

Selected Plant and Shrub Species			Planting Condition	Specification	Density	Description
S1	Ilex Aquifolium Common Holly		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	10L	2 per m ²	<i>Large evergreen tree, slow growing when young, with dark glossy green, usually strongly spiny leaves. Small white flowers in spring are followed by bright red berries.</i>
S2	Cytisus Scoparius Common Broom		Well-drained Clay/Sand/ Loam Acid, Alkali or Neutral Exposed or Sheltered Full Sun	4L	4 per m ²	<i>Upright, deciduous shrub about 1.5m tall, with slender green shoots bearing small bright green leaves composed of 3 leaflets, and clusters of pea-like bright butter-yellow flowers, appearing from the leaf axils, in late spring</i>
S3	Viburnum Opulus Gelder Rose		Moist - Well-drained Clay/ Loam/ Sand Acid, Alkali or Neutral Exposed or Sheltered Full Sun, Shade or Partial Shade	2L 30-50cm	4 per m ²	<i>An upright deciduous shrub with maple-like palmately lobbed leaves with turn red in autumn, and flat clusters of small white flowers surrounded by larger sterile flowers, and followed by translucent red berries.</i>
S4	Rosa Canina Dog Rose		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	4L	4 per m ²	<i>A vigorous arching deciduous shrub about 3m in height, with strong prickly stems bearing mid-green foliage and fragrant, single, pale pink or white flowers 5cm across, with prominent yellow stamens, produced either solitary or in small clusters, in early summer, followed by ovoid red fruits</i>
S5	Dryopteris Affinis Golden Shield Fern		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun, Shade or Partial Shade	5L	2 per m ²	<i>A robust semi-evergreen fern forming a rosette of erect, bipinnatifid fronds to 1.2m in length- bright yellow-green when young, later rich green with dense persistent golden scales on stems.</i>
S6	Calluna Vulgaris Heather		Moist - Well-drained Clay/ Loam/ Sand Acid Exposed or Sheltered Full Sun	2L	4 per m ²	<i>An evergreen shrub with small, narrow linear leaves and spikes of urn-shaped pink or pale purple, single or double flowers borne from mid-summer to autumn.</i>
S7	Erica Carnea Alpine Heath		Moist - Well-drained Clay/ Loam/ Sand Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	1L	8 per m ²	<i>A dwarf, spreading evergreen shrub with tiny, narrow dark green leaves. One-sided sprays about 8cm long of small, urn shaped pink, purple-pink, magenta or white flowers appear in late winter and early spring.</i>
S8	Primula Vulgaris Primrose		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Sheltered Full Sun or Partial Shade	1L	8 per m ²	<i>A herbaceous perennial, producing clusters of flowers on individual stems from basal rosettes. A few may also have umbel-like flowers.</i>
S9	Betonica Officinalis Betony		Well-drained Clay/ Loam/ Sand Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	1L	8 per m ²	<i>An upright perennial with scalloped, oblong leaves and dense terminal spikes of reddish-purple flowers in summer and early autumn.</i>
S10	Persicaria Bistorta Common Bistort		Moist - Well-drained Poorly drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	1L	8 per m ²	<i>Vigorous rhizomatous perennial to 1m tall, with prominently veined, ovate leaves to 30cm long, and dense spikes of small pale pink flowers in summer and early-autumn.</i>
S11	Narcissus Pseudonarcissus Daffodil		Moist - Well-drained Poorly drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	1 Bulb	As 940001	<i>A small trumpet daffodil up to 35cm in height, with usually glaucous foliage and flowers 4-6cm in width, with deep yellow trumpet and pale yellow perianth segments.</i>

Selected Hedge Specification			Specification	Density	Description	
H1	Fagus Sylvatica Common Beech		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	10L 90-120cm	Every 50cm	<i>Large, vigorous deciduous tree reaching 30m in height, with a broad, spreading crown. Leaves broadly elliptic, yellow-green in spring, rich golden copper to russet-brown in autumn. Small, green flowers in early spring, are followed by bristly fruits.</i>
H2	Cornus Sanguinea Common Dogwood		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	10L 90-120cm	Every 50cm	<i>Deciduous shrub about 3m tall, of upright habit, with young shoots reddish-green in winter, ovate mid-green leaves turning deep red in autumn, and in summer, small white flowers in flat clusters, followed by black berries.</i>

	Selected Hedge Specification		Specification	Density	Description
H3	Crataegus Monogyna Hawthorn Mature Height: 4 - 8m Mature Spread: 4 - 8m Time to Maturity: 10-20 years		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	10L 90-120cm	Every 50cm <i>A rounded deciduous tree to about 10m in height, with thorny branches and glossy, deeply lobed dark green leaves, colouring gold in autumn. Flat sprays of fragrant, creamy-white flowers with pink anthers, are produced in late spring, followed by plentiful dark red edible berries in autumn.</i>
H4	Prunus Spinosa Blackthorn Mature Height: 2.5 - 4m Mature Spread: 2.5 - 4m Time to Maturity: 20-50 years		Moist - Well-drained Clay/ Loam/ Sand/ Chalk Acid, Alkali or Neutral Exposed or Sheltered Full Sun or Partial Shade	10L 90-120cm	Every 50cm <i>A small thorny deciduous tree with dark green, ovate leaves, and small white flowers in early spring, followed by ovoid, bloomy black fruits 1.5cm across. If left unchecked, it can produce suckers both upwards and outwards which may become a nuisance, so removal of these is advised unless you require a solid thicket.</i>

Selected Grasses and Wildflower Specification			Specification	Spread	Description
G1	Emorsgate EL1 Flowering lawn mixture		80% grasses 20% wildflowers	4g per m ²	<i>Mixture EL1 contains slow growing grasses with a selection of wild flowers that respond well to regular short mowing.</i>
G2	Barenbrug Wildflower Bees & Butterflies		20% native wild flowers 80% grasses	5g per m ²	<i>A broad and reliable mixture that contains annuals, perennials and biennials. Each wild flower species contained in the mixture is featured on the Royal Horticultural Society 'Perfect for Pollinators' list. Annual species will provide instant results by flowering in the first year.</i>
G3	Carex Pendula Pendulous Sedge		5L	N/A	<i>A vigorous grass-like hardy perennial forming large clumps up to 1.5m tall, of dark green, narrow, pleated leaves, with tall stems bearing slender, drooping flower spikes.</i>
G4	Centaurea Cyanus Cornflower		plug	N/A	<i>An upright annual to 75cm, with simple or slightly lobed leaves and solitary deep blue flower-heads 3-4cm across in late spring and summer.</i>
G5	Leucanthemum Vulgare Ox-eye Daisy		plug	N/A	<i>A rhizomatous perennial with dark green spoon-shaped leaves and solitary white, daisy-like flowerheads with yellow disk florets, in late spring and early summer.</i>

Bio-Retention Planting Specification			Planting Condition	Specification	Density	Description
B1	Juncus Effusus Common Rush		Poorly-drained Clay/ Loam pH - Acid	5L	4 per m ²	<i>Clump-forming evergreen, grass-like perennial. Bright green to yellowish rounded stems. Flowers from late-spring to summer, with small green/ brown flowers just below stem tips.</i>
B2	Eupatorium Cannabinum Hemp Agrimony		Moist but well drained - poorly drained Clay/ Loam ph - Any	5L	4 per m ²	<i>Upright perennial with reddish stems, leaves palmately-divided into narrow leaflets, and a dense domed clusters of purple-pink flowers in late-summer and early-autumn.</i>
B3	Filipendula Ulmaria Meadow Sweet		Moist but well drained - poorly drained Clay/ Loam ph - Any	1L	8 per m ²	<i>A vigorous perennial with pinnately divided leaves, the leaflets strongly toothedand whitish beneath. Creamy-white flowers in dense irregular terminal clusters on leafy stems in summer.</i>
B4	Lythrum Salicaria Purple Loosestrife		Poorly-drained Clay/ Loam ph - Any	1L	8 per m ²	<i>Robust herbaceous perennial with upright stems to 1.2m tall, clad in narrow, willowy leaves and small vivid purplish-pink flowers, 2cm wide, in dense terminal spikes over a long period in the summer.</i>
B5	Rudbeckia Fulgida Little Goldstar		Moist but well drained Clay/ Loam or Sand ph - Any	1L	8 per m ²	<i>A herbaceous perennial forming a clump to 60cm in height, with erect stems bearing narrowly ovate leaves and dark-eyed, deep yellow flowers to 12cm width.</i>
B6	Deschampsia Cespitosa Goldtau		Moist but well drained Clay/ Loam or Sand ph - Acid/ Neutral	3L	4 per m ²	<i>An evergreen grass forming a neat tussock of narrow, leathery, dark green leaves to 60cm long, with feathery panicles of silvery-purple flowers on arching stems in summer.</i>

GENERAL NOTES

- This drawing is confidential and copyright and owned by WSP (Real Estate & Infrastructure) Ltd. and is for use on this site only unless contractually stated otherwise.
- Dimensions are not to be scaled from this drawing. Discrepancies and / or ambiguities within this drawing, between I and information given elsewhere, must be reported immediately to the architect for clarification before proceeding.
- Graphical representations of equipment on this drawing have been co-ordinated, but are approximations only. Please refer to the Specifications and / or Details for actual sizes, or specific contractor construction information where only design intent is provided.
- This drawing is to be read in conjunction with all other relevant architectural drawings and specifications as well as the drawings and specifications of other design disciplines, including structural engineers and building services engineers.
- It is assumed that all works on this drawing will be carried out by a competent contractor, aware of their duties under CDM regulations 2015 and working to a construction phase plan developed by the Principle Contractor.

HEALTH & SAFETY SYMBOL KEY

- **WARNING RISK**
Indicates a Residual Risk as a warning
- **COMPULSORY RISK**
Indicates a Residual Risk requiring a compulsory action
- **PROHIBITIVE RISK**
Indicates a Residual Risk requiring a prohibitive action
- **INFORMATION RISK**
Indicates a Residual Risk for information

- SITE CLEARANCE**
Site to be cleared of any debris or rubbish. Weed growth to be removed from existing ground, by mechanical method or by application of translocated herbicide- applied at least three weeks prior to planting. Use of herbicide to be in accordance with manufacturers instructions and be suitable for use near water.
- GROUND PREPARATION**
Topsoil to be fully cultivated to produce an even 10th, free of stones and debris >50mm diameter. Existing soil in all scheduled planting areas, compacted during construction, requires complete replacement with quality topsoil (compliant with British Standard 3882) as specified below. All soil within planting areas to be dug and thoroughly loosened to a minimum depth, 150mm below ground level. Shrub areas to be a minimum 450mm subsoil and 450mm topsoil. Spread 100mm layer of soil/improve over all planting areas and cultivate to incorporate thoroughly with topsoil. Soil improve to be well-rotted farmyard manure, spent compost, SHL, well-rotted tree and shrub compost or similar approved.
- PLANTING - GENERALLY**
All works to be carried out in accordance with BS 4426 and good horticultural practice. All plant materials to be a form typical of the species of British provenance, true to size and species, of good health with a good fibrous root system and compatible with British Standard 2326 part 1, 1992 specifications. 'Nursery Stock'. No substitutes are to be made without the written consent of the Local Planning Authority. No soil, spoil, construction materials or rubbish shall be tipped or stored with the spread of vegetation.

- PLANTING - TREES AND SHRUBS**
All bare rooted plants to have their root system immersed in Agalunne root dip in accordance with the manufacturer's instructions immediately after lifting.

Shrubs and herbaceous plants to be planted in pits approximately 150mm greater in diameter than the size of the roots when fully spread. Base of pit to be forked over prior to planting. Apply slow release fertilizer (including trace elements of egg/ Vimax Q4) to each planting pit. Fertilizer to be applied at manufacturers recommended rates.

- PLANTING - GRASSES**
Grass seed is best sown in the Autumn or Spring but can be sown at other times of the year if there is sufficient warmth and moisture. The seed must be surface sown and can be applied by machine or broadcast by hand. For an even distribution, and to avoid turning out, divide the seed into two or more parts and sow in overlapping sections at 90 degrees to each other. Do not incorporate or cover the seed, but firm in with a roll, or by treading, to give good soil seed contact.

- PROTECTION AFTER PLANTING**
All planting material to be well watered prior to planting and again immediately after planting to ensure the soil is saturated to full planting depth. All planting areas to be lightly raked to an even profile prior to mulching. Spread pine mulch over planted areas to a minimum depth of 50mm, ensuring that the mulch does not bury ground cover plants. Mulch to be a good quality pine, no greater than 60mm in any direction, composted for a minimum of 6 months and containing no rubble or other foreign matter. Mulch level to sit at least 30mm below adjoining paved areas.

- ESTABLISHMENT MAINTENANCE AND REPLACEMENT OF DEFECTS**
Establishment period and defects period to be 1 year following practical completion. The following maintenance operations to be undertaken during the establishment period: i) Remove and replace all dead, dying or diseased plants during the nearest planting season. ii) Keep area 1m in diameter around each plant free from weeds. iii) Prune plants to remove dead, dying or diseased wood and to promote healthy growth and natural shape. iv) Regularly check the condition of stakes, ties and guards, replacing as necessary, with removal by others after the 12 months defects and maintenance period. v) Top up mulch annually. vi) Re-firm loose trees and shrubs as necessary. vii) Watering frequency as necessary to maintain continued thriving of all planting.

P02 Revised to align scheme with Council Ecologist comments 12/03/25

P01 Issued for Stage 3 05/12/24

Rev Description (C/D/I / App'd) Date

Status

S2 - For information and reference

Classification

Client
Merthyr Tydfil County Borough Council

Project
Merthyr Interchange Link

Drawing

Planting Specification & Guidance

Scale @ A1

Drawn EB Checked EB Approved MT

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