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Approved: JScott Drawn: DW
Checked: HR
Designer: DW
Project Management Initials: Revision: C02

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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

AECOM
Midpoint, Alençon Link,
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NOTES

- GENERAL NOTES
- THIS DOCUMENT IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
 - DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 - ALL DIMENSIONS IN MILLIMETRES. ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES, UNLESS DEFINED OTHERWISE.
 - DEFENCE LENGTH/EXTENT SHOWN ARE APPROXIMATE. THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
 - EXISTING PATH LEVELS VARIES ALONG DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRM (LANG-ACM-ZZ-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
FRONTAGE 1A DRAWINGS - #1101 TO #1103
SITE CLEARANCE PLAN - #011030

DRAWING SPECIFIC NOTES:
8. TREE LOCATIONS SUBJECT TO SITE CONDITIONS AND TO BE AGREED ON SITE.

LEGEND

- MIX 1 - HEDGEROW SEED MIX
- MIX 2 - STANDARD GENERAL PURPOSE MEADOW MIX
- MIXED NATIVE SPECIES PLANTING
- PROPOSED TREES
- EXISTING TREES RETAINED
- EXISTING VEGETATION RETAINED WHERE POSSIBLE
- MACADAM SURFACING (to engineers details)
- PROPOSED TIPTREE BENCH SEATING WITH MACADAM SURROUND AND PCC EDGING
- WESTLEIGH TIMBER SLATTED LITTER BIN
- INTERPRETATION BOARD LOCATION DETAILS TBC
- BAT BOX LOCATIONS: 3 NO. TYPE SCHWEGLER 3P; 3-4M MINIMUM OFF THE GROUND; SOUTH, EAST, WEST ORIENTATION

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
C02	17/12/25	CP amendments
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

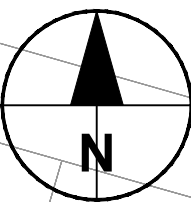
SHEET TITLE

FRONTAGE 1A
LANDSCAPE LAYOUT

SHEET NUMBER

LANG-ACM-LS-F1A-DR-LA-011020

TREES: FRONTAGE 1A										
All standard tree to be double staked (as detail) and protected with a biodegradable tree guard (GreenTech Bio-earth tree shelter or equivalent). All trees to have bark mulch (either chipped if suitable from arisings of clearance or locally sourced bark chip mulch) to 75mm depth.										
CODE	Latin name	Common name	Form	Age / Condition	Girth	Height	Clear stem	Roots	Container	No.
AC	<i>Acer campestre</i>	Field Maple	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	5
AP	<i>Acer pseudoplatanus</i>	Sycamore	Standard (Extra Heavy)	3x	16-18	450-625	min 200	RB		4
CA	<i>Corylus avellana</i>	Hazel	Feathered	2x		125-150		B		3
CM	<i>Crataegus monogyna</i>	Hawthorn	Feathered	2x		125-150		B		2
PO	<i>Populus x canescens</i>	Grey poplar	Standard	3x	16-18	min 450	min 200	RB		2
PT	<i>Populus tremula</i>	Aspen	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	3
PA	<i>Prunus avium</i>	Wild Cherry	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	2
PC	<i>Prunus cerasifera</i>	Cherry Plum	Standard	3x	16-18	min 450	min 200	RB		2
PP	<i>Prunus padus</i>	Bird Cherry	Standard	3x	16-18	min 450	min 200	RB		2
PS	<i>Prunus spinosa</i>	Blackthorn	Feathered	2x		125-150		B		3
QR	<i>Quercus robur</i>	Common Oak	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	7

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4. REFERENCE LENGTHS/TENT SHOWN ARE APPROXIMATE. THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
5. EXISTING PLANT LEVELS VARIES ALONG DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRM (LANG-ACHA-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
7. ALSO REFER TO DRAWING FRONTAGE 1A DRAWINGS - #H1201 TO #H1206 SITE CLEARANCE PLAN - #H01301

DRAWING SPECIFIC NOTES:
8. TREE LOCATIONS SUBJECT
TO BE AGREED ON SITE

LEGEND

	MIX 1 - HEDGEROW SEED MIX
	MIX 2 - DIVERSE MEADOW MIX
	MIX 3 - COASTAL MEADOW SEED MIX
	MIXED NATIVE SPECIES PLANTING
	PROPOSED TREES
	EXISTING TREES RETAINED
	EXISTING VEGETATION RETAINED WHERE POSSIBLE
	MACADAM SURFACING (to engineers details)
	PROPOSED TREETREE BENCH SEATING WITH MACADAM SURROUNDING AND PCC EDGING
	BEE POST
	INTERPRETATION BOARD LOCATION DETAILS TBC
	MIXED NATIVE INSTANT HEDGE

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
P03	26/02/24	100% Detailed Design
C01	26/02/24	Construction Issue
P04	03/02/25	FOR PLANNING
C02	03/02/25	FOR PLANNING
C03	17/12/25	CP amendments
I/R	DATE	DESCRIPTION

Detail Design Authorised/Accepted

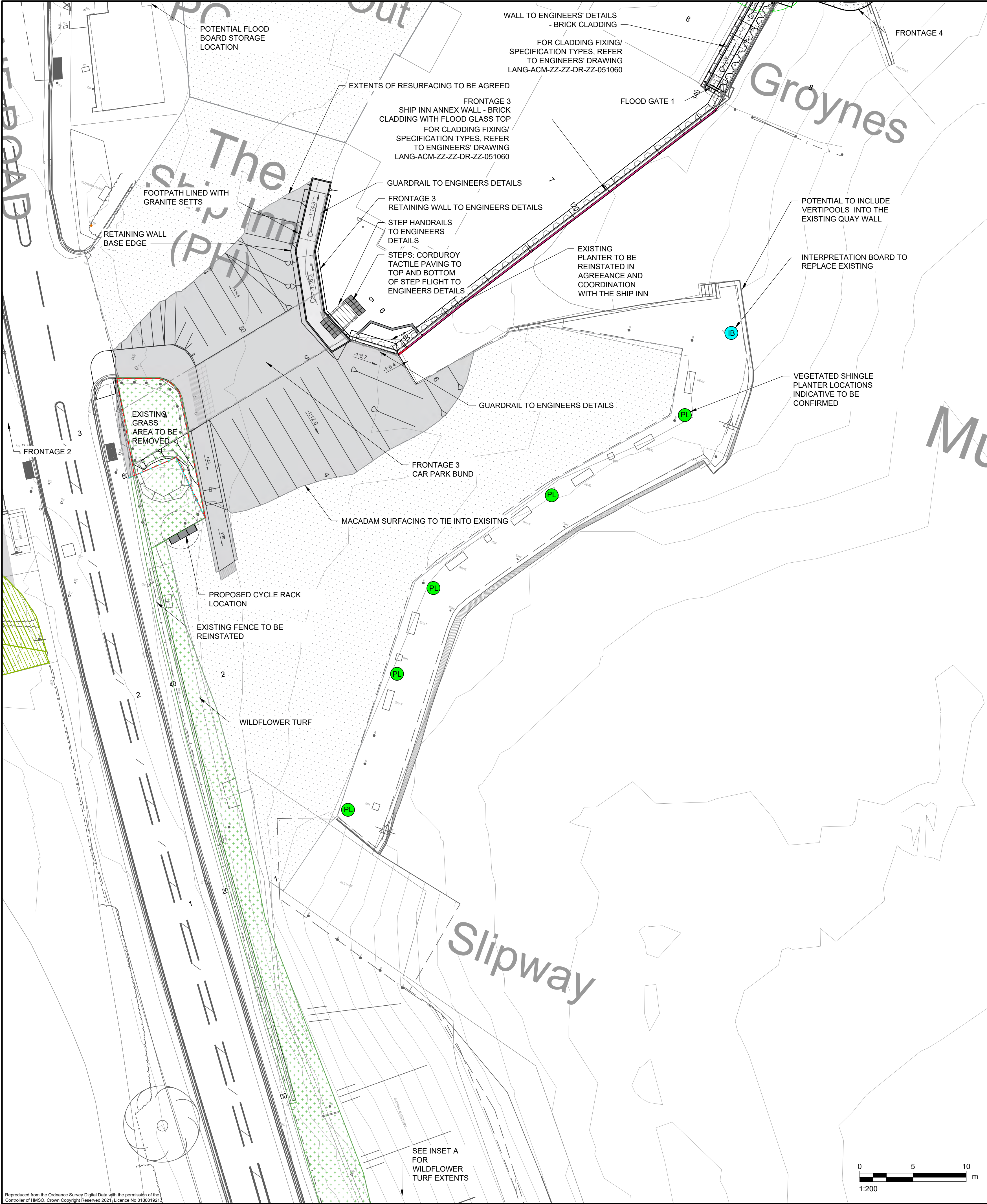
60656877

FRONTAGE 2 LANDSCAPE LAYOUT

LANG-ACM-LS-F2-DR-LA-011021

TREES: FRONTAGE 2										
All standard tree to be double staked (as detail) and protected with a biodegradable tree guard (GreenTech Bio-earth tree shelter or equivalent).										
All trees to have bark mulch (either chipped if suitable from arisings of clearance or locally sourced bark chip mulch) to 75mm depth.										
CODE	Latin name	Common name	Form	Age / Condition	Girth	Height	Clear stem	Roots	Container	No.
AC	<i>Acer campestre</i>	Field Maple	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	2
CA	<i>Corylus avellana</i>	Hazel	Feathered	2x		125-150		B		7
CM	<i>Crataegus monogyna</i>	Hawthorn	Feathered	2x		125-150		B		1
MD	<i>Malus domestica</i>	Apple	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	2
MS	<i>Malus sylvestris</i>	Crab Apple	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	3
PO	<i>Populus x canescens</i>	Grey poplar	Standard	3x	16-18	min 450	min 200	RB		1
PT	<i>Populus tremula</i>	Aspen	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	1
PA	<i>Prunus avium</i>	Wild Cherry	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	1
PP	<i>Prunus padus</i>	Bird Cherry	Standard	3x	16-18	min 450	min 200	RB		1
PS	<i>Prunus spinosa</i>	Blackthorn	Feathered	2x		125-150		B		2
QR	<i>Quercus robur</i>	Common Oak	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	4

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- ALSO REFER TO DRAWINGS: FRONTAGE 1A DRAWINGS - ##1301 TO ##1306 SITE CLEARANCE PLAN - #011032

DRAWING SPECIFIC NOTES:

- TREE LOCATIONS SUBJECT TO SITE CONDITIONS AND TO BE AGREED ON SITE.

LEGEND

- WILDFLOWER TURF
- MACADAM SURFACING (to engineers details)
- GRANITE SETTS AS DEMARCATION TO PATHWAY OF THE SHIP INN CAR PARK (to engineers details)
- 4 NO. STAINLESS STEEL CYCLE STANDS
- OPPORTUNITY TO RESURFACE MACADAM CAR PARK (subject to agreement and funding TBC)
- INTERPRETATION BOARD LOCATION DETAILS TBC
- PROPOSED VEGETATED SHINGLE PLANTER LOCATIONS
- EXTENTS OF VEGETATION REMOVAL

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P01	21/11/23	100% Detailed Design
P02	08/02/24	Updated to review comments
P03	26/02/24	Construction issue
C01	26/02/24	Construction Issue
C02	17/12/25	CP amendments

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

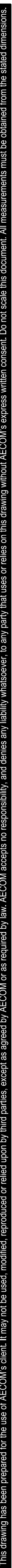
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SHEET TITLE

FRONTAGE 3
LANDSCAPE LAYOUT

SHEET NUMBER

LANG-ACM-LS-F3-DR-LA-011022



LANG-ACM-LS-F4-DR-LA-011023

LANG-ACM-LS-E5-DR-A-011024

HEDGEROW SEED MIX 1: to pathway edges.
Supplier: Emorsgate Seeds
Product Ref: EH1 Hedgerow mixture (or equivalent).
Prepare and sow to manufacturer's instructions and specification.

Sowing rate: 4g/m2
Total area: 1181 m2 (including reinstatement areas)

%	Latin name	Common name
0.10%	<i>Achillea millefolium</i>	Yarrow
1.00%	<i>Alliaria petiolata</i>	Garlic Mustard
0.50%	<i>Anthriscus sylvestris</i>	Cow Parsley
1.50%	<i>Carex divulsa ssp divulsa</i>	Grey Sedge
2.00%	<i>Centaurea nigra</i>	Common Knapweed
3.00%	<i>Cherophyllum temulum</i>	Rough Chervil
2.00%	<i>Cruciata laevipes</i>	Crosswort
0.20%	<i>Dipsacus fullonum</i>	Wild Teasel
0.50%	<i>Galium album</i>	Hedge Bedstraw
0.10%	<i>Geranium pratense</i>	Meadow Crane's-bill
1.00%	<i>Geranium pyreniacum</i>	Hedge Crane's-bill
0.30%	<i>Geum urbanum</i>	Wood Avens
0.20%	<i>Knaulia arvensis</i>	Field Scabious
1.00%	<i>Leucanthemum vulgare</i>	Moon Daisy
1.00%	<i>Malva moschata</i>	Musk Mallow
2.00%	<i>Plantago lanceolata</i>	Ribwort Plantain
3.00%	<i>Silene dioica</i>	Red Campion
0.50%	<i>Silene flos-cuculi</i>	Ragged Robin
0.10%	<i>Torilis japonica</i>	Upright Hedge-parsley

%	Latin name	Common name
1.00%	<i>Agrostis capillaris</i>	Common Bent (w)
2.00%	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass (w)
1.00%	<i>Brachypodium sylvaticum</i>	False Brome (w)
50.00%	<i>Cynosurus cristatus</i>	Crested Dogtail
2.00%	<i>Deschampsia cespitosa</i>	Tufted Hair-grass (w)
20.00%	<i>Festuca rubra</i>	Red Fescue (w)
4.00%	<i>Poa nemoralis</i>	Wood Meadow-grass

COASTAL MEADOW SEED MIX 3:
Supplier: Habitat Aid (https://www.habitataid.co.uk/products/coastal-seed-mix)
Coastal Meadow Seed Mix (or equivalent)
Prepare and sow to manufacturer's instructions and specification.

Sowing rate: 3g/m2 (12kg per acre)
Total area: 1795 m2

%	Latin name	Common name
2.0	<i>Anthyllis vulneraria</i>	Kidney Vetch
0.2	<i>Armeria maritima</i>	Thrift
0.2	<i>Campanula glomerata</i>	Clustered Bellflower
0.2	<i>Campanula rotundifolia</i>	Bluebell
1.0	<i>Centaurea nigra</i>	Common Knapweed
1.5	<i>Centaurea scabiosa</i>	Greater Knapweed
0.2	<i>Dianthus deltoides</i>	Maiden Pink
1.0	<i>Echium vulgare</i>	Vipers Bugloss
1.0	<i>Galium verum</i>	Lady's Bedstraw
1.0	<i>Helianthemum nummularium</i>	Rock Rose
0.1	<i>Leontodon autumnalis</i>	Autumn Hawkbit
1.5	<i>Ligusticum scoticum</i>	Scots Lovage
1.0	<i>Lotus corniculatus</i>	Birdsfoot Trefoil
0.5	<i>Malva sylvestris</i>	Common Mallow
0.8	<i>Origanum vulgare</i>	Wild Marjoram
1.0	<i>Papaver rhoeas</i>	Corn Poppy
1.0	<i>Pimpinella saxifrage</i>	Burnet Saxifrage
1.0	<i>Primula veris</i>	Cowslip
1.0	<i>Rumex acetosa</i>	Common Sorrel
0.1	<i>Saxifraga granulata</i>	Meadow Saxifrage
1.2	<i>Silene alba</i>	White Campion
1.0	<i>Silene dioica</i>	Red Campion
0.1	<i>Silene maritima</i>	Sea campion
0.5	<i>Silene vulgaris</i>	Bladder Campion
0.5	<i>Succisa pratensis</i>	Devilsbit Scabious
0.4	<i>Veronica officinalis</i>	Common Speedwell

%	Latin name	Common name
12.0	<i>Agrostis capillaris</i>	Common Bent
4.0	<i>Alopecurus pratensis</i>	Meadow Foxtail
12.0	<i>Cynosurus cristatus</i>	Crested Dog's Tail
32.0	<i>Festuca rubra</i>	Chewings Fescue
20.0	<i>Poa pratensis</i>	Smoothstalked Meadow Grass

LAWN GRASS SEED MIX 4:
Supplier: Emorsgate Seeds
Product Ref: EG22 Strong lawn grass mix (or equivalent).
Prepare and sow to manufacturer's instructions and specification.

Sowing rate: 25g/m2 (100kg per acre)
Total area: 263 m2

%	Latin name	Common name
5.0	<i>Agrostis capillaris</i>	Common Bent
50.0	<i>Festuca rubra</i>	Red Fescue
25.0	<i>Lolium perenne</i>	Perennial Ryegrass
20.0	<i>Poa pratensis</i>	Smooth-stalked Meadow-grass

GENERAL NOTES:

Guarding

- Tree whips and shrubs should be protected from mammal browsing by Green-Tech biodegradable shelters fixed with wooden stake; height 0.6m. If deer are known to be present locally, a revised method of guarding will be required.

Watering

- Supply a minimum of 4.5 litres of water per whip apply immediately following planting and 25 litres per feathered or standard tree.

Mulches: Ground Preparation

- Before application of any mulch the planting areas and/or tree positions which are to be mulched shall be free of grass and weed growth.
- Mulching planting beds hedges and whip planting areas:
- Material:
 - Suitable site-won chippings from arisings of clearances; or
 - Medium grade bark mulch to consist of predominantly matured British Pine Bark with an even nominal size distribution of 5-35mm with 0% dust and fines and less than 5% wood content.
- Purity: Free of pests, disease, fungus and weeds, and shall not have been treated with Methyl Bromide or any additives. The product shall have been tested in accordance with the requirements of BS4790:1987, for fire resistance.
- Preparation: Clear all weeds. Water soil thoroughly.
- Coverage: 75mm depth; 500mm diameter around each whip, 600mm diameter for feathered trees and 1000mm diameter for all standard trees.
- Finished level of mulch: 50mm above adjacent seeded areas.

DIVERSE MEADOW SEED MIX 2:
Supplier: Emorsgate Seeds
Product Ref: EM34 - Diverse meadow mixture (or equivalent).
Prepare and sow to manufacturer's instructions and specification.

Sowing rate: 4g/m2
Total area: 19,088 m2 (including reinstatement areas)

%	Latin name	Common name
44%	Wild Flowers	
1.0	<i>Carex flacca</i>	Glaucous Sedge
0.5	<i>Euphrasia officinalis</i>	Eyebright
0.5	<i>Hypochaeris radicata</i>	Catsear
1.0	<i>Leontodon hispidus</i>	Rough Hawkbit
5.0	<i>Leucanthemum vulgare</i>	Oxeye Daisy
0.2	<i>Linum catharticum</i>	Fairy Flax
1.5	<i>Lotus corniculatus</i>	Birdsfoot Trefoil
15.0	<i>Plantago lanceolata</i>	Ribwort Plantain
1.0	<i>Primula veris</i>	Cowslip
1.5	<i>Prunella vulgaris</i>	Selfheal
13.0	<i>Ranunculus acris</i>	Meadow Buttercup
3.0	<i>Rhynanthus minor</i>	Yellow Rattle
0.6	<i>Scorzoneroidea autumnalis</i>	Autumn Hawkbit
0.2	<i>Trifolium pratense</i>	Wild Red Clover

%	Latin name	Common name
1.0	<i>Anthoxanthum odoratum</i>	Sweet vernal-grass
1.0	<i>Arrhenatherum elatius</i>	False Oat-grass
3.0	<i>Bromopsis erecta</i>	Upright Brome
7.0	<i>Cynosurus cristatus</i>	Sweet Vernal-grass (w)
37.0	<i>Festuca rubra</i>	Red Fescue
4.0	<i>Helictotrichoia pratensis</i>	Crested Dogtail
3.0	<i>Lolium perenne</i>	Perennial Ryegrass

WILDFLOWER TURF:
Supplier: Wildflower Turf Ltd
Product Ref: WFT - Landscape 34 (or equivalent)

Prepare and install to manufacturer's instructions and specification.

Seed specification: 20% grass/ 80% flowers.
Total area: 928 m2

%	Latin name	Common name
2.5	<i>Achillea millefolium</i>	Yarrow
2.5	<i>Anthyllis vulnerana</i>	Kidney Vetch
2.5	<i>Centaurea nigra</i>	Common Knapweed
2.5	<i>Deucus carota</i>	Wild Carrot
2.5	<i>Filipendula ulmaria</i>	Meadowsweet
2.5	<i>Galium verum</i>	Lady's Bedstraw
2.5	<i>Geranium pratense</i>	Meadow Cranesbill
2.5	<i>Hypericum perforatum</i>	Perforate St John's Wort
2.5	<i>Hypochaeris radicata</i>	Cat's ear
2.5	<i>Knaulia arvensis</i>	Field Scabious
2.5	<i>Leontodon hispidus</i>	Rough Hawkbit
2.5	<i>Leucanthemum vulgare</i>	Oxeye Daisy - (Moon Daisy)
2.5	<i>Linaria vulgaris</i>	Common Toadflax
2.5	<i>Lotus corniculatus</i>	Birds-foot Trefoil
2.5	<i>Lychnis flos-cuculi</i>	Ragged Robin
2.5	<i>Malva moschata</i>	Musk Mallow
2.5	<i>Origanum vulgare</i>	Wild Marjoram
2.5	<i>Plantago lanceolata</i>	Ribwort Plantain
2.5	<i>Primula veris</i>	Cowslip
2.5	<i>Prunella vulgaris</i>	Self-heal
2.5	<i>Ranunculus acris</i>	Meadow Buttercup
2.5	<i>Rhynanthus minor</i>	Yellow Rattle
2.5	<i>Rumex acetosa</i>	Common Sorrel
2.5	<i>Sanguisorba minor</i>	Salad Burnet
2.5	<i>Scorzoneroidea autumnalis</i>	Autumn Hawkbit
2.5	<i>Silene dioica</i>	Red Campion
2.5	<i>Silene latifolia</i>	White Campion
2.5	<i>Silene vulgaris</i>	Bladder Campion
2.5	<i>Stachys officinalis</i>	Betony
2.5	<i>Trifolium pratense</i>	Wild Red Clover
2.5	<i>Vicia cracca</i>	Tufted Vetch
2.5	<i>Vicia sativa</i>	Common Vetch

%	Latin name	Common name
10	<i>Cynosurus cristatus</i>	Crested Dog's tail
10	<i>Festuca ovina</i>	Sheep's Fescue

Planting

- All Planting Works shall be carried out in accordance with BS 4043, BS 4428 and BS 5837. In addition, all trees and methods for planting and establishment are to be selected in accordance with BS8545:2014 "Trees: from nursery to independence in the landscape – Recommendations".
- On completion of planting operations, all disturbed accessess to, and ground around the planted areas shall be completely reinstated to their former condition as at the commencement of planting.
- Mixed native species planting shall be in groups of 3-15 of single species. Trees and shrubs are to be planted in mixed groups; the groups shall be laid out in such a way as to avoid repetition and clumping of same species groups. Planting layouts shall appear to be random but shall conform on average to the specified spacing. The outer 2 rows of plants adjacent to the fence line be category 3 and 4 species. Category 1 and 2 shall be confined to the middle/ rear of the plots.
 - No category 1 species shall be planted closer than 6m to underground services.
 - No category 2 or 3 species shall be planted closer than 3m to underground services.
 - No category 1 or 2 species shall be planted closer than 13m either side of overhead cables.
 - No category 3 species to be planted closer than 8m either side of overhead cables.
- Planting patterns: plots shall not be planted in rows; the planting layout shall appear to be random but shall conform on average to the specified spacing.

NATIVE SPECIES PLANTING: TREE AND SHRUB MIX

Native planted areas: groups of 3, 5 and 7 single species; avoid repetition; 1m centres / 1 plant per m2
Plants to be protected from mammal browsing by Green-Tech biodegradable shelters fixed with wooden stake; height 0.6m.
Total area: 1900 m2

Latin Name	Common Name	Form / Habit	Age	Height cm	Root	%	No.	Category
<i>Corylus avellana</i>	Hazel	Transplant	1+1	30 - 45	B	20	380	3
<i>Crataegus monogyna</i>	Hawthorn	Transplant	1+1	30 - 45	B	15	285	2
<i>Ilex aquifolium</i>	Holly	Bushy	n/a	40 - 60	C (3L)	5	95	3
<i>Prunus avium</i>	Wild cherry	Branched	1+1	60 - 80	B	10	190	2
<i>Prunus spinosa</i>	Blackthorn	Transplant	1+1	30 - 45	B	20	380	3
<i>Rosa canina</i>	Dog Rose	Branched	1+1	40 - 60	B	10	190	4
<i>Salix caprea</i>	Goat willow	Transplant	1+1	60 - 90	B	5	95	2
<i>Sambucus nigra</i>	Elder	Transplant	1+1	35 - 45	B	10	190	4
<i>Quercus robur</i>	English oak	Transplant	1+1	60 - 90	B	5	95	1

The first two rows of planting are to be of Category 3 and 4;
Category 1 and 2 concentrated to centre and to the back of the plots.
No category 1 and 2 trees to be within existing tree and hedgerow canopies.

MIXED NATIVE WETLAND PLANTING: LOW LEVEL SHRUB MIX

Native planted areas: groups of 3, 5 and 7 single species; avoid repetition; 1m centres / 1 plant per m2
Plants to be protected from mammal browsing by Green-Tech biodegradable shelters fixed with wooden stake; height 0.6m.
Total area: 431 m2

Latin Name	Common Name	Form / Habit	Age	Height cm	Root	%	No.
<i>Corylus avellana</i>	Hazel	Transplant	1+1	30 - 45	B	20	86
<i>Rosa canina</i>	Dog rose	Branched	1+1	40 - 60	B	10	43
<i>Salix alba</i>	White willow	Transplant	1+1	60 - 90	B	15	64
<i>Salix caprea</i>	Goat willow	Transplant	1+1	60 - 90	B	15	64
<i>Salix viminalis</i>	Common osier	Transplant	1+1	60 - 90	B	15	64
<i>Sambucus nigra</i>	Elder	Transplant	1+1	35 - 45	B	15	64
<i>Viburnum opulus</i>	Gelder rose	Branched	1+1	40 - 60	B	10	43

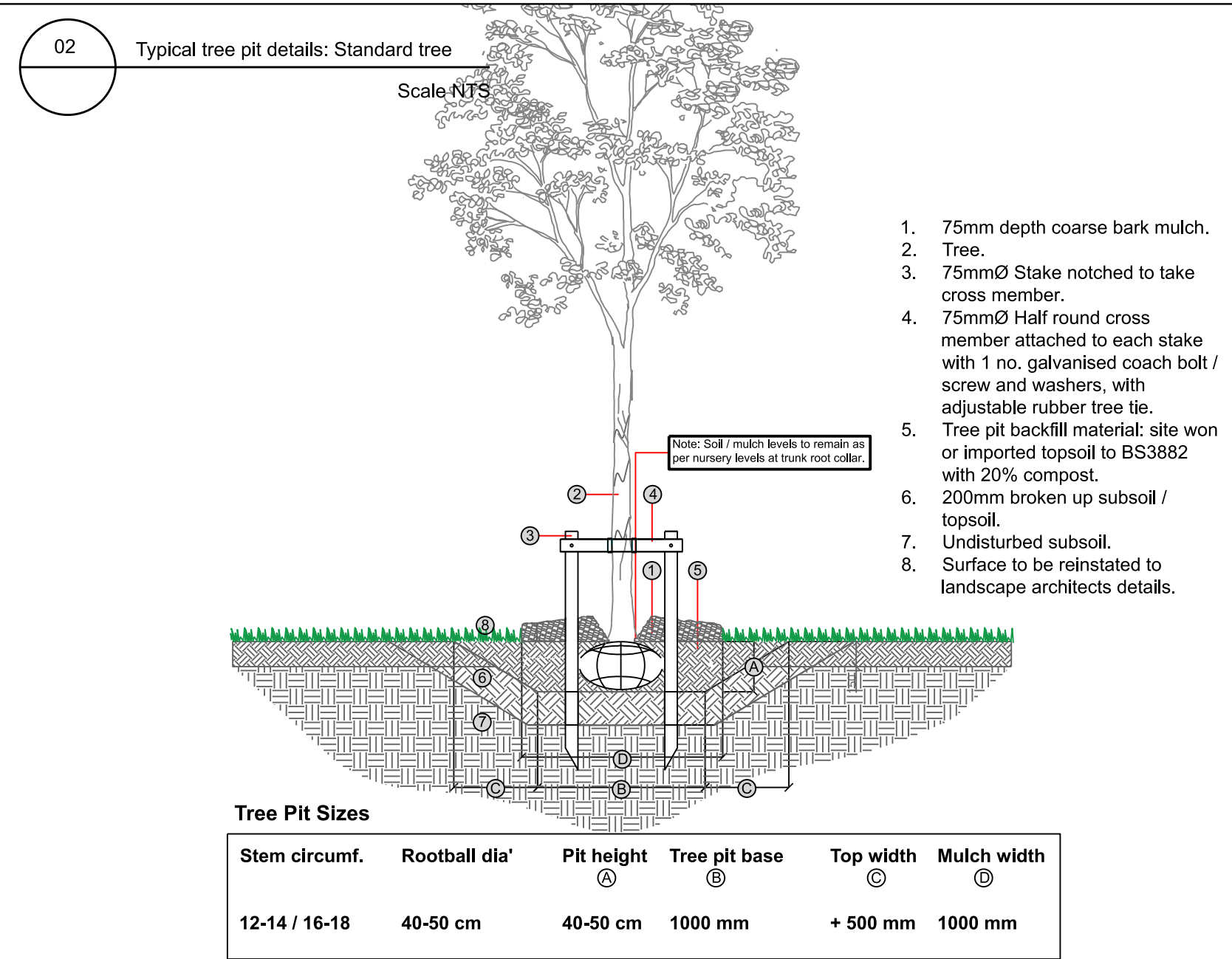
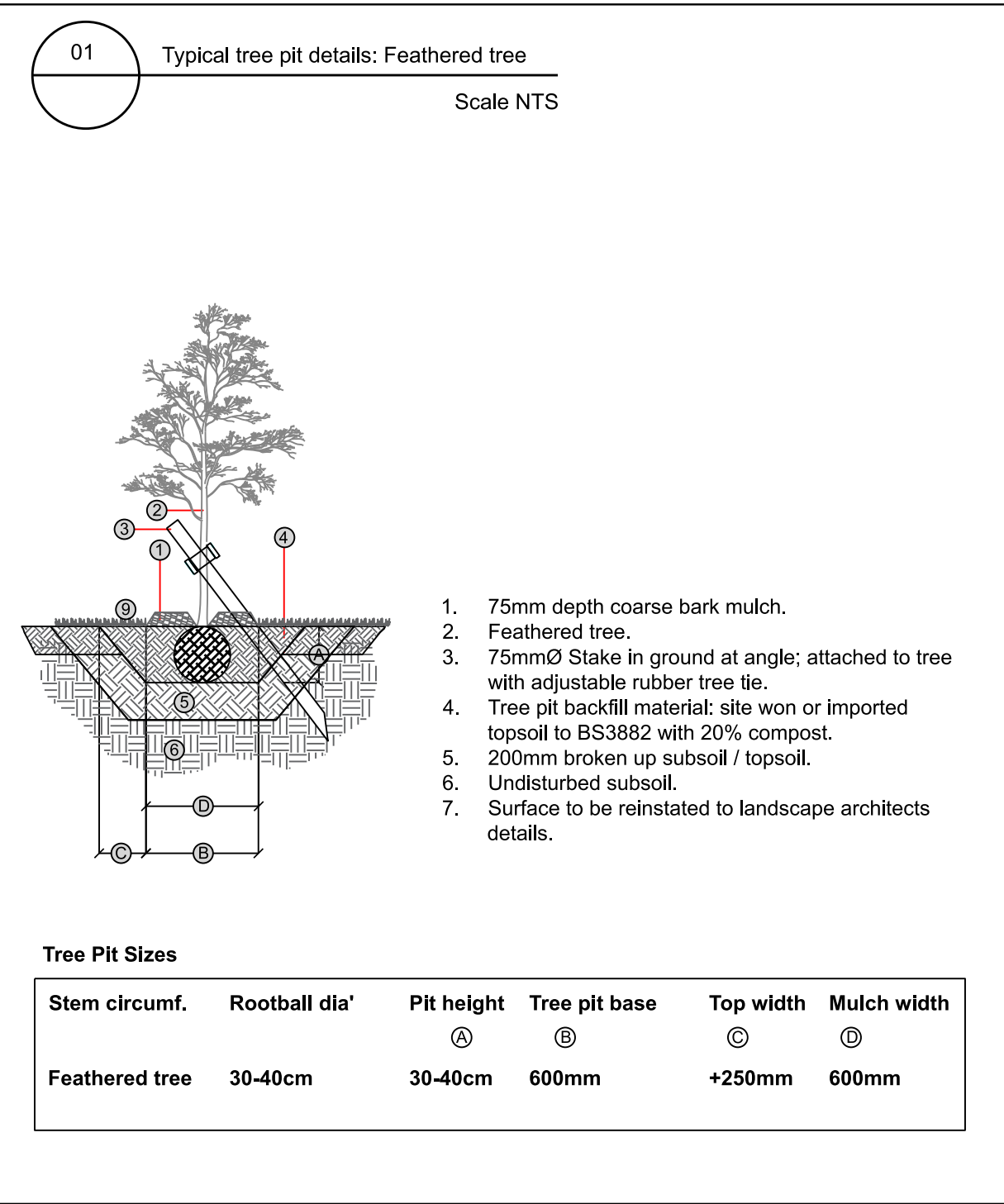
FRONTAGE 3 TIMBER PLANTERS: 5 No.; Maritime shingle planting
Supplier and type: Broxap Kirkholt planter; 1600mm (L) x 900mm (W) x 900mm (H)
FSC pressure treated softwood; Shingle substrate 70mm depth to be marine derived aggregate, 20-40mm sizing.
Contractor to provide a sample of shingle prior to order for inspection and agreement with Supplier and Client.
Minimum soil depth 300mm plus stone base drainage layer minimum 100mm. Terram geotextile layer to separate soil and drainage layers. Soil type to be agreed suitable for plant species.
Groups of 3 and 5 single species; avoid repetition; 5 plants per m2.
(1.6m2 per planter; 8 plants per planter); 40 plants total

Latin Name	Container	%	No.
<i>Armeria maritima</i>	C 2L	30	12
<i>Crambe maritima</i>	C 2L	10	4 (max 1 per planter)
<i>Echium vulgare</i>	C 2L	10	4 (max 1 per planter)
<i>Eryngium maritimum</i>	C 2L	5	2
<i>Glaucium flavum</i>	C 2L	10	4 (max 1 per planter)
<i>Sedum acre</i>	C 2L	10	4
<i>Silene nutans</i>	C 2L	5	2 (max 1 per planter)
<i>Silene uniflora</i>	C 2L	20	8

TREES

All standard tree to be double staked (as detail) and all feathered trees to be single staked (as detail); protected with a biodegradable tree guard (GreenTech Bio-earth tree shelter or equivalent).
All trees to have bark mulch (either chipped if suitable from arisings of clearance or locally sourced bark chip mulch) to 75mm depth.

CODE	Latin name	Common name	Form	Age / Condition	Girth	Height	Clear stem	Roots	Container	TOTAL No.	F1A	F1B	F2	F5
AC	<i>Acer campestre</i>	Field Maple	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	8	5	2	2	
AL	<i>Alnus cordata</i>	Alder	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	2				
AP	<i>Acer pseudoplatanus</i>	Sycamore	Standard (Extra Heavy)	3x	16-18	450-625	min 200	RB	60cm	6	4	2		2
CA	<i>Corylus avellana</i>	Hazel	Feathered	2x		125-150		B	19	3	4	7	7	
CM	<i>Crataegus monogyna</i>	Hawthorn	Feathered	2x		125-150		B	11	2	3	1	5	
MD	<i>Malus domestica</i>	Apple	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	2			2	
MS	<i>Malus sylvestris</i>	Crab Apple	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	3			3	
PO	<i>Populus x canescens</i>	Grey poplar	Standard	3x	16-18	min 450	min 200	RB	60cm	5	2	2	1	
PT	<i>Populus tremula</i>	Aspen	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	8	3	1	1	2
PA	<i>Prunus avium</i>	Wild Cherry	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	4	2	1	1	
PC	<i>Prunus cerasifera</i>	Cherry Plum	Standard	3x	16-18	min 450	min 200	RB	60cm	3	2	1		
PP	<i>Prunus padus</i>	Bird Cherry	Standard	3x	16-18	min 450	min 200	RB	60cm	4	2	1	1	
PS	<i>Prunus spinosa</i>	Blackthorn	Feathered	2x		125-150		B	7	3	2	2		
QP	<i>Quercus palustris</i>	Pin Oak	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	2				2
QR	<i>Quercus robur</i>	Common Oak	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	19	7	5	4	2
SA	<i>Salix alba</i>	White willow	Standard (Extra Heavy)	3x	16-18	400-450	min 200	RB	60cm	2				2



NATIVE SPECIES 'INSTANT' HEDGE
FRONTAGE 2: 31 Linear meter length
FRONTAGE 5: 10 Linear meter length
TOTAL 41 L/m

Supplier: Practically Brown:
https://www.pracbrown.co.uk/mixed-native-instant-hedges-from-practicality-brown/ (or equivalent)

- Densely pre-planted and ready-grown to 30 – 40cm wide and up to 2m high, species dependent.
- Grown in 1m long pieces and supplied specially designed hedge bags.
- Can be planted all year round.
- Available in any lengths, and can be bent to almost any shape.
- Supplied on standard 1m x 1.2m pallets.

Typical species list:

Blackthorn *Prunus spinosa*
Dogwood *Cornus sanguinea*
Field Maple *Acer campestre*
Hawthorn *Crataegus monogyna*
Hazel *Corylus avellana*
Hornbeam *Carpinus betulus*
Gelder rose *Viburnum opulus*