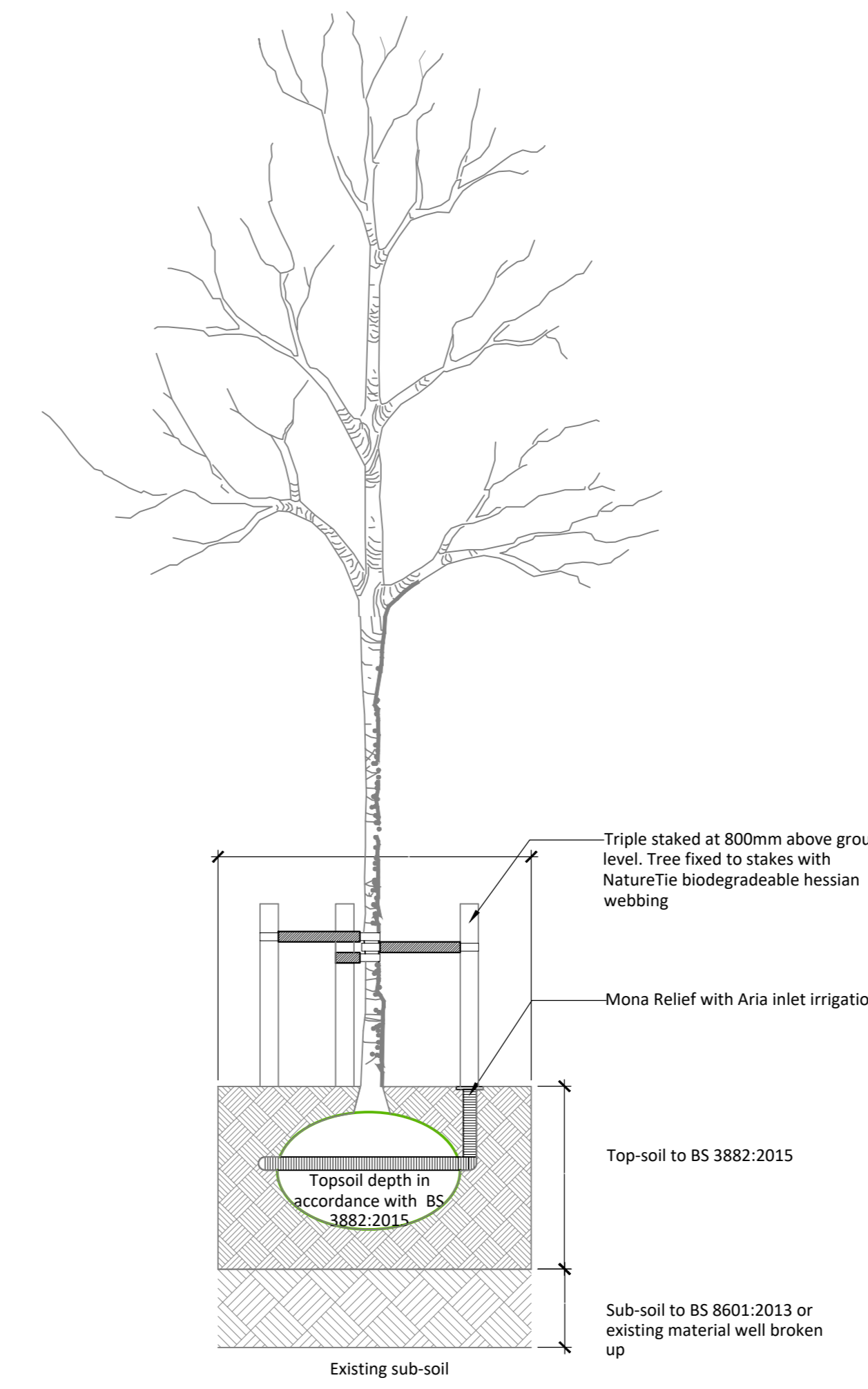


Planting Schedule

Plot 1	8 No. Vinca minor 'Bowles' Variety	3 No. Dryopteris filix-mas	3 No. Iris foetidissima	3 No. Tellima grandiflora
Plot 2	17 No. Hebe 'Mrs Winder'			
Plot 3	5 No. Calamagrostis 'Karl Foerster'	3 No. Euphorbia amy. robbiae	3 No. Vinca minor 'Bowles' Variety	
Plot 4	6 No. Calamagrostis 'Karl Foerster'	70 No. Hyacinthoides non-scripta		
Plot 5	8 No. Hydrangea 'Annabelle'	175 No. Hyacinthoides non-scripta		
Plot 6	10 No. Calamagrostis 'Karl Foerster'	115 No. Hyacinthoides non-scripta		
Plot 7	6 No. Anemthele lessoniana			
Plot 8	6 No. Cistus corbariensis			
Plot 9	11 No. Liriope muscari 'Big Blue'			
Plot 10	6 No. Anemthele lessoniana			
Plot 11	6 No. Lavandula angustifolia 'Munstead'			
Plot 12	17 No. Hebe pingulifolia 'Sutherlandii'			
Plot 13	13 No. Geranium mac. 'Czakor'			
Plot 14	9 No. Penstemon 'Garrett'			
Plot 15	9 No. Skimmia japonica 'Rubella'			
Plot 16	8 No. Cornus san. 'Midwinter Fire'			
Plot 17	6 No. Viburnum davidii			
Plot 18	11 No. Hydrangea 'Annabelle'			
Plot 19	Species groups of 3			
Plot 20	9 No. Viburnum davidii			
Plot 21	9 No. Euonymus 'Emerald Gaiety'			
Plot 22	6 No. Bergeia 'Purpurea'			
Plot 23	69 No. Polystichum setiferum			
Plot 24	8 No. Asplenium scolopendrium			



Planting specification

Topsoil
Imported topsoil is to comply with the British Standard BS 3882:2015 definition for Multipurpose grade topsoil, and is to be accompanied with a test certificate and horticultural analysis summary for approval by the landscape architect prior to delivery to site. Existing subsoil shall conform to BS8601:2013. Required topsoil depths specified below. Provide a minimum of one week's notice.

Subsoil
Subsoil areas to receive topsoil minimum 450mm depth after compaction. Grass areas to receive minimum 150mm depth after compaction. Subsoil beneath topsoil areas to be broken up to a depth of 300mm prior to placing topsoil. Avoid mechanical cultivation within the RPA's of existing trees.

Topsoil depths:
Grass turf/seed - 150mm
Hedge lines - 450mm
Woodland mix/shrub mix/brub planting - 450mm
Wildflower turf/seed - 100mm

ALL PLANTS - GENERAL

- Condition: Materially undamaged, sturdy, healthy and vigorous
- Appearance: Of good shape and without elongated shoots
- Hardiness: Grown in a suitable environment and hardened off
- Health: Free from pests, diseases, discoloration, weeds and physiological disorders
- Budded or grafted plants: Bottom worked
- Root system and condition: To requirements of National Plant Specification and balanced with branch system.
- All stock to be supplied bare root if in season. All stock to be supplied in container grown if planted out of season

Trees
Trees shall be set in pits 900mm Ø x 900mm depth. The base of the tree pit is to be broken up to a depth of 200mm and backfilled with topsoil consolidated in layers to allow the tree to be placed to the correct depth. The pit shall then be backfilled with a mixture of approved topsoil and peat free tree and shrub planting compost at the rate of one part compost to two parts topsoil and 70 -140g/m² Osmocote, Sierrablen Flora 15-9-9 + 3% MgO granular controlled release, or similar approved.

Small trees/ Specimen shrubs to be set in 750 x 750mm pits and backfilled with topsoil, compost and fertilizer mix at the rate described for trees above.

Each tree shall be planted to the nursery line and secured by three tree stakes 1.5m in length, 50mm diameter secured with NatureTie biodegradable webbing. One strap per stake looped around the trunk. Tree stakes shall be driven vertically into firmed ground to a depth of 700mm below the base of the tree pit. After planting all trees shall be thoroughly watered in to field capacity and a 75mm depth layer of Melcourt Ornamental Bark Mulch 5-35mm with minimal dust and fines and less than 5% wood content or similar approved spread over the tree pit. Allow one clear spiral guard and one 2.5m x 35mm Mona relief watering pipe with Aria inlet per tree. - Supplier Greentech Tel: 01423 332100.

After planting, thoroughly water to field capacity immediately without damaging or displacing plants or soil.
Trees planted in grass are to have a 1m diameter turf cut around the base of the tree and circle filled with bark mulch to 75mm depth.

Hedges
Hedge trenches shall be dug 450mm wide x 450mm deep, the base of which shall be broken up prior to returning the backfill mixture. This shall comprise two parts topsoil to one part peat free tree and shrub planting compost. Stock shall be planted at the distances given in the schedules. All stock shall be planted to the root collar and well firmed in place. Crataegus hedges in public areas shall be planted with biodegradable Rainbow Treobio spiral guards and canes.

All stock to be supplied bare root if in season. All stock to be supplied container grown if planted out of season.
All stock shall be thoroughly watered in to field capacity.
After planting, a 75mm layer of 5-35mm Melcourt contract bark mulch shall be spread over the trench to a width of 1m.

Shrub planting (ornamental)
All shrubs shall be set out to the positions shown on the drawing and to the densities given. All stock shall comply with the specification provided on the drawing.

Plants unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives which offer the closest possible match to the original specified, stating: Price; difference from specified plants/ trees. Obtain approval before making any substitution.

All shrub beds shall be topped up with good quality topsoil to ensure 450mm planting depth the base ground being thoroughly broken up before placement. Tree and shrub planting compost shall be spread to a minimum depth of 75mm and in addition evenly spread, 70 -140g/m² Osmocote, Sierrablen Flora 15-9-9 + 3% MgO granular controlled release, or similar approved, thoroughly working in during cultivation.

Shrub planting pits should be 150mm wider than roots when fully spread, Backfill with excavated material.

After planting, thoroughly water to field capacity immediately without damaging or displacing plants or soil.
Lightly firm soil around plants and rake soil to a fine tilth with gentle cambers and no hollows. Avoid damaging plants. A 75mm depth layer of Melcourt ornamental Bark Mulch 5-35mm with minimal dust and fines and less than 5% wood content or similar approved spread is to be spread over entire bed. The mulch shall be free of pests, disease, fungus and weeds.

After initial planting, supply and spray Grazers G1 to ornamental planting then every 6 weeks for the duration of the 12-month maintenance contract.

Native Shrub belt mix
Woodland shrub beds shall be soiled with good quality topsoil to a depth 300mm. Evenly spread 70 -140g/m² Osmocote, Sierrablen Flora 15-9-9 + 3% MgO granular controlled release, or similar approved, thoroughly working in during cultivation. Each woodland mix plant shall be planted in a 600mm GT Greenguard tree tube with one stake per plant. www.green-tech.co.uk
Spaced at 1.2m centres.

All stock to be supplied bare root if in season. All stock to be supplied in containers if planted out of season.
Mulched over whole bed to 75mm depth with 5-35mm Melcourt fine bark mulch.

Grass - turf
Rolawn Medallion* turf to BS3936
Supplier: Rolawn Ltd www.rolawn.co.uk

All areas are to be turfed shall be topsoiled to a minimum depth of 150mm over ground free of compaction by cultivation. The soil shall be fine graded to even running falls and cross raked to form a fine tilth. Before turfing an approved pre-turfing fertilizer shall be applied in accordance with the manufacturer's instructions. All edges to be cleanly cut with an edging iron, arisings removed from site.

Grass - seed
A4 - Low Maintenance Areas seed mixture
Supplier: Germinal www.germinal.com
Sowing rate: 35g per m²

All areas to be seeded shall be topsoiled to a minimum depth of 150mm over ground free of compaction by cultivation. The soil shall be fine graded to even running falls and cross raked to form a fine tilth.
Broadcast at rate to 35g/m². Rake/harrow seed mix into the soil to a maximum depth of 10mm.

Maintenance
Carry out the operations in the following clauses for a period of 12 months from the date of practical completion.

Plants/ trees/ shrubs that have failed to thrive (unless due to theft or malicious damage) within the 12-month period from the date of practical completion will be replaced with equivalent plants/ trees/ shrubs to match the original.

Remove soil and arisings from hard surfaces and gassed areas. Generally leave the works in a clean tidy condition at Completion and after any maintenance operations.

Maintain weed free areas around each tree and shrub. Keep planting beds clear of weeds. Take care not to reduce depth or effect of mulch. Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs. Tighten and straighten stakes if required.

Prune to promote healthy growth and natural shape removing: Dead, dying, diseased wood and suckers. Remove arisings. Trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well-balanced natural appearance. Cut back herbaceous material in autumn.

All shrub beds shall be thoroughly watered as necessary for the continued thriving of all planting. In times of water shortage obtain instructions before proceeding.

Re-mulch at the end of the 12-month maintenance period to a depth of 75mm ensuring that the soil is thoroughly moistened prior to re-mulching.

All planting shall be maintained in good order throughout the initial establishment period.

Visits: Twice a month between May and September and a total of three visits between October and April.

Spot treat persistent weeds with glyphosate-based translocated herbicide in accordance with manufacturer's instructions and in compliance with all necessary legislation and regulations using appropriately qualified staff.

All arisings are to be removed from site.

Grass areas
Grass areas are to be cut 18 times per year and the cuttings collected up and removed from site.

Native shrub belt mix planting
Areas shall be maintained weed and litter free at all times and shelters regularly checked for firmness. Any stakes that fall shall be replaced. All stock shall be watered in during periods of drought. At the end of the growing season each plant shall receive an application of slow release fertilizer. Any plants that die or fail to thrive shall be replaced with stock to the original specification. At the end of the defects period all trees and shrubs shall be inspected and any found to be dead or failing shall be replaced with stock to the original specification. Mulch shall be topped up to 75mm depth.

Master Plant Schedule

Number	Abbreviation	Species	Grith	Height	Specification
2 No.	Ac	Acer campestre	12-14cm	3.0-3.5m	Heavy Standard - Clear Stem 175-200 - Root balled
1 No.	AmI	Amelanchier laevis	12-14cm	3.0-3.5m	Heavy Standard - Clear Stem 175-200 - Root balled
2 No.	IaICVT	Ilex aquifolium 'J.C. van Tol'	12-14cm	3.0-3.5m	Heavy Standard - Clear Stem 175-200 - Root balled
1 No.	Lw	Laburnum watereri	12-14cm	3.0-3.5m	Heavy Standard - Clear Stem 175-200 - Root balled
1 No.	Ph	Platanus x hispanica	12-14cm	3.0-3.5m	Heavy Standard - Clear Stem 175-200 - Root balled
3 No.	PAm	Prunus 'Amanogawa'	12-14cm	2.5m	Feathered - Root balled
1 No.	PcC	Pyrus calleryana 'Chanticleer'	12-14cm	3.0-3.5m	Heavy Standard - Clear Stem 175-200 - Root balled
Total :11 No.					

Hedges

Number	Species	Pot Size	Height	Specification	Density
86 No.	Carpinus betulus	3L	Selected to 750mm	3/5 brks -C	5/m
51 No.	Griselinia littoralis	5L	Selected to 900mm	3/5 brks -C	4/m
Total :137 No.					

Shrubs

Number	Species	Pot Size	Height	Specification	Density
6 No.	Cistus corbariensis	3L	20-30cm	Bushy :3/4 brks -C	4/m ²
8 No.	Cornus san. 'Midwinter Fire'	3L	30-40cm	Branched -C	4/m ²
1 No.	Cotinus 'Grace'	10L	60-80cm	Leader With Laterals :5/7 brks -C	Counted
9 No.	Euonymus Emerald Gaiety'	3L	20-30cm	Branched :3/5 brks -C	4/m ²
12 No.	Hebe 'Mrs Winder'	3L	20-30cm	Bushy :3/5 brks -C	3/m ²
17 No.	Hebe pingulifolia 'Sutherlandii'	3L	20-30cm	Bushy :3/4 brks -C	4/m ²
12 No.	Hydrangea 'Annabelle'	3L	30-40cm	Branched :3/4 brks -C	Counted
19 No.	Hydrangea 'Annabelle'	5L	60-80cm	Branched :3/5 brks -C	3/m ²
6 No.	Lavandula angustifolia 'Munstead'	3L	20-30cm	Bushy :3/5 brks -C	4/m ²
9 No.	Skimmia japonica 'Rubella'	3L	20-30cm	Branched :3/5 brks -C	4/m ²
1 No.	Viburnum bodnantense 'Dawn'	15L	125-150cm	Leader With Laterals :5/7 brks -C	Counted
15 No.	Viburnum davidii	3L	25-30cm	Branched :3/4 brks -C	3/m ²
24 No.	Vinca minor 'Bowles' Variety'	2L	10-20cm	3/4 brks -C	No.
8 No.	Vinca minor 'Bowles' Variety'	2L	10-20cm	3/4 brks -C	3/m ²
69 No.	Vinca minor 'Gertrude Jekyll'	2L	10-20cm	Branched :3/4 brks -C	5/m ²
58 No.	Vinca minor 'Variegata'	2L	10-20cm	Branched :3/4 brks -C	5/m ²
Total :274 No.					

Herbaceous

Number	Species	Pot Size	Density
6 No.	Bergeia 'Purpurea'	3L	4/m ²
12 No.	Bergeia 'Purpurea'	3L	No.
12 No.	Epimedium rubrum	3L	No.
24 No.	Euphorbia amy. robbiae	2L	No.
49 No.	Geranium mac. 'Czakor'	2L	5/m ²
21 No.	Geranium mac. 'Czakor'	2L	No.
36 No.	Geranium mac. 'White-Ness'	2L	5/m ²
9 No.	Hosta sieboldiana	3L	No.
24 No.	Iris foetidissima	2L	No.
12 No.	Liriope muscari 'Big Blue'	3L	No.
11 No.	Liriope muscari 'Big Blue'	3L	4/m ²
9 No.	Penstemon 'Garrett'	2L	4/m ²
288 No.	Sedum 'Autumn Joy'	1L	8/m ²
24 No.	Tellima grandiflora	2L	No.
Total :537 No.			

Ferns

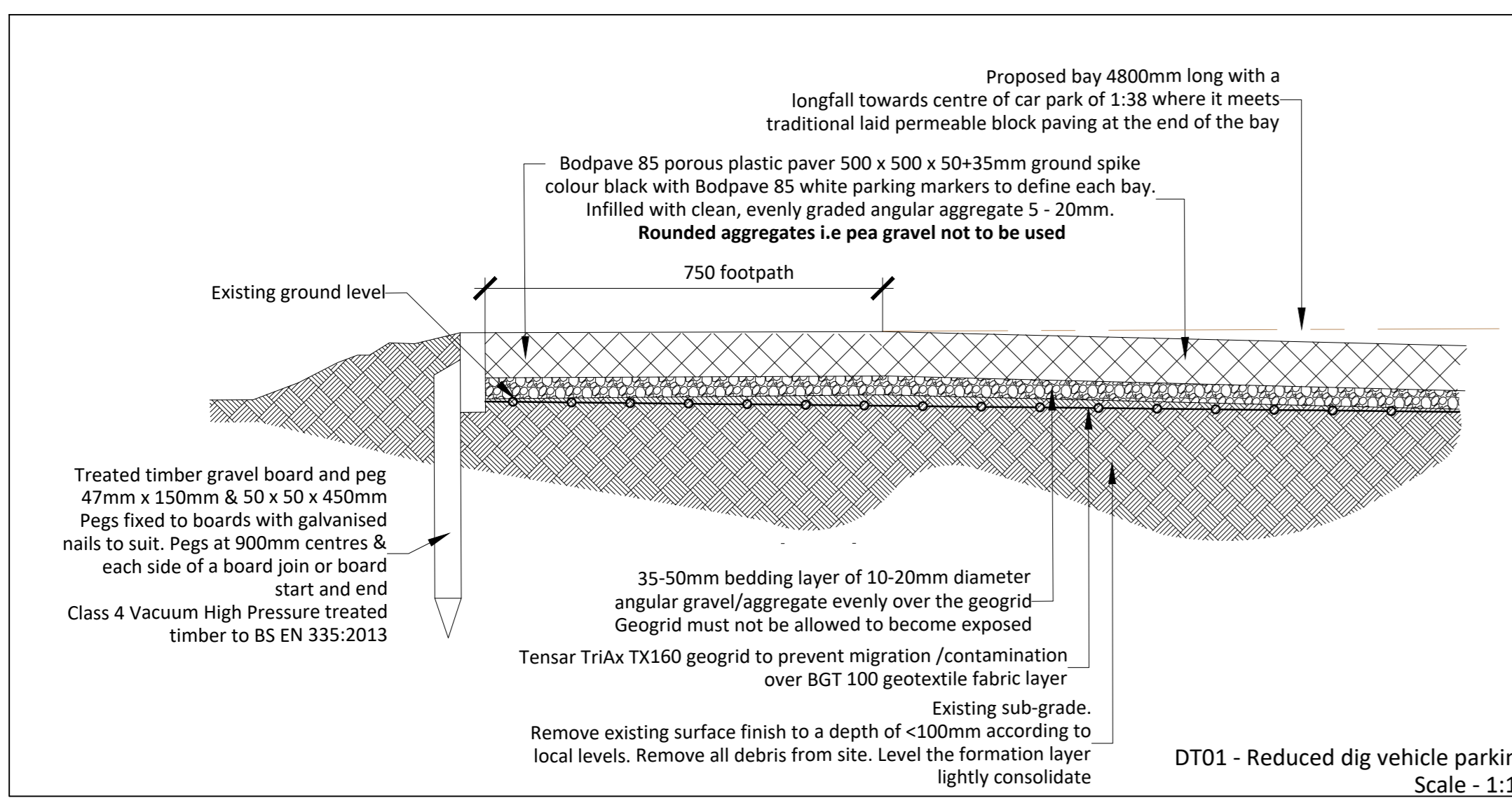
Number	Species	Pot Size	Density
8 No.	Asplenium scolopendrium	2L	5/m ²
24 No.	Dryopteris filix-mas	2L	No.
77 No.	Polystichum setiferum	2L	5/m ²
Total :109 No.			

Grasses

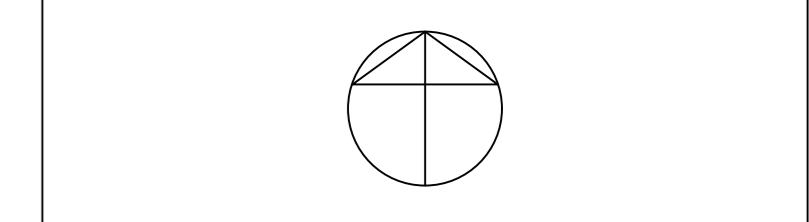
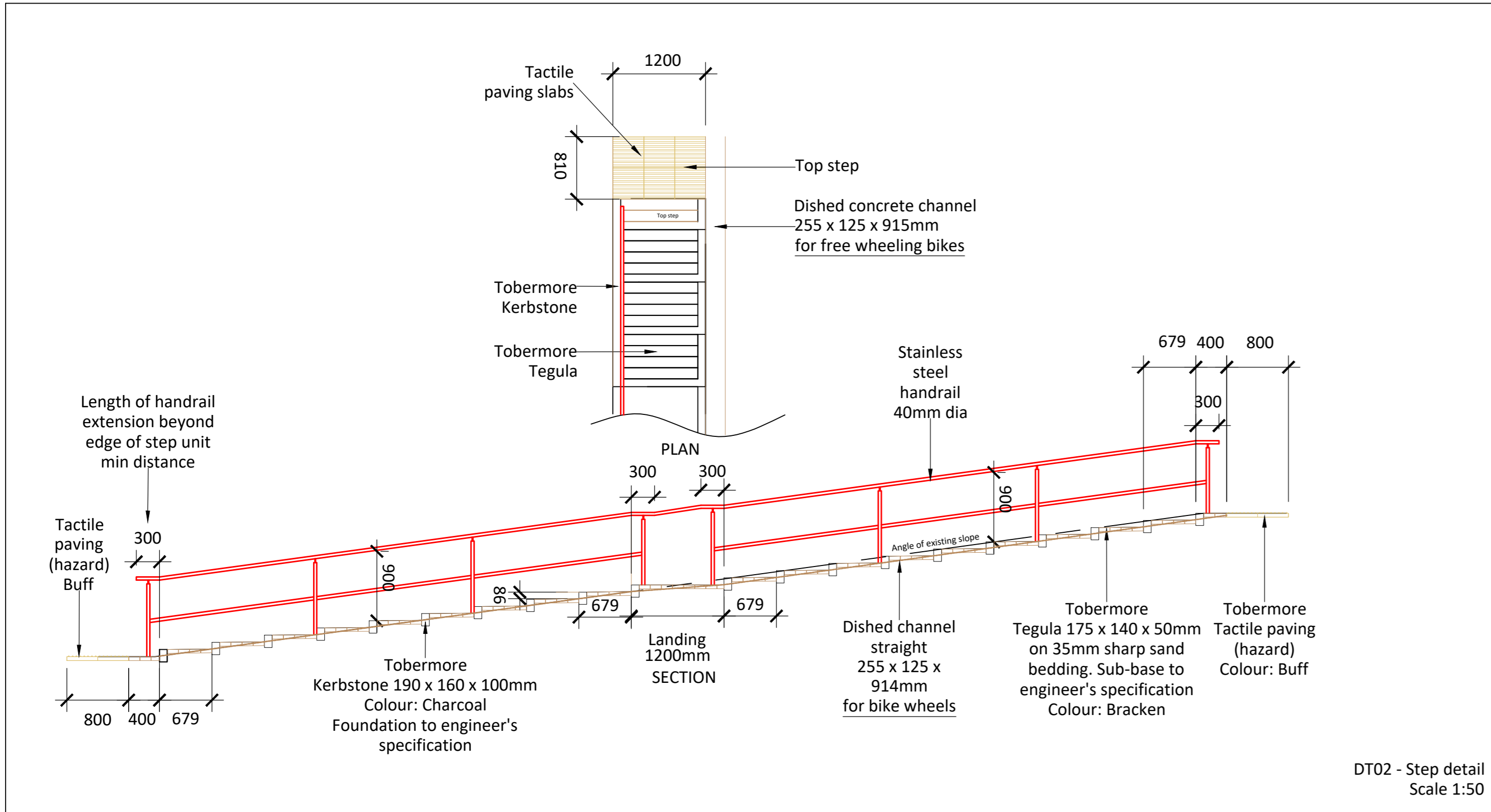
Number	Species	Pot Size	Density
12 No.	Anemthele lessoniana	3L	4/m ²
21 No.	Calamagrostis 'Karl Foerster'	3L	4/m ²
12 No.	Hakonechloa macroa	3L	No.
3 No.	Stipa gigantea	5L	Counted
Total :48 No.			

Bulbs

Number	Species
360 No.	Hyacinthoides non-scripta
Total :360 No.	



NOTE
 ** All Levels in the Tree protection area to remain the same as existing.
 ** Tanalised Timber Treatment



DESIGN RISK: PROJECT-SPECIFIC SIGNIFICANT RISKS

#	Hazard/Risk (Tables & services)	Mitigation/ Residual Risk
1	Underground/ overhead cables & services	Contractor's responsibility to check the location of underground services prior to carrying out works.
2	-	-
3	-	-
4	-	-
5	-	-

Key SF Soft Landscaping

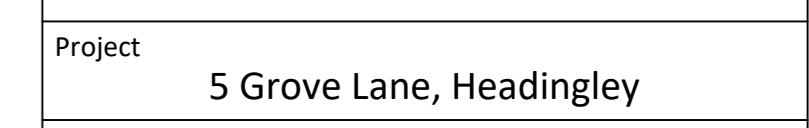
- Grass - turf
- Grass - seed
- Ornamental bed planting
- Proposed hedge
- Large specimen shrub
- Proposed tree heavy standard 12-14cm girth
- Groups of 3no. Hydrangea
- Groups of planting beneath existing trees
- Groups of bulbs beneath existing trees
- 50mm depth composted bark mulch beneath existing trees

Key SF Surface Existing

- Existing Breerton gravel topped up to proposed levels
- Tobermore Textured Flags 450 x 450 x 50mm, Natural
- Indian Sandstone flags to match existing, random rectangular bond, 10mm mortar joints
- Terram Board 85 - see DT01
- Class 4 Vacuum high pressure treated timber gage board and peg edging to BS EN 335:2013

FOR INFORMATION

Rev.	Date	Comments	Drawn	Checked
C	22.11.23	Minor adjustments to key	IB	MS
B	15.11.23	Dimension of steps confirmed	IB	MS
A	08.09.23	Changes to conform with LCC planning officer comments	IB	MS



Project
5 Grove Lane, Headingley

Title
Hard and soft landscape proposals

Project No. SF 3188
Drawing No. L101

Scale 1:200 Scale @ A0
Date 12.09.00

Drawn by IB
Checked by MS

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