homes Ltd and Gleeson Developments Ltd.
drawing: Tree Protection Plan
date: May 2017
scale: 1:500@A0
dwg no: MILL21068-03G Sheet 2 of 3
drawn: RA checked: MW



DEFAULT POSITION FOR THE HEDGE PROTECTION BARRIERS.

HEDGEROW PROTECTION FENCING

Scaffold framework
Cleft chestnut pale or Chain-link fencing
Uprights driven well into ground with additional bracing as required

15m STREAM BUFFER PROTECTION FENCING

15m Stream Buffer Protection Fence shall comprise of three type points on 'bush', well secured by attachment to scaffold pole uprights driven firmly into the ground. Once the exclusion zone has been protected by barriers and/or ground protection, construction work can commence. All weather notices may be erected on the barriers.

15m Stream Buffer Protection Fence

1 Walmesh (e.g. Heral) Panels
2 Concrete or rubber blocks
3 Scaffold pole uprights driven firmly into ground, then secured to panels with wire ties, or
4 Uprights driven firmly into ground through hole in block, then secured to panels with wire ties
5 Panels to be interlinked using clamps

NB: Tree Protection Fence must remain in place at all times when stream buffer fencing is temporarily removed to enable landscaping and drainage works.

CONSTRUCTION EXCLUSION ZONE

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DEFAULT POSITION FOR THE TREE PROTECTION BARRIERS.

BS5837:2012 Figure 2: barrier specification

1 Standard scaffold poles
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4 Ground level
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6 Standard scaffold clamps

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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 on posts, 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. Topsoil 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.

TreeTex T300 geotextile or similar laid over CellWeb

Porous surface to finish

Top soil to BS3882:2007

Depressions and soft spots in formation to be filled with sharp sand to levels required

CCS/Cellular confinement system (Geotextiles CellWeb or similar approved)

TreeTex T300 non-woven geotextile or similar approved laid over formation

SUPERVISED EXCAVATION

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

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

Legend

17.08.2020 15m stream buffer fence onto added TRG
03.08.2020 15m stream buffer fence added TRG
24.06.2020 TPF amended TRG
05.03.2020 Temporary removal of TPF for drainage HEP
06.06.2018 S279 S1 Roundabout added SW
30.04.2018 WWT Footpath added MW
09.01.2018 Layout Rev ZQ added MW
21.11.2017 Layout Rev ZE added MW
28.09.2017 Layout Rev X added MW
20.09.2017 Layout Rev V added MW
29.08.2017 Layout added MW
09.08.2017 Layout added MW

Rev: Date: Details: Drawn:

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client: Miller Homes Ltd and
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drawing: Tree Protection Plan
date: May 2017
scale: 1:500@A0
dwg no: MILL21068-03K Sheet 3 of 3
drawn: RA checked: MW