



ARBORICULTURAL METHOD STATEMENT

SITE REF

Bersham Colliery,
Wrexham

ISSUE DATE

04.09.2023

SEED REF

[1650-AMS-V1]

CLIENT

Bersham (Glenside) Ltd.

ARBORICULTURAL CONSULTANCY

SEED-ARB.CO.UK



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OVERVIEW

SEED Arboriculture Ltd were commissioned to prepare an Arboricultural Method Statement in relation to the Approved Development at Bersham Colliery, Wrexham hereafter referred to as the 'Approved Development' (Ref: P/2015/0337).

The Approved Development comprises the removal of existing material and restoration of the landscape.

Condition 23 states:

"No development hereby approved shall take place until an Arboricultural Method Statement has been submitted to and approved in writing by the Minerals Planning Authority. The Statement shall identify trees to be retained during the development of the site and the steps to be taken in accordance with BS5837:2012 to protect those trees from damage or destruction caused during the carrying out of the development. Any trees identified in the Statement which become severely damaged or are destroyed as a result of the development being carried out shall be replaced with trees of such size and species, as may be specified by the Minerals Planning Authority, in the planting season immediately following such occurrences."

SURVEY APPROACH

BS5837:2012 Tree Survey: A survey was undertaken of all trees and groups of trees within influencing distance of the red-line boundary in accordance with the recommendations of BS5837:2012.

The survey was undertaken on 23rd August 2023 by George Pickering BSc (Hons). TechArborA, Arboricultural Consultant at SEED Arboriculture Ltd. George is a Technician member of the Arboricultural Association (AA) and is therefore required to uphold the professional and ethical standards within the AA Codes of Conduct. George also holds the LANTRA award in Professional Tree Inspection.

SURVEY SUMMARY

The survey recorded a total of 3no. individual trees and 14no. groups of trees comprising of 6no. category B and 11no. category C retention value.

IMPACT ASSESSMENT

In order to implement the Approved Development, there will be a requirement to remove 10no. groups of trees.

There will be no new RPA incursions as a result of the Approved Development.

RECOMMENDATIONS

FACILITATION TREE PRUNING

In order to provide sufficient clearance for construction and future use of the Approved Development, two groups of trees will require minor pruning work to be carried out.

Required tree pruning is likely to include the following:

- G1 (Mixed group) – Cut canopy back to boundary line.

- G2 (Mixed group) – Cut canopy back to boundary line.

A final specification for facilitation tree pruning should be determined by the Project Arboriculturist following a pre-commencement site meeting with the appointed contractor.

Further requirements for facilitation pruning may be identified during the course of construction and should be addressed by ongoing liaison with the Project Arboriculturist.

TREE PROTECTION

An overview of the recommended tree protection measures has been provided within this AMS. A Tree Protection Plan (TPP) is provided at Appendix 2.

To ensure all tree protection measures are implemented, arboricultural supervision should be undertaken by an appointed Project Arboriculturist (PA). The PA will be a suitably qualified arboriculturist appointed by the client / contractor / other party responsible for implementation of tree protection measures.

TREE PROTECTION FENCING

The principal protection for the retained trees is provided by Tree Protection Fencing (TPF) positioned to form a Construction Exclusion Zone (CEZ) around retained trees. No access should be allowed to the other than for operations specified in the approved documents or those agreed with the LPA later.

The indicative location of Tree Protection Fencing (TPF) is illustrated on the Tree Protection Plans at Appendix 2. The existing brook will act as a barrier for the offsite trees to the north of the site.

The CEZ must be in place prior to the commencement of construction work on site. The TPF must not be moved or relocated without approval from the Project Arboriculturist and, where necessary, approval from the Local Planning Authority.

The TPF specification should be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees.

The most common specification as illustrated in BS5836:2012 Figure 3b (Appendix 3) comprises welded mesh panels (Heras Fencing) on rubber or concrete feet, the panels should be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from within the fence. The distance between fence couplers should be at least 1m and should be uniform throughout the fence. The panels should be supported on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins. Where the fencing is to be erected on retained hard surfacing or it is otherwise unfeasible to use ground pins, e.g. due to the presence of underground services, the stabilizer struts should be mounted on a block tray.

Weatherproof signage will be attached to the fencing with words such as 'Construction Exclusion Zone – No Access'

At the end of the project the fence will be removed only after confirmation by the Project Arboriculturist and the Council that this is appropriate.

CAVEATS & LIMITATIONS

- The report is for the sole use of the client and its reproduction or use by anyone else is forbidden unless written consent is given by the author.
- This is an arboricultural report and as such no reliance should be given to comments relating to buildings, engineering, soils, ecological or archaeological data. If either is commented upon within the report further professional advice should be sought.
- All tree inspections were undertaken from ground level and no climbing inspections were undertaken.
- This is not a Tree Risk Assessment. As such this report should not be taken to mean or imply that any of the inspected trees should be considered safe. A Tree Risk Assessment can be provided but would be subject to additional survey requirement and further fees.
- Trees are growing dynamic structures. Whilst reasonable effort has been made to identify defects within the trees inspected, no guarantee can be given as to the absolute safety or otherwise of any individual tree. No tree is ever absolutely safe due to the unpredictable laws and forces of nature. As a result of this, natural failure of intact trees will occur; extreme climatic conditions can cause damage to even apparently healthy trees.

Kind Regards,



GEORGE PICKERING *BSc (Hons), TechArborA*

Arboricultural Consultant

APPENDIX 1 – TREE SCHEDULE

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
30/08/2023	Bersham (Glenside) Ltd.	Bersham Colliery	1650-TS-001-A

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T1	Pedunculate oak	<i>Quercus robur</i>	8	190	4	4	4	4	1.5	S/Mat	Good	Good	Located behind wire fence on railway embankment. Good squat form. Radial canopy. Offers good screening with adjacent railway.	No works recommended	B1, 2	18	2.40
T2	Common ash	<i>Fraxinus excelsior</i>	13	300	6	6	5	5	4	E/Mat	Fair	Fair	Located on edge of railway embankment behind wire fence. Tree showing signs of ash dieback approx 90% remaining. Heavy Epicormic growth associated with main structural limbs indicating stress.	No works recommended	C1	41	3.60
T3	Elder	<i>Sambucus nigra</i>	6	280	4	4	4	4	1	Mat	Good	Fair	Located on edge of railway embankment behind wire fence. Good radial canopy. Scrubby form.	No works recommended	C1	34	3.30
G1	Silver birch, Common hawthorn, Common ash, Pedunculate oak		Min 4 - Max 12	Min 50 - Max 300	See associated plans				0	E/Mat	Fair	Fair	Young self seeded group, mostly offsite adjacent to railway. Boundary marked with barbed wire fence. Cluster of S/Mat silver birch to the NE of group.	No works recommended	C2	See associated plans	
G2	Silver birch, Common hazel, Common hawthorn, Common ash, Pedunculate oak, Elder		Min 4 - Max 18	Min 50 - Max 400	See associated plans				0	E/Mat	Good	Good	Mix of native species, many self seeded saplings within group. Larger ash trees mostly situated roadside. Boundary fence is still visible along the lowest point of the embankment.	No works recommended	B2	See associated plans	
G3	Sycamore, Silver birch, Common hawthorn, Common apple, Elder		Min 5 - Max 18	Min 50 - Max 300	See associated plans				1	E/Mat	Good	Fair	Located on edge of road. Stream is located between group and site. Part of the screening planting for the main road. Moderate deadwood throughout.	No works recommended	B2	See associated plans	
G4	White willow		Ave 18	Min 50 - Max 350	See associated plans				0	Mat	Good	Fair	Group located next to car garage and stream. Stream separates trees from site. Moderate deadwood associated with canopies. Good screening value with garage.	No works recommended	C2	See associated plans	
G5	Silver birch, Common hazel, Common hawthorn, Pedunculate oak, Goat willow, Elder, Wych elm		Min 4 - Max 18	Min 50 - Max 400	See associated plans				0	E/Mat	Good	Good	Group situated on embankment of site, continues down to beck where the site boundary follows the beck. Mix of native trees, mostly young/ early mature. Knotweed present throughout Eastern side of group.	Remove trees to facilitate approved development	B2	See associated plans	
G6	Silver birch		Ave 6	Min 200 - Max 310	See associated plans				2.5	E/Mat	Good	Good	Located on edge of site boundary next to road. Confirm ownership. Trees are uniform in size and shape. Good radial canopies. Minor deadwood associated with canopy. Good future value.	Remove trees to facilitate approved development	B2	See associated plans	
G7	Silver birch, Common ash, Goat willow		Ave 6	Ave 100	See associated plans				1	S/Mat	Fair	Fair	Located within site boundary. Scrubby group.	Remove trees to facilitate approved development	C2	See associated plans	

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
30/08/2023	Bersham (Glenside) Ltd.	Bersham Colliery	1650-TS-001-A

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
G8	Silver birch, Common ash, Goat willow		Ave 6	Ave 100	See associated plans				1	S/Mat	Fair	Fair	Located within site boundary. Scrubby group.	Remove trees to facilitate approved development	C2	See associated plans	
G9	Common alder, Silver birch, Common ash, Pedunculate oak, Goat willow		Ave 6	Ave 100	See associated plans				1	S/Mat	Fair	Fair	Located within site boundary. Scrubby group.	Remove trees to facilitate approved development	C2	See associated plans	
G10	Field maple, Silver birch, Common hazel, Common hawthorn, Pedunculate oak, Goat willow, Elder, Wych elm		Min 4 - Max 18	Min 50 - Max 400	See associated plans				0	E/Mat	Good	Good	Group situated on north side of embankment. Visible to adjacent town and main road. Mostly comprised of young self seeded saplings. Some older silver birch and ash in group.	Remove trees to facilitate approved development	B2	See associated plans	
G11	Common alder, Silver birch, Common ash, Pedunculate oak, Goat willow		Ave 6	Ave 100	See associated plans				1	S/Mat	Fair	Fair	Located within site boundary. Scrubby group.	Remove trees to facilitate approved development	C2	See associated plans	
G12	Common alder, Silver birch, Common ash, Pedunculate oak, Goat willow		Min 3 - Max 15	Min 50 - Max 350	See associated plans				1	S/Mat	Fair	Fair	Located within site boundary. Scrubby group.	Remove trees to facilitate approved development	C2	See associated plans	
G13	Silver birch, Common hazel, Common ash, Wild cherry, Goat willow		Ave 6	Ave 100	See associated plans				1	S/Mat	Fair	Fair	Located within site boundary. Scrubby group.	Remove trees to facilitate approved development	C2	See associated plans	
G14	Silver birch, Common hawthorn, Common ash, Wild cherry, Goat willow		Ave 6	Ave 100	See associated plans				1	S/Mat	Fair	Fair	Located within site boundary. Scrubby group.	Remove trees to facilitate approved development	C2	See associated plans	



APPENDIX 2 – PLANS

TREE CONSTRAINTS PLAN
ARBORICULTURAL IMPACT PLAN
TREE PROTECTION PLAN



KEY.

Trees / Groups

Canopy Spread

Tree Stem

Root Protection Area

A Category Tree

(High quality / retention value)

B Category Tree

(Moderate quality / retention value)

C Category Tree

(Low quality / retention value)

U Category Tree

(No remaining retention value)

Hedgerows

(Not assigned BS5837:2012 category)

NOTES:
Tree locations are estimated from measurements on-site. No
topographical survey available at the time of tree survey.

Rev A	Issue to client	23.08.2023
Rev	Description	Date

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PROJECT
Bersham Colliery

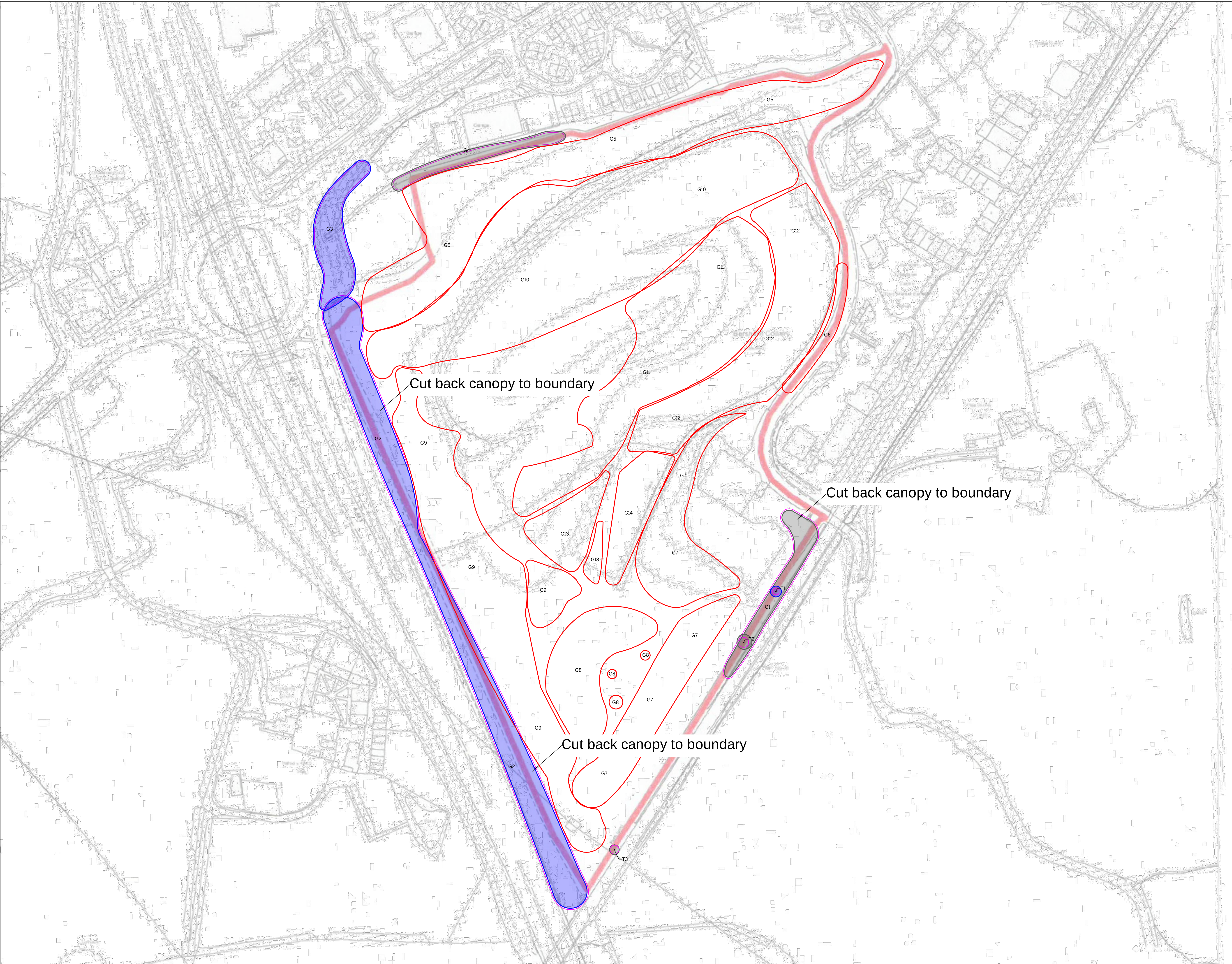
TITLE
Tree Constraints Plan

DRAWING REF
1650-TCP-001-A

SCALE
1:1250 @ A1

DRAWING NO
001

REVISION
Rev A



KEY.

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

Hedgerows
(Not assigned BS5837:2012 category)

ARBORICULTURAL IMPACT

- Group to be REMOVED

NOTES:
Tree locations are estimated from measurements on-site. No topographical survey available at the time of tree survey.

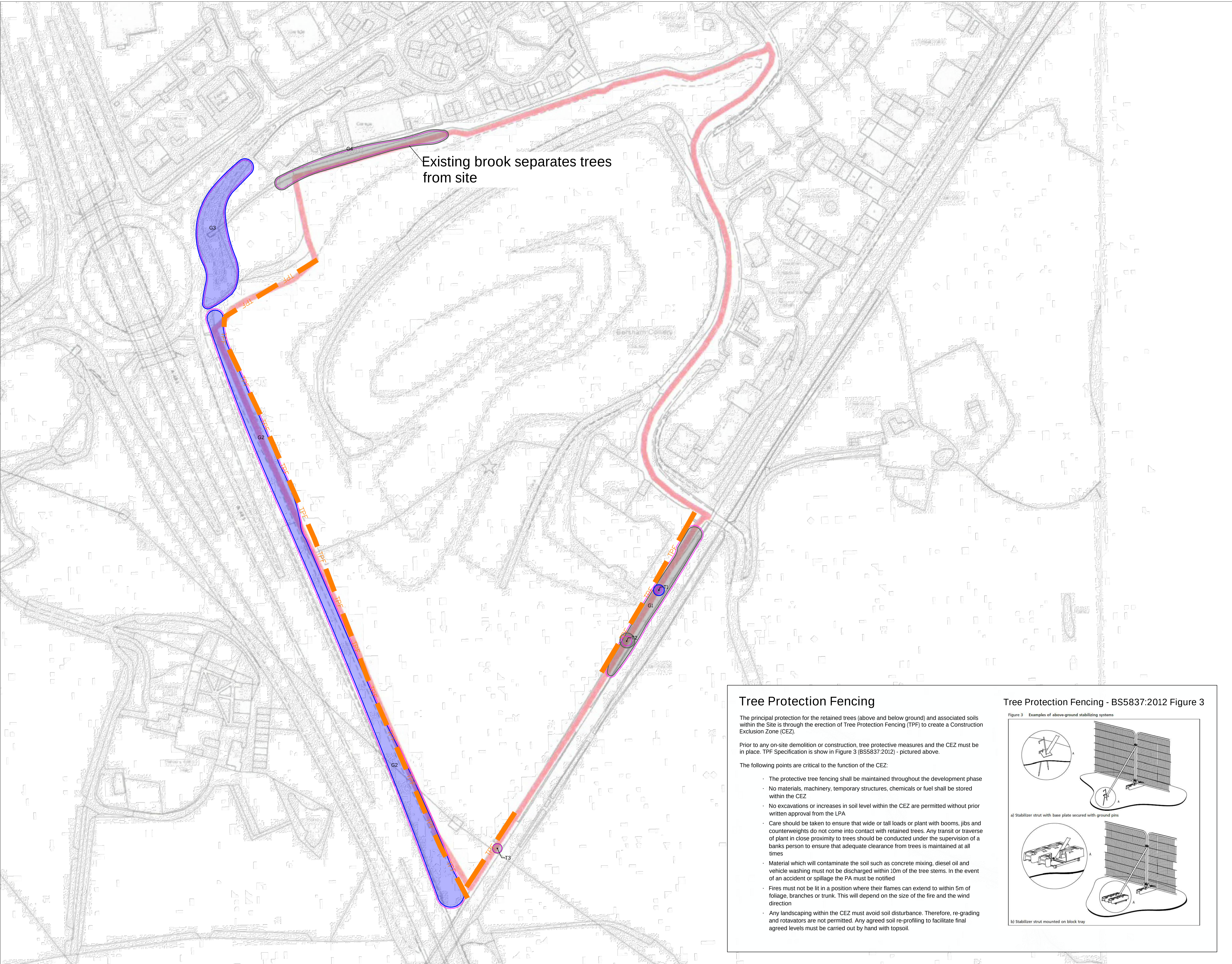
N

Rev A	Issue to client	04.09.2023
Rev	Description	Date

SEED

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PROJECT Bersham Colliery	
TITLE Arboricultural Impact Plan	
DRAWING REF 1650-AIP-002-A	DRAWING NO 002
SCALE 1:1250 @ A1	REVISION Rev A



KEY.

Trees / Groups

Canopy Spread

Tree Stem

Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

Hedgerows
(Not assigned BS5837:2012 category)

TREE PROTECTION

Tree Protection Fencing

NOTES

Tree locations are estimated from measurements on-site. No topographical survey available at the time of tree survey.

N

Tree Protection Fencing

The principal protection for the retained trees (above and below ground) and associated soils within the Site is through the erection of Tree Protection Fencing (TPF) to create a Construction Exclusion Zone (CEZ).

Prior to any on-site demolition or construction, tree protective measures and the CEZ must be in place. TPF Specification is show in Figure 3 (BS5837:2012) - pictured above.

The following points are critical to the function of the CEZ:

- The protective tree fencing shall be maintained throughout the development phase
- No materials, machinery, temporary structures, chemicals or fuel shall be stored within the CEZ
- No excavations or increases in soil level within the CEZ are permitted without prior written approval from the LPA
- Care should be taken to ensure that wide or tall loads or plant with booms, jibs and counterweights do not come into contact with retained trees. Any transit or traverse of plant in close proximity to trees should be conducted under the supervision of a banks person to ensure that adequate clearance from trees is maintained at all times
- Material which will contaminate the soil such as concrete mixing, diesel oil and vehicle washing must not be discharged within 10m of the tree stems. In the event of an accident or spillage the PA must be notified
- Fires must not be lit in a position where their flames can extend to within 5m of foliage, branches or trunk. This will depend on the size of the fire and the wind direction
- Any landscaping within the CEZ must avoid soil disturbance. Therefore, re-grading and rotavators are not permitted. Any agreed soil re-profiling to facilitate final agreed levels must be carried out by hand with topsoil.

Tree Protection Fencing - BS5837:2012 Figure 3

Figure 3 Examples of above-ground stabilizing systems

a) Stabilizer strut with base plate secured with ground pins

b) Stabilizer strut mounted on block tray

Rev A

Issue to client

Rev

Description

04.09.2023

Date

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PROJECT

Bersham Colliery

TITLE

Tree Protection Plan

DRAWING REF

1650-TPP-003-A

DRAWING NO

003

SCALE

1:1250 @ A1

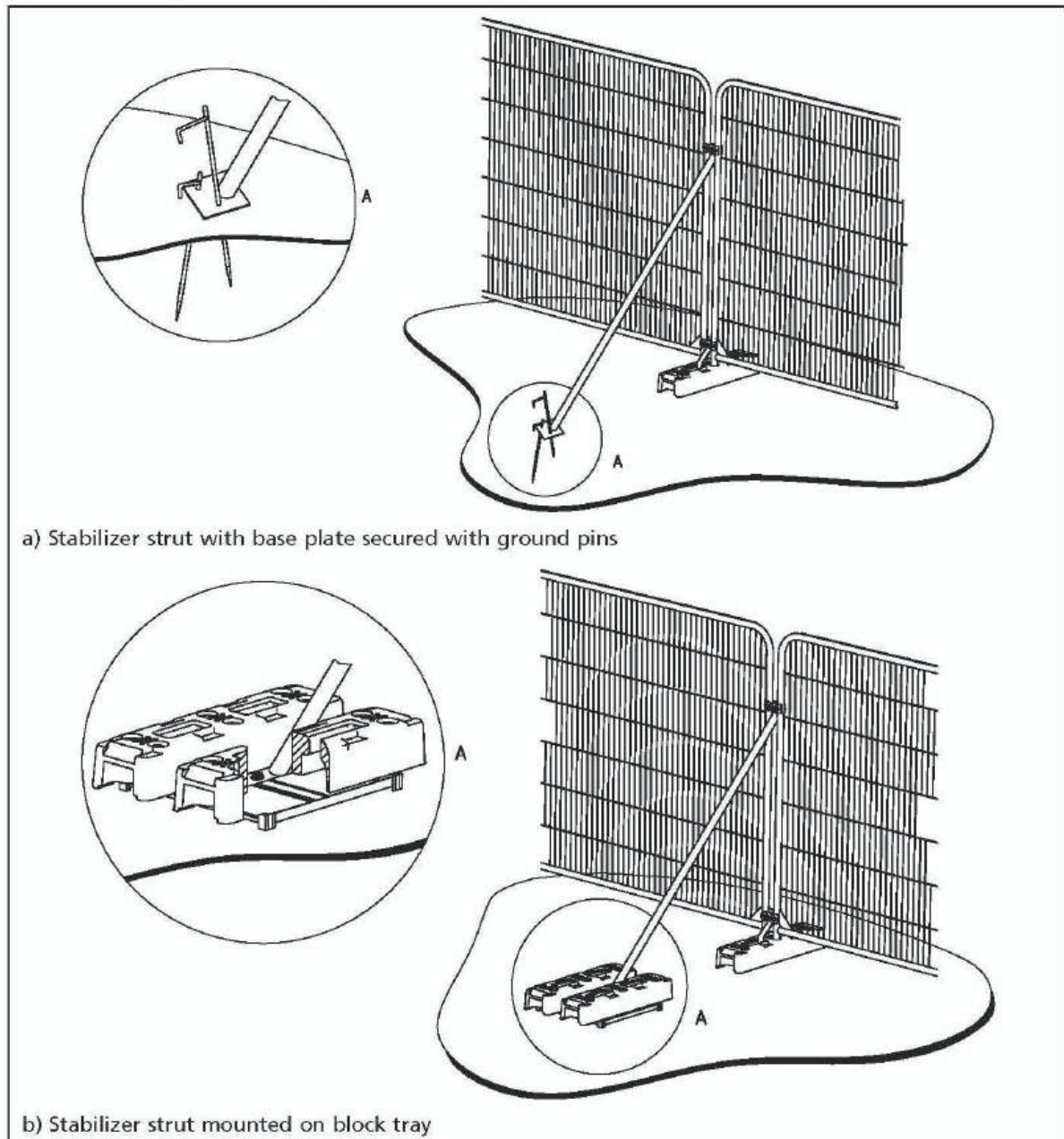
REVISION

Rev A

APPENDIX 3 – TREE PROTECTION FENCING

BS5837:2012 – Figure 3

Figure 3 Examples of above-ground stabilizing systems



TREE PROTECTION AREA



NO ACCESS - TREE PROTECTION AREA

- NO MATERIALS, MACHINERY, TEMPORARY STRUCTURES OR CHEMICALS SHALL ENTER OR BE STORED WITHIN THIS AREA
- FENCING WILL NOT BE ALTERED OR MOVED WITHOUT PRIOR AGREEMENT OF THE PROJECT ARBORICULTURIST.



TREE PROTECTION FENCING

- TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A TREE PRESERVATION ORDER.
- UNAUTHORISED DAMAGE TO PROTECTED TREES IS A CRIMINAL OFFENCE AND COULD LEAD TO ENFORCEMENT ACTION.



ARBORICULTURAL CONSULTANTS

For any issues relating to this Tree Protection Fencing or other guidance with any arboricultural matters on this development, please contact **Seed Arboriculture Ltd.**

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