

**Notes:**

The following notes apply to Sheets 1 to 19 drawings ENV000009C-JAC-ZZ-ZZ-DR-L0013 to L0031 and Ribble Sidings drawing ENV000009C-JAC-ZZ-42X-DR-L-0002.

- All existing trees in close proximity to the working area to be protected in accordance with BS 5837:2012 Trees in relation to design, demolition and construction for the duration of the works.
- All measurements given are in metres unless otherwise stated and are approximate. This drawing is to be read in colour.
- The contractor is to verify the presence and location of all underground utilities prior to the commencement of the works and undertaking any excavation works.
- All planting and seeding to be undertaken in accordance with the landscape and ecology specification for the works.
- All arisings other than felled timber as specified are to be removed off site to a licensed tip.
- Refer to the engineer's drawings for the location, design and specification of walls, fencing and gates, all surfaces.

**Ground Preparation and Topsoil Reinstatement:**

- Extent of reinstatement is indicative and will be subject to final extent of flood defence works and temporary construction land take.
- All disturbed ground to be reinstated and decompacted where necessary. Subsoil treatment to be in accordance with Section Q28 of the landscape specification. And to include all haul routes, site compounds, areas disturbed by construction and all areas to be planted as agreed with the contract administrator. All areas to be decompacted prior to reinstatement of topsoil profiles to match existing profiles and grass seeding. Excluding root protection areas (RPA) below retained trees and hedgerows (RPA drawing no. ENV000009C-JAC-XX-DR-00-DR-EN-0002 sheet 1 to 8).
- Topsoil profiles to be reinstated with a mix of site-won topsoil sourced from working areas and imported topsoil as necessary to make up the shortfall. Imported topsoil shall comply with BS 3882:2015 General Purpose for all planting and amenity grass seeded areas. Low fertility topsoil to be imported for species-rich grassland areas on the flood embankment areas (remaining species-rich grassland areas to have no topsoil). Imported topsoil shall not contain stones greater than 20mm in size, nor have a total stone content exceeding 10% by mass.

**Grass Seeding and Sports Pitch Reinstatement**

- Flood embankment and amenity grassland reinstatement areas to have a minimum depth of 100mm topsoil. Species-rich grassland areas to have no topsoil except for flood embankment (as per note 9 above). Amenity grass areas to be reinstated to match existing profiles prior to construction or to comprise 100mm minimum depth of topsoil (whichever is greater). Seedbeds prepared and sown with amenity grassland/species-rich and wildflower mixes as detailed on ENV000009C-JAC-ZZ-42X-DR-L0002, specification and the schedules on this drawing. Areas shown on the drawings are indicative, all disturbed areas are to be reinstated.

- Proposed wetland scrape areas to be located within wildflower mix EM8 to be as shown on drawing ENV000009C-JAC-ZZ-42X-DR-L002.
- BAC sports pitches ground preparation, drainage, turf and seeding reinstatement to be undertaken by a specialist sport pitch contractor. Sports pitch drainage to tie in with existing. All disturbed areas to be made good.

**Shrub Planting Areas**

- Shrub planting plots to have a minimum of 300mm depth topsoil. Subsoil to be decompacted and topsoil cultivated to full depth in accordance with section Q28 of the landscape specification.

- An approved wood chip mulch to be applied around and under shrub planting and hedgerow to a minimum depth of 75mm.

**Tree Planting**

- Refer to the landscape specification Section Q31 for tree pit preparation, planting and staking information.

**Maintenance**

- Five maintenance establishment period. At the end of year one establishment maintenance responsibilities will be as detailed in the Landscape and Habitat and Establishment Plans for the scheme. (ENV000009C-JAC-ZZ-RP-EN-0002 and 0003)

**Fishwick Bottoms - Plant Schedules**

- Refer to drawing ENV000009C-JAC-ZZ-ZZ-DR-L0031 for Fishwick Bottom plant schedules.

**OVERALL PLANT SCHEDULES:**

Specimen Shrubs								
Species	Abbreviation	Form	Pot vol	Height	Type	Habit	No. of breaks	Sheet 14
Amelanchier lamarkii	AL	Shrub	15L	175-200cm	CG	Feathered	5	2
Cornus kousa	CK	Shrub	30L	150-175cm	CG	Branched	5	4
							<b>Total</b>	<b>6</b>

Wildflower Plugs (Ribble Sidings)							
To be planted a 3/m². All to be 9cm plugs, random mix.							
Latin name	Common name	Area (m²):	W1	W2	W3	W4	Total
Lythrum salicaria	Purple Loosestrife	20	3	3	3	3	12
Digitalis purpurea	Foxglove	20	3	3	3	3	12
Campanula trachelium	Nettle Leaved Bellflower	20	3	3	3	3	12
Lychnis flos-cuculi	Ragged Robin	20	3	3	3	3	12
Stachys officinalis	Betony	20	3	3	3	3	12
<b>Total</b>			<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>60</b>

Species-rich grassland - Wildflowers for Pond Edges		
Mix: EP1F Wildflowers for Pond Edges		
Supplier: Emorsgate Seeds, www.wildseed.co.uk or similar approved. Exact location of seeded areas to be confirmed prior to the commencement of the works. Total area 250.5m²		
Sowing Rate: 1.5g/m²		
%	Species	Common name
1	Angelica sylvestris	Wild Angelica
2.5	Centaurea nigra	Common Knapweed
10	Filipendula ulmaria	Meadowsweet
0.5	Geum urbanum	Wood Avens
2.5	Heracleum sphondylium	Hogweed
0.5	Iris pseudacorus	Yellow Iris
12	Leucanthemum vulgare	Oxeye Daisy - (Moon Daisy)
0.5	Lycopus europaeus	Gypsywort
0.5	Lysimachia vulgaris	Yellow Loosestrife
1	Lythrum salicaria	Purple Loosestrife
12.5	Plantago lanceolata	Ribwort Plantain
17.5	Prunella vulgaris	Selfheal
0.5	Pulicaria dysenterica	Common Fleabane
17.5	Ranunculus acris	Meadow Buttercup
0.5	Rumex acetosa	Common Sorrel
17.5	Silene dioica	Red Campion
2.5	Silene flos-cuculi	Ragged Robin
0.5	Thalictrum flavum	Common Meadow-rue

Species-rich grassland - suitable for nutrient-rich areas		
Supplier: to be approved.		
Sowing Rate: 4g/m²		
%	Species	Common name
Wildflowers		
1	Achillea millefolium	Yarrow
3	Centaurea nigra	Common Knapweed
1.5	Geranium pratense	Meadow Crane's-bill
3	Leucanthemum vulgare	Oxeye Daisy - (Moon Daisy)
0.5	Lotus corniculatus	Birdsfoot Trefoil
0.5	Plantago lanceolata	Ribwort Plantain
3	Prunella vulgaris	Selfheal
0.5	Rhinanthus minor	Yellow Rattle
1.5	Hypochaeris radicata	Cat's Ear
1.5	Lathyrus pratensis	Meadow Vetchling
1	Leontodon autumnalis	Autumn Hawkbit
1.5	Ranunculus acris	Meadow Buttercup
1	Vicia cracca	Tufted Vetch
0.5	Rumex acetosa	Common Sorrel
Grasses		
8	Agrostis capillaris	Common Bent
28	Cynosurus cristatus	Crested Dog's Tail
20	Trifolium pratense	Red Clover
24	Festuca rubra	Slender-creeping Red-fescue

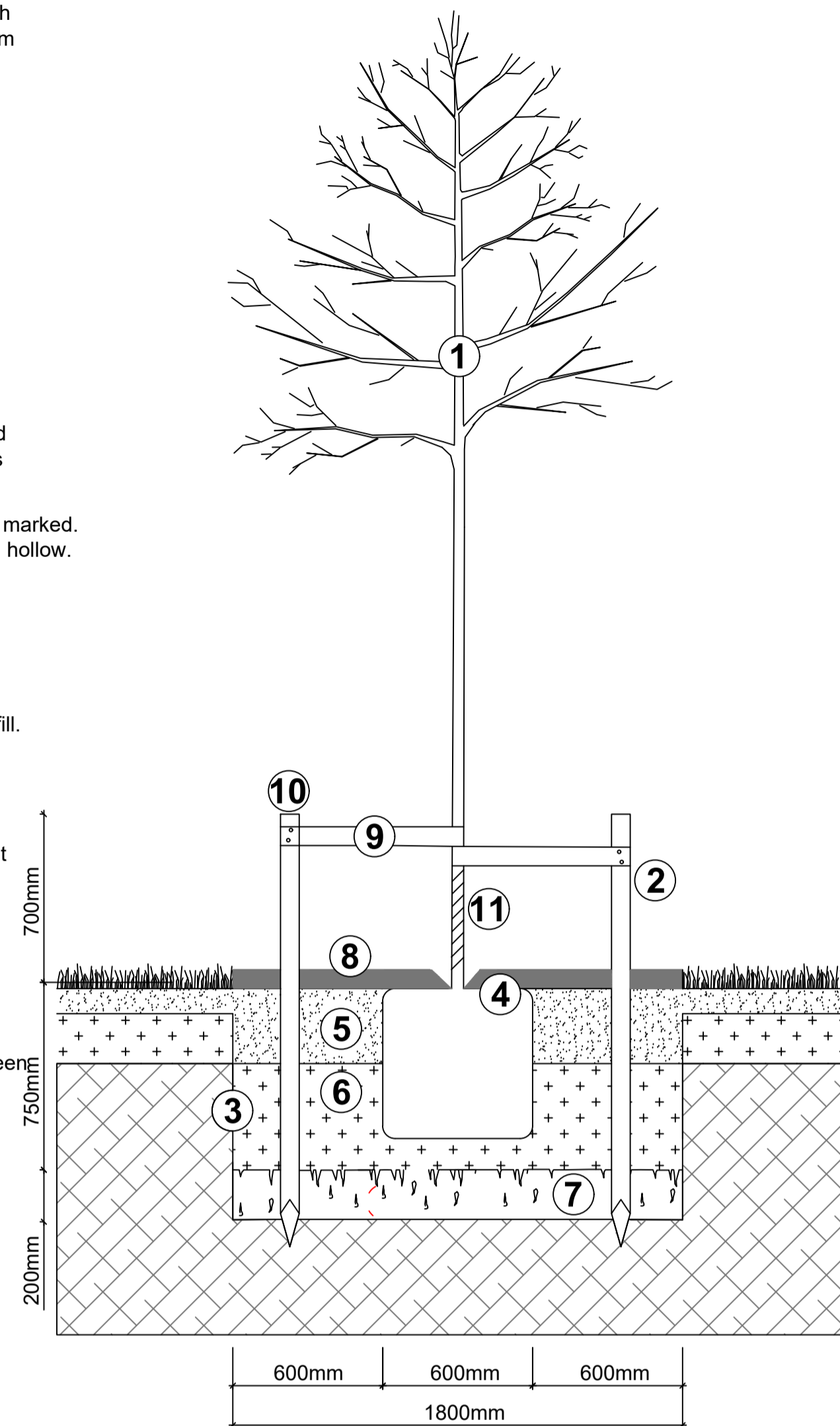
Tree Planting														
Species	Common Name	Form	Girth	Height	Root Condition				Sheet 9	Sheet 12	Sheet 13	Sheet 14	Ribble Sidings	Total
Betula pendula	Silver Birch	Heavy standard	12-14cm	3.5-4.25m	Bare root					2	1	3		6
Betula pubescens	Downy Birch	Heavy standard	12-14cm	3.5-4.25m	Bare root								3	3
Sorbus aucuparia	Rowan	Heavy standard	12-14cm	3.5-4.25m	Bare root							3		3
Alnus glutinosa	Alder	Heavy standard	12-14cm	3.5-4.25m	Bare root			8	4	5	5	5		27
Ulmus glabra	Wych Elm	Heavy standard	12-14cm	3.5-4.25m	Bare root				3	6				9
Populus tremula	Aspen	Heavy standard	12-14cm	3.5-4.25m	Bare root			6						6
Salix caprea	Goat Willow	Standard	8-10cm	2.5-3.0m	Bare root				1	4				5

Orchard Trees												
Species	Common Name	Form	Girth	Size	Root Condition	Rootstock				Sheet 3	Ribble Sidings	Total
Malus domestica 'Cox's Orange Pippin'	Apple (eating)	Standard	8-10cm	2 yr (1.75m)	BR	M25				3	3	6
Pyrus communis 'Conference'	Pear	Standard	8-10cm	2 yr (1.75m)	BR	Pyrus communis				3	3	6
Prunus domestica 'Victoria'	Plum	Light Standard	6-8cm	1yr	BR	Brompton					3	3
Prunus insititia 'Merryweather'	Damson	Half standard	6-8cm	1 yr	BR	Brompton					3	3
Prunus avium 'Stella'	Cherry	Standard	8-10cm	2.5-3.0m	BR	Gisela 6					3	3

Bulb Planting													
Planted at 30no. Bulbs per m2, random / natural layout in species groups of between 10 and 30.													
		Area (m²):		60		35		17		13		13	
Species and abbreviation	Form	Grade	Minimum circumference	Common name	Plot B3.1	Plot B3.2	Plot B3.3	Plot R1.13	Plot R1.14	Plot R1.15	Plot	Total	
Galanthus nivalis	Bulb	4/5cm	4	Snowdrop	600	350	170	150	150	150	150	1570	
Narcissus pseudonarcissus 'lobularis'	Bulb	8/10cm	7	Daffodil	600	350	170	150	150	150	1570		
Crocus tommasinianus	Bulb	5cm	topsize	Early Crocus	600	350	170	150	150	150	1570		

**Heavy standard tree pit detail**

- Heavy standard trees shall be minimum 3.0m - 3.5m high with a minimum girth of 12-14cm. The trees shall conform to BS 3936 Part 1 and shall have a well defined clear upright central stem of 175 - 200cm.
- The tree shall be supported by two stakes, each stake shall be whole sections of softwood timber to 75mm top diameter, and peeled. They shall be driven 300mm below the bottom of the pit (or as necessary to secure the tree) and positioned as near to the tree as possible without interfering with the root system. The stakes shall project 700mm above ground level (about a third of the height of the trunk).
- Tree pit detail based on a rootball or containerised tree. Pit 1000x1000x750mm deep. Sides of pit loosened with fork prior to planting. Shape of pit may vary on site depending on site conditions. Variations in gradients and variations in rootball size will require minor modifications to the tree pit as shown.
- Soil level at soil level on stem as previously grown to be marked. Plant tree at depth to match this level. Allow for watering hollow.
- Back fill in the top 300mm of the pit to be a mix of 80% topsoil (existing or to BS 3882:2015) and 20% peat free organic planting compost with a pH of 6.5-7.5.  
  
Use of 'Enmag' slow release fertiliser tablets (or similar approved) only to be used on instruction within the backfill. This would be in accordance with manufacturer's recommendations.
- Backfill with site-won subsoil.
- Break up bottom of pit to a depth of 200mm. If base of pit is wet excavate 200mm and replace with drainage layer of clean angular stone. Seek advice, and provide for additional positive drainage if required.
- 75mm thickness ornamental bark mulch shall be applied to a 500mm radius around the tree, apart from the immediate base of the root collar.
- Tree ties shall be used to centrally secure the tree between the two stakes.
- Ties to be fixed to the stakes by galvanised clout nails.
- Recycled PVC, photodegradable clear / transparent spiral guards to height of 750mm from base of tree.



C05	28.02.2022	Planning comments - Landscape	AR	AM	AM	JF
C04	20.01.2022	Planning comments	AR	JE	JE	JF
C03	04.10.2021	FOR CONSTRUCTION, PCC & Rivers Trust comments	AR	MJ	MJ	JF
C02	29.06.2021	FOR CONSTRUCTION	AR	KR	KR	MW
P01	21.05.2021	FOR EA COMMENT	AR	KR	KR	MW
Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd

**European Union**  
European Regional Development Fund

In partnership with  
Lancashire County Council  
North West Regional Flood & Coastal Committee

**Environment Agency**      **Jacobs**

Project: **Preston & South Ribble Flood Risk Management Scheme**

Drawing title: **LANDSCAPE PROPOSALS OVERALL PLANT SCHEDULES & NOTES SHEET 20 OF 21**

Drawing status: **A5 - Authorised and accepted Stage 5**      Suitability: **A5**

Scale: **1:250@ A1, 1:500 @ A3**      **DO NOT SCALE**

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