

Outline specification

Ground Preparation: Protection of existing woodland, trees and hedges against damage to be in accordance with the BS 5837:2012 - Trees in relation to design, demolition and construction - Recommendations. Protective fence to be approved.

Excavations to B.S. 8000 part 1:1989. Excavated material removed off-site; good quality subsoil/topsoil stored on-site for re-use.

Landscape planting areas to have a minimum depth of soil of 500mm and grass areas will have 300mm.

Loosen formation level with single tine ripper, driven 450mm deep at 1m centres, when ground conditions are dry.

- Soil profiles should comprise:
- **Trees planted within native mixes:** 300 mm topsoil over 600 mm subsoil.
 - **Trees planted in grass:** 300 mm topsoil over 600 mm subsoil.
 - **Native mixes:** 300 mm topsoil over 300 mm subsoil.
 - **Hedge planting:** 300 mm topsoil over 300 mm subsoil.
 - **Amenity grass areas only:** 150 mm topsoil over 150 mm subsoil.
 - **Species rich grass:** no topsoil to be spread.

Supply approved imported subsoil to B.S. 8601:2013 Specification for subsoil and requirements for use - Multipurpose subsoil to make up any deficiency in on-site subsoil. Spread and level to a depth as noted above.

Supply approved imported topsoil to B.S. 3882:2015 Specification for topsoil - Multipurpose topsoil to make up for any deficiency in on-site topsoil. Spread and level to a depth as noted above.

Cultivate all landscape areas to a loose and friable tilth suitable for grass seeding or planting. Collect and remove from site all stones, builders' rubble and other deleterious material over 50mm in any dimension.

Excavate planting pits to the following dimensions:
Semi-mature trees: 1200 x 1200 x 700mm depth
Container grown shrubs: 300 x 300 x 300mm depth

Backfill tree pits with 100/300mm depth subsoil and 400mm topsoil including Melcourt Topgrov peat free planting compost or similar approved at a rate of 0.125m³/pit.

Backfill shrub pits with topsoil including Melcourt Topgrov peat free planting compost or similar approved at a rate of 1.0m³/20m³.

- Notch planting of transplant sized shrubs:
- Notching: Make a vertical 'I', 'L', 'T' or 'H' notch. Care to be taken around roots of existing trees.
 - Depth: To accommodate full depth of roots.
 - Planting: plant shrub, close notch with root collar at ground level and firm the soil.
 - Spacing of plants: 1 metre centres.

Plant arrangement:
Planting to be carried out on a random mix basis subject to the following conditions:

- Tree species: max. 5 no. plants & min. 3 no. plants per block
- Shrub species: max. 7 no. plants & min. 3 no. plants per block.

Plant protection:
Tree shelters: standard tree shelters to be provided to each transplant sized tree / shrub, such as Tubex Standard Treesheler, or equivalent. Shelter height to be 0.6m, green colour with supporting cane. For Ilex aquifolium, they should be protected with mesh guards to provide good air circulation and plenty of room, such as Treeguard mesh roll supplied by Tubex, or similar.

Amenity Grass Areas:
Supply and spread pre-seeding N:P:K. fertiliser (10:15:10) at a rate of 30g/m²

Grass areas to be sown at a rate of 35g/m² with a suitable grass seed mix such as Germinal A19. Initial grass cutting and edge trimming down to 50mm

Species Rich Grass Areas:
Do not spread fertiliser onto the grass. Species rich grass areas to be sown at a rate of 4g/m² with a suitable seed mix such as EM1 Basic General Purpose Meadow mixture.

Planting Areas:
Plant specification to be in accordance with the HTA National Plant Specification: 03/02. **The plant material shall be UK grown and sourced and evidence must be provided to substantiate this.**

Approval in writing must be obtained from WSCC as to where / from whom the plant material is sourced.

Trees to be planted in accordance with BS 8545:2014 - Trees from nursery to independence in the landscape. Recommendations.

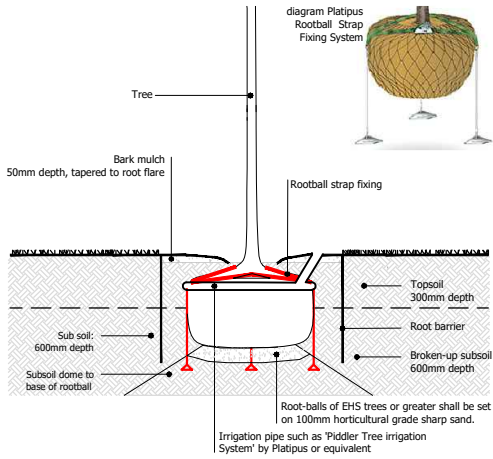
Supply and plant, incorporating slow release fertiliser N:P:K - 4:19:10 ENMAG or similar approved at the following rates:
Semi-mature trees: 130g / tree pit
Container grown shrubs: 70g / m²

Underground guying to be installed to individual trees.

Provide and spread evenly over all planting areas an organic graded bark flakes of similar approved bark mulch to a depth of 50 mm. Supply and spread around individual trees a 1 metre diameter of an organic graded bark flakes or similar approved bark mulch to a depth of 50 mm.

General Notes:
Substitutions shall be agreed with the WSCC Proper Officer and shall be similar in size, form and water demand.

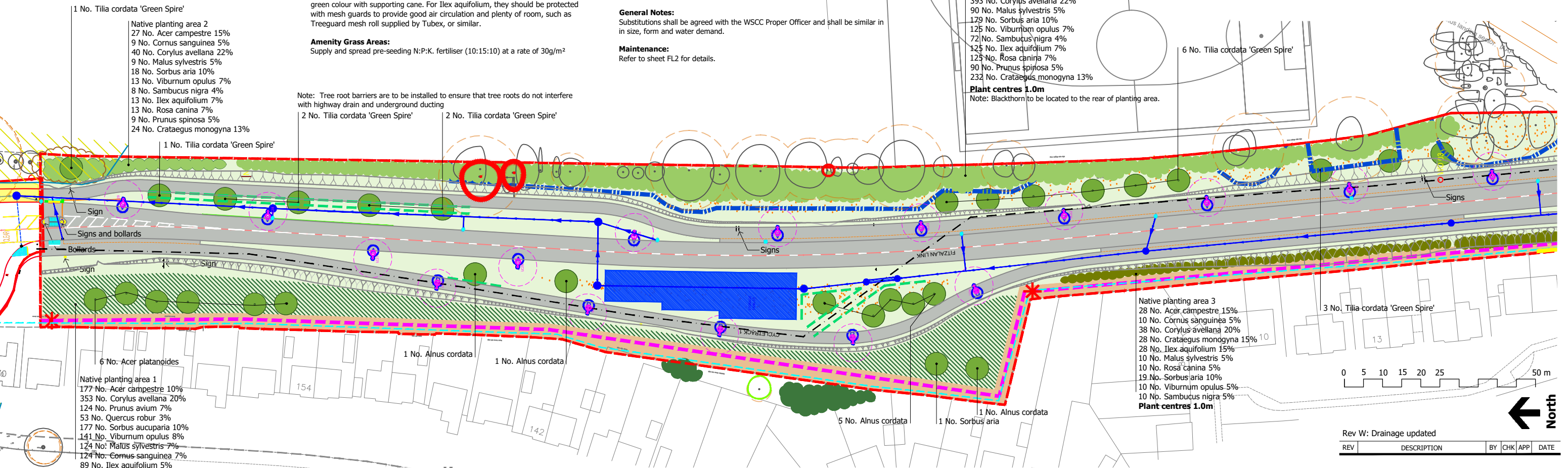
Maintenance:
Refer to sheet FL2 for details.



Note:
Treepit size for semi-mature trees = 1200x1200mm
Root barriers to be installed at the edges of the treepits where the distance between the treepit and the edge of the highway drain trench or road kerb is less than 2m.

- Native planting area 2**
268 No. Acer campestre 15%
90 No. Cornus sanguinea 5%
393 No. Corylus avellana 22%
90 No. Malus sylvestris 5%
179 No. Sorbus aria 10%
125 No. Viburnum opulus 7%
72 No. Sambucus nigra 4%
125 No. Ilex aquifolium 7%
125 No. Rosa canina 7%
90 No. Prunus spinosa 5%
232 No. Crataegus monogyna 13%
Plant centres 1.0m
Note: Blackthorn to be located to the rear of planting area.

- Native planting area 3**
28 No. Acer campestre 15%
10 No. Cornus sanguinea 5%
38 No. Corylus avellana 20%
28 No. Crataegus monogyna 15%
28 No. Ilex aquifolium 15%
10 No. Malus sylvestris 5%
10 No. Rosa canina 5%
19 No. Sorbus aria 10%
10 No. Viburnum opulus 5%
10 No. Sambucus nigra 5%
Plant centres 1.0m



Key

- Site boundary
- Existing vegetation retained (shown indicatively)
- Category B trees to be retained
- Category C trees to be retained
- Category U trees (to be felled because of condition)
- Root protection areas
- Tree to be felled to accommodate development
- Construction exclusion zone Refer to the tree protection plan

Proposed features

- Tree planting
- Native tree and shrub planting area 1
- Native tree and shrub planting area 2
- Native tree and shrub planting area 3
- Native tree and shrub planting area 4
- Native hedge planting
- Amenity grass
- Species rich grass
- Proposed root barrier To be installed where the distance between the treepit extent and the edge of the highway drain trench or road kerb is less than 2m. Rootball fixing strap system to be provided by Platypus to secure the trees. Supplier: GreenBlue. Product: Reroot 1000/2000.
- Gradients along highway to be smoothed out to tie into existing levels
- Proposed acoustic barrier - 3.5m high GRAM META SoundBlok. Either / or grade DX51D+Z200/275-NA galvanised steel plating in accordance with standard UNE EN 10142, or with AA 3105 H24 aluminium sheet. Powder coating finish - colour to be confirmed. Gravel board to be buried 100mm below ground level. Refer to the Noise Assessment report for details.
- Proposed acoustic gate for maintenance access
- Proposed lighting column Refer to drawing: SSE-976262-SL-DR-001 for lighting columns
- 10m diam. clearance zone around lighting column to avoid tree canopy clashing with lighting column.
- Proposed drainage features Refer to Mayer Brown drawing: PHF-MB-S278-GF-DR-D-212 01 to 03 for drainage information
- Vegetation 'hop-over' locations for bats Where hedgerows are to be bisected to accommodate the Fitzalan Link road, tall mature trees or tree stands are to be retained or planted to create a vegetated 'hop-over'. These will maintain connectivity for commuting and/or foraging bats by guiding the bats up and over the link road and the height of traffic.

- NOTES:**
1. Refer to the engineer's drawings, 212-01 and 212-02, for proposed contours.
 2. Landscape protection measures: whilst this drawing shows Construction Exclusion Zones, refer to the Arboricultural Report dated 4th August 2016 for details of protection fencing and construction exclusion zones.
 3. Ducting to lighting columns and any other underground services are not to conflict with roots of the proposed trees. Where necessary, underground tree root deflectors/barriers are to be installed to ensure that tree roots do not interfere with underground ducting and services.
 4. For existing boundaries along the west, refer to the Boundary Type and Audit information prepared by Persimmon Homes showing details of existing boundaries and locations. Boundaries shall be maintained as per existing arrangements (between WSCC and the occupiers where relevant).

CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

Proposed hard landscape

- Refer to Mayer Brown drawings for hard landscape details including kerbs
- Footway and highway: tarmac
 - Blister tactile paving - red colour.
 - Gravel (Type 1) laid over weed control fabric membrane to rear of acoustic barrier. Depth of gravel to be 100 mm

Rev W: Drainage updated

REV	DESCRIPTION	BY	CHK	APP	DATE
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PERSIMMON HOMES THAMES VALLEY

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Project:
NORTH LITTLEHAMPTON
SOUTHERN BYPASS WORKS

Drawing Title:
PROPOSED S38/S278 HIGHWAY WORKS
FITZALAN LINK
LANDSCAPE PROPOSALS 1 OF 2

Scale @ A3 1:1,000	Drawn DC	Date 12.06.20	Checked LB	Date 12.06.20	Approved	Date 12.06.20
Project No. A088461-1	Office 4124	Type -	Drawing No. PHFL-WYG-S278-LP-FL1	Revision W		