Trees				
Number	Species	Girth	Height	Specification
3 No.	Betula pendula		1.5-1.8m	Feather
2 No.	Quercus petraea	14-16cm		Extra Heavy Standard
2 No.	Sorbus aucuparia 'Edulis'	16-18cm		Extra Heavy Standard
1 No.	Sorbus aucuparia 'Edulis'	14-16cm		Extra Heavy Standard
7 No.	Tilia cordata 'Green Spire'	14-16cm		Extra Heavy Standard
Total :15 No.				

Native Hedge Mix			
Number	Species	Height	Density
385 No.	Crataegus monogyna	600-900mm	5/m
43 No.	Ilex aquifolium	600-900mm	5/m
Total :428 No.			

Hedges				
Number	Species	Height	Specification	Density
117 No.	Lonicera pileata 'Moss Green'	400-600mm	Double-staggered row	5/m
832 No.	Prunus l. 'Rotundifolia'	Selected to 90cm	3 brks :single row	4/m
Total :949 No.				

Shrubs				
Number	Species	Pot Size	Specification	Density
62 No.	Euonymus 'Emerald Gaiety'	3L	C	5/m²
3 No.	Viburnum davidii	7.5L	C	Counted
38 No.	Viburnum opulus	3L	C	4/m²
18 No.	Viburnum opulus	10L	C	Counted
Total :121 No.				

Herbaceous				
Number	Species	Pot Size	Specification	Density
62 No.	Euphorbia amy. robbiae	3L	C	5/m²
Total :62 No.				

Woodland Shrub Mix			
Number	Species	Height	Density
207 No.	Corylus avellana	600-900mm	1.5Ctr
16 No.	Crataegus monogyna	600-900mm	1.5Ctr
60 No.	Ilex aquifolium	350-400mm	1.5Ctr
16 No.	Prunus spinosa	600-900mm	1.5Ctr
Total :299 No.			

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.
Provide a minimum of one week's notice.

Shrub areas are 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 500mm prior to placing topsoil. Import subsoil to ensure 500mm depth as necessary.

Trees
All plant material is to be inspected by the landscape architect prior to delivery to site. Provide a minimum of one week's notice.
Trees are to be planted in the following manner:
Small trees and specimen shrubs in pits 700mm Ø x 700mm depth, secured with a single stake 50mm Ø x 1.2m set at an angle of 45º and secured with a supersoft tree tie. Root sall fitted with a Mona relief Aria inlet 1.25m x 35mm irrigation pipe. Allow one clear spiral guard per tree.
Extra heavy standard trees in pits 1200mm Ø x 900mm deep, secured with 3No. 50mm Ø x 1.5m length stakes, spacer sleeves and belting to suit. Root balls fitted with a Mona relief Aria inlet 4m x 35mm irrigation pipe.
Allow one clear spiral guard per tree.
Tree pits are to be backfilled with a mixture of approved topsoil and 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.
After planting all trees shall be watered in and a mulch layer of Melcourt composted fine bark mulch or similar approved to 50mm depth to a radius of 600mm.
Supplier Greentech Tel: 01423 332100 or similar approved.

Shrub planting (ornamental)
PLANTS - GENERA;
- 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 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, 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 50mm 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.
Excavate shrub planting pits 150 mm wider than roots when fully spread. Backfill with excavated material.
After planting thoroughly water immediately without damaging or displacing plants or soil.
Lightly firm soil around plants and fork and/ or rake soil, to a fine tilth with gentle cambers and no hollows. Avoid dimaging plants. Mulch planting all beds to a depth of 50mm with Melcourt composted fine bark or similar approved. The mulch should 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.

Woodland shrub planting
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. A 75mm layer of contract grade mulch 1-65mm particle with less than 25% wood content shall be spread over all woodland shrub areas.

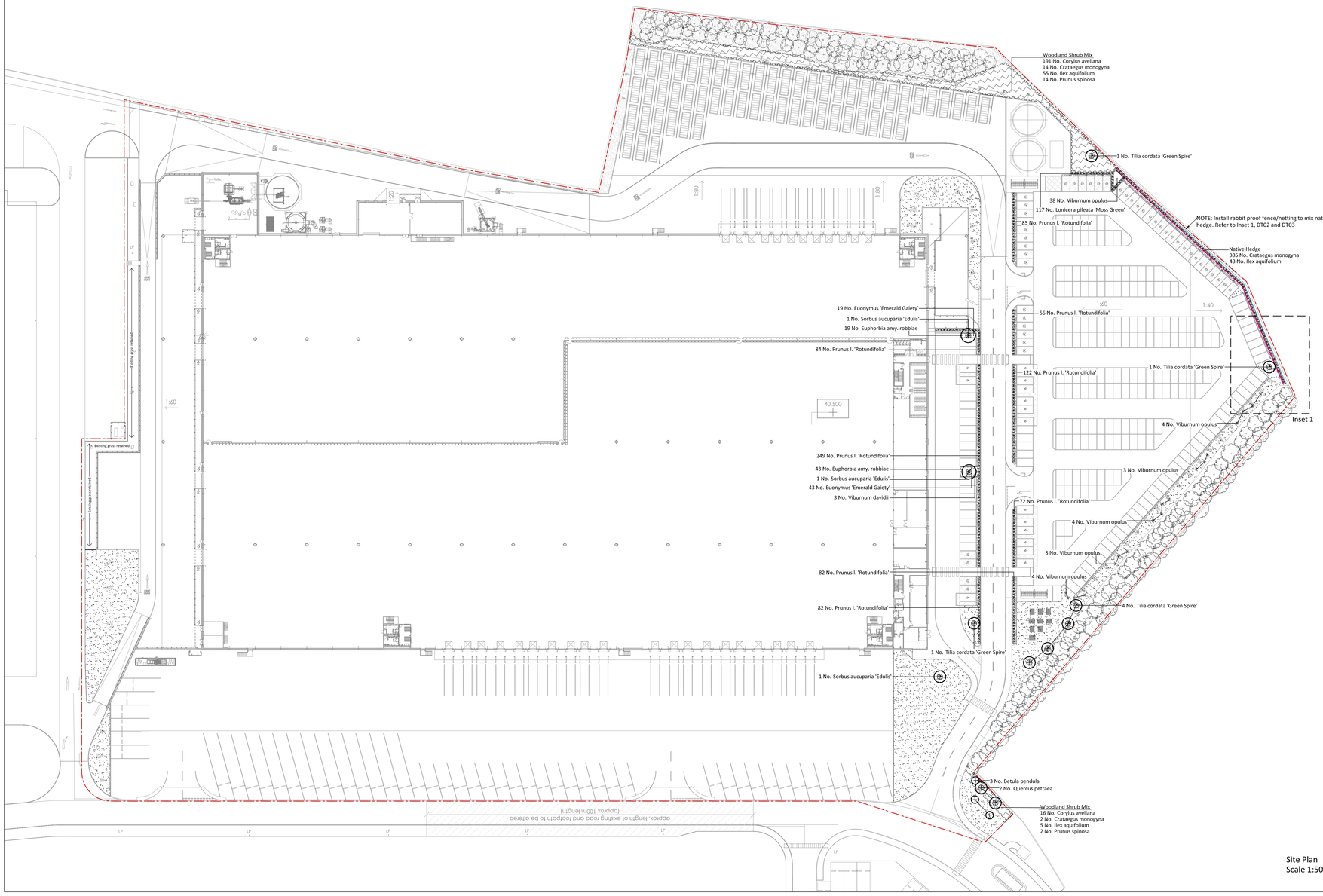
Hedges
Hedge trenches shall be dug 450mm wide x 450mm deep, the base of which shall be broken up prior to returning the backfill mixture. This shall comprise two parts topsoil to one part tree and shrub planting compost. Stock shall be planted at the distances given in the schedules. Single species hedges are to be planted in single line rows to the density shown. All stock shall be planted to the root collar and well firmed in place. A 50mm layer of Melcourt ornamental bark or similar approved shall be spread over the trench. All stock shall be thoroughly watered in.

Grass seed
John Chambers Grass Seed Prize lawn or equal and approved seed mixture
Product code: 120GS1130-PRO
Supplier: John Chambers www.johnchamberswildflowers.co.uk
Sowing rate: 35g per m²
Typical Mixture: Amenity PRG, Chewings Fescue, Slender Red Fescue, Dwarf Turf Perennial, Browntop Bent.

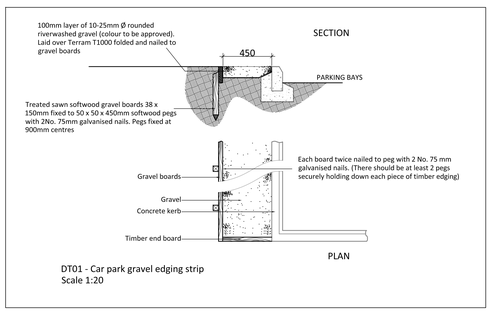
All areas to be seeded shall be topsoiled to a minimum depth of 150mm over ground free of compaction by cultivation. The soil shall be fine graded to even running falls and cross raked to form a fine tilth.
Broadcast at rate to 35g/m². Rake/harrow seed mix into the soil to a maximum depth of 10mm.

Maintenance (prior to occupation)
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 grassed areas. Generally leave the works in a clean tidy condition at Completion and after any maintenance operations.
Maintain weed free area 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. Trim lavender after flowering. 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 50mm ensuring that the soil is thoroughly moistened prior to re-mulching.
All planring 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.
All arisings are to be removed. Spot treat persistent weeds with glyphosate.

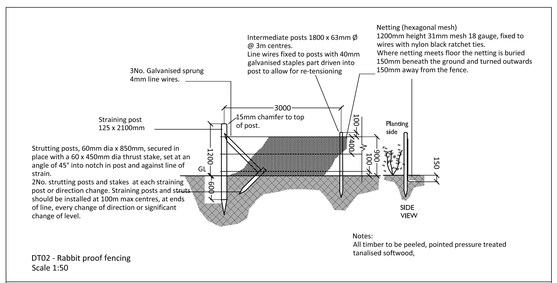
Grass Areas
Grass areas are to be cut 18 times per year and the cuttings collected up and carted off.



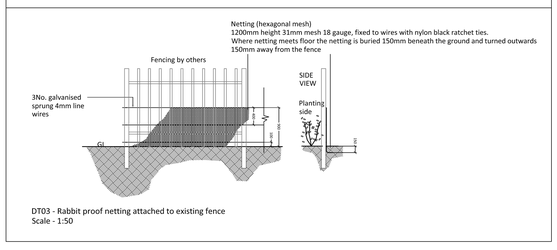
Site Plan
Scale 1:500



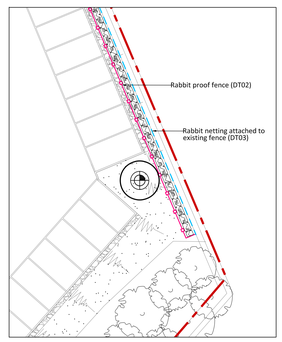
DT01 - Car park gravel edging strip
Scale 1:20



DT02 - Rabbit proof fencing
Scale 1:50



DT03 - Rabbit proof netting attached to existing fence
Scale - 1:50



Inset 1
Scale 1:200

Key
SF Soft Landscaping

- Site boundary
- Grass seed
- Proposed woodland shrub mix
- Proposed tree feathered
- Proposed tree extra heavy standard 14-16cm girth
- Proposed tree extra heavy standard 16-18cm girth
- Proposed hedge
- Spot planting
- 450mm gravel step out strip - see DT01
- Rabbit proof fencing - see DT02
- Rabbit proof netting (attached to boundary fence) - see DT03

FOR INFORMATION

Rev.	Date	Comments	Drawn	Chkd
D	23.06.20	Reduced planting following comments	TM	MS
C	22.06.20	Reduced planting following comments	TM	MS
B	16.06.20	Extended woodland shrub mix on western boundary. Removed some planting around entrance.	TM	MS
A	15.06.20	Corrected north arrow. Updated following comments.	TM	MS

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Project	Pen Hill Estate, Grimethorpe
Title	Landscape Proposals
Project No. SF 3012	Drawing No. LL01
Rev. D	
Scale As shown @ A0	Date 12.06.2020
Drawn by CR	Checked by MS

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