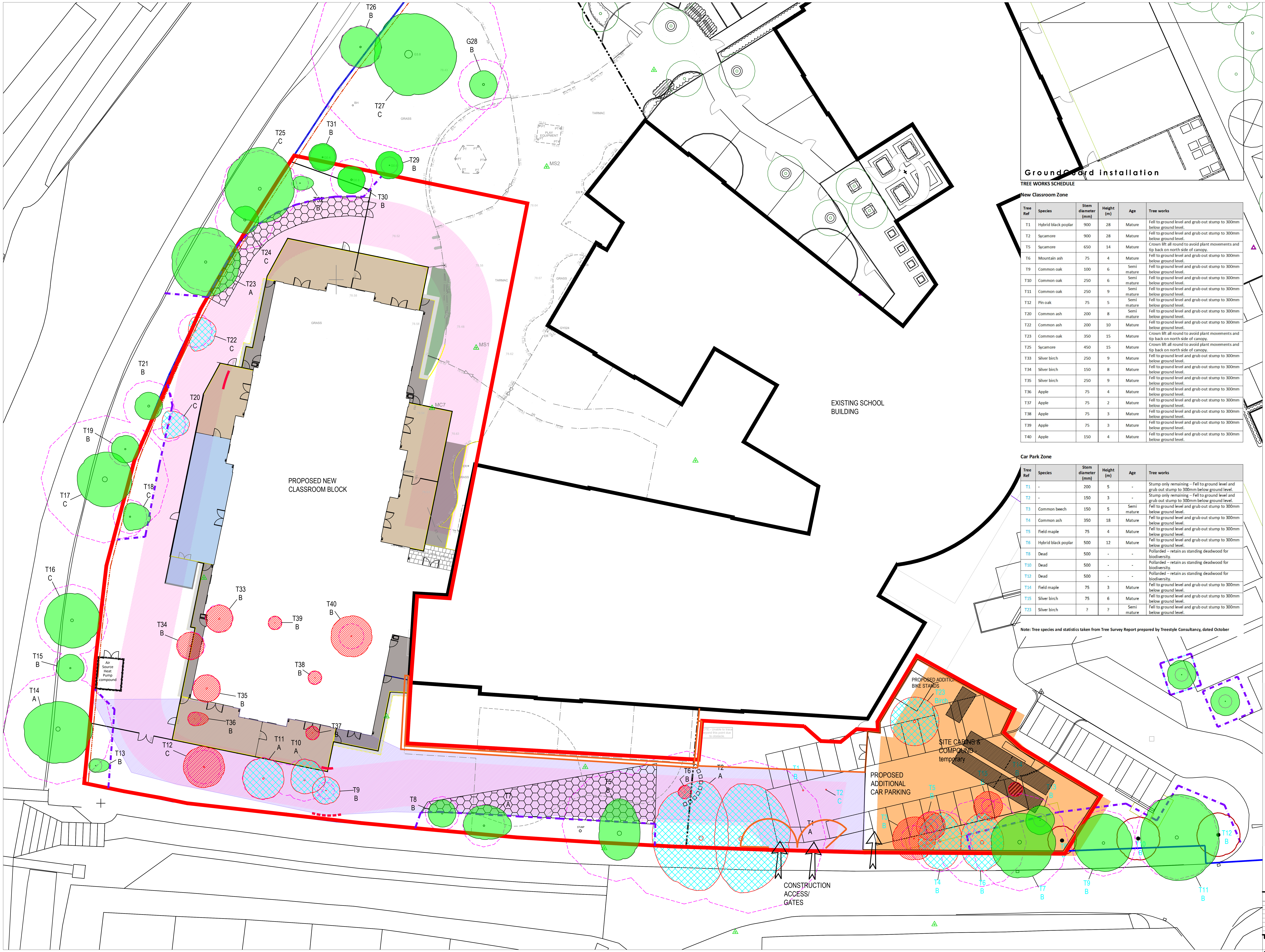


KEY

- 🔴 Existing tree to be removed due to condition and planning consent
- 🔵 Additional existing tree removed due to construc requirements (haul road, offloading zones, gated access and impaired by car park bays)
- ⭕ Existing dead tree retained as standing deadwoc
- 🟢 T9 B Existing tree to be retained and protected where required plus reference no. to tree report by others
- ◌ Root Protection Area (RPA)
- 🟪 Haul road - site plant to this area
- 🟪 Area for off loading and site and open traffic to this area
- ▦ Root Protection GroundGuard mats - Maxi Track heavy duty 1.8m x 0.9m temporary track way installed to suppliers specifications over Root Protection Area
- 🟧 Contractor's compound for construction phase - temporary
- ┅ Alignment of Tree Protection Fencing
- ─ Site boundary

TREE WORKS SCHEDULE

New Classroom Zone

Tree Ref	Species	Stem diameter (mm)	Height (m)	Age	Tree works
T1	Hybrid black poplar	900	28	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T2	Sycamore	900	28	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T5	Sycamore	650	14	Mature	Crown lift all round to avoid plant movements and tip back on north side of canopy.
T6	Mountain ash	75	4	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T9	Common oak	100	6	Semi mature	Fell to ground level and grub out stump to 300mm below ground level.
T10	Common oak	250	6	Semi mature	Fell to ground level and grub out stump to 300mm below ground level.
T11	Common oak	250	9	Semi mature	Fell to ground level and grub out stump to 300mm below ground level.
T12	Pin oak	75	5	Semi mature	Fell to ground level and grub out stump to 300mm below ground level.
T20	Common ash	200	8	Semi mature	Fell to ground level and grub out stump to 300mm below ground level.
T22	Common ash	200	10	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T23	Common oak	350	15	Mature	Crown lift all round to avoid plant movements and tip back on north side of canopy.
T25	Sycamore	450	15	Mature	Crown lift all round to avoid plant movements and tip back on north side of canopy.
T33	Silver birch	250	9	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T34	Silver birch	150	8	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T35	Silver birch	250	9	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T36	Apple	75	4	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T37	Apple	75	2	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T38	Apple	75	3	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T39	Apple	75	3	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T40	Apple	150	4	Mature	Fell to ground level and grub out stump to 300mm below ground level.

Car Park Zone

Tree Ref	Species	Stem diameter (mm)	Height (m)	Age	Tree works
T1	-	200	5	-	Stump only remaining – Fell to ground level and grub out stump to 300mm below ground level.
T2	-	150	3	-	Stump only remaining – Fell to ground level and grub out stump to 300mm below ground level.
T3	Common beech	150	5	Semi mature	Fell to ground level and grub out stump to 300mm below ground level.
T4	Common ash	350	18	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T5	Field maple	75	4	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T6	Hybrid black poplar	500	12	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T8	Dead	500	-	-	Pollarded – retain as standing deadwood for biodiversity.
T10	Dead	500	-	-	Pollarded – retain as standing deadwood for biodiversity.
T12	Dead	500	-	-	Pollarded – retain as standing deadwood for biodiversity.
T14	Field maple	75	3	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T15	Silver birch	75	6	Mature	Fell to ground level and grub out stump to 300mm below ground level.
T23	Silver birch	?	?	Semi mature	Fell to ground level and grub out stump to 300mm below ground level.

Note: Tree species and statistics taken from Tree Survey Report prepared by Treestyle Consultancy, dated October

NOTES:

Protection and Retention of Existing Vegetation
The Contractor shall exercise extreme care when performing operations beneath the canopy of existing trees which may be outside Tree Protection Barriers. Damage to roc branched shall be avoided.

All excavations, cultivations and grading which has been agreed within the Root Protection Areas of existing retained trees shall be carried out using hand tools, taking care damage existing tree roots.

All trees retained on site shall be protected with a Heras type barrier as detailed. The barrier shall be installed, protected and maintained during the main construction works Contractor who shall be responsible for protecting any area beneath the canopy of existing trees and within the specified Root Protection Area.

Repositioning the Protection Barrier as the contract work progresses shall be agreed with the consultant Arboriculuralist and the Local Authority/Tree Offficer.
At the end of the contract period the Contractor shall remove the protection barrier from the site.

HERAS TYPE PANEL PROTECTIVE BARRIER
To be generally in accordance with the recommendations of BS 5837:2012

- 2000mm high to be installed in the location indicated on the plan or a minimum 1.0m distance from the outer edge of the tree canopies unless otherwise indicated.
- All weather notices are to be fixed to the protective barrier to explain the reason for the barrier and to deter access within the protective zone.
- The barrier is to remain in place and be maintained throughout the contract/construction period. At no time will the alignment of the protection barrier be altered barrier taken down.
- The alignment of the protective barrier shall be approved by the Local Planning authority/Tree Officer prior to the commencement of construction works on site.

TREE PROTECTION ZONE
Within the Protection Zone the following shall be observed:

- Existing soil levels shall remain undisturbed.
- Any work agreed to be undertaken by the Local Authority/Tree Officer shall be carried out by hand, under the supervision of the arboriculturalist.
- All haulage routes and contractors' compounds, storage facilities etc. shall be kept outside the protection zone.

PROTECTION OF EXISTING TREES: GENERAL REQUIREMENTS
In compliance with good practice, during all construction works, the following precautions shall be taken to avoid damage to trees:

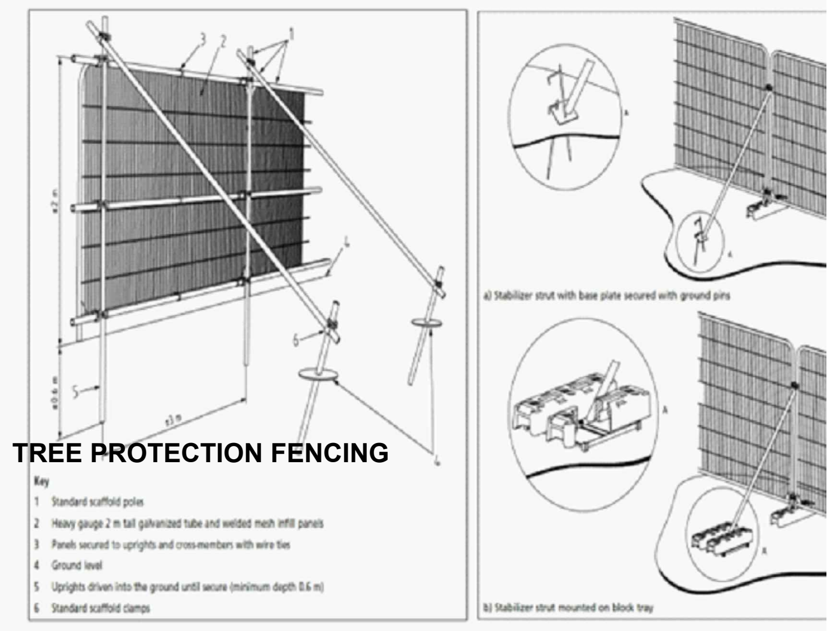
- No traffic over the rooting parts of trees.
- No soil, debris or building material to be deposited against the trunk of a tree.
- No building materials to be stored beneath the canopy of trees.
- No excavation within the branch spread of trees. No drain trenches shall be made which may severe roots.
- No fires to be lit with 5.0m of the edge of the canopy of trees.
- Oil, bitumen, cement or other material likely to be injurious or phytoxic to a tree shall be stored a minimum 10.0m from all trees.
- No concrete mixing shall take place within 10.0m of a tree.
- No generators or static machinery to be operated below branch spreads.
- No raising or lowering of ground levels beneath the spread of the tree.
- No cutting of branches or roots except by a specialist.
- No trees to be used as an anchor for winching purposes.
- No site/signage boards, telephone cables or any other services shall be attached to trees.
- Dead, dying and diseased branches will be removed from trees being retained only as specified.
- Tree surgery work to trees to be retained, shall be carried out following advice from a qualified arboriculturalist.

SPECIFICATION FOR BARRIER

- All trees to be retained on site shall be protected by Heras type fencing (2.0m high) affixed to scaffold pole supports generally in accordance with BS 5837:2012.
- The location and alignment of the protective barrier shall be in accordance with the details contained on the drawing.
- The protective barrier shall be erected before any machinery or materials are brought onto site and before any demolition or development commences.
- No construction works, excavation or ground alterations shall be carried out within the protection zone.
- Care shall be exercised when using cranes or similar equipment in the vicinity of the tree to avoid damage to the canopy.
- The protective barrier shall not be removed, or its line altered, without prior agreement with the Local Authority/Tree Officer.
- The protective barrier shall be maintained for the duration of all construction works.
- All works shall be completed within the protection area prior to the removal of the protection barrier.

ESSENTIAL WORK IN THE RPA
The objective of the protective barrier is to protect as large an area around the trees, above and below ground, as possible in order to minimise the risk of damag construction phase. However if, after consideration of all alternatives, it proves essential for construction, excavations or service trench works need to be carried c protection area around a tree, specialist design advice shall be sought from the contract supervisor who will consult an Arboricultural Consultant to minimise disturban root system. All works shall be agreed in writing with the Local Authority/Tree Officer before work commences. Any materials required will be transported into the prote wheelbarrow. At no time will machinery or heavy plant be allowed into the protection area.

MONITORING AND REPORTING DAMAGE
All barriers shall be checked daily by the contract's manager. Any breach of the protection area or damage to the barrier or damage to retained trees shall be photogra the Project Manager/Arboriculturalist on the same day.


TREE PROTECTION FENCING
≥2 m
≥0.6 m
≤3 m
Key
1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded 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 0.6 m)
6 Standard scaffold clamps
a) Stabilizer strut with base plate secured with ground pins
b) Stabilizer strut mounted on block tray

REVISIONS

P1	STAGE 4 ISSUE	05.03
A	Distinction between trees to be removed.	26.02

Project
MILLWOOD SPECIAL PRIMARY SCHOOL, RADCLIFFE

Title
Tree Removal/ Retention Plan and Tree protection

Client
BRADSHAW GASS AND HOPE

Date February 2024		**Scale** 1:250@A1	
Drawn LAC	**Checked** DS	**Drawing No.** 2493_01	ACONEX REFERENCE MSE-BGH-XX-XX-DR-A-2104
Stage Stage 4	**Status** Planning	**Revision** A	P1

Landscape Institute
Registered practice

c Appletons Landscape Architects and Environmental Consultants
17 Chorley Old Road, Bolton BL1 3AD. Tel: 01204 39300
Web:www.appletons.uk.com Email: info@appletons.uk

Millwood Special Primary School, Radcliffe
Tree removal / retention plan and Tree protection