

Assessment of Biodiversity Baseline

Version 2

29.12.2025 updated 17.06.2026 / 05.08.2026

Prepared for: Starship Group / Onward Homes

Site: Halsnead Farm.

Prepared by Simon Brain.
Managing Director. PGCE (Bio. Rec.)

1. Introduction

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1. Introduction

1.1 Background to the project

Amenity Tree was commissioned by Starship Group to undertake a site visit and compilation of UK habitats plan and DEFRA habitat condition sheet to include the Statutory Metric in consideration of a planning application under The Environment Act 2021, which allows for biodiversity gain in the planning system.

1.2 Site location and context

The site is located on the southern boundary of the M62 and north of Symmetry Park. The survey area consisted of modified grassland (g4), urban introduced shrub (u-1160), urban buildings and sealed surfaces (u1b), and urban trees.

1.3 Report purpose and legislative background

- 1.3.1 This assessment was requested by the client for the purposes of supporting a planning application for the site's development in line with The Environment Act 2021, including Part 6 of the Environment Act 2021 'nature and biodiversity', which allows for biodiversity gain in the planning system. Schedule 14 of the Environment Act 2021 has been brought into force and there are current regulations legally mandating BNG.

The British Standard BS 8683:20211 defines BNG as *"a specific, quantifiable outcome from project activities that deliver demonstrable benefits for biodiversity compared to the baseline situation."*

The National Planning Policy Framework 2024 (NPPF) emphasises the importance of protecting and enhancing the natural environment. The NPPF approach to BNG is set out in Paragraph 186b, which is to *"promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity"*.

- 1.3.2 A Preliminary Ecological Appraisal confirmed habitats present. Therefore, the habitats present are confirmed and using the UK Habitats Classification System

(UKHAB) it is possible that the appropriate habitat classification is used in the BNG metric.

1.3.3 The scope of the Assessment is therefore:

- Assessment of the habitats within the site in accordance with the UK Habitats Classification (UK Habitats Classification Working Group, 2018).
- Completion of Condition Assessments of each habitat in accordance with those presented in The Biodiversity Metric 4.1 The Statutory Metric Feb 2024 and superseded on the 23rd July 2024 (V1.0.3).

2. Survey Methods

2.1 Vegetation and Habitats

2.1.1 A habitat survey walkover was conducted. The report and metric are informed by a baseline survey conducted in January 2025. The metric is also informed by the survey conducted on 21st December 2025, which confirmed the habitats present. Appendix 1 is the habitat mapping based on the UK Habitat Classification system (UK Habitats Classification Working Group, 2018) which details those habitats listed below.

2.1.2 Table 1 details the UK Habitat classifications / BNG metric habitat descriptors, area coverage and condition assessment result. Whilst on the site the habitat survey searched for all plants including those that are considered rare, uncommon or are statutorily protected such as those listed in schedule 9 of the *Wildlife and Countryside Act 1981* (as amended).

UK Habitat Classification	Total Area Coverage (Ha.)	Condition Assessment
Modified Grassland	2.5560	Poor
Introduced shrub	0.0126	NA
Artificial unvegetated unsealed surface / Urban sealed surface / building	0.6200	NA
Total Area Coverage	3.1886	
Urban trees	0.3746	Moderate

Table 1 Main site UK Habitat classifications, area coverage and condition assessment

Urban trees. There is a total of 23 urban trees all medium size and moderate condition

2.1.3 Site strategic significance

The strategic significance of a site will be determined by areas included within the Local Nature Recovery Strategy (LNRS) produced for a region. The LNRS for Merseyside has been published in March 2025 and is used to inform strategic significance.

The site can be assessed for 'low strategic significance' based on LNRS.

2.2 Surveys results

- 2.1 The biodiversity baseline value of the site is calculated by the Statutory Metric And reproduced below for the main site in habitat units.

The metric has provided the final habitat unit value of 8.13 biodiversity units

2.3 Limitations

The survey was conducted in the sub optimal survey period for vascular plants as determined by JNCC, 2010 but broad species and habitats were identifiable.

Habitats have been assessed to determine whether they meet those described in the UK Biodiversity Action Plan – Priority Habitat descriptions which are used to form Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006.

3. History of site

The recent history of the site can be examined using historic aerial imagery. The site does not appear to have changed since 2020 and no habitat degradation has occurred.

4. Evaluation and Assessment

4.1 Proposed habitat creation

The total area of the site is approximately 3.1886 hectare.

Urban trees.

All existing urban trees are removed. A total coverage of 0.1425 and 0.1018Ha of proposed urban trees applies.

Development proposals

The landscape scheme has been developed in association with the ecology team and has sought to maximise the on-site provision of biodiversity units within the design to satisfy the Biodiversity Gain Hierarchy.

The site shall be developed as proposed in the Proposed public open space plans and Landscape Plans in Appendix 2, which detail the following.

Northern edge 1.076Ha ALL POS

Wildflower created 0.5100Ha.

Woodland fringe planting (introduced shrub) 0.5660Ha.

69 urban trees in small size and poor condition covering 0.2809Ha plus 20 medium sized trees, a total of 0.6066Ha.

Woodland walk 0.1835Ha ALL POS

Screen planting consists of the below and trees so determined as introduced shrub plus 50 trees in small size and poor condition.

Screening Planting

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	per m
A sco	Asplenium scolopendrium	Hart's Tongue Fern			5L	Full pot	4
E e	Euonymus europaeus	Common Spindle Tree		80-100	10L	Branched; 6 brks	2
H m	Hakonechloa macra	Japanese Forest Grass			5L	Full pot	4
H n-s	Hyacinthoides non-scripta	English Bluebell			0.5L	Full pot; Sept to April planting; British native-origin	10
LIR BLU	Liriope muscari 'Big Blue'	Big Blue Lilyturf 'Big Blue'			3L	Full pot	4
P se	Polystichum setiferum	Soft Shield Fern			5L	Full pot	4
R acu	Ruscus aculeatus	Butcher's Broom		30-40	3L	Several shoots; 3 brks	4

Verge frontage 0.0560Ha (all POS)

Fringe planting (introduced shrub) and 19 trees

Shared spaces 0.1120Ha (all POS)

SUDS 0.0125Ha and trees (12 covering 0.1425Ha))

Fringe planting (0.0995Ha) is introduced shrub and trees 35 trees proposed (47 total)

SUDs Planting

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	per m
A H H	Agapanthus Headbourne Hybrids	African Blue Lily Headbourne Hybrids			5-7.5L	Full pot	4
A x h 'H S'	Anemone x hybrida 'Honorine Jobert'	Japanese Anemone 'Honorine Jobert'			5L	Full pot	4
B 'B W'	Bergenia 'Bressingham White'	Elephant's Ears 'Bressingham White'			5L	Full pot	4
C pe	Carex pendula	Pendulous Sedge			5L	Full pot; Sept to April planting; British native-origin	4
E e	Euonymus europaeus	Common Spindle Tree		40-60	3L	Branched; 4 brks	4
G tri	Gillenia trifoliata	Bowman's Root			5L	Full pot	4
H x h	Helleborus x hybridus	Hybrid Lenten Rose			3L	Full pot	4
P v 'H M'	Panicum virgatum 'Heavy Metal'	Blue Switch Grass 'Heavy Metal'			5-7.5L	Full pot	4

Private spaces 0.5740Ha

All urban vegetated garden

All remaining habitat covers 1.1871= (Urban sealed)

Moderate condition, other neutral grassland can be achieved as shown in the post-development CAS, copied below.

A	The parcel represents a good example of its habitat type, with a consistently high proportion of characteristic indicator species present relevant to the specific habitat type (and relative to Footnote 3 suboptimal species which may be listed in the UKHab description). ¹ Note - this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.	Yes	Seed mix does allow for high proportion of indicator species
B	Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20% is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	Yes	Can be managed in HMMP
C	Cover of bare ground is between 1% and 5%, including localised areas, for example, rabbit warrens ² .	Yes	Can be managed in HMMP
D	Cover of bracken <i>Pteridium aquilinum</i> is less than 20% and cover of scrub (including bramble <i>Rubus fruticosus</i> agg.) is less than 5%.	Yes	Can be managed in HMMP
E	Combined cover of species indicative of suboptimal condition ³ and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area. If any invasive non-native plant species ⁴ (as listed on Schedule 9 of WCA ⁵) are present, this criterion is automatically failed.	No	>5% due to residential context

Moderate condition SUDS can be achieved, as shown in the post-development CAS copied below. The planting schedule comprises the following plants

SUDs Planting

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	per m
A H H	Agapanthus Headbourne Hybrids	African Blue Lily Headbourne Hybrids			5-7.5L	Full pot	4
A x h 'H S'	Anemone x hybrida 'Honoline Jobart'	Japanese Anemone 'Honoline Jobart'			5L	Full pot	4
B 'B W'	Bergenia 'Bressingham White'	Elephant's Ears 'Bressingham White'			6L	Full pot	4
C pe	Carex pendula	Pendulous Sedge			5L	Full pot; Sept to April planting; British native-origin	4
E e	Eurogymus europaeus	Common Spindle Tree		40-60	3L	Branched; 4 brks	4
G tri	Gillenia trifoliata	Bowman's Root			5L	Full pot	4
H x h	Helleborus x hybridus	Hybrid Lenten Rose			3L	Full pot	4
P v 'H M'	Panicum virgatum 'Heavy Metal'	Blue Switch Grass 'Heavy Metal'			5-7.5L	Full pot	4

Core Criteria - must be assessed for all urban habitat types :			
A	Vegetation structure is varied, providing opportunities for vertebrates and invertebrates to live, eat and breed. A single structural habitat component or vegetation type does not account for more than 80% of the total habitat area.	Yes	As per planting schedule
B	The habitat parcel contains different plant species that are beneficial for wildlife, for example flowering species providing nectar sources for a range of invertebrates at different times of year.	No	No winter flowering species
C	Invasive non-native plant species (listed on Schedule 9 of WCA ¹) and others which are to the detriment of native wildlife (using professional judgement) ² cover less than 5% of the total vegetated area ³ . Note - to achieve Good condition, this criterion must be satisfied by a complete absence of invasive non-native species (rather than <5% cover).	Yes	Can be managed by HMMP
Additional Criterion - must be assessed for Open mosaic habitat on previously developed land only:			
D	The parcel shows spatial variation and forms a mosaic of bare substrate PLUS: - At least four early successional communities (a) to (i); Communities: (a) annuals; (b) mosses/liverworts; (c) lichens; (d) ruderals; (e) inundation species; (f) open grassland; (g) flower-rich grassland; (h) heathland, (i) pools.		
Additional Criteria - must be assessed for Bioswale and SuDS habitat types only:			
E1	Plant species are mostly native. If non-native species are present, they should not be detrimental to the habitat or native wildlife ⁴ .	Yes	
E2	The vegetation is comprised of plant species suited to wetland or riparian situations.	Yes	

5. Summary conclusion

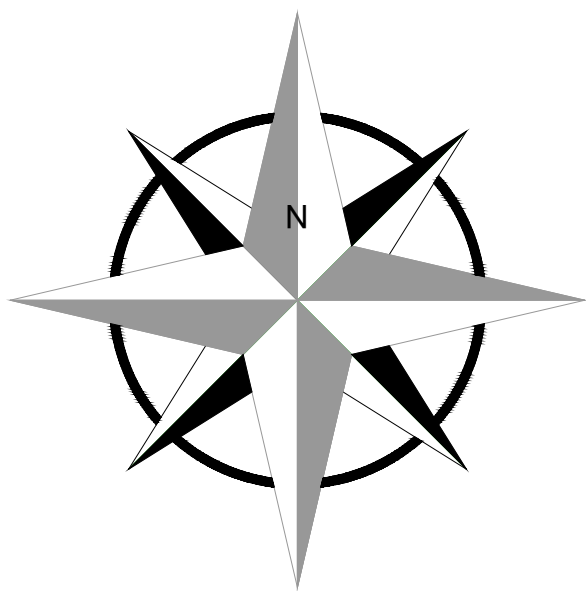
The results of the full assessment are as follows.

FINAL RESULTS		
Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	<i>Habitat units</i>	1.42
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	<i>Habitat units</i>	16.57%
	<i>Hedgerow units</i>	0.00%
	<i>Watercourse units</i>	0.00%
Trading rules satisfied?	Yes ✓	

The scheme is currently not in deficit and scores 16.57% and does satisfy trading rules.

A Habitat Management and Monitoring Plan (HMMP) is required for the created habitats.

Appendix 1 Habitat mapping based the UK Habitat Classification system



UK Habitat Classification

- KEY
- u1b Building / developed and sealed surface
 - u-1160 urban- introduced shrub
 - u1b Urban garden
 - u1c- artificial unvegetated unsealed surface
 - g4 - modified grassland
 - Urban trees

AMENITYTREE

The Annexe, Willow Hill Cottage,
School Lane, Burwardsley, Chester.
CH3 9NX
Tel. 01829 770075

Client:

Starship Group

Project:

Halstead

12449

Detail:

UK Habitat Classification Key - Overview

Drawn By:

SB

Date:

11/11/2025

Scale:

1:400 - A0

Dwg No:

TR-01-Overview Sheet

Revision:

V1

Appendix 2 The Proposed public open space plans and Landscape Plans



Halsnead Farm

Client: Starship Group
Project: Halsnead Farm
Location: Widnes
Drawing ref.: 458-LYR-XX-ZZ-DWG-L-3002
Revision: 04
Date: 04/08/26
Created by: Amy Dorazio
Schedule no.:

Layer

studio

MANCHESTERNEWCASTLEBRISTOL

W layer.studio T 01625 523 157 E manchester, newcastle or bristol@layer.studio

NOTES:

1. NOT SCALE FROM THIS DRAWING. ALWAYS WORK TO NOTED DIMENSIONS.

2. ALL SETTING OUT LEVELS AND DIMENSIONS TO BE CHECKED ON SITE PRIOR TO THE INSTALLATION OF MATERIALS AND ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR IMMEDIATELY.

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6. NOTE DRAWING SUITABILITY CODE SHOWN BELOW. DRAWING NOT TO BE USED FOR CONTRACTUAL AGREEMENT WITHOUT AT STATUS.

THIS DRAWING WAS PLOTTED ON:

05/08/2026

REVISION HISTORY

DATE	REV	ZONE	DESCRIPTION	CHK
28/05/2026	5		Areas added to key	AD
01/07/2026	6		Updated following comments from local council	AD
05/08/2026	7		Updates to architectural layout, updated following comments from LPA	AD

KEY

GENERAL INFORMATION

APPLICATION SITE BOUNDARY

POWER LINES

SOFTWORKS

CLEAR-STEM TREE PLANTING

Refer to Planting Schedule

MULTI-STEM TREE PLANTING

Refer to Planting Schedule

ORNAMENTAL PLANTING

Refer to Planting Schedule

Area: 1786.697m2

SUDS PLANTING

Refer to Planting Schedule

Area: 286.603m2

SCREENING PLANTING

Refer to Planting Schedule

Area: 4440.792m2

WOODLAND GROUNDCOVER

Refer to Planting Schedule

Area: 1900.01m2

WILDFLOWER 01

Refer to Planting Schedule

Area: 3042.509m2

WILDFLOWER 02

Refer to Planting Schedule

Area: 1457.614m2

LAWN

Refer to Planting Schedule

Area: 3703.625m2

HEDGE 01

Species: Carpinus Betulus, for further information refer to planting pchedule

Total Lin M. 831m

HEDGE 02

Species: Mixed Native Hedgerow, for further information refer to planting pchedule

Total Lin M. 28.8m

0m1m5m10m20m40m

ORIGINATOR

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newcastle@layer.studio

MANCHESTERNEWCASTLE
80 Grove Street Studio 39
Widneslow
Cheshire
SK9 1DR
39 High Bridge Works
Newcastle-upon-Tyne
NE1 1EW

Client

Starship Group

Project

Halsnead Farm

Drawing Title

Widnes

Softworks

Created By

MC

Checked By

ST

Scale

1:500

Sheet Size

A1

Project Number

458

Originator

LYR

Volume

XX-ZZ-DWG-L-3001

Level

File Type

Discipline

Number

Work Stage

Stage 1

Status

SX Review & comment

Revision

7

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Halsnead Farm Client: Starship Group Project: Halsnead Farm Location: Widnes Drawing ref.: 458-LYR-XX-ZZ-DWG-L-3002 Revision: 04 Date: 04/08/26 Created by: Amy Diorazio Schedule no.: Layer.studio MANCHESTERNEWCASTLEBRISTOL W layer.studioT 01625 523 157E manchester, newcastle or bristol@layer.studio								NOTES: 1. DO NOT SCALE FROM THIS DRAWING. ALWAYS WORK TO NOTED DIMENSIONS. 2. ALL SETTING OUT LEVELS AND DIMENSIONS TO BE CHECKED ON SITE PRIOR TO THE INSTALLATION OF MATERIALS AND ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR IMMEDIATELY. 3. THIS DRAWING MUST BE READ WITH THE RELEVANT SPECIFICATION DOCUMENTS AND DETAIL DRAWINGS. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR IMMEDIATELY. 4. THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY. 5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. 6. NOTE DRAWING SUITABILITY CODE SHOWN BELOW. DRAWING NOT TO BE USED FOR CONTRACTUAL AGREEMENT WITHOUT AT STATUS. THIS DRAWING WAS PLOTTED ON: 05/08/2026 REVISION HISTORY <table><tr><th>DATE</th><th>REV</th><th>ZONE</th><th>DESCRIPTION</th><th>CHK</th></tr><tr><td>01/06/2026</td><td>3</td><td></td><td>Updates to planting schedule to match softworks</td><td>AD</td></tr><tr><td>01/07/2026</td><td>4</td><td></td><td>Updated following comments from local council</td><td>AD</td></tr><tr><td>05/08/2026</td><td>5</td><td></td><td>Updates to architectural layout, updated following comments from LPA</td><td>AD</td></tr></table>	DATE	REV	ZONE	DESCRIPTION	CHK	01/06/2026	3		Updates to planting schedule to match softworks	AD	01/07/2026	4		Updated following comments from local council	AD	05/08/2026	5		Updates to architectural layout, updated following comments from LPA	AD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Clear-stem Trees <table><tr><th>Abbrev.</th><th>Botanical Name</th><th>Common Name</th><th>Girth/ Dia. cm</th><th>Height cm</th><th>Root Zone</th><th>Specification</th><th>Number</th></tr><tr><td>A ca 'El'</td><td>Acer campestre 'Elsrijk'</td><td>Field Maple 'Elsrijk'</td><td>14-16</td><td>400-450</td><td>RB</td><td>EHS; clear stem min. 200cm</td><td>Counted</td></tr><tr><td>B pe-1</td><td>Betula pendula</td><td>Common Silver Birch</td><td>10-12</td><td>350-400</td><td>RB</td><td>3x; EHS; clear stem 175-200cm; 5 brks</td><td>Counted</td></tr><tr><td>C be</td><td>Carpinus betulus</td><td>Common Hornbeam</td><td>16-18</td><td>400-450</td><td>RB</td><td>EHS; clear stem min. 200cm</td><td>Counted</td></tr><tr><td>F s</td><td>Fagus sylvatica</td><td>Common Beech</td><td>14-16</td><td>400-450</td><td>RB</td><td>EHS; clear stem 175-200cm; 5 brks</td><td>Counted</td></tr><tr><td>P s</td><td>Pinus Sylvestris</td><td>Scots Pine</td><td>/</td><td>300-350</td><td>RB</td><td>4x; leader with laterals; feathered</td><td>Counted</td></tr><tr><td>P av</td><td>Prunus avium</td><td>Wild Cherry</td><td>14-16</td><td>350-400</td><td>RB</td><td>3x; EHS; clear stem 175-200cm; 5 brks</td><td>Counted</td></tr><tr><td>P p</td><td>Prunus Padus</td><td>Bird Cherry</td><td>14-16</td><td>350-400</td><td>RB</td><td>3x; EHS; clear stem 175-200cm; 5 brks</td><td>Counted</td></tr><tr><td>P 's'</td><td>Prunus 'Spire'</td><td>Cherry 'Spire'</td><td>14-16</td><td>350-401</td><td>RB</td><td>3x; EHS; clear stem 175-200cm; 5 brks</td><td>Counted</td></tr><tr><td>Q r</td><td>Quercus robur</td><td>Common Oak</td><td>16-18</td><td>400-450</td><td>RB</td><td>3x; EHS; clear stem min. 200cm</td><td>Counted</td></tr><tr><td>S a</td><td>Sorbus aucuparia</td><td>Rowan</td><td>14-16</td><td>400-450</td><td>RB</td><td>EHS; clear stem 175-200cm; 5 brks</td><td>Counted</td></tr></table> Multi-stem Trees <table><tr><th>Abbrev.</th><th>Botanical Name</th><th>Common Name</th><th>Girth/ Dia. cm</th><th>Height cm</th><th>Root Zone</th><th>Specification</th><th>Number</th></tr><tr><td>A lam</td><td>Amelanchier lamarckii</td><td>Juneberry</td><td>/</td><td>300-350</td><td>RB</td><td>3x; Multi-stem; bushy; 3 stems min.</td><td>Counted</td></tr><tr><td>B pe - 2</td><td>Betula pendula</td><td>Common Silver Birch</td><td>/</td><td>350-400</td><td>RB</td><td>3x; Multi-stem; bushy; 3 stems min.</td><td>Counted</td></tr><tr><td>B pub</td><td>Betula pubescens</td><td>Downy Birch</td><td>/</td><td>300-350</td><td>RB</td><td>3x; Multi-stem; bushy; 2 stems</td><td>Counted</td></tr><tr><td>C k</td><td>Cornus Kousa</td><td>Chinese Dogwood</td><td>/</td><td>250-300</td><td>RB</td><td>3x; Multi-stem; bushy; 2 stems</td><td>Counted</td></tr><tr><td>C mas</td><td>Cornus mas</td><td>Cornelian Cherry</td><td>/</td><td>250-300</td><td>RB</td><td>3x; Multi-stem; bushy; 2 stems</td><td>Counted</td></tr><tr><td>C av</td><td>Corylus avellana</td><td>Hazel</td><td>/</td><td>300-350</td><td>RB</td><td>3x; Multi-stem; bushy; 2 stems</td><td>Counted</td></tr><tr><td>Q i</td><td>Quercus ilex</td><td>Holm Oak</td><td>/</td><td>300-350</td><td>RB</td><td>3x; Multi-stem; bushy; 2 stems</td><td>Counted</td></tr></table> Hedge <table><tr><th>Abbrev.</th><th>Botanical Name</th><th>Common Name</th><th>Height</th><th>Root Zone</th><th>Specification</th><th>Number (l in. M)</th></tr><tr><td>C bet</td><td>Carpinus betulus</td><td>Common Hornbeam</td><td>90-120</td><td>B</td><td>Double staggered row planted at a density of 5/Lm.</td><td>830.7</td></tr><tr><th>Abbrev.</th><th>Reference</th><th>Girth/ Dia. cm</th><th>Root Zone</th><th>Specification</th><th>Number (l in. M)</th></tr><tr><td>MNH</td><td>Mixed Native Hawthorn Based Hedge</td><td>90-120</td><td>B</td><td>Double staggered row planted at a density of 5/Lm. Species: Hawthorn 40%, Holly 20%, Blackthorn 10%, Hazel 10%.</td><td>28.8</td></tr></table> Screening Planting <table><tr><th>Abbrev.</th><th>Botanical Name</th><th>Common Name</th><th>Girth/ Dia. cm</th><th>Height cm</th><th>Root Zone</th><th>Specification</th><th>per m2</th></tr><tr><td>C av</td><td>Corylus Avellana</td><td>Hazel</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>C mon</td><td>Crataegus monogyna</td><td>Hawthorn</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>E eur</td><td>Euonymus europaeus</td><td>Spindle</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>J com</td><td>Juniperus communis</td><td>Juniper</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>P spi</td><td>Prunus spinosa</td><td>Blackthorn</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>R arv</td><td>Rosa arvensis</td><td>Field Rose</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>R can</td><td>Rosa canina</td><td>Dog Rose</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>S lan</td><td>Salix lanata</td><td>Wooley Willow</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>S nig</td><td>Sambucus nigra</td><td>Elder</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr><tr><td>U eu</td><td>Ulex europaeus</td><td>Gorse</td><td>/</td><td>/</td><td>B</td><td>1+1; Transplant- seed raised</td><td>/</td></tr></table> SUDS Planting <table><tr><th>Abbrev.</th><th>Botanical Name</th><th>Common Name</th><th>Girth/ Dia. cm</th><th>Height cm</th><th>Root Zone</th><th>Specification</th><th>per m</th></tr><tr><td>A H H</td><td>Agapanthus Headbourne Hybrids</td><td>African Lily Blue Headbourne Hybrids</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>B o 'R'</td><td>Betonica officinalis 'Rosea'</td><td>Betony 'Rosea'</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>5</td></tr><tr><td>C b</td><td>Calamagrostis brachytricha</td><td>Korean Feather Reed Grass</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>D c 'G'</td><td>Deschampsia cespitosa 'Gold Tau'</td><td>Tufted hair Grass</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>7</td></tr><tr><td>E k</td><td>Erigeron karwinskianus</td><td>Mexacan Fleabane</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>7</td></tr><tr><td>E p</td><td>Eryngium planum 'Blaukappe'</td><td>Blue eryngo</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>E c 'W'</td><td>Euphorbia characias 'Humpty Dumpty'</td><td>Spurge</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>L chi</td><td>Libertia chilensis</td><td>Chilean Iris</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>N r 'W L'</td><td>Nepeta racemosa 'Walkers Low'</td><td>Catmint 'Walker's Low'</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>P r</td><td>Phlomis russelliana</td><td>Turkish Sage</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>9</td></tr><tr><td>S r 'P G'</td><td>Santolina rosmarinifolia 'Primrose Gem'</td><td>Cotton Lavender 'Primrose Gem'</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>S 'M'</td><td>Sedum 'Matrona'</td><td>Stone crop 'Matronna'</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>7</td></tr></table> Ornamental Mix <table><tr><th>Abbrev.</th><th>Botanical Name</th><th>Common Name</th><th>Girth/ Dia. cm</th><th>Height cm</th><th>Root Zone</th><th>Specification</th><th>per m</th></tr><tr><td>A mil</td><td>Achillea millefolium</td><td>Yarrow</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>9</td></tr><tr><td>A m</td><td>Alchemilla mollis</td><td>Garden Lady's-mantle</td><td>/</td><td>/</td><td>P9</td><td>Full Pot</td><td>9</td></tr><tr><td>A vul</td><td>Aquilegia vulgaris</td><td>Columbine</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>7</td></tr><tr><td>C rem</td><td>Carex remota</td><td>Remote Sedge</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>7</td></tr><tr><td>C n</td><td>Centaurea nigra</td><td>Common Knapweed</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>5</td></tr><tr><td>D ces</td><td>Deschampsia cespitosa</td><td>Tufted hair Grass</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>7</td></tr><tr><td>E r 'V B'</td><td>Echinops ritro 'Veitch's Blue'</td><td>Globe Thistle 'Veitch's Blue'</td><td>/</td><td>/</td><td>2L</td><td>Full Pot</td><td>4</td></tr><tr><td>E eur</td><td>Euonymus europaeus</td><td>Spindle</td><td>/</td><td>/</td><td>10L</td><td>Bushy, 5 Breaks</td><td>3</td></tr><tr><td>E amy</td><td>Euphorbia amygdaloides</td><td>Wood Spurge</td><td>/</td><td>/</td><td>P9</td><td>Full pot</td><td>9</td></tr><tr><td>G n</td><td>Geranium nodosum</td><td>Knotted crane's-bill</td><td>/</td><td>/</td><td>P9</td><td>Full Pot</td><td>5</td></tr><tr><td>L v</td><td>Leucanthemum vulgare</td><td>Ox-eye daisy</td><td>/</td><td>/</td><td>2L</td><td>Full pot</td><td>5</td></tr><tr><td>P 'R'</td><td>Penstemon 'Raven'</td><td>-</td><td>/</td><td>/</td><td>2L</td><td>Full Pot</td><td>5</td></tr><tr><td>P f 'P B'</td><td>Potentilla fruticosa 'Pink Beauty'</td><td>Shrubby Cinquefoil 'Pink Beauty'</td><td>/</td><td>/</td><td>3L</td><td>Bushy</td><td>3</td></tr><tr><td>R av</td><td>Rosa arvensis</td><td>Field Rose</td><td>/</td><td>/</td><td>5L</td><td>Bushy, 5 Breaks</td><td>5</td></tr><tr><td>S a</td><td>Sesleria autumnalis</td><td>Autumn Moor Grass</td><td>/</td><td>/</td><td>P9</td><td>Full Pot</td><td>9</td></tr><tr><td>V b</td><td>Verbena bonariensis</td><td>Purpletop vervain</td><td>/</td><td>/</td><td>P9</td><td>Full Pot</td><td>9</td></tr></table>								Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Number	A ca 'El'	Acer campestre 'Elsrijk'	Field Maple 'Elsrijk'	14-16	400-450	RB	EHS; clear stem min. 200cm	Counted	B pe-1	Betula pendula	Common Silver Birch	10-12	350-400	RB	3x; EHS; clear stem 175-200cm; 5 brks	Counted	C be	Carpinus betulus	Common Hornbeam	16-18	400-450	RB	EHS; clear stem min. 200cm	Counted	F s	Fagus sylvatica	Common Beech	14-16	400-450	RB	EHS; clear stem 175-200cm; 5 brks	Counted	P s	Pinus Sylvestris	Scots Pine	/	300-350	RB	4x; leader with laterals; feathered	Counted	P av	Prunus avium	Wild Cherry	14-16	350-400	RB	3x; EHS; clear stem 175-200cm; 5 brks	Counted	P p	Prunus Padus	Bird Cherry	14-16	350-400	RB	3x; EHS; clear stem 175-200cm; 5 brks	Counted	P 's'	Prunus 'Spire'	Cherry 'Spire'	14-16	350-401	RB	3x; EHS; clear stem 175-200cm; 5 brks	Counted	Q r	Quercus robur	Common Oak	16-18	400-450	RB	3x; EHS; clear stem min. 200cm	Counted	S a	Sorbus aucuparia	Rowan	14-16	400-450	RB	EHS; clear stem 175-200cm; 5 brks	Counted	Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Number	A lam	Amelanchier lamarckii	Juneberry	/	300-350	RB	3x; Multi-stem; bushy; 3 stems min.	Counted	B pe - 2	Betula pendula	Common Silver Birch	/	350-400	RB	3x; Multi-stem; bushy; 3 stems min.	Counted	B pub	Betula pubescens	Downy Birch	/	300-350	RB	3x; Multi-stem; bushy; 2 stems	Counted	C k	Cornus Kousa	Chinese Dogwood	/	250-300	RB	3x; Multi-stem; bushy; 2 stems	Counted	C mas	Cornus mas	Cornelian Cherry	/	250-300	RB	3x; Multi-stem; bushy; 2 stems	Counted	C av	Corylus avellana	Hazel	/	300-350	RB	3x; Multi-stem; bushy; 2 stems	Counted	Q i	Quercus ilex	Holm Oak	/	300-350	RB	3x; Multi-stem; bushy; 2 stems	Counted	Abbrev.	Botanical Name	Common Name	Height	Root Zone	Specification	Number (l in. M)	C bet	Carpinus betulus	Common Hornbeam	90-120	B	Double staggered row planted at a density of 5/Lm.	830.7	Abbrev.	Reference	Girth/ Dia. cm	Root Zone	Specification	Number (l in. M)	MNH	Mixed Native Hawthorn Based Hedge	90-120	B	Double staggered row planted at a density of 5/Lm. Species: Hawthorn 40%, Holly 20%, Blackthorn 10%, Hazel 10%.	28.8	Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	per m2	C av	Corylus Avellana	Hazel	/	/	B	1+1; Transplant- seed raised	/	C mon	Crataegus monogyna	Hawthorn	/	/	B	1+1; Transplant- seed raised	/	E eur	Euonymus europaeus	Spindle	/	/	B	1+1; Transplant- seed raised	/	J com	Juniperus communis	Juniper	/	/	B	1+1; Transplant- seed raised	/	P spi	Prunus spinosa	Blackthorn	/	/	B	1+1; Transplant- seed raised	/	R arv	Rosa arvensis	Field Rose	/	/	B	1+1; Transplant- seed raised	/	R can	Rosa canina	Dog Rose	/	/	B	1+1; Transplant- seed raised	/	S lan	Salix lanata	Wooley Willow	/	/	B	1+1; Transplant- seed raised	/	S nig	Sambucus nigra	Elder	/	/	B	1+1; Transplant- seed raised	/	U eu	Ulex europaeus	Gorse	/	/	B	1+1; Transplant- seed raised	/	Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	per m	A H H	Agapanthus Headbourne Hybrids	African Lily Blue Headbourne Hybrids	/	/	2L	Full pot	5	B o 'R'	Betonica officinalis 'Rosea'	Betony 'Rosea'	/	/	P9	Full pot	5	C b	Calamagrostis brachytricha	Korean Feather Reed Grass	/	/	2L	Full pot	5	D c 'G'	Deschampsia cespitosa 'Gold Tau'	Tufted hair Grass	/	/	P9	Full pot	7	E k	Erigeron karwinskianus	Mexacan Fleabane	/	/	P9	Full pot	7	E p	Eryngium planum 'Blaukappe'	Blue eryngo	/	/	2L	Full pot	5	E c 'W'	Euphorbia characias 'Humpty Dumpty'	Spurge	/	/	2L	Full pot	5	L chi	Libertia chilensis	Chilean Iris	/	/	2L	Full pot	5	N r 'W L'	Nepeta racemosa 'Walkers Low'	Catmint 'Walker's Low'	/	/	2L	Full pot	5	P r	Phlomis russelliana	Turkish Sage	/	/	P9	Full pot	9	S r 'P G'	Santolina rosmarinifolia 'Primrose Gem'	Cotton Lavender 'Primrose Gem'	/	/	2L	Full pot	5	S 'M'	Sedum 'Matrona'	Stone crop 'Matronna'	/	/	P9	Full pot	7	Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	per m	A mil	Achillea millefolium	Yarrow	/	/	2L	Full pot	9	A m	Alchemilla mollis	Garden Lady's-mantle	/	/	P9	Full Pot	9	A vul	Aquilegia vulgaris	Columbine	/	/	P9	Full pot	7	C rem	Carex remota	Remote Sedge	/	/	P9	Full pot	7	C n	Centaurea nigra	Common Knapweed	/	/	P9	Full pot	5	D ces	Deschampsia cespitosa	Tufted hair Grass	/	/	P9	Full pot	7	E r 'V B'	Echinops ritro 'Veitch's Blue'	Globe Thistle 'Veitch's Blue'	/	/	2L	Full Pot	4	E eur	Euonymus europaeus	Spindle	/	/	10L	Bushy, 5 Breaks	3	E amy	Euphorbia amygdaloides	Wood Spurge	/	/	P9	Full pot	9	G n	Geranium nodosum	Knotted crane's-bill	/	/	P9	Full Pot	5	L v	Leucanthemum vulgare	Ox-eye daisy	/	/	2L	Full pot	5	P 'R'	Penstemon 'Raven'	-	/	/	2L	Full Pot	5	P f 'P B'	Potentilla fruticosa 'Pink Beauty'	Shrubby Cinquefoil 'Pink Beauty'	/	/	3L	Bushy	3	R av	Rosa arvensis	Field Rose	/	/	5L	Bushy, 5 Breaks	5	S a	Sesleria autumnalis	Autumn Moor Grass	/	/	P9	Full Pot	9	V b	Verbena bonariensis	Purpletop vervain	/	/	P9	Full Pot	9	PLANTING SPECIFICATION NOTES 01. PLANT HANDLING AT THE NURSERY AND DURING TRANSIT UP TO DELIVERY SHALL BE IN ACCORDANCE WITH 'PLANT HANDLING' THE BOOKLET PUBLISHED BY THE COMMITTEE FOR PLANT SUPPLY AND ESTABLISHMENT (CPSE). THE CONTRACTOR SHALL COMPLY WITH CLAUSES 3&4 OF THE ABOVE BOOKLET (OBTAINED FROM THE HORTICULTURE TRADES ASSOCIATION) WHICH REFERS TO THE RECIEPT, UNLOADING AND TEMPORARY STORAGE OF PLANTS. 02. PLANTS SHALL BE FIRST CLASS EXAMPLES OF THEIR SPECIES OR VARIETY, FREE FROM ALL PESTS AND DISEASES WITH GOOD FIBROUS ROOT SYSTEMS AND MATERIALLY UNDAMAGED (REFER TO RELEVANT SECTIONS OF BS 3936 PARTS 1-4 'SPECIFICATION OF NURSERY STOCK'). 03. ALL PLANTING IS TO BE IN GENERAL COMPLIANCE WITH LCC STANDARDS TO BS 3882:2015. 04. ALL TREES ARE STAKED AND SECURED AS FOLLOWS: 1) ALL SEMI MATURE TREES ARE TO BE UNDERGROUND GUYED AS PER DRAWING NO. 6002 05. AT THE TIME OF PLANTING, AREAS WILL BE COVERED BY AN APPROVED DEPTH OF TOPSOIL AT 300mm. IMPORTED TOPSOIL IN ACCORDANCE WITH BS 3882. IMPORTED SUBSOIL IN ACCORDANCE WITH BS 8601. PLANTING TO BE COVERED WITH 50mm MULCH LAYER. 06. THE CONTRACTOR MUST ASCERTAIN FOR THEMSELVES THE EXACT LOCATION OF ANY UNDERGROUND SERVICES AND MAINTENANCE POINTS. 07. ALL PLANTING IS TO BE IMPLEMENTED INTO GROUND PREPARED BY THE MAIN CONTRACTOR. 08. WATER AS NECESSARY TO ENSURE PLANT ESTABLISHMENT AND CONTINUED THRIVING OF PLANTED MATTER. 09. CARRY OUT ALL WORK WHEN SOIL AND WEATHER CONDITIONS ARE SUITABLE: 1) DO NOT PLANT DURING PERIODS OF FROST OR STRONG WINDS. PLANT ONLY DURING THE FOLLOWING PERIODS: - TREES: LATE OCTOBER TO LATE MARCH - HERBACEOUS PLANTS: SEPTEMBER/OCTOBER OR MARCH/APRIL ENSURE THAT ADEQUATE WATERING AND WEED CONTROL IS AVAILABLE. SOIL SPECIFICATION NOTES 01. AT THE TIME OF PLANTING, AREAS WILL BE COVERED BY AN APPROVED DEPTH OF TOPSOIL AT 300mm. IMPORTED TOPSOIL IN ACCORDANCE WITH BS 3882. IMPORTED SUBSOIL IN ACCORDANCE WITH BS 8601. PLANTING TO BE COVERED WITH 50mm MULCH LAYER. 02. 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Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A ca 'El'	Acer campestre 'Elsrijk'	Field Maple 'Elsrijk'	14-16	400-450	RB	EHS; clear stem min. 200cm	Counted																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
B pe-1	Betula pendula	Common Silver Birch	10-12	350-400	RB	3x; EHS; clear stem 175-200cm; 5 brks	Counted																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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MNH	Mixed Native Hawthorn Based Hedge	90-120	B	Double staggered row planted at a density of 5/Lm. Species: Hawthorn 40%, Holly 20%, Blackthorn 10%, Hazel 10%.	28.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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W layer.studio T 01625 523 157 E manchester or newcastle@layer.studio MANCHESTERNEWCASTLE 86 Grove Street Studio-39 Widneslow Cheshire SK9 1DR Client: Starship Group Project: Halsnead Farm Widnes Drawing Title: Planting Schedule Created By: MC Checked By: ST Scale: 1:500 Sheet Size: A1 Project Number: 458 Originator: LYR Volume: XX-ZZ-DWG-L-3002 Level: - File Type: - Discipline: - Number: - Work Stage: Stage 1 Status: SX Review & comment Revision: 5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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