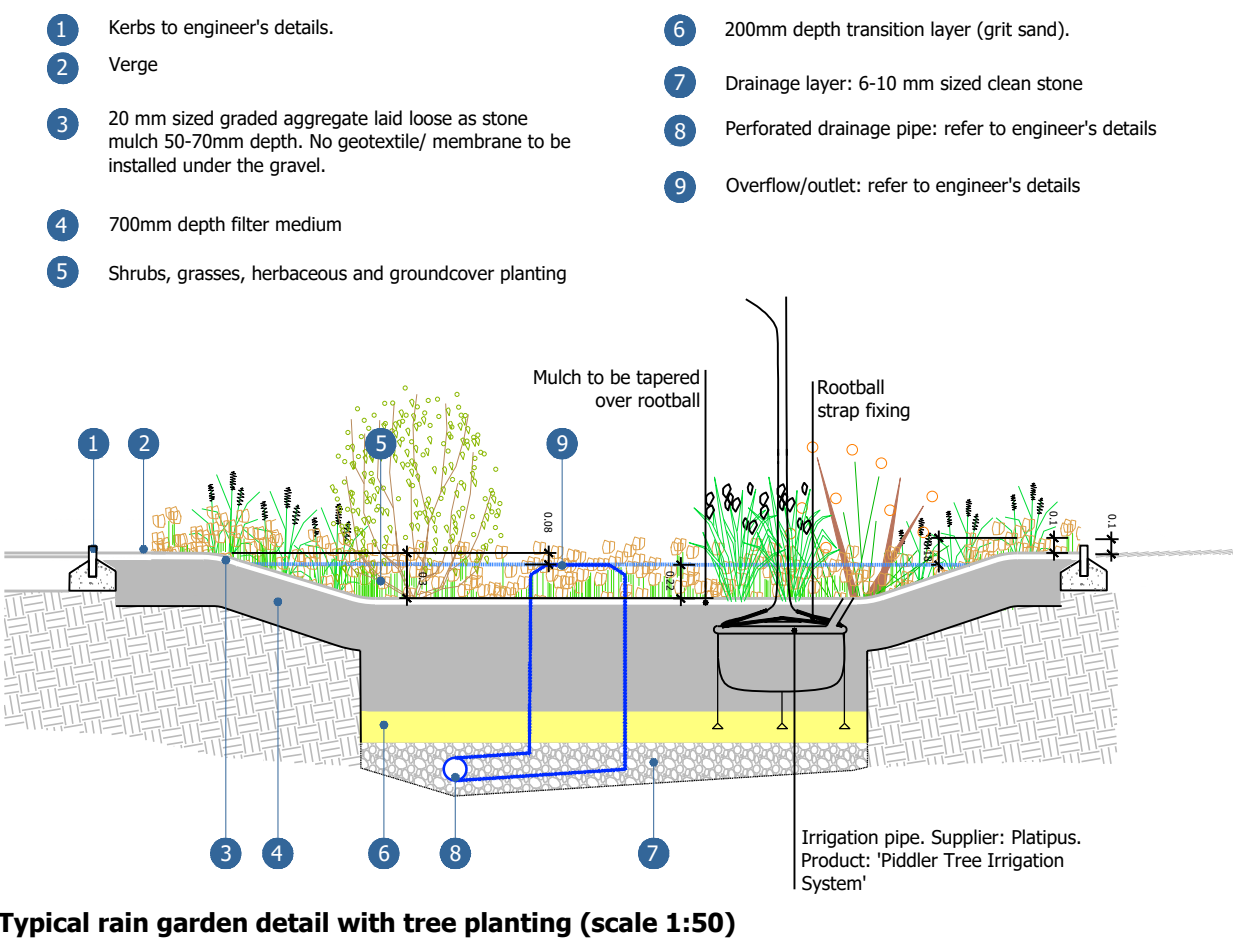
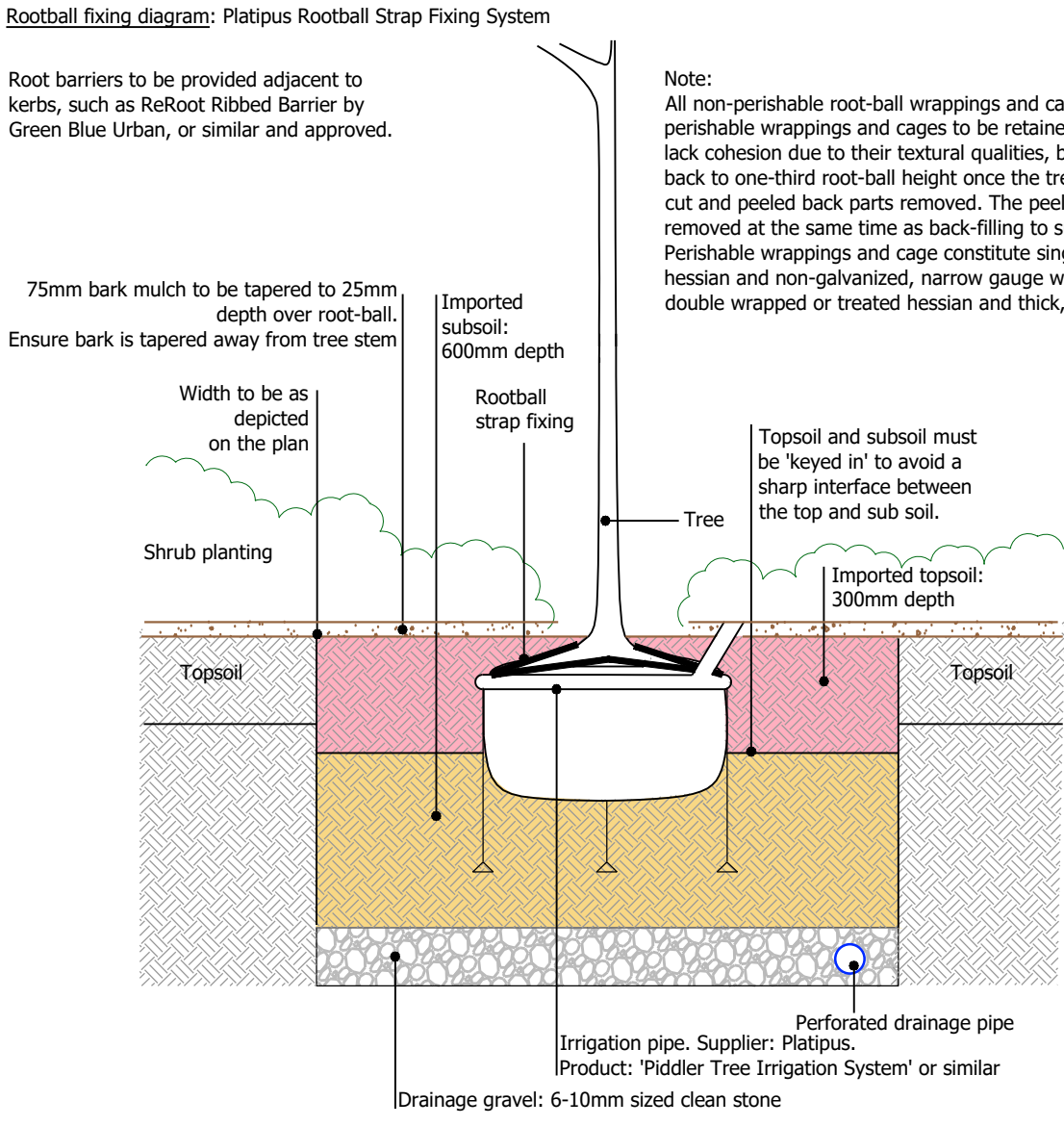




Outline growing medium conditions for rain gardens

The proposed rain garden areas would require sandy and free-draining soils to be imported.

Filter medium (4): The soil would need to comprise a manufactured product formed from a blend of an appropriately graded mineral component and a suitable organic amendment, such as Bioerion Soil by Green-tech (product code: 100073535-PRC). This product has been developed around the CEN SA20 manual guidelines for filter medium in a SA20 application, using sands and green composts.

Transition layer (6): grit sand to be used as a transition layer, 200mm depth. It shall be washed, non-calcareous, be coarse sand/ fine gravel with particles not coarser than 4.75mm.

Drainage gravel (7): the gravel shall be a washed, non-calcareous, sub-rounded to rounded gravel with nominal particle size of 6-10mm.

Outline implementation specification

Ground Preparation: Excavations to B.S. 8000 part 1:1989. Excavated material removed off-site; good quality subsoil/bedrock stored on-site for reuse.

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

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

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 depth of: 200mm for planting areas without trees 200mm for grass areas

Supply approved imported topsoil to B.S. 3882:2013 Specification for topsoil - Multipurpose topsoil to make up for any deficiency in on-site subsoil. Spread and level to depth of: 300mm for planting areas 300mm for grass areas.

Excavate planting pits to the following dimensions:

- Standard/Selected Standard Trees: 1000 x 1000 x 900mm depth
- Small-medium size Nursery/Heavy Standard Trees: 1200 x 1200 x 900mm depth
- Shrubs: 300 x 300 x 300mm depth

Backfill tree pits with 100/300mm depth subsoil and 300mm topsoil including Hekotop Topogrow peat free planting compost or similar approved at a rate of 0.12m³/m².

Backfill shrub pits with topsoil including Hekotop Topogrow peat free planting compost or similar approved at a rate of 0.10m³/m².

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.

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 Geminal A19. Initial grass cutting and edge trimming down to 50mm.

Trees:

Trees Number	Abbreviation	Species	Specification	Girth	Height	Density
2 No.	BETNI	Betula nigra	3x; Extra Heavy Standard; clear stem minimum 200mm; RB	18-20cm	450-500cm	Counted
4 No.	GledsDK	Gleditsia triacanthos 'Draves Street Keeper'	3x; Extra Heavy Standard; clear stem minimum 200mm; RB	16-18cm	400-450cm	Counted
1 No.	LIQ STY	Liquidambar styraciflua	3x; Extra Heavy Standard; clear stem minimum 200mm; RB	18-20cm	450-500cm	Counted

Planting Areas: Plant specification to be in accordance with the HTA National Plant Specification: 03/02 Tree planting to be 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 ENMA2 or similar approved at the following rates:

- Pathways: 100g / tree pit
- Standard/Selected Standard Trees: 100g / tree pit
- Small-medium size Nursery/Heavy Standard Trees: 130g / tree pit
- Shrubs: 70g / m²

Tree anchoring: Rootball fixing strap system to be provided by Patopus to secure the trees.

Supplier: Patopus. Product: Tree Anchoring with Strap. Product Code: PFA18/19 (depending on tree size). Ref: www.patopus-anchors.com/applications/tree-and-irrigation/rootball-fixing-system-strap/

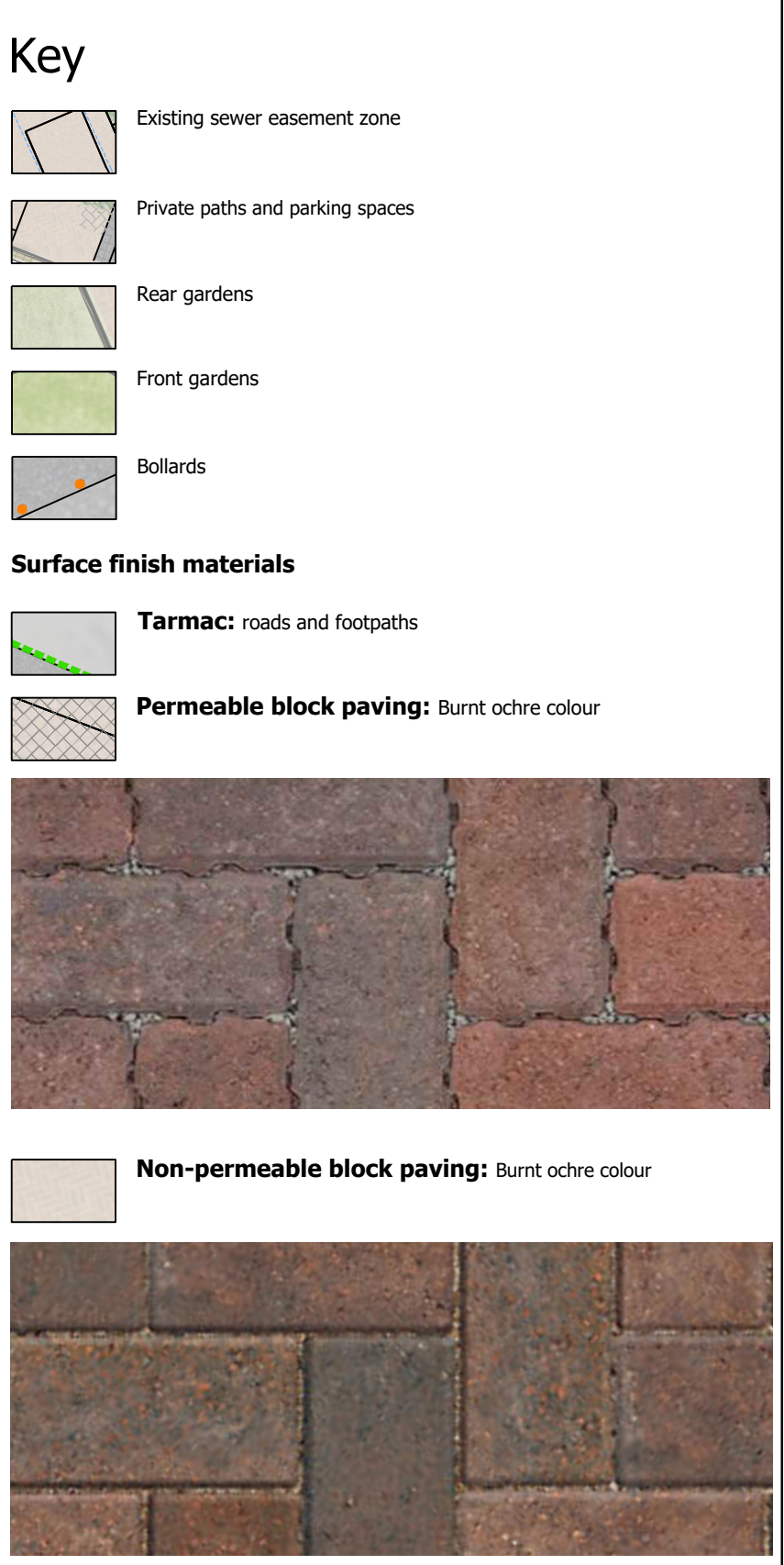
Root barriers: Root barriers shall be installed (Goverbur Urban Rootball 2000 or similar and approved). At a suitable depth to protect buried services. It shall be installed approximately 250mm parallel to the buried services within 3m of the proposed trees. Proposed trees to be offset at a minimum of 1m from the position of the root barrier.

Bark mulch: Provide and spread evenly over all planting areas an organic graded bark flakes or similar approved bark mulch to a depth of 50mm over shrub areas, and 75mm over trees.

Watering: Watering of planting beds shall ensure that the full depth of topsoil is wet, without causing damage to plants. Any compacted soil shall be loosened or scooped out, to direct water to the rootzone. Frequency of watering shall be as necessary for the continued thriving of all plants.

Maintenance: All landscape areas to be maintained in accordance with B.S. 7370 Part 3:1993 and Part 4:1993, including weed control, and adjustment to tree stakes and ties.

General Notes: Substitutions, if made, should be similar in size, form and water demand. Plants shall be arranged to avoid straight and geometric patterns.



- Soft landscape**
- Large shrubs / small trees:** such as Amelanchier grandiflora 'Robin Hill' - a shrub / small tree with bronze-tinged young leaves turning orange and red in autumn, and Sambucus nigra 'Black Lace' to be positioned within the rain garden.
 - Small sized tree:** Betula nigra. The tree grows to approximately 15m, with peeling bark, at first reddish-brown, later almost black; glossy dark green leaves turn yellow in autumn.
 - Medium sized tree:** Liquidambar styraciflua - positioned as a focal point tree within the courtyard and to provide interest when entering the courtyard from the north from Clarence Street. The tree grows to 20m tall, is broadly conical in outline, with leaves which turn to shades of orange, crimson and purple in autumn.
 - Medium sized tree:** Gleditsia triacanthos 'Draves Street Keeper' - a narrow pyramidal crown which grows up to about 13m. A tough tree that can tolerate urban conditions.
 - Evergreen specimen shrub:** Garrya elliptica - to provide structure and interest within the space all year, which can reach up to 4m high. (See drawing TTE-00-00-DR-L-101 for planting schedule details)
- Planting areas**
- Shrub planting:** species selected to provide texture, colour and visual interest throughout the year
 - Attenuation basin and swales:** designed with 1:3 gradient slopes. The basin/pond will be planted appropriately with species that will thrive in both damp and dry conditions.
 - Climbing plants**
 - Grass to be seeded with grass seed mix:** Area of grassland to be seeded with Emorsgate Seeds EM2 - Standard Purpose Meadow Mixture. (See drawing TTE-00-00-DR-L-101 for planting schedule details)
 - Tree root barrier**
 - Communal Garden:** Plants and hedges to be maintained at 1.1m high to maintain visibility throughout the site
- Landscape furniture**
- Bollards:** Glenwood 150 Posts, Everwood Material, width 150m x 850mm height above ground. Supplied by Glasdon UK or similar approved.

*** Note:** **Communal Garden:** Design and installation of street furniture to be carried out by specialists.

FOR APPROVAL

P07	Updated to match revised P12 drainage layout by Cambria	15.04.2025	DC	HP	SS				
P08	Updated landscape layout to match updated site layout	16.02.2025	DC	SS	MP				
P09	Updated landscape layout to match updated site layout	16.02.2025	DC	DV	MP				
P10	PRELIMINARY FIRST ISSUE	11.03.2021	DC	LB	LB				
Rev									

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Client: LCB GROUP

Project Name: CONSTABLES CLOSE, NEWPORT

Sheet Title: LANDSCAPE STRATEGY

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale	W AD	Suitability
807098	DC	Mar '21	LB	Mar '21	LB	Mar '21	1:200	W AD	S3
Client Project Number	Designer	Architect/Engineer	Landscape Architect	Topographer	Builder	Contractor	Planner		
- TTE - 00 - 00 - DR - L - 0100									P07