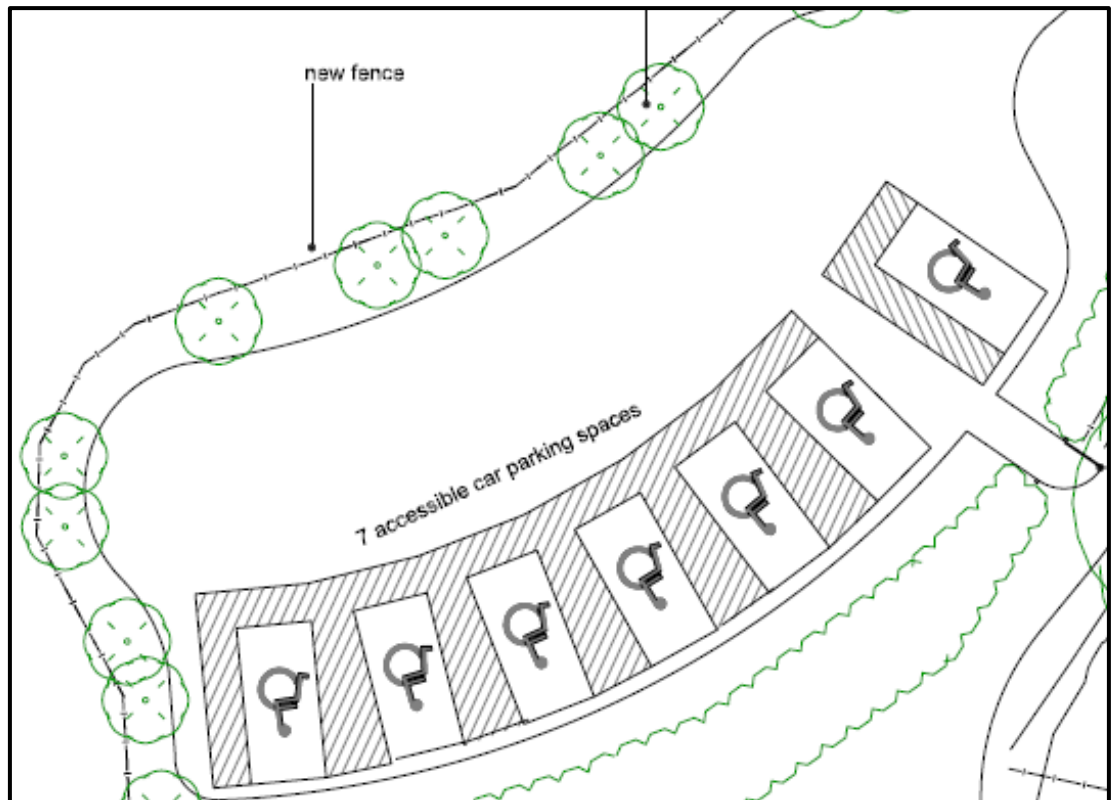
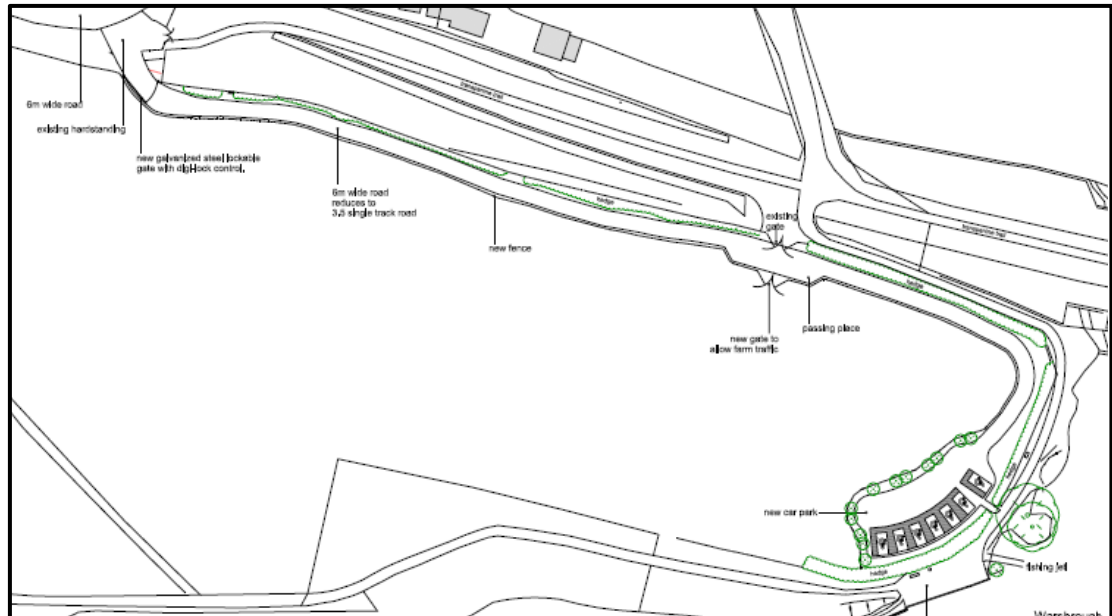


**BARNSELEY & DISTRICT AMALGAMATED ANGLERS SOCIETY
PROPOSED ACCESS & PARKING ARRANGEMENTS FOR DISABLED ANGLERS
AT WORSBROUGH RESERVOIR BARNSELEY**

1. Tree Survey and Arboricultural Impact Assessment

- 1.1. The following plan extracts show the extent of the proposed works along with a detail of the parking area close to the Reservoir. The following survey and assessment should be read in conjunction with the planning application accompanying plans and written statement (Planning Ref: 2019/1356).



2. Arboricultural Impact Assessment

- 2.1. The following report has been prepared to understand the potential impact of the proposed access works and parking arrangements on the relevant existing trees within or bordering the site of the works.

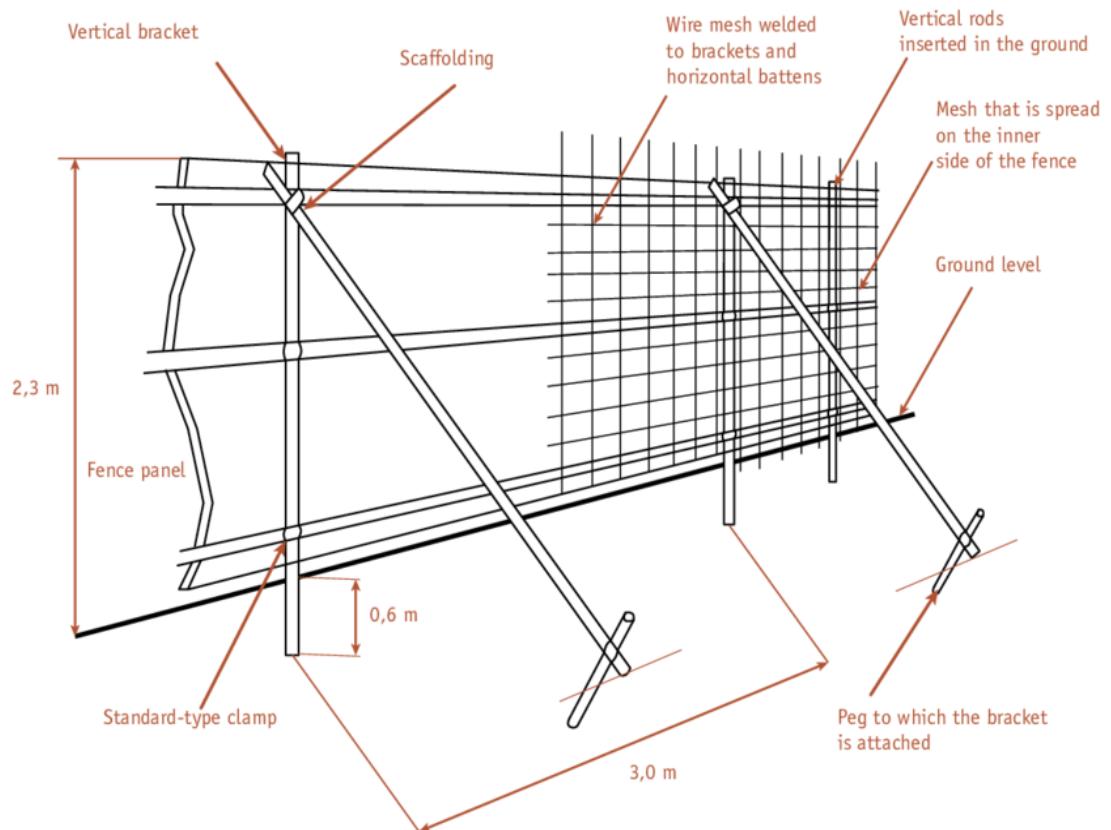
3. Impact Schedule

- 3.1. The following schedule identifies individual trees or groups and their retention category along with the element of the proposed works likely to cause impact. The tree references shown are those noted on the Tree Survey. Any mitigation measures are also noted.

REF	SPECIES	RET. CAT.	WORK ELEMENT	IMPACT	MITIGATION
T1	Sweet Chestnut	B	access ramp	minimal	protection
T2	Field Maple	B	access ramp	minimal	protection
G1	Hawthorn	U	access ramp	removal	replacement
T3	Hawthorn	B	track	minimal	possible root prune
T4	Ash	B	none	none	
T5	Ash	B	none	none	
T6	Hawthorn	B	track	none	
T7	Ash	B	track	minimal	possible root prune
T8	Ash	B/C	none	none	
T9	Willow	B/C	car park	none	
H	Hawthorn	B	track	minimal	occasional root prune
G2	Hawthorn	U	access to pegs	removal	replacement

4. Implications for Retained Trees

- 4.1. All of the trees surveyed would be retained excepting for the small isolated element of unmaintained hedgerow (G1) which is to be removed to accommodate the access from the lay-by, and the thinning part of the hedgerow (G2) to be removed and pruned back to allow access from the proposed car park to the existing fishing platform next to Worsbrough Reservoir.
- 4.2. Two trees (T1 and T2) are recommended for protection during the works. These will be protected from unwanted damage during construction with temporary tree protection barriers which are to be located on the outer edge of the tree canopy.
- 4.3. The development of the track and car park will require localised use of hand tools for excavations adjacent the field boundary hedgerow.
- 4.4. Tree protection barriers are to be the default specification as set out in BS 5837: 2012 *Trees in Relation to Design, Demolition and Construction*. Where site circumstances prevent the use of the default barrier, an alternative is to be agreed with the LPA (Tree Officer).



- 4.5. Suitable site safety notices will be attached to the barriers warning members of the public of the hazards of a construction site and of prohibited access.

5. Tree Work

- 5.1. Where pruning work to roots or branches of retained trees to facilitate the works is deemed necessary and is authorised, this should be carried out by a competent contractor in accordance with BS 3998: 2010 *Tree Works*.
- 5.2. Other than where roots are in clumps that will be essential to the health and stability of a tree, roots smaller than 25mm diameter will be pruned back where necessary making a clean cut with a suitable sharp tool.

6. Trees to be Removed

- 6.1. Two small areas of former hedgerow are to be removed in order to form the access ramp off the lay-by to the track (G1), and to accommodate the access for disabled anglers from the proposed car park to the Reservoir edge (G2).

7. Mitigation

- 7.1. Additional tree and hedge planting is proposed as part of the works. This is to be located on the outside of the proposed car park but within the protective timber post and rail fence (with stock proof panels) as shown on the plans, described in the Design & Access Statement accompanying the planning application, and in accordance with the following schedule.

Standard Trees	Common Name	Number
Acer campestre	field maple	3
Alnus glutinosa	common alder	5
Whips	Common Name	
Corylus avellana	hazel	7
Euonymus europaeus	spindle	5
Ilex aquifolium	holly	3

8. Tree Survey

8.1. The following abbreviations have been used.

T	tree	G	group
H	hedgerow	MS	multi-stemmed
Dia	girth diameter at 1.5m	Ht	height
Stem	clear before main break	Ave	average dimension
N	north	E	east
S	south	W	west

8.2. Trees were assessed visually from ground level. Where access to a tree was restricted, this is noted in the schedule.

8.3. Tree reference numbers refer to those marked on the accompanying plan. Trees were not tagged for this survey.

8.4. Stem / trunk measurement were taken with a tape at 1.5m from ground level in accordance with Appendix C of the British Standard.

8.5. Canopy spread was measured with an electronic distometer. Where electronic measures were impeded, spread and height were estimated.

8.6. Tree age has been based on the typical longevity of the particular species. Age classes are as follows.

Y	young
SM	semi-mature
M	mature
OM	over-mature
V	veteran

8.7. The physiological condition of a tree is an assessment of its likely health, vigour and stress. The classes for physiological condition are as follows.

G	Good - generally in a healthy condition
F	Fair - satisfactory although below mean species performance
P	Poor - in decline; damaged or defective; short life-span
D	Dead - completely or for the most part lifeless

- 8.8. Structural condition includes an assessment of tree form, visible defects, irregularities and influencing factors. There has been considerable rabbit damage to young self-set trees along the adjoining section of the TPT while some of the hawthorn field boundary does not appear to have seen any regular maintenance (other than rough cutting) for some time.
- 8.9. Life expectancy is the estimated remaining contribution in years, e.g. <10, 10+, 20+, 40+.
- 8.10. Retention Categories for each tree have been assessed in accordance with BS 5837: 2012 as follows.

- Category A** trees of high quality with an estimated remaining life expectancy of at least 40 years.
- Category B** trees of moderate quality with an estimated remaining life expectancy of at least 20 years.
- Category C** trees of low quality with an estimated remaining life expectancy of at least 10 years OR young trees with a stem diameter below 150mm.
- Category U** trees in such a condition that they cannot realistically be Retained as living trees in the context of the current land use for longer than 10 years; trees unsuitable for retention.

9. Tree Data

REF	SPECIES	HT (m)	DIA (mm)	STEM (m)	SPREAD (m)				AGE	PHYS. COND	OBSERVATIONS AND COMMENT	RET. CAT
					N	E	S	W				
T1	Sweet Chestnut	11	900	MS	3.5	3.5	3.0	3.0	SM	F	Low split leader; cavity	B
T2	Field Maple	7.5	600	1.0	2.0	2.0	1.8	2.0	SM	F/P	Occlusion at base	B
G1	Hawthorn	5	Hedge	MS	1.5	H	1.0	H	M	F/P	Overgrown hedge; formerly cut at 1.2m	U
T3	Hawthorn	4	500	800	2.0	2.0	2.0	2.0	SM	F		B
T4	Ash	14	900	MS	5.0	4.0	4.0	4.0	SM	F/P	Multi stemmed from base; cavities	B
T5	Ash	13	800	MS	4.0	3.5	3.5	4.0	SM	F/P	Multi stemmed from base; cavities	B
T6	Hawthorn	4	500	1000	1.5	1.5	1.8	1.8	SM	F		B
T7	Ash	13	900	800	4.0	2.5	4.0	2.5	SM	F		B
T8	Ash	15	1500	MS	7.0	6.5	7.0	7.0	M	F	Multi stemmed from base; cavities	B/C
T9	Willow	16	2000	MS	11.0	7.5	8.0	10.0	M	F	Multi stemmed from base	B/C
H	Hawthorn		Hedge	MS	1.5	H	1.0	H	M	F	Field boundary hedgerow	B
G2	Hawthorn	4	Hedge	MS	H	0.5	H	0.5	M	P	Thin part of hedgerow	U

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