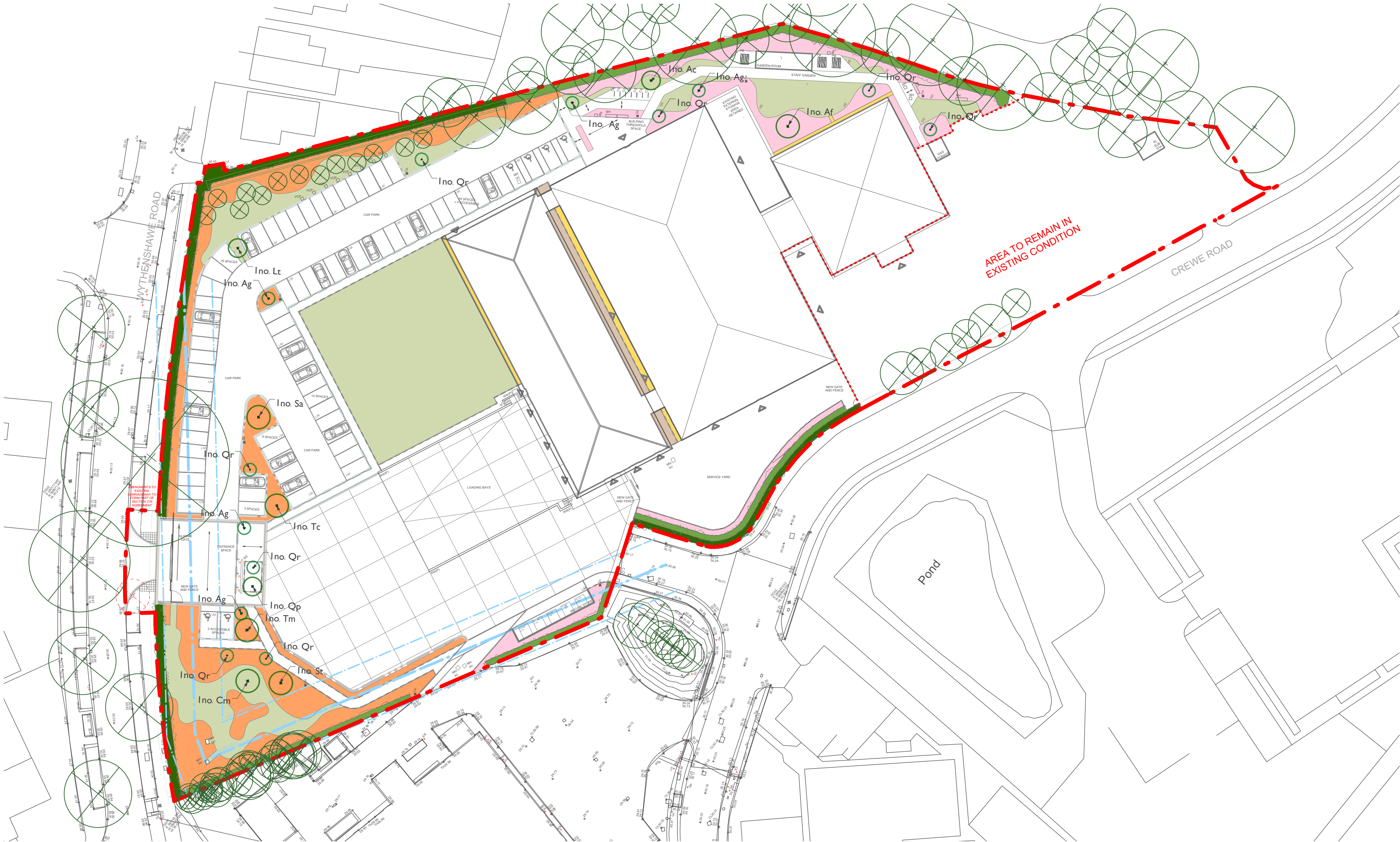




| Species                     | % or Code | Form                      | Overall Height/ Girth | Qty | Root Condition /Size | Notes           |
|-----------------------------|-----------|---------------------------|-----------------------|-----|----------------------|-----------------|
| <b>Specimen trees</b>       |           |                           |                       |     |                      |                 |
| Acer campestre 'Streetwise' | Ac        | Standard, Semi-mature     | 25-30cm               | 1   | C 100L               | 2.4m clear stem |
| Sorbus torminalis           | St        | Standard, Semi-mature     | 14-16cm               | 1   | C 60L                | 2.4m clear stem |
| Cratagus monogyna           | Cm        | Standard, Semi-mature     | 14-16cm               | 1   | C 60L                | 2.4m clear stem |
| Sorbus aria 'Majestica'     | Sa        | Standard, Semi-mature     | 25-30cm               | 1   | C 100L               | 2.4m clear stem |
| Quercus robur               | Qr        | Feathered, Semi-mature    | 25-30cm               | 8   | C 100L               |                 |
| Tilia cordata 'Greenspire'  | Tc        | Standard, Semi-mature     | 25-30cm               | 1   | C 100L               | 2.4m clear stem |
| <b>Marker Trees</b>         |           |                           |                       |     |                      |                 |
| Quercus palustris           | Qp        | Standard, Semi-mature     | 25-30cm girth         | 1   | C 100L               | 2.4m clear stem |
| Acer Freemani               | Af        | Standard, Semi-mature     | 25-30cm girth         | 1   | C 100L               | 2.4m clear stem |
| Linodendron tulipifera      | Lt        | Standard, Semi-mature     | 25-30cm girth         | 1   | C 100L               | 2.4m clear stem |
| Tilia mongolica 'Buda'      | Tm        | Heavy Standard            | 18-20cm girth         | 1   | C 70L                | 2.4m clear stem |
| Acer griseum                | Ag        | Multi-stem, umbrella form | 250-300cm             | 5   | C 40L                | Min' 3 breaks   |

| Species                         | % or Code | Form           | Overall Height | Ctr | Root Condition /Size | Notes       |
|---------------------------------|-----------|----------------|----------------|-----|----------------------|-------------|
| <b>Native species hedge mix</b> |           |                |                |     |                      |             |
| Corylus avellana                | 15%       | 1+1 Transplant | 60-80cm        | 300 | C 3L                 | 3 breaks    |
| Crataegus monogyna              | 25%       | 1+1 Transplant | 60-80cm        | 300 | C 3L                 | 3 breaks    |
| Euonymus europaeus              | 10%       | 1+1 Transplant | 60-80cm        | 300 | C 3L                 | 2 breaks    |
| Ilex aquifolium                 | 15%       | 1+1 Transplant | 60-80cm        | 300 | C 3L                 | Habit - L/L |
| Ligustrum vulgare               | 15%       | 0+2 Cut        | 60-80cm        | 300 | C 3L                 |             |
| Prunus spinosa                  | 10%       | 1+1 Transplant | 60-80cm        | 300 | C 3L                 | 2 breaks    |
| Viburnum opulus                 | 10%       | 1+1 Transplant | 60-80cm        | 300 | C 3L                 | 3 breaks    |

| Species (Indicative)                                                | % or Code | Form            | Overall Height (cm) | No. /sqm | Root Condition /Size | Notes |
|---------------------------------------------------------------------|-----------|-----------------|---------------------|----------|----------------------|-------|
| <b>Shrub Planting A – 'Woodland Edge' Planting Areas (Open/Dry)</b> |           |                 |                     |          |                      |       |
| <i>Low</i>                                                          |           |                 |                     |          |                      |       |
| Anemone nemorosa                                                    |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Hedera helix                                                        |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Lonicera periclymenum                                               |           | Bushy, 3-6 brks | 20-30               | 5        | C 3L                 |       |
| Pachysandra terminalis                                              |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Polypodium vulgare                                                  |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Rosa canina                                                         |           | Bushy, 3-6 brks | 20-30               | 5        | C 3L                 |       |
| Rubus fruticosus                                                    |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Stachys officinalis                                                 |           | Bushy, 3-6 brks | 20-30               | 5        | C 3L                 |       |
| <i>Medium - High</i>                                                |           |                 |                     |          |                      |       |
| Acer campestre                                                      |           | Feather,        | 125-150             | 1        | C 10L                |       |
| Cornus mas                                                          |           | Bushy, 3-6 brks | 60-80               | 3        | C 10L                |       |
| Corylus avellana                                                    |           | Feather         | 125-150             | 1        | C 10L                |       |
| Cornus alba 'Elegantissima'                                         |           | Bushy, 3-6 brks | 60-80               | 3        | C 10L                |       |
| Cornus sanguinea                                                    |           | Bushy, 3-6 brks | 60-80               | 3        | C 10L                |       |
| Ilex aquifolium                                                     |           | Bushy, 3-6 brks | 80-100              | 1        | C 10L                |       |
| Malus sylvestris                                                    |           | Feather         | 125-150             | 1        | C 10L                |       |
| Prunus spinosa                                                      |           | Bushy, 3-6 brks | 60-80               | 3        | C 10L                |       |
| Pyracantha Soleil d'Or                                              |           | Bushy, 3-6 brks | 60-80               | 3        | C 10L                |       |
| <b>Shrub Mix B – 'Woodland Understorey' Planting Areas (Shade)</b>  |           |                 |                     |          |                      |       |
| <i>Low</i>                                                          |           |                 |                     |          |                      |       |
| Anemone 'Wild Swan'                                                 |           | Full Pot        | 15-20               | 5        | C 3L                 |       |
| Anemone hepheensis 'Hadspen Abundance'                              |           | Full Pot        | 15-20               | 5        | C 3L                 |       |
| Ajuga reptans 'Braunherz'                                           |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Asplenium scolopendrium                                             |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Asarum europaeum                                                    |           | Full Pot        | 10-15               | 5        | C 3L                 |       |
| Athyrium filix-fem                                                  |           | Bushy, Full Pot | 20-30               | 5        | C 3L                 |       |
| Epimedium grandiflorum 'Lilafée'                                    |           | Bushy, Full Pot | 20-30               | 5        | C 3L                 |       |

|                                                                         |  |                 |         |   |       |  |
|-------------------------------------------------------------------------|--|-----------------|---------|---|-------|--|
| Epimedium x youngianum 'Niveum'                                         |  | Bushy, Full Pot | 20-30   | 5 | C 3L  |  |
| Geranium macrorrhizum 'Album'                                           |  | Bushy, Full Pot | 20-30   | 5 | C 3L  |  |
| Geranium phaeum 'Album'                                                 |  | Full Pot        | 15-20   | 5 | C 3L  |  |
| Hedera helix                                                            |  | Full Pot        | 10-15   | 5 | C 3L  |  |
| Tellima grandiflora                                                     |  | Bushy, Full Pot | 2-30    | 5 | C 3L  |  |
| Mukdenia 'Karasuba'                                                     |  | Full Pot        | 10-15   | 5 | C 3L  |  |
| <i>Medium - High</i>                                                    |  |                 |         |   |       |  |
| Acer campestre                                                          |  | Feather         | 125-150 | 1 | C 10L |  |
| Cotoneaster rugosus                                                     |  | Bushy, 3-6 brks | 60-80   | 2 | C 10L |  |
| Corylus avellana                                                        |  | Feather         | 125-150 | 1 | C 10L |  |
| Dryopteris wallichiana                                                  |  | Bushy, Full Pot | 40-60   | 3 | C 10L |  |
| Helleborus nigra                                                        |  | Bushy, Full Pot | 40-60   | 3 | C 10L |  |
| Helleborus x hybridus                                                   |  | Bushy, Full Pot | 40-60   | 3 | C 10L |  |
| Ribes nigrum 'Ben Hope'                                                 |  | Bushy, 3-6 brks | 60-80   | 3 | C 10L |  |
| Ribes rubrum 'Jonkheer van Tets'                                        |  | Bushy, 3-6 brks | 60-80   | 3 | C 10L |  |
| Ribes rubrum 'White Versailles'                                         |  | Bushy, 3-6 brks | 60-80   | 3 | C 10L |  |
| Ribes sanguineum                                                        |  | Bushy, 3-6 brks | 60-80   | 3 | C 10L |  |
| Sarcococca confusa                                                      |  | Bushy, 3-6 brks | 60-80   | 3 | C 10L |  |
| Lonicera periclymenum 'Graham Thomas'                                   |  | Bushy, Full Pot | 40-60   | 3 | C 10L |  |
| Polystichum aculeatum                                                   |  | Bushy, Full Pot | 40-60   | 3 | C 10L |  |
| Polystichum setiferum                                                   |  | Bushy, Full Pot | 40-60   | 3 | C 10L |  |
| Prunus spinosa                                                          |  | Bushy, 3-6 brks | 60-80   | 3 | C 10L |  |
| Virburnham tinus                                                        |  | Bushy, 3-6 brks | 60-80   | 3 | C 10L |  |
| <b>Shrub Mix C – 'Woodland Glade' Planting Areas (Dry Semi - Shade)</b> |  |                 |         |   |       |  |
| <i>Low</i>                                                              |  |                 |         |   |       |  |
| Ajuga reptans 'Braunherz'                                               |  | Full Pot        | 10-15   | 5 | C 3L  |  |
| Polypodium vulgare                                                      |  | Full Pot        | 10-15   | 5 | C 3L  |  |
| Polystichum aculeatum                                                   |  | Bushy, Full Pot | 20-30   | 5 | C 3L  |  |
| Hedera helix                                                            |  | Full Pot        | 10-15   | 5 | C 3L  |  |

## Softworks Notes & Specification:

General  
All plants to be supplied in full accordance with the HTA National Plant Specification.  
All plant material to be containerised with low planting at 3lt pots (4/sqm) and medium-high at 10lt pots (2/sqm).  
All tree work in accordance with BS 5837: 2005 and BS 3998: 1989 Works undertaken only after agreement of Tree Officer if trees TOP'd or in Conservation Area. Works not to be undertaken in bird nesting season without consent.  
All nursery stock in accordance with BS 3936 (Part 1)  
All landscape operations (excluding hard surfaces) in accordance with BS 4428:1989  
Newly planted areas to be protected by temporary chestnut pale fencing in accordance with BS5837

Soiling Depths  
Grassed Areas – 150mm topsoil, subsoil to be loosened to 150mm  
Wildflower areas – 300mm subsoil (no topsoil)  
Hedge Planting – 450mm topsoil, 450mm subsoil  
Shrub Planting – 300mm topsoil, 300mm subsoil

Protection to Existing Trees  
The recommendations in BS5387 (2012). 'Trees in relation to Construction' must be complied with at all times. No pruning, lopping, felling or severance of roots is to take place without prior consent of the local authority. Any work to the existing trees is to be carried out by a qualified tree surgeon. The position and construction of protective fencing shall be agreed with the local authority prior to any site works commencing. Under no circumstances must any materials be stored under the canopy of existing trees, and no cement, diesel or oil stored near them. No vehicles should pass under the canopy of existing trees. No fires should be lit in close proximity to existing trees. No ropes, cables, services or notice boards shall be fixed to existing trees. Under no circumstances should the levels around existing trees be either raised or reduced. Scaffolding may only erected within protected areas if it is done so in accordance with BS 5837. Any excavations under existing tree canopy spreads shall be done by hand.

Topsoil in accordance with BS 3882:1994  
Undisturbed topsoil to BS4428

Tree planting to have 10sqm (minimum) of growing medium/plant in shared trench wherever possible.

Tree Planting  
Trees shall be planted into tree pit 75mm deeper than root system and wide enough to accommodate the root system when fully spread. Break up bottom of pit and backfill with 3:1 excavated topsoil: peat free compost mix and slow release fertiliser.  
NB. Check for services prior to excavation of tree pit.

Hedging  
Hedges planted at 300mm centres in double staggered row.

Grass & Meadow Seeding  
The area to be seeded is to be graded to smooth even running falls to allow the finished level of grass sward to be 25mm above adjoining paved areas. Sow: April/October.  
The soil surface is to be cultivated to a fine, firm tith with a good crumb structure and uniformly firm by rolling/treading and then lightly raked to 25mm depth to form a true, even surface. All rubbish, clods of earth and stones exceeding 50mm dia. to be removed.

Established Maintenance  
Straighten trees/shrubs and re-firm around roots after windy/frosty weather. Water trees/shrubs/line of hedge to field capacity during dry spells in spring/summer. Remove spiral guards from hedge plants after 2 years once hedge has become established. Light regular trimming of the hedges will encourage bushy growth and formation of a dense hedge. First mow when grass sward is 75mm high and grass is reasonably dry. Height of first cut to 50mm. Remove arisings from site.  
After establishment, formative prune hedges 2 to 3 times a year to maintain size and spread and formative prune or ornamental shrubs as necessary to maintain desired size and shape. Establish appropriate mowing regime (e.g. one cut/month during April, May, September and October. 2 cuts per month during June, July and August.

All plant failures in the first 5 years to be replaced during the next suitable planting period.

Plants / trees – general  
Condition: materially undamaged, sturdy, healthy & vigorous  
Appearance: of good shape and without elongated shoots  
Free from pests, diseases, discoloration, weeds & physiological disorders.  
Origin: British grown, preferably local provenance.

Plants / Trees - specification criteria  
Name, forms, dimensions and other criteria: as scheduled and defined in the NPS.

Times of year for planting  
Deciduous trees & shrubs: late October to late march  
Conifers & evergreens: September / October or April / may  
Herbaceous plants (including marginal): September / October or March / April  
Wildflower plugs: late august to mid November or march / April

Planting wildflower plugs  
Keep plants watered and in shade until planted – do not allow to dry out.  
Preparation: remove brambles, coarse & invasive weeds from planting sites.  
Plant into a hole to suit plug size and shape. Create a cleft at bottom of hole to improve rooting. Gently firm plant into hole.

Tree pits (for standard trees)  
Sizes: 75mm deeper than the root system and wide enough to accommodate roots when fully spread.  
Pit bottoms: with slightly raised centre. Break up to a depth of 150mm. Backfilling: reuse excavated material

Staking (for standard trees)  
Stakes: softwood, peeled chestnut, larch or oak, straight, free from projections and large edge knots and with pointed lower end.  
Position: stake close to tree on windward side and drive vertically at least 300mm into bottom of pit before planting.  
Height of stake: cut to approx 600mm above ground level  
Ties: contractors choice  
Tying: secure tree firmly but not rigidly to stake with 2 ties within 25mm of top of stake.  
Tree protection  
Manufacturer / product reference: contractors choice  
Type: spiral  
Colour / support: clear, bamboo canes

## Key

Application Boundary

## Planting Overview

Lawn Areas  
Existing lawn to be retained where possible.  
Turf to replace areas damaged through construction works

Reinforced Grass Areas  
Porous paver backfilled with soil and grass seed

Shrub Planting A – 'Woodland Edge' Planting Areas (Open/Dry)

Shrub Mix B – 'Woodland Understorey' Planting Areas (Shade)

Shrub Mix C – 'Woodland Glade' Planting Areas (Dry Semi - Shade)

Existing Hedge to be retained

Existing Tree to be retained

Proposed Tree

Proposed Hedge  
Native species hedge mix

Existing Tree to be removed

## Softworks Notes & Specification (Continued):

Woodland planting  
Generally: check for above / below ground services. Give notice if they may be affected and obtain instructions before proceeding.  
Safety: comply with Arboricultural & FAG guidance.

Notch planting in uncultivated ground  
Make a vertical I, L or T notch deep enough to accommodate full depth of roots.  
Plant tree, close notch with root collar at ground level and firm the soil

Setting out  
Planting density: to aid early establishment of screening 1 per m2  
Layout: random groups of no less than 3 or more than 7 of the same species, ensuring that no three plants are aligned in any one direction.

Establishment maintenance / making good defects  
Failures of planting  
Defects due to materials or workmanship not in accordance with the contract.  
Replacements: to match size of adjacent or nearby plants of the same species or match original spec. whichever is the greater.  
Timing: during the next suitable planting season

Woodland planting maintenance  
Watering: only necessary to prevent plants wilting  
Loose plants: re-firm surrounding soil, without compacting  
Weed control: cut down & remove weeds prior to setting seed in a 1m dia. around each tree.  
Thinning: thin to densities specified in the ecologists management plan

## General Notes:

- Do not scale from this drawing.
- All levels, dimensions & setting out to be checked & agreed on site.
- All dimensions are in millimetres unless otherwise stated.
- All drawings must be read in conjunction with all Landscape, Civil, Geotechnical & Structural Engineers, National Highways, British Waterways and Architectural Documentation.
- The contractor shall be responsible for confirming the position of all existing services, structures and works including building set out, in and around the site, prior to the commencement of works.
- Contractor to confirm all dimensions and levels with Landscape Architect, prior to commencing work and ordering materials.
- The contractor is to protect all listed structures during works.
- This drawing is copyright protected & may not be reproduced in whole or part without written authority.

Refer to:  
XQLA Drawings:  
774\_XQL-XX-00-DR-L-0101-Landscape General Arrangement

Architects Drawing:  
1108\_A\_DR\_200 GroundFloorPlan

Refer to Architects drawings for building interface  
Refer to Conservation Architects drawings for historic structures  
Refer to arboricultural & topographical survey



SCALE 1:500 @ A1

|          |        |                         |          |           |
|----------|--------|-------------------------|----------|-----------|
| PL04     | 200918 | Sprinkler Tanks Removed | OB       | XQ        |
| PL03     | 200618 | Schedule Update         | OB       | XQ        |
| PL02     | 200610 | Area Update             | OB       | XQ        |
| PL01     | 200515 | Planning                | OB       | XQ        |
| P01      | 200507 | WIP                     | OB       | XQ        |
| REVISION | DATE   | DESCRIPTION             | DRAWN BY | APPRVD BY |

## PLANNING

## HOLOGIC

PROJECT

## LANDSCAPE PLANTING PLAN

DRAWING NAME

1:500 @ A1

SCALE

MAY 2020

DATE

S2

STATUS

774\_XQL-XX-00-DR-L-0102

DRAWING NO.

PL04

REVISION

OB

DRAWN BY

XQ

CHECKED BY

XQ

APPROVED BY