Planting specification

Topsoil
Prior to supply and spreading of topsoil, all subsoil areas are to be ripped (subject to site specific conditions) to a minimum depth of 300mm and all stones and debris exceeding 80 x 80 x 100mm standard for Topsoil, Annex A Recommendations for stripping, handling and preparing topsoil.

The 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.

Existing subsoil to be broken up to 300mm depth in planting areas.
Topsoil depths:
Grass turf/seed - 150mm depth
Hedge lines - 450mm depth
Shrub planting - 450mm depth

Trees
Trees shall be set in pits 900mm Ø x 900mm depth, backfilled with a mixture of approved topsoil and soil improver at the rate of 1 barrow load per 3 litre container size or equivalent. Apply Fertiliser 140gm² Osmocote, Sarnadon Flora 15-9-9 + 3% MgO granular controlled release, or similar approved. Each tree shall be planted to the original depth and secured by two stakes 1.8m in length and a timber cross bar secured at 1.5m above ground level. Ties shall be of rubber buckle type secured around a 50mm 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 Mara rated watering pipe with 4no inlet per tree. - Supplier Smeetham Tel: 01422 332100 or similar approved.
Water trees thoroughly at time to time a 1m diameter turf cut around the base of the tree and circle filled with bark mulch to 50mm depth.

Woodland Mix
Spaced at 2m centres.
All stock to be supplied bare root if in season. All stock to be supplied in containers if planted out of season.
Protect in Tubex Mesh range, 75cm, 12mm netting w/o lining, colour green with stakes and ratchet ties, or similar approved.
Ring mulched to 600m Ø 50mm depth with 5-35mm Melcourt fine bark mulch.
Undersown with wildflower seed WF62

WF62 - Flowering Meadow or equal and approved.
Supplier: Wildflower Turf
www.wildflowerturf.com
Sowing rate: 5g per m²

Shrub Mix
Spaced at 1.5m centres.
All stock to be supplied bare root if in season. All stock to be supplied in containers if planted out of season.
Protected in Tubex Mesh range, 75cm, 12mm netting w/o lining, colour green with stakes and ratchet ties, or similar approved.
Mulched over whole bed to 50mm depth with 5-35mm Melcourt fine bark mulch.

Shrub planting
Plant to BS 8545:2014
Condition: Materially undamaged, sturdy, healthy and vigorous.
Appearance: Of good shape and without elongated shoots.
Roots: Fibrous, healthy, free from significant defects, undamaged.
Health: Free from pests, diseases, discoloration, wounds 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 knows to be likely to be unobtainable at time of ordering: Submit alternatives, stating: Price; difference from specified plants' trees. Obtain approval before making any substitutions.
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 Melcourt SylvaGrow or equal and approved soil conditioner mixed in at the rate of 1 barrow load. Sarnadon Flora 15-9-9 + 3% MgO granular controlled release, or similar approved, thoroughly working in during cultivation.
Shrub planting pits should be 150 mm wider than roots when fully spread. Backfill with excavated material.
Water 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 damaging plants. A 50mm 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.

Hedges
Hedge trenches shall be dug 450mm wide x 450mm deep, the base of which shall be broken up prior to 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. A 50mm layer of Melcourt ornamental bark or similar approved shall be spread over the trench. All stock shall be thoroughly watered in.

Grass - turf
Rolawn MaxaBlue® turf to BS3936 (Or equal and approved turf)

Typical mixtures:
- Extra Perennial Ryegrass 12.5%
- Sauvignon Perennial Ryegrass 12.5%
- Swingle Strong Creeping Red Fescue 15%
- Universe Slender Creeping Red Fescue 15%
- Musica Chewings Fescue 20%
- Corsi Smooth Stalked Meadow Grass 10%
- Limousine Smooth Stalked Meadow Grass 10%

Supplier: Rolawn Ltd
www.rolawn.co.uk

All areas 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 fertiliser shall be applied in accordance with the manufacturer's instructions. All edges to shrub beds will be cleanly cut with an edging iron, arisings removed from site.

Grass - seed
A18 - Road Verge and Embankments, or equal and approved seed mixture.
Supplier: Emorsgate Seeds www.wildseed.com
Sowing rate: 25g per m²

Typical Mixture:
- Excel Creeping Red Fescue 30%
- Prior Perennial Ryegrass 25%
- Ivanne Chewings Fescue 20%
- Euros Smooth Stalked Meadow Grass 12.5%
- Dawn Sheeps Fescue 7.5%
- Allendale Miniature White Clover 2.5%
- Allie Rosé Browntop Bent 2.5%

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 50mm.

Maintenance
Woodland mix/shrub mix planting
Areas shall be maintained weed and litter free at all times and shelters regularly checked for damage and repaired. Plants shall be watered as necessary for the continued thriving of all planting in drought. At the end of the growing season each plant shall receive an application of slow release fertiliser. Any plants that die or fail to thrive shall be replaced with stock to the original specification. The wildflower within the woodland mix area is to be strimmed twice a year. At the end of the defects period all trees 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 50mm depth.

General
Carry out the operations in the following classes for **a period of 12 months** from the date of practical completion.
Replace any plants 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 and tidy condition at Completion and after any maintenance operations.
Keep planting areas weed free by hoeing, hand weeding or applying approved doses of weedkiller over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to replace depth or effect of mulch.
Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs. Tighten and straighten stakes if required.
Keep trees/ shrubs generally weed 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 plants to ground level.
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.
Apply fertiliser at 70g/m² Sarnadon Flora 15-9-9 + MgSplus at the initial establishment period.
Visits: Twice a month between May and September and a total of three visits between October and April.
Grass areas are to be cut 18 times per year and the cuttings collected up and carted off.
All arisings are to be removed. Spot treat persistent weeds with glyphosate.

Trees			
Number	Species	girth	Specification
4 No.	Acer campestre	14-16cm	Extra Heavy Standard
17 No.	Betula pendula		3-3.5 BR
11 No.	Betula pendula	14-16cm	Extra Heavy Standard
3 No.	Quercus robur		3-3.5 BR
7 No.	Tilia cordata		3-3.5 BR
15 No.	Fraxinus ornus		3-3.5 BR
11 No.	Pyrus calleryana		RB
17 No.	Quercus robur		3-3.5 BR
1 No.	Quercus robur	14-16cm	Extra Heavy Standard
1 No.	Quercus robur	16-18cm	Extra Heavy Standard
6 No.	Tilia cordata	14-16cm	Extra Heavy Standard
7 No.	Tilia cordata	16-18cm	Extra Heavy Standard
Total: 120 No.			

Native Hedges					
%	Number	Species	Height	Specification	Density
6%	18 No.	Acer campestre	60-80cm	Double staggered row	3/m
8%	38 No.	Corylus avellana	60-80cm	Double staggered row	3/m
8%	38 No.	Crataegus monogyna	60-80cm	Double staggered row	3/m
3%	18 No.	Ilex aquifolium	60-80cm	Double staggered row	3/m
6%	29 No.	Viburnum opulus	60-80cm	Double staggered row	3/m
Total: 100%	Total: 472 No.				

Woodland Mix					
%	Number	Species	Height	Specification	Density
25%	17 No.	Betula pendula	60-90cm	1+1 BR	2/m
10%	7 No.	Corylus avellana	90-90cm	1+1 BR	2/m
5%	4 No.	Crataegus monogyna	60-90cm	1+1 BR	2/m
10%	7 No.	Fagus sylvatica	90-90cm	1+1 BR	2/m
5%	4 No.	Ilex aquifolium	60-90cm	1+1 BR	2/m
5%	4 No.	Prunus avium	90-90cm	1+1 BR	2/m
5%	4 No.	Quercus robur	90-90cm	1+1 BR	2/m
15%	10 No.	Sambucus nigra	60-90cm	1+1 BR	2/m
15%	10 No.	Viburnum opulus	60-90cm	1+1 BR	2/m
Total: 100%	Total: 67 No.				

Shrub Mix					
%	Number	Species	Height	Specification	Density
15%	119 No.	Corylus avellana	90-90cm	1+1 BR	1.5/m
10%	79 No.	Crataegus monogyna	90-90cm	1+1 BR	1.5/m
5%	11 No.	Fraxinus ornus	90-90cm	1+1 BR	1.5/m
5%	11 No.	Ilex aquifolium	90-90cm	RB	1.5/m
5%	11 No.	Ligustrum vulgare	90-90cm	RB	1.5/m
5%	11 No.	Prunus spinosa	90-90cm	RB	1.5/m
10%	21 No.	Viburnum opulus	90-90cm	1+1 BR	1.5/m
Total: 100%	Total: 236 No.				

Hornbeams				
Number	Species	Pot Size	Density
46 No.	Pleioscad Lufthiz Tempelling Red	2 L	As/m²
Total: 46 No.			

Shrubs			
Number	Species	Pot Size	Density
43 No.	Cornus stolonifera 'Flaviramea'	3L	3/m²
160 No.	Lonicera nitida 'Maxy Green'	3L	3/m²
Total: 214 No.			

Ornamental Hedge			
Number	Species	Pot Size	Density
46 No.	Pleioscad Lufthiz Tempelling Red	2 L	As/m²
Total: 46 No.			

Date valid 25/07/2019

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Key
SF Soft Landscaping
- Grass - turf/seed as indicated
- Ornamental bed planting
- Proposed hedge within rabbit proof fencing - see DT02
- Proposed tree extra heavy standard 16-18cm girth
- Proposed tree extra heavy standard 16-18cm girth

Key
SF Hard Landscaping
- Car park gravel edging strip - see DT02
- Fence to picnic area (by others)

FOR INFORMATION

Rev	Date	Comments	Drawn	Chkd
A	14.06.19	Updated layout		EC

SMEEDEN FOREMAN
Landscape Architecture | Ecology | Arboriculture
Pennine House, Stone Bridge Mill Office Park, Wood Street, Stanley, WF3 4TE
Tel: 01924 827083 Fax: 01924 825700 Email: mail@smeedenforeman.co.uk

Project
Malton PFS

Title
Landscape Proposals

Project No.	Drawing No.	Rev.
SF 2965	LL01	A

Scale	Date
1:200 @ A0	14.06.19
Drawn by	Checked by
TM	EC

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