

Duxford Community CofE Primary School

**ARBORICULTURAL METHOD STATEMENT &
TREE PROTECTION PLAN**

MARCH 2022 – 2nd ISSUE

**PROPOSED NEW EXTENSION TO EXISTING SCHOOL AND FREESTANDING PRESCHOOL TO REPLACE FIRE
DAMAGED ACCOMMODATION**



**1ST FLOOR, BUILDING 3000, CAMBRIDGE RESEARCH PARK, BEACH DRIVE,
WATERBEACH, CAMBRIDGE, CB25 9PD**

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This Tree Protection Plan has been produced by Kier Construction Eastern for the proposed new extension to the main building and freestanding Preschool to replace the fire damaged accommodation. The document is to be read in conjunction with the arboricultural survey undertaken by Geosphere Ref: 5541,EC,AR-ARB-TC,RF,KL-06-10-21.V2 - Duxford CE School_Optimized

An Arboricultural Method Statement details the methodology for the implementation of any aspect of development, that has the potential to result in the loss of or damage to a tree and explains how this damage will be avoided.

Trees are particularly vulnerable on development sites and may be affected either immediately if removal or pruning is necessary to accommodate a development, or in the longer term. The Tree protection Plan provides information on the protection to retained trees within the development and mitigation is stated within the report.

1.0 INTRODUCTION & TIMELINE

This document forms part of an application for approval of proposed development at Duxford Community CofE Primary School. It comprises an outline method statement for protecting retained trees during construction.

Protective fencing will be installed to sensitive areas as enabling works to the contract commencement and prior to any works commencing on site. Establishing the tree protection as a first operation will safeguard trees from any potential damage from pre-start stage and fencing will remain in place until contract completion is achieved.

The document is to be read in conjunction with the arboricultural survey undertaken by Geosphere Ref: 5541,EC,AR-ARB-TC,RF,KL-06-10-21.V2 - Duxford CE School_Optimized.

2.0 SITE & DEVELOPMENT DESCRIPTION, LOCATION AND SURVEY EXTENT

See Figure 1 for the site boundary (in red) and CCC ownership boundary (in blue).

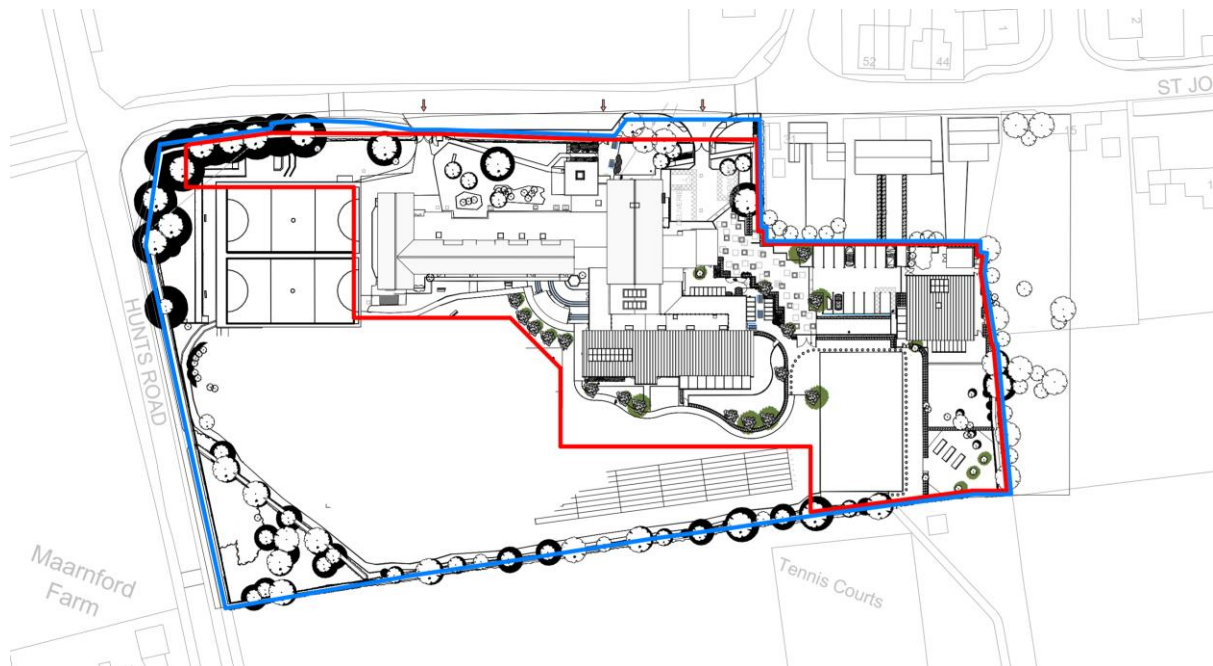


Figure 1: Site Boundary Plan

2.1 EXISTING CAR PARK AND PATHS REINSTATEMENT WORKS

The existing car park and pathway at the main entrance of the site is beyond its economic life and considered hazardous. The proposed works involved for this development includes reinstatement of the car park and path.



Figure 2: Existing Car Park



Figure 3: Existing Path

The works around this area will involve minimal construction as the existing car park and pathway are being reinstated. The car park size will be maintained, and the path track will be followed, meaning the size of both areas will not be increased. Car park levels increase slightly to respond to wider design requirements. This minimises the risk of impact to the tree roots and the mitigation strategies outlined within this report will be followed.



Figure 4: Existing Car Park



Figure 5: Proposed Car Park

Further measures that will be adopted to ensure there is no damage to trees and their roots are outlined within this report.

2.2 SOAKAWAY INSTALLATION

The proposed design includes for the installation of 4no Soakaway Units. All Soakaways are installed away from existing retained trees and proposed new trees.

There is one location (North West of the Site – as shown in Figure 4) where a drainage run associated with 1 of the Soakaway units (Soakaway 3) runs under a tree canopy within the permitted 'Green Zone'. Mechanical Plant will be strictly limited in this area and this will be hand dug only. There is some flexibility in where the pipe run can be placed. Should tree roots be discovered whilst hand dig is undertaken in this area the arboriculturist will be consulted and appropriate mitigations implemented.

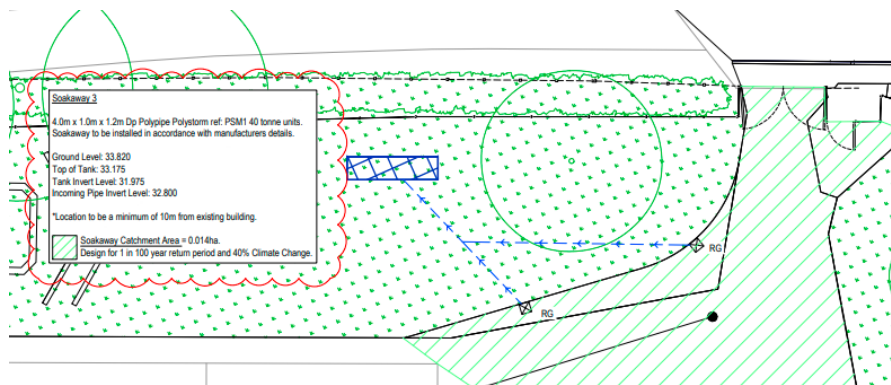


Figure 6: Soakaway 3

3.0 PLANNING DESIGNATIONS AND CONSTRAINTS

The site is not within a conservation area. None of the trees within the site or adjacent to it are protected by Tree Preservation Orders (TPOs) at present.

4.0 PROPOSED BUILDINGS

Appendix A shows the proposed development, comprising of a new extension to existing school and a standalone Preschool.

Access for construction will be through the existing main vehicular entrance gate to the North of the site, off St John's Street. This will become the entrance to the car park upon completion of the works.

See Appendix B for the Site Set Up Plan and Appendix C for the tree protection plan.

5.0 ARBORICULTURAL METHOD STATEMENT

This outline method statement describes how the retained trees at Duxford Community CofE Primary School will be protected and managed during the intended development of the site described above. A copy will be permanently available on site for the duration of the development activity.

5.1 Construction Exclusion Zone (CEZ)

The contractor will erect protective barriers to create the construction exclusion zone (CEZ) at the very start of site set up and prior to any works commencing. The contractor will have sole occupation of the car park area for the duration of the works. A full time gate person will be located at the entrance to the site during working hours.

Tree protection barriers will be as described in BS5837:2012 (see Figure 2 below) or equivalent approved by the arboricultural consultant.

All protective barriers will be checked daily by the site project manager to ensure integrity is maintained for the duration of the works. The barriers will be removed only after all construction work has completed and when the site compound has been vacated and handed over to the end user.

Tree protection protocols will be shared with all operatives via toolbox talks.

The main trees to be protected are G8, G13, G12, T26-27, T29, and T34.

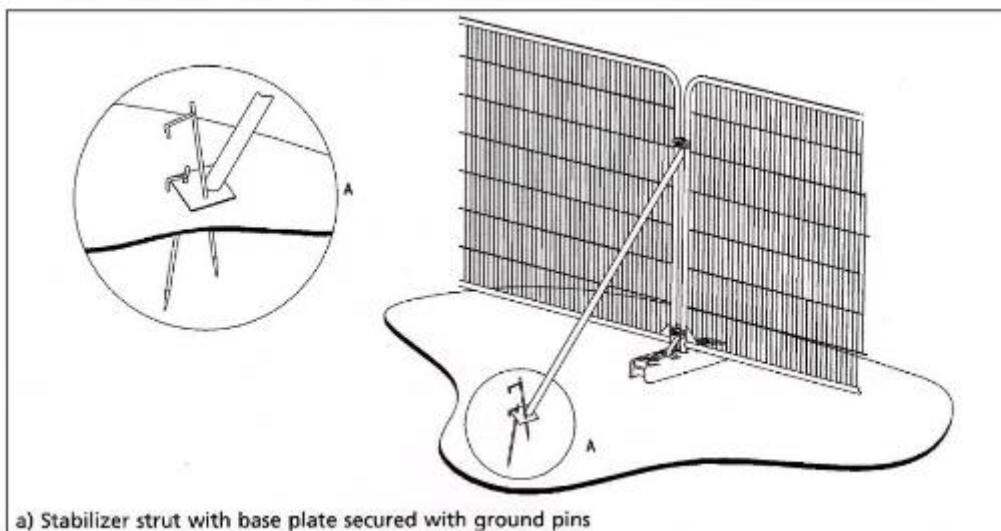


Figure 7: Example of Protective Fencing

5.2 ARBORICULTURAL MONITORING

An arboricultural consultant will be appointed before construction starts. The consultant will come to site:

- at the pre-start meeting
- when needed to oversee specific works which could adversely impact retained trees.

The pre-start meeting will be held on site before any work begins. The tree protection measures in this document will be discussed so that their implementation and sequencing are understood and agreed.

Any changes to the details which have received planning consent will be recorded and circulated including to the local planning authority (LPA). Details of the programme of tree protection will also be agreed and finalised, which will then form the basis of any supervision arrangements between the arboricultural consultant and the principal contractor.

It will be the responsibility of the principal contractor to ensure that the details of this arboricultural method statement and any agreed amendments are known and understood by all site personnel.

Once the site is active, the arboricultural consultant will visit at the intervals agreed at the pre-start meeting. The supervision arrangement will be sufficiently flexible to allow the supervision of all sensitive works as they occur.

It is anticipated that site attendance by the arboricultural consultant will be needed at the following points in the programme:

- Before work starts to agree final positioning of tree protection measures and to re-check if access pruning is needed.

The arboricultural consultant will be consulted and attend site as necessary if excavation reveals tree roots exceeding 25mm in diameter.

The arboricultural consultant will maintain a record of all tree monitoring visits including any advice given. The monitoring records will be forwarded to the LPA.

5.3 ACCESS PRUNING

Access pruning is expected to be needed to remove overhanging branches near the vehicular entrance and route. The arboricultural consultant will re-check this at pre-start.

G4, G6, G11-G15, G17-G22, T4-T24, T26, T27 T29, T34 and T36-T38 – Category C and B – will be their crowns raised to 2m to allow for a new boundary security fence to be installed around the site. The fence is anticipated to be a post and mesh security fence and should be installed, avoiding Root Protection Areas where possible, with hand digging within the Root Protection Areas where required, retaining roots in-situ, to minimise the impacts to the roots.

Trees have the potential to provide bat roosting habitats. Bats are a protected species and destruction of known roosts is an offence. None of the trees scheduled for pruning are likely roosts due to their lack of potential roost features. If bats are found when removing any trees, however, work should cease immediately, and a licensed bat handler called to site to advise.

All pruning work is to be carried out outside the bird nesting season (ie not between March to September inclusive).

5.4 TREE REMOVAL

Removal of T1, T2, T28, G1, G2 will be undertaken by suitably experienced arboricultural contractors. All removals will be carried out outside the bird nesting season (ie not between March to September inclusive). Any tree removals undertaken during bird nesting season will be under the supervision of an ecologist.

Trees have the potential to provide bat roosting habitats. Bats are a protected species and destruction of known roosts is an offence. None of the trees scheduled for removal are likely roosts due to their lack of potential roost features. If bats are found when removing any trees, however, work should cease immediately, and a licensed bat handler called to site to advise.

5.5 ROOTS EXPOSED OR CUT DURING THE WORKS

Every effort will be made to avoid cutting or severing any root of any tree to be retained. If, during the approved works any root from any tree to be retained requires root disturbance this will first need the authorisation of the arboriculturist.

Any root to be removed greater than 25mm in diameter will require the agreement of the arboricultural consultant.

If, during the course of the approved works, it is necessary to expose any root greater than 25mm in diameter, clump of roots or any other root which is to be retained, the following procedure will be followed.

All works to be carried out using hand tools only. On no account will machinery be used to carry out any excavation, back-filling or compaction work.

If roots have to be exposed for more than 2 hours, then they must be protected from freezing or desiccation by wrapping them in clean hessian.

If roots are present, the backfill material should be a sandy-loam top soil containing clean grit. Builder's sand or other fine sands should not be used because of possible chemical contamination.

6.0 DEMOLITION

Existing structures that are being demolished are a sufficient distance away from any trees.

The Fire damaged buildings have already been demolished down to DPC level, so the risks are significantly reduced.



Figure 7 & 8: Fire Damaged School previously demolished

Demolition and grubbing out of remaining substructure will be undertaken in a controlled fashion. The structure is some distance away from any retained trees so no adverse impacts are anticipated to retained tree roots. Appropriate fencing of retained trees and all vehicle movements supervised by a Banksman will ensure the safe access and exit of demolition vehicles in the car park area.

7.0 SITE LOGISTICS

For the Site Set Up Plan refer to Appendix B Site Set Up Plan.

7.1 SITE STORAGE

There will strictly be no parking, plant movements or storage under the full width of the canopies of the trees. Storage is not permitted around the car park area. All storage is in allocated areas some distance from any trees or sensitive receptors. The site set up plan in Appendix B outlines parking and Site Storage locations.

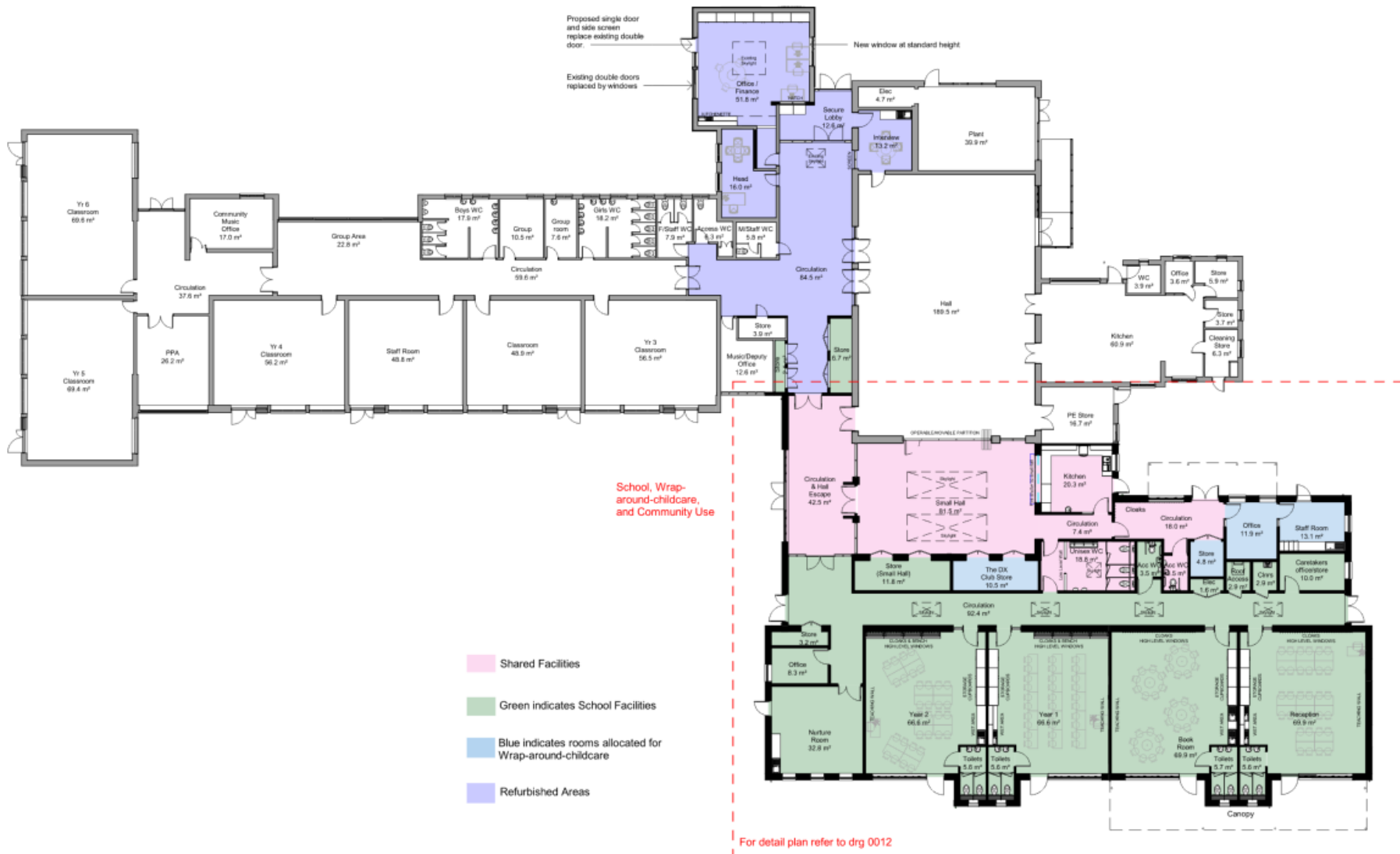
7.2 CONSTRUCTION PARKING

Car parking will be carefully controlled. Teaching staff and visitors will park offsite for the duration of the works. Entrance to the site will be controlled by a Kier Gateperson. Sustainable transport options are published on site and those arriving on site will be received by a gates person and directed to an allocated parking bay. Parking on soft areas is prohibited. Construction Parking is outlined within the Site Set Up plan.

8.0 APPENDICES

Appendix A	Proposed Development
Appendix B	Site Set Up Plan
Appendix C	Tree Protection Plan

Appendix A
Proposed Development



Proposed Extension Plan



Proposed Preschool Plan



Proposed landscape layout

Appendix B
Site Set Up Plan

Appendix C
Tree Protection Plan



KEY



TREES TO BE REMOVED IN LINE WITH ARBORICULTURAL REQUIREMENTS (REFER TO SECTION 5.4)



RETAINED TREES TO BE PROTECTED (REFER TO SECTION 5.1)

NOTE: THIS PLAN DOES NOT INCLUDE PROPOSED TREES