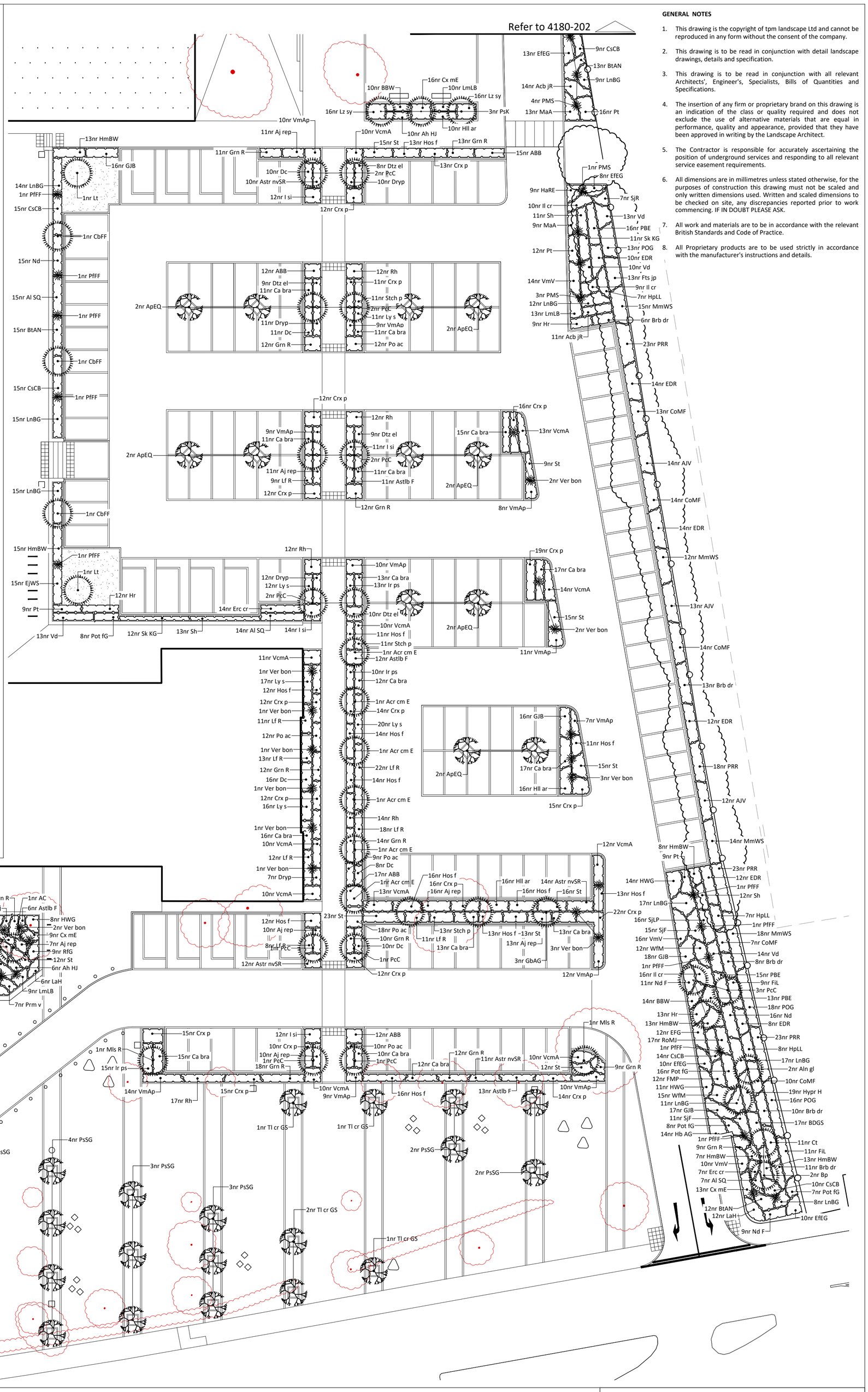
TPM Planting Schedule (Individual)

Herbaceous

| Nr | Code | Plant Name | Height/Spread/Grade | Girth | Age | Root | Container | Habit | Form | Density/m2 |
|---|---|---|---|---|---|---|---|---|---|---|
| 113 | ABB | Astilbe arendsii 'Bressingham Beauty' | 30-40cm | | | C | 3L | | | 5.00 |
| 133 | AchS | Achillea 'Sunbeam' | 30-40cm | | | C | 3L | | | 5.00 |
| 184 | Ah HJ | Anemone hybrida 'Honorine Jobert' | 30-40cm | | | C | 3L | | | 5.00 |
| 86 | Aj rep | Ajuga reptans | 30-40cm | | | C | 3L | | | 5.00 |
| 54 | Astlb F | Astilbe 'Fanal' | 30-40cm | | | C | 3L | | | 5.00 |
| 78 | Astr nvSR | Aster novae-angliae 'September Ruby' | 30-40cm | | | C | 3L | | | 5.00 |
| 110 | Astrn mj | Astrantia major | 30-40cm | | | C | 3L | | | 5.00 |
| 188 | BBW | Bergenia 'Bressingham White' | 30-40cm | | | C | 3L | | | 5.00 |
| 217 | Ca bra | Calamagrostis brachytricha | 30-40cm | | | C | 3L | | | 5.00 |
| 252 | Crx p | Carex pendula | 30-40cm | | | C | 3L | | | 5.00 |
| 177 | Cx mE | Carex morrowii 'Evergold' | 30-40cm | | | C | 3L | | | 5.00 |
| 55 | Dc | Deschampsia cespitosa | 30-40cm | | | C | 3L | | | 5.00 |
| 40 | Dryp | Dryopteris filix-mas | 30-40cm | | | C | 3L | | | 5.00 |
| 89 | Ep | Echinacea purpurea | 30-40cm | | | C | 3L | | | 5.00 |
| 257 | GJB | Geranium 'Johnson's Blue' | 30-40cm | | | C | 3L | | | 5.00 |
| 142 | Grn R | Geranium 'Rozanne' | 30-40cm | | | C | 3L | | | 5.00 |
| 98 | Hll ar | Helleborus argutifolius | 30-40cm | | | C | 3L | | | 5.00 |
| 176 | Hos f | Hosta fortunei | 30-40cm | | | C | 3L | | | 5.00 |
| 56 | HPP | Heuchera micrantha 'Palace Purple' | 30-40cm | | | C | 3L | | | 5.00 |
| 49 | I si | Iris sibirica | 30-40cm | | | C | 3L | | | 5.00 |
| 38 | Ir ps | Iris pseudacorus | 30-40cm | | | C | 3L | | | 5.00 |
| 134 | LmLB | Liriope muscari 'Lilac Beauty' | 30-40cm | | | C | 3L | | | 5.00 |
| 76 | Ly s | Lythrum salicaria | 30-40cm | | | C | 3L | | | 5.00 |
| 96 | Lz sy | Luzula sylvatica | 30-40cm | | | C | 3L | | | 5.00 |
| 51 | Nxf | Nepeta x faassenii | 30-40cm | | | C | 3L | | | 5.00 |
| 61 | Po ac | Polystichum acrostichoides | 20-25cm | | | C | 3L | | | 5.00 |
| 148 | Prm v | Primula vulgaris | 30-40cm | | | C | 3L | | | 5.00 |
| 162 | RfG | Rudbeckia fulgida 'Goldsturm' | 30-40cm | | | C | 3L | | | 5.00 |
| 67 | Rh | Rudbeckia hirta | 30-40cm | | | C | 3L | | | 5.00 |
| 55 | Slv sp | Salvia superba | 30-40cm | | | C | 3L | | | 5.00 |
| 94 | SsAJ | Sedum spectabile 'Autumn Joy' | 30-40cm | | | C | 3L | | | 5.00 |
| 159 | St | Stipa tenuissima | 30-40cm | | | C | 3L | | | 5.00 |
| 35 | Stch p | Stachys palustris | 30-40cm | | | C | 3L | | | 5.00 |
| 24 | Ver bon | Verbena bonariensis | 30-40cm | | | C | 3L | | | |

Shrub

| Nr | Code | Plant Name | Height/Spread/Grade | Girth | Age | Root | Container | Habit | Form | Density/m2 |
|---|---|---|---|---|---|---|---|---|---|---|
| 52 | Acb jR | Aucuba japonica 'Rozannie' | 30-40cm | | | C | 3L | | | 4.00 |
| 55 | AJV | Aucuba japonica 'Variegata' | 40-60cm | | | C | 3L | Bushy | | 3.00 |
| 75 | Al SQ | Artemisia ludoviciana 'Silver Queen' | 30-40cm | | | C | 3L | | | 4.00 |
| 58 | BDGS | Brachyglottis Dunedin Group 'Sunshine' | 30-40cm | | | C | 3L | Branched | | 4.00 |
| 83 | Brb dr | Berberis darwinii | 40-60cm | | | C | 3L | | | 3.00 |
| 54 | BtAN | Berberis thunbergii 'Atropurpurea Nana' | 30-40cm | | | C | 3L | Branched | | 4.00 |
| 2 | CerRF | Cercis canadensis 'Ruby Falls' | 200-300cm | | | C | 75L | min 3 leaders | | |
| 58 | CoMF | Cornus sanguinea 'Mid-Winter Fire' | 40-60cm | | | C | 3L | | | 3.00 |
| 70 | CoSa | Cornus sanguinea | 40-60cm | | | C | 3L | Branched | | 3.00 |
| 143 | CsCB | Cotoneaster suecicus 'Coral Beauty' | 30-40cm | | | C | 3L | | | 4.00 |
| 27 | Ct | Choisya ternata | 40-60cm | | | C | 3L | Bushy | | 3.00 |
| 33 | CtS | Choisya ternata 'Sundance' | 40-60cm | | | C | 3L | Bushy | | 3.00 |
| 62 | Dtz el | Deutzia elegantissima 'Rosealind' | 30-40cm | | | C | 3L | | | 4.00 |
| 123 | EDR | Escallonia 'Donard Radiance' | 40-60cm | | | C | 3L | Bushy | | 3.00 |
| 128 | EfEG | Euonymus fortunei 'Emerald 'n' Gold' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 35 | EFG | Euonymus fortunei 'Emerald Gaiety' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 26 | EjWS | Euonymus japonicus 'White Spire' | 30-40cm | | 1/1 | C | 3L | | | 4.00 |
| 122 | Erc cr | Erica carnea 'King George' | 30-40cm | | | C | 3L | | | 4.00 |
| 91 | FiL | Forsythia intermedia 'Lynwood' | 40-60cm | | | C | 3L | Branched | | 3.00 |
| 33 | FMP | Fuchsia 'Mrs Popple' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 81 | Fts jp | Fatsia japonica | 40-60cm | | | C | 3L | Leader | | 3.00 |
| 40 | HaRE | Hebe albicans 'Red Edge' | 30-40cm | | | C | 3L | | | 4.00 |
| 30 | Hb AG | Hebe 'Autumn Glory' | 30-40cm | | | C | 3L | | | 4.00 |
| 134 | HmBW | Hydrangea macrophylla 'Blue Wave' | 30-40cm | | | C | 3L | | | 4.00 |
| 82 | HpLL | Hydrangea paniculata 'Little Lime' | 40-60cm | | | C | 3L | Branched | | 3.00 |
| 77 | Hr | Hebe rakaiensis | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 124 | HWG | Hebe 'White Gem' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 60 | Hypr H | Hypericum 'Hidcote' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 35 | Il cr | Ilex crenata | 40-60cm | | 2x | C | 3L | | | 4.00 |
| 103 | LaH | Lavandula angustifolia 'Hidcote' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 104 | Lf R | Leucothoe fontanesiana 'Rollissonii' | 30-40cm | | | C | 3L | | | 4.00 |
| 223 | LnBG | Lonicera nitida 'Baggesen's Gold' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 46 | MaA | Mahonia aquifolium 'Apollo' | 30-40cm | | | C | 3L | Several shoots | | 4.00 |
| 74 | MmWS | Mahonia media 'Winter Sun' | 60-80cm | | | C | 5L | Bushy | | 3.00 |
| 45 | Nd | Nandina domestica | 30-40cm | | | C | 3L | Single or several shoots | | 4.00 |
| 51 | Nd F | Nandina domestica 'Firepower' | 30-40cm | | | C | 3L | | | 4.00 |
| 72 | PBE | Philadelphus 'Belle Etoile' | 30-40cm | | | C | 3L | Branched | | 4.00 |
| 13 | PFF | Pieris floribunda 'Forest Flame' | 60-80cm | | | C | 10-15L | | | |
| 9 | PMS | Phormium 'Maori Sunrise' | 60-90cm | | 0/1 | C | 10L | | | |
| 83 | POG | Pyracantha 'Orange Glow' | 40-60cm | | | C | 3L | Leader with laterals | | 3.00 |
| 54 | Pot fG | Potentilla fruticosa 'Goldfinger' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 87 | PRR | Photinia x fraserii 'Red Robin' | 30-40cm | | | C | 3L | | | 4.00 |
| 46 | Pt | Pachysandra terminalis | 30-40cm | | | C | 3L | Several shoots | | 4.00 |
| 63 | RB | Rosa 'Bonica' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 66 | RoMJ | Rosmarinus officinalis 'Miss Jessopp's Upright' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 62 | Sh | Sarcococca humilis | 30-40cm | | | C | 3L | | | 4.00 |
| 56 | SjF | Spiraea japonica 'Firelight' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 28 | SjLP | Spiraea japonica 'Little Princess' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 49 | SjR | Skimmia japonica 'Rubella' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 96 | Sk KG | Skimmia confusa 'Kew Green' | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 131 | VcmA | Vinca minor 'Alba' | 30-40cm | | | C | 3L | | | 4.00 |
| 155 | Vd | Viburnum davidii | 30-40cm | | | C | 3L | Bushy | | 4.00 |
| 109 | VmAp | Vinca minor 'Atropurpurea' | 30-40cm | | | C | 3L | | | 4.00 |
| 138 | VmV | Vinca major 'Variegata' | 30-40cm | | | C | 3L | | | 4.00 |
| 79 | WfM | Weigela florida 'Monet' | 30-40cm | | | C | 3L | | | 4.00 |




**LEGEND**

**Existing Tree to be Retained**

**Existing Tree to be Removed**

**Amenity Grass**
High quality and high wearing turf

**Mounding/ Contours (150mm increments)**

**Proposed Wildflower Meadow**
To be Emorsgate EM2 Standard General Purpose Meadow Mix, supply by Emorsgate or similar approved. Sowing rate 4/gm2.

**Proposed Ornamental Planting**
Mixed shrub planting 3-5ltr pots. Planting beds to receive 75mm depth ornamental bark mulch.

**Proposed Tree in Hard Paved**
Covered by Permeable resin bound with Tree grille and underground cell system

**Proposed Tree in Soft Landscape**

**Proposed Small Tree in Soft Landscape**

**Proposed SUDS Pond**

**GENERAL NOTES**

1. This drawing is the copyright of tpm landscape Ltd and cannot be reproduced in any form without the consent of the company.
2. This drawing is to be read in conjunction with detail landscape drawings, details and specification.
3. This drawing is to be read in conjunction with all relevant Architects', Engineer's, Specialists, Bills of Quantities and Specifications.
4. The insertion of any firm or proprietary brand on this drawing is an indication of the class or quality required and does not exclude the use of alternative materials that are equal in performance, quality and appearance, provided that they have been approved in writing by the Landscape Architect.
5. The Contractor is responsible for accurately ascertaining the position of underground services and responding to all relevant service easement requirements.
6. All dimensions are in millimetres unless stated otherwise, for the purposes of construction this drawing must not be scaled and only written dimensions used. Written and scaled dimensions to be checked on site, any discrepancies reported prior to work commencing. IF IN DOUBT PLEASE ASK.
7. All work and materials are to be in accordance with the relevant British Standards and Code of Practice.
8. All Proprietary products are to be used strictly in accordance with the manufacturer's instructions and details.

Tree

| Nr | Code | Plant Name | Height/Spread/Grade | Girth | Age | Root | Container | Habit | Form | Density/m2 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AC | Amelanchier canadensis | 300-350cm | 12-14cm | | C | 30-45L | | Heavy Standard | |
| 6 | Acr cm | Acer campestre | 350-425cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 6 | Acr cm E | Acer campestre 'Elsrijk' | 550-600cm | 18-20cm | 3x | RB | | | Extra Heavy Standard | |
| 6 | Al | Amelanchier lamarckii | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 4 | Aln gl | Alnus glutinosa | 350-425cm | 12-14cm | 3x | RB | | | Standard (Heavy) | |
| 6 | Aln in | Alnus incana | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 19 | ApCK | Acer platanoides 'Crimson King' | 550-600cm | 18-20cm | 3x | RB | | | Extra Heavy Standard | |
| 12 | ApEQ | Acer platanoides 'Emerald Queen'' | 550-600cm | 18-20cm | 3x | RB | | | Extra Heavy Standard | |
| 2 | Be ng | Betula nigra | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 8 | Bp | Betula pendula | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 6 | Bp (10-12) | Betula pendula(10-12) | 250-300cm | 10-12cm | 2x | RB | | | Heavy Standard | |
| 6 | Buj | Betula utilis jacquemontii | 350-425cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 3 | Cb | Carpinus betulus | 350-425cm | 12-14cm | 3x | RB | | | Standard (Heavy) | |
| 3 | CbFF | Carpinus betulus 'Frans Fontaine' | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 3 | CIPS | Crataegus laevigata 'Paul's Scarlet' | 300-350cm | 12-14cm | | RB | | | Heavy Standard | |
| 4 | Crtg mn | Crataegus monogyna | 300-350cm | 12-14cm | | RB | | | Heavy Standard | |
| 3 | Fs | Fagus sylvatica | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 3 | GbAG | Ginkgo biloba 'Autumn Gold' | 350-425cm | 12-14cm | 3x | B | | | Heavy Standard | |
| 5 | GbFB | Ginkgo biloba 'Fastigiata Blagon' | 300-350cm | 12-14cm | | RB | | | Heavy Standard | |
| 7 | Liq sty | Liquidambar styraciflua | 300-350cm | 12-14cm | 2x | RB | | | Heavy Standard | |
| 1 | Lrd tl | Liriodendron tulipifera 'Fastigiata | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 4 | Lt | Liriodendron tulipifera | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 2 | Mg gr | Magnolia grandiflora | 300-350cm | 12-14cm | | RB | | | Heavy Standard | |
| 5 | Mls R | Malus 'Rudolph' | 550-600cm | 14-16cm | 3x | RB | | | Extra-heavy Standard | |
| 3 | Mls sy | Malus sylvestris | 300-350cm | 12-14cm | 2x | RB | | | Heavy Standard | |
| 9 | PaP | Prunus avium 'Plena' | 300-350cm | 12-14cm | 2x | RB | | | Heavy Standard | |
| 15 | PcC | Pyrus calleryana 'Chanticleer' | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 4 | PcN | Prunus cerasifera 'Nigra' | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 12 | Pltns x hs | Platanus x hispanica | 550-600cm | 18-20cm | | RB | | | Extra Heavy Standard | |
| 4 | PrS | Prunus 'Spire' | 350-425cm | 12-14cm | | RB | | | Heavy Standard | |
| 9 | PsK | Prunus serrulata 'Kanzan' | 300-350cm | 12-14cm | | RB | | | Heavy Standard | |
| 24 | PsSG | Prunus serrulata 'Snow Goose' | 300-350cm | 12-14cm | 2x | RB | | | Heavy Standard | |
| 6 | PsT m-s | Prunus serrula 'Tibetica' | 250-300cm | | 3x | C | 75L | min 3 leaders | Multi-stemmed | |
| 14 | Qr FK | Quercus robur 'Fastigiata Koster' | 550-600cm | 18-20cm | 3x | RB | | | Extra Heavy Standard | |
| 5 | SaL | Sorbus aria 'Lutescens' | 300-350cm | 12-14cm | 3x | RB | | | Heavy Standard | |
| 6 | Srbs ac | Sorbus aucuparia | 350-425cm | 12-14cm | | RB | | | Heavy Standard | |
| 9 | Tl cr GS | Tilia cordata 'Green Spire' | 550-600cm | 18-20cm | 3x | RB | | | Extra Heavy Standard | |

NOTES ON PLANTING

1 Topsoil / Subsoil: Topsoil shall be spread to min 300mm depth over planting beds and 150mm depth over turf areas and graded to fall. Topsoil should be in accordance with BS3882:2015 and where subsoil is required, to be in line with BS8601:2013. It is recommended that samples are tested with Certification and Analysis Reports with a concise analysis. To be provided to the landscape Architect / Client for approval. If the soil doesn't meet the BS standard specialist advise should be received to see if the soil can be improved.

2 Herbicide and Cultivation: Topsoil to be treated with an application of herbicide prior to planting, where necessary, strictly in accordance with the Control of Pesticides Regulations 1986 (or otherwise updated / superceded legislation), and following manufacturers instructions and undertaken by qualified staff. The topsoil shall then be cultivated to 150mm depth)

3 Container Grown Shrubs, Transplants and Whips: Shrubs and transplants shall comply with the National Plant Specification. Shrubs shall be planted in pits 300 x 300 x 200mm depth, and the backfill shall include 3 litres Peat Free Tree and Shrub Compost. Specimen plants to be planted in a pit 400 x 400 x250mm depth with 5 litres Tree and Shrub Compost.

4 Herbicide: Spot treat with herbicide throughout the maintenance period in accordance with the manufacturer's instructions.

5 Bark Mulch: All Ornamental Planting beds to receive 75mm depth pulverised ornamental bark mulch.

6 Position of Plants: Final position of trees and shrubs subject to confirmation of service location and approval of statutory undertakers.

7 On excavation of the tree pit a bucket test should be undertaken to review the water infiltration. Certain species of trees will decline if the ground drainage is poor. Monitor the water egress. If water sits for long periods or doesn't drain the pit may require further works to break up the ground. A clean stone drainage layer may assist to ensure that the root ball isn't sat within standing water.

TREES - HEAVY STANDARDS Tree pits for heavy standards to be 600x600x600mm backfilled with sub soil and 300mm topsoil. Stakes to be 65mm diameter treated softwood driven firmly into the ground. Stakes to be 600mm above ground level and fixed to tree with suitable rubber tree tie.

TREES - EXTRA HEAVY STANDARDS Tree pits to be 900x900x900mm backfilled with sub soil and 450mm topsoil. Stakes to be 65mm diameter treated softwood driven firmly into the ground. Stakes to be 1m above ground level and fixed to tree with suitable rubber tree tie. Add in 100mm depth clean stone gravel at the base of the tree pit to aid with drainage. Trees planted within grass to have 500mm diameter of 75mm depth pulverised ornamental bark mulch around the tree trunk.

TREES - MULTI STEMMED: Tree pits for multi-stemmed trees to be 600x600x600mm backfilled with sub soil and 300mm of topsoil. To be secured with a double stake and crossbar. Stakes to be 65mm diameter treated softwood driven firmly into the ground. Stakes to be 600mm above ground level and fixed to several tree branches with suitable rubber tree ties. Trees planted within grass to have 1500mm diameter of 75mm depth pulverised ornamental bark mulch around the tree trunk.

8 Watering: Plant only into moist soil and water thoroughly to the full depth of soil immediately after planting. Water regularly through the establishment period (minimum 3 months) to prevent dehydration. The trees should be watered through the irrigation pipe to ensure that the water gets down to the rootball. These trees should be watered regularly throughout spring-summer during the first 2 years to ensure that the tree root system establish well.

9 Tree species selected subject to soil conditions and NHBC guidance. Root barriers may be required subject to findings from soil analysis and engineer's details.

10 Wildflower Meadow:
Timing - Sow meadow during March/April or in September/October. When sowing into heavy soils, sow in March/April to avoid seeds/seedlings rotting in waterlogged soils.
Ground Preparation -
- Control or remove weeds before sowing. For small areas, remove weeds by hand. For larger areas, a weed suppressing membrane or black plastic can be laid over the area 3 months prior to sowing to prevent weed growth. For larger areas and where vigorous perennial weeds, such as nettles, docks and dandelions, are present in large number, non-chemical control methods may not be effective. In these situations instead spray off existing vegetation using non-residual systemic glyphosate-containing weedkillers
- Rotavate soil and rake to make even seed bed

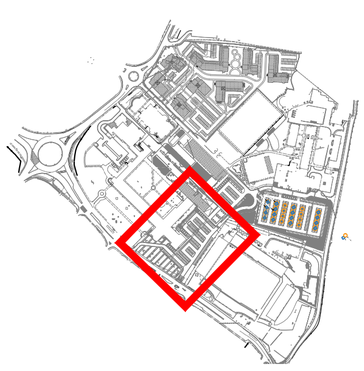
Sowing -
- Wildflower meadow to be sown at 4-5g per sqm
- Mix wildflower seed with silver sand to aid even seed distribution and to show area that have been covered. Sow half lengthways and half widthways for even coverage.
- Rake in seeds lightly

11 Grass Seeding: Sow late summer to mid-autumn. Prepare ground by removing any existing vegetation, large stones and roughly levelling. Grass seed should be spread at 50g per sqm. After sowing, lightly rake over area and water.

12 Turf: Complete ground preparations before turf is delivered to site to avoid turf drying out. Turf should be laid immediately on delivery. Remove all existing vegetation from area to be turfed and spread 150mm depth of top soil. Dig over or rotavate soil before laying turf if soil is compacted. Rake, lightly compact, and water soil. Stagger the joins when laying the turf. Water turf after laying and every day for the next 2-3 days, especially in periods of low rainfall.

Please refer to Countryside Properties', 'Specification for Soft Landscape Works & Maintenance' document for further information.

**LOCATION PLAN**



**REVISION NOTES**

| Rev | By | Description | Date |
|---|---|---|---|
| B | JS | Car park trees species amended | 08.09.23 |
| A | DC | Tree species amended in line with Santamour 1990 | 04.08.23 |

Client
Wrexham Gyndwr University

Project
Wrexham University

Description
Planting Plan (Sheet 3 of 3)

Status
For Approval

| Scale @ A1 | Drawn | Checked | Date |
|---|---|---|---|
| 1:250 | JW | DC | 23.12.22 |
| Job number | Drawing number | | Revision |
| 4180 | 203 | | B |

N


tpm landscape
chartered landscape architects
address: 4th Floor Studio 10 Little Lever St Manchester M1 1HR
tel: 0161 235 0600 fax 0601 email info@tpmlandscape.co.uk