

ARBORICULTURAL IMPACT ASSESSMENT

The layout has been developed considering a number of factors including engineering levels, access roads, connection to highway, parking provision, architectural massing, service easements and tree constraints etc.

To achieve a viable layout will require the removal of 2 No trees and 1 hedge, all of which are graded low quality (category C):

- H2 Leyland Cypress Hedge, which is clipped
- T4 Sycamore, which contains deadwood and cavities
- T8 Elder which has been previously coppiced to ground

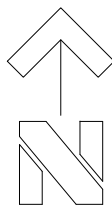
Additionally the following works are proposed to retained trees which are in close proximity to the proposed building. Both are graded low quality (category C):

- T15 Sycamore, 20% all over canopy reduction to compensate for 16% loss in RPA
- T17 Sycamore, 2m canopy reduction to south-west to clear proposed site building

All other trees will be retained. The proposed development has the potential to impact on the retained trees and protective fencing will be erected to surround all retained trees. Fencing is not considered necessary adjacent to H1 or H9 as the clipped edge providing suitable protection to the RPA extent. Omitting fencing here will also minimise disruption to the footpath.

The proposed fencing will be positioned 500mm away from the proposed retaining wall on the downwards side to facilitate construction. This area is to be pedestrian only and constructed of single thickness of scaffold boards placed on top of 100mm depth of compression resistant material (e.g. woodchip) laid onto a geotextile membrane.

The removal of the low quality trees can be mitigated through standard garden planting and through a scheme of long term woodland management.



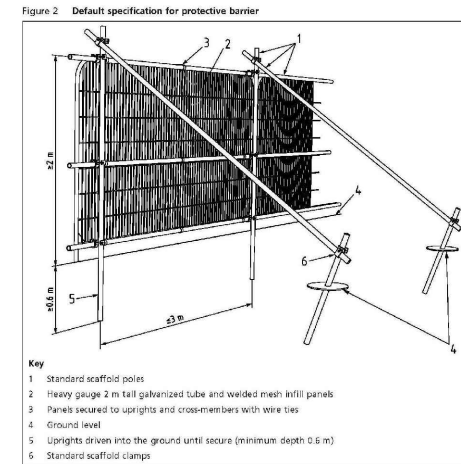
Scale 1:200

0 2 4 6 8 10 [m]



ID	TREE SPECIES Common Name	TREE SPECIES Scientific Name	HEIGHT m	SPREAD m	Clear stem (m)	DB mm	N	CAT.	Life Stage	Life exp yrs	NOTES	RECOMMENDATIONS
H1	Leyland Cypress	Chamaecyparis lawsoniana	2	1.5	100			C2	Early-Mature	40+	Clipped	
H2	Leyland Cypress	Chamaecyparis lawsoniana	2	1	100			C2	Early-Mature	40+	Clipped	FELL to enable adjustment to retaining wall
T3	Deodar Cedar	Cedrus deodara	12	8	4	400		B2	Semi-Mature	40+	Previous pruning work at lower story. Bird Bx on trunk. Below 1m retaining wall	
T4	Sycamore	Acer pseudoplatanus	7	7	3	220		C2	Early-Mature	10-20	Cavities, deadwood	FELL to enable building development
T5	Leyland Cypress	Chamaecyparis lawsoniana	7	2	2	200		C2	Early-Mature	40+		
T6	Beech	Fagus sylvatica	14	10	2	300	N	A2	Mature	40+	Multi-stem, previous pruning work	
T7	Sycamore	Acer pseudoplatanus	6	5	2	200		C2	Early-Mature	40+	Previous pruning work	
T8	Elder	Sambucus nigra	3	2	200			C2	Early-Mature	40+	Coppiced	FELL to enable building development
H9	Cherry Laurel	Prunus laurocerasus	3	2	100			C2	Early-Mature	40+	Clipped	
T10	Goat Willow	Salix caprea	8	8	350			C2	Semi-Mature	40+	Multi-stem	
T11	Hawthorn	Crataegus monogyna	12	10	2	400		C2	Semi-Mature	40+	Previous pruning work	
T12	Silver Birch	Betula pendula	12	6	4	300		C2	Early-Mature	40+	by covered stem	
T13	Sycamore	Acer pseudoplatanus	14	10	4	650	N	C2	Mature	40+		

ID	TREE SPECIES Common Name	TREE SPECIES Scientific Name	HEIGHT m	SPREAD m	Clear stem (m)	DB mm	N	CAT.	Life Stage	Life exp yrs	NOTES	RECOMMENDATIONS
G14	Hawthorn	Crataegus monogyna	5	3	100-150			C2	Early-Mature	20-40	Multi-stem, on bank	
T15	Sycamore	Acer pseudoplatanus	14	10	580	N	C2	Mature	40+		20% all over canopy reduction to compensate for 16% loss in RPA	
T16	Sycamore	Acer pseudoplatanus	14	8	500	N	C2	Semi-Mature	40+		Twin, ivy covered stem, on bank	
T17	Sycamore	Acer pseudoplatanus	12	8	400	N	C2	Semi-Mature	40+		Previous pruning work, on bank	
G18	Sycamore	Acer pseudoplatanus	12	8	250			C2	Early-Mature	40+	2 trees, ivy covered stems, on bank	
T19	Oak	Quercus robur	14	6	4	200		C2	Early-Mature	40+	On bank	
T20	Sycamore	Acer pseudoplatanus	14	10	2	500		C2	Semi-Mature	40+	Previous pruning work, on bank	
G21	Hawthorn	Crataegus monogyna	5	3	200			C2	Early-Mature	40+	2 trees, multi-stem, on bank	
T22	Oak	Quercus robur	16	10	3	600		B2	Semi-Mature	40+	Some deadwood, on bank	
T23	Alder	Alnus glutinosa	12	8	300			C2	Early-Mature	40+		
G24	Sycamore	Acer pseudoplatanus	14	8	350	N	C2	Early-Mature	40+		3 trees, multi-stem, on bank	
T25	Oak	Quercus robur	6	3	2	300		C2	Early-Mature	40+	Pollarded	
T26	Cork screw hazel	Corylus avellana contorta	5	4	250			C2	Early-Mature	40+		



BS5837:2012 Figure 2

TREE SURVEY TO BS5837:2012

KEY

COLOUR	QUALITY	DESCRIPTION
GREEN	A: HIGH retention most desirable	Vigorous healthy good form, visually important, historic or rare
BLUE	B: MODERATE retention desirable	Slightly impaired condition, numerous immature, A' potential
GREY	C: LOW could be retained	Adequate condition requiring minimal surgery
RED	U: FELL Unsuitable for retention	Dead dying, dangerous insecure rooting, significant fungal disease

SHRUBS

SUB-CATEGORY:

- 1 ARBORICULTURAL
- 2 LANDSCAPE
- 3 CULTURAL/CONSERVATION

--- Site Boundary

In accordance with BS5837:2012 'Trees in relation to design, demolition and construction', offsite trees within a distance equal to 12x stem diameter from boundary should be surveyed. In accordance with good working practice, all trees within 12m of the site boundary have been surveyed.

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

LIMITATION OF THIS SURVEY
This survey records amenity quality and desirability of tree retention in relation to proposed construction by visual inspection from ground level where accessible.

It does not constitute a Tree Inspection or detailed report on condition.

Tree heights and spread approximate. The diameter of single stem trees is taken at 1.5m above ground level. For the diameter of multistemmed trees, each multistem is measured at 1.5m above ground level and calculated to give a notional diameter as if all multistems were fused into one stem.

The branch spread is an accurate representation of the crown as clause 4.4.2.5 (e)

Tree inspections should take place annually in September/October when trees are in leaf.

Tree positions are based on topographic survey drawing number 22122-22-01 produced by CODA Bespoke dated 11-03-22

TREE CONSTRAINTS

- ROOT PROTECTION AREA (RPA)
Root Protection Areas have been calculated on the following basis:
Area equivalent to circle of radius 12 x stem diameter at 1.5m
- Root Protection Areas shaped due to obstruction to root spread e.g. retaining wall, water course.
RPA of pollarded or topped trees has been reduced to an area appropriate to actual canopy spread.

TREE PROTECTION

- TREES TO BE REMOVED (with root protection area)
- Scaffold Protective Fence as BS5837:2012 Figure 2
- Pedestrian ground protection during construction in accordance with BS5837:2012 Section 6.2.3

Based on CODA Proposed Site Plan, Received 08-01-2024

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Job RILEY PARK, KIRKBRURTON, HUDDERSFIELD

Title **TREE PROTECTION PLAN AND ARBORICULTURAL IMPACT ASSESSMENT**

scale	drawn	date	job number	number	revision
1:250	IG	FEB 24	1387	003	-