

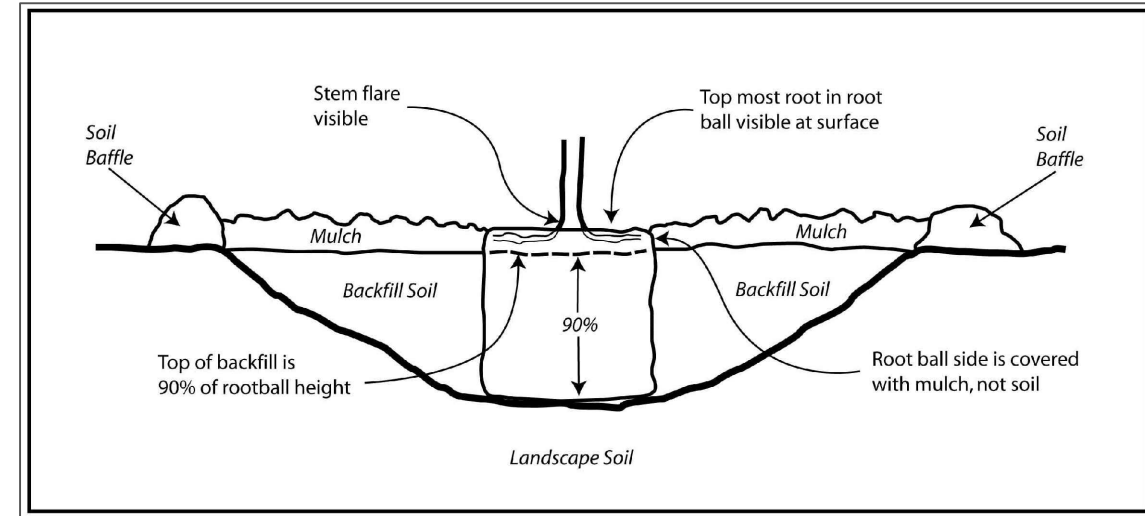


Traditional Dry Stone Wall forming boundary maximum height 1500mm. For further boundary details refer to architect's plans.

Boundary hedge to be laid and supplementary planted where required with the following:
10% Acer campestre
15% Corylus avellana
50% Crataegus monogyna
5% Ilex aquifolium
10% Prunus spinosa
5% Rosa canina
5% Viburnum opulus

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Tree Pit Detail



Specification

Site Preparation

Topsoil

- Topsoil shall be stripped and stored in accordance with BS3882:2015 Specification for topsoil.
- Topsoil mounding shall not exceed 2m in height.
- During operation topsoil to be kept free of compaction from site vehicles, storage and weeds.

Decompaction

- Any areas receiving vehicular movement during construction to be decompacted to a depth of 150-300mm.
- Contractor to provide proposals for suitable decompaction that may include:
 - Pulsed air injection and sand infusion (for deep decompaction)
 - Replacement of soil
 - Mechanical means of ripping in two directions
- Bases of tree and shrub pits to be cultivated to a minimum depth of 150mm

Backfilling with Subsoil

- To make up required levels, excavations to be backfilled with screened subsoil and lightly consolidated

Backfilling with Topsoil

- All planting areas to be backfilled in layers and lightly consolidated.
- Turf and rear grass seeded areas (excluding meadows) to be backfilled in 150mm layers

Seeding

- Growth and development: Healthy, vigorous sward, free from visible effects of pests, weeds and disease
- Appearance: A closely knit, continuous ground cover of even density, height and colour.

Cultivation:

- Break up compacted topsoil to full depth
- Tilt: Top 100mm of topsoil to be reduced to a fine tilt with particle size of maximum 10mm
- From the surface, remove all stones and clay balls >30mm in any dimension and remove any deleterious material
- Grass seed for Flowering Lawns and Dry Soils
- Mix: Naturescape N16 Flowering Lawns and N11 Dry Soils
- Rate of application: 5g/m²
- Sowing season: Spring or Autumn

Shrub/Tree Planting

- All tree planting should be undertaken to BS8545:2014
- Soil conditions
 - Soil for cultivating and planting must be moist, friable and (except aquatic/marginal planting) not waterlogged
- Times of Year for Planting
 - Deciduous Trees and Shrubs: Late October-late March
 - Conifers and evergreens: September/October or April/May
 - Herbaceous plants (not including aquatic and marginal): September/October or March/April
 - Container grown plants: Any time if ground and weather conditions are favourable. Ensure adequate watering and weed control is provided.
- Mechanical Tools: Do not use within 1000mm of tree and plant stems
- Plants/Trees - General
 - Condition: Materially undamaged, sturdy, healthy and vigorous
 - Appearance: Good shape and without elongated shoots
 - Hardiness: Grown in the UK, preferably of local provenance and hardened off
 - Health: Free from pests, diseases, discoloration, weeds and physiological disorders
 - Budded or grafted plants: Bottom worked
 - Root system/condition to relevant part of BS3936 and balanced with branch system
 - Species: True to name
 - Origin/Provenance: British (preferably local) provenance for native tree and shrub

Species Name	Common Name	Specification	Rootzone	Number
Amelanchier grandifolia 'Ballerina'	Serviceberry	175-200	RB	3
Betula pendula	Downy birch	175-200	RB	1
Crataegus monogyna	Hawthorn	175-200	RB	3
Crataegus monogyna Alboplena	White Hawthorn	175-200	RB	2
Malus sylvestris	Crisp Apple	175-200	RB	5
Prunus accolade	Accolade cherry	175-200	RB	2
Prunus avium	Wild cherry	175-200	RB	2
Prunus avium 'Sunburst'	Apple	175-200	RB	2
Prunus domestica insitita 'Shropshire Prune'	Damson	175-200	RB	2
Quercus robur	Pedunculate Oak	175-200	RB	2
Salix alba	White willow	175-200	RB	1
Sambucus nigra	Elder	175-200	RB	3
Sorbus aria 'Lutescens'	White Beam	175-200	RB	1
Sorbus aucuparia	Mountain Ash	175-200	RB	5

Plant specification	Abbrev	Common name	Height	Pot Size	Spec	Density	Number
Alga reptans	Ar	Begonia herb	20-30cm	2L	Bushy/C	7/m ²	57
Aster novi belgi	Anb	Michaelmas daisies	30-40cm	2L	Bushy/C	5/m ²	20
Bergenia cordifolia	Bc	Elephant's ear	20-30cm	2L	Bushy/C	7/m ²	33
Buddleia davidii Empire Blue	BdB	Butterfly bush	40-60cm	5L	Bushy/C	1/m ²	5
Campanula glomerata	Cg	Clustered bellflower	20-30cm	2L	Bushy/C	7/m ²	40
Deschampsia cespitosa	Dc	Tufted Hair Grass	30-40cm	2L	Bushy/C	3/l/m	47
Digitalis purpurea	Dpp	Forgelove	30-40cm	2L	Bushy/C	7/m ²	21
Echinacea purpurea	Ep	Purple coneflower	30-40cm	2L	Bushy/C	5/m ²	17
Eryngium yabellii 'Big Blue'	EyB	Sea Holly	30-40cm	2L	Bushy/C	5/m ²	7
Geranium johnsonii Blue	GJB	Cranesbill	30-40cm	2L	Bushy/C	7/m ²	55
Hebe Sunset Boulevard	HeSB	Hebe	30-40cm	2L	Bushy/C	5/m ² or 3/l/m	53
Helleborus niger	HeN	Christmas rose	30-40cm	2L	Bushy/C	5/m ²	23
Hypericum Hidcote	HyH	St John's Wort	30-40cm	2L	Bushy/C	4/m ² or 3/l/m	18
Lavandula angustifolia 'Munstead'	LamM	English lavender	30-40cm	2L	Bushy/C	5/m ² or 3/l/m	100
Lavandula Hidcote	LamH	English lavender	30-40cm	2L	Bushy/C	5/m ² or 4/l/m	45
Leucanthemum vulgare May Queen	LmQ	Ox-eye Daisy	30-40cm	2L	Bushy/C	5/m ²	52
Pyracantha 'Orange Glow'	POG	Firethorn	40-60cm	5L	Bushy/C	2/l/m or 2/m ²	14
Rosa 'Hyde Hall'	RHH	Rose	40-60cm	5L	Bushy/C	3/m ² or 2/l/m	14
Verbena bonariensis	Vb	Verbena	30-40cm	2L	Bushy/C	2/l/m or 3/m ²	17
Viburnum opulus	Vo	Goulden rose	40-60cm	5L	Bushy/C	1/m ²	1
Vincetoxicum	Vm	Periwinkle	20-30cm	2L	Bushy/C	3/m ²	3

Species name	Common name	% Mix	Height	Rootzone	Spec	Density	Total Number	1	2	3	4	5
Acer campestre	Field Maple	10	40-60	BR	1+1 branched	7/m in double staggered row	49	14	8	14	7	6
Corylus avellana	Hazel	15	40-60	BR	1+1 branched	7/m in double staggered row	74	21	12	21	11	9
Crataegus monogyna	Hawthorn	50	40-60	BR	1+1 branched	7/m in double staggered row	245	70	39	70	35	32
Ilex aquifolium	Holly	5	40-60	3L pot	Leader with laterals	7/m in double staggered row	25	7	4	7	4	3
Prunus spinosa	Blackthorn	10	40-60	BR	1+1 branched	7/m in double staggered row	49	14	8	14	7	6
Rosa canina	Dog rose	5	40-60	BR	1+1 branched	7/m in double staggered row	25	7	4	7	4	3
Viburnum opulus	Goulden rose	5	40-60	BR	1+1 branched	7/m in double staggered row	25	7	4	7	4	3

Single species hedgerow

Crataegus monogyna	Hawthorn	100	40-60	BR	1+1 branched	7/m in double staggered row	273
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National Trust bat box to be installed on east or south facing walls of dwellings at a minimum of 4m above ground to allow for an unobstructed access and egress of bats from the box. Box located on eastern aspect of Sycamore, allowing for clear access and egress.

Multi species bird box that can be used by sparrows, tits and open fronted nesters (subject to removal of front panel) such as robins. Located on existing mature trees within the site and on north and eastern walls of garage buildings.

species. Origin and Provenance have the meaning given in the National Plant Specification

- Planting generally: Upright or well balanced with best side to front.
- Planting shrubs/Herbaceous Plants/Bulbs
- Shrub planting pits
 - Timing Excavate 1-2 days (maximum) before planting
 - Sizes: Pits are at least 75mm deeper than root system and wide enough to accommodate roots when fully spread
 - Pit bottom improvement: Break up to a depth of 150mm
 - Backfilling material: Reuse excavated material
- Formal and naturalised hedges
 - Shrubs for hedges: Consistent in species, cultivar and clone to ensure a uniform hedge.
 - Planting: In trenches large enough to take full spread of roots. Set out plants evenly.
- After Planting
 - Watering: Immediately after planting, thoroughly and without damage or displacing plants or soil.
 - Firming: Lightly firm soil around plants and fork and/or rake soil, without damaging roots to a fine tilth with gentle cambers and no hollows.
- Planting Trees
 - Tree pits up to and including Extra Heavy Standards to BS8545:2014 Section 10.
 - Trees to be planted as per tree pit detail
 - Staking Generally
 - Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
 - Treated to achieve desired service life of 30 years.
 - Nails: Galvanised, minimum 25mm long and with 10mm diameter heads
 - Minimum stake sizes

Tree/shrub	Overall length of stake	Cross section of stake	Length above ground
Feathered	1800mm	75mm	750mm
Selected st	2400mm	75mm	1350mm
Heavy St	3000mm	100mm	2000mm
Advanced	3000mm	100mm	2000mm

Maintenance

Generally

- Reinstatement
 - Damage or disturbance to soil structure, planting, grass, fencing, hard landscaping, structure or buildings: Reinstatement to original condition.
- Watering
 - Water as necessary to ensure the continued thriving of all planting
- Maintenance of seeded areas
 - Maintain within first year of establishment to 40-60mm, remove arisings, to control annual weeds.
 - Avoid cutting in Spring and early summer if Autumn sown.
 - Hand dig or spot treat residual perennial weeds
- General: Maintain turf in a manner appropriate to the intended use - can be close mown to 50mm or left long for wildflowers and cut biannual.
 - Soil and grass condition:
 - Condition: Maintain a healthy vigorous sward, free from disease, fungal growth, discoloration, scorch or wilt.
- Shrubs/Trees/Hedges
- Establishment of new planting
 - Weed control:
 - Method: Keep planting beds clear of weeds by hand weeding
 - Area: Maintain a weed free area around each tree and shrub, minimum diameter the larger of 1m or the surface of the original planting pit.
- Tree guards
 - Loose or defective guards: Adjust, refix or replace to original specification and to prevent chafing.
- Pruning Generally
 - Pruning: In accordance with good horticultural and arboricultural practice.

Wildflower seed mix - Naturescape N6 Clay Soils Meadow Mixture	Latin Name	Common Name	%
Wildflowers (20%)			
Achillea millefolium	Yarrow		3
Centaurea nigra	Common Knapsedge		7
Galium verum	Lady's bedstraw		7
Geranium pratense	Meadow Cranesbill		2
Kaushia aensis	Field Scabious		6
Leucanthemum vulgare	Meadow Vetchling		3
Lotus corniculatus	Rough Hawkbit		2
Leucanthemum vulgare	Oxeye Daisy		7
Lotus corniculatus	Birdfoot Trefoil		5
Lychnis viscaria	Ragged Robin		3
Plantago lanceolata	Ribwort Plantain		6
Primula veris	Cowslip		3
Prunella vulgaris	Self Heal		6
Ranunculus acris	Meadow Buttercup		10
Rhinanthus minor	Yellow Rattle		7.5
Rumex acetosa	Common Sorrel		6
Silene alba	Pepper Saxifrage		2
Stachys officinalis	Betony		3
Succisa pratensis	Devilbit Scabious		2.5
Trifolium pratense	Wild Red Clover		4
Vicia cracca	Tufted Vetch		3

Grass Species (80%)	Latin Name	Common Name	%
Agrostis capillaris	Common Bent		3
Allopecurus pratensis	Meadow Foxtail		2
Anthoxanthum odoratum	Sweet Vernal Grass		3
Briza media	Quaking Grass		2
Cynosurus cristatus	Crested Dogtail		21
Festuca ovina	Sheep's Fescue		22
Festuca rubra ssp. Commutata	Cheving Fescue		21
Festuca rubra ssp. Littoralis	Slender Creeping Red Fescue		13
Hordium leucanthemum	Meadow Barley		1
Poa pratensis	Smooth Stalked Meadow		10
Trisetum flavescens	Yellow Oatgrass		2

Wildflower seed mix - Naturescape N14 Flowering Lawn Mixture	Latin Name	Common Name	%
Wildflowers (20%)			
Achillea millefolium	Yarrow		4
Anthyllus vulneraria	Kidney Vetch		4
Galium verum	Lady's bedstraw		12
Hypochaeris radicata	Common Cocksfoot		3
Leontodon hirsutus	Rough Hawkbit		4
Leucanthemum vulgare	Oxeye Daisy		8
Lotus corniculatus	Birdfoot Trefoil		10
Plantago lanceolata	Ribwort Plantain		8
Primula veris	Cowslip		7
Prunella vulgaris	Self Heal		16
Ranunculus acris	Meadow Buttercup		12
Rumex acetosa	Common Sorrel		12

Grass Species (80%)	Latin Name	Common Name	%
Agrostis capillaris	Common Bent		5
Cynosurus cristatus	Crested Dogtail		15
Festuca ovina	Sheep's Fescue		20
Festuca rubra ssp. Littoralis	Slender creeping Red fescue		20
Festuca rubra ssp. Rubra	Strong Creeping Red Fescue		20
Poa pratensis	Smooth Stalked Meadow Grass		20

Legend

- Proposed Native Hedgerow
- Specimen Trees/Large shrubs
- Existing hedgerow
- Existing hedgerow to be laid and interplanted
- Shrub beds
- Flowering Lawn Mix N14 from Naturescape
- Clay Meadow Mix from Naturescape
- Location of Bat box
- Location of Bird box

RevA

09.03.20

Amended boundary and adjusted planting to dwellings, inc. bat/bird box

awSCAPE

landscape Design

Client:

Mr and Mrs Rhodes

Project:

Trent Head Farm
Biddulph Moor

Drawing Title:

Landscape Plan - Softworks

Date:

15.04.19

Scale:

1:200@A1

Drawing No:

AW0038-PL-001

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