

## Elemental Hard Landscape Specification

### Brent Riverside Park, Brent Cross Cricklewood

Document reference 1065-03-SP-04

Issued for and on behalf of

**Brent Cross Cricklewood Development Partners**

Revision	Description	Issued By	Date
-	Phase 1 BN RMA Submission	RH	29.03.17
A	Issued for RMA	IM	19.04.17



## Brent Riverside Park, Brent Cross Cricklewood

---

The following Specification is based on the latest revision of the following Landscape Drawings, Documents and Specifications for Brent River Park.

**1065-03-031 - 041**            Brent River Park General Arrangement Plans  
**1065-03-501 - 509**            Brent River Park Sections  
**1065-03-400 series**           Brent River Park Details

Phase 1BN RMA Design Development Report Section 4.0 & Phase 1AN RMA Central Brent Riverside Park DDR

For soiling and planting details, refer to the latest revisions of:

**1065-03-SP-07**                Brent River Park Base Landscape Specification  
**1065-03-SP-08**                Brent River Park Soft Landscape Specification  
**1065-03-200 series**           Brent River Park Planting Plans

For Architectural details, refer to Chapman Taylor and CRTKL's drawings

For Structural, Drainage and hydrological details, refer to Waterman's and AECOM's drawings

External Lighting to be detailed and specified at a later stage by Lighting Consultant

<b>Section 1.0</b>	Groundworks
<b>Section 2.0</b>	Walls
<b>Section 3.0</b>	Stairs and Ramps
<b>Section 4.0</b>	Edges
<b>Section 5.0</b>	Surface Finishes
<b>Section 6.0</b>	Furniture
<b>Section 7.0</b>	Fencing/Balustrade
<b>Section 8.0</b>	Irrigation
<b>Section 9.0</b>	Ecological Enhancements
<b>Section 10.0</b>	Play Equipment

External Lighting to be detailed and specified at a later stage by Lighting Consultant

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
<b>1.0 Groundworks</b>						
1.1	Land drains to soft landscape areas	Connections to surface water drainage system to Civil Engineers Specification	Land drainage pipes 75mm diameter		BS 4962:1989 Specification for plastics pipes and fittings for use as subsoil field drains	R12 Below ground drainage systems / R13 Land drainage  Extent of drainage to be determined at post detailed planning consent
1.2	Drainage to tree pits	Connections to surface water drainage system to Civil Engineers Specification	Land drainage pipes 75mm diameter positively connecting tree pit to drainage surface water system		BS 4962:1989 Specification for plastics pipes and fittings for use as subsoil field drains	R12 Below ground drainage systems / R13 Land drainage  Extent of drainage to be determined at post detailed planning consent
<b>2.0 Walls</b>						
2.1	Type 1 – Concrete River Retaining walls to the edge of river corridor	Foundation, drawing and specification to Structural Engineers detail.	Exposed sections of concrete walls to have a vertical smooth finish.	Smooth		
2.2	Type 2 - Concrete walls to bridge abutments	Foundation, drawing and specification to Structural Engineers detail.	Exposed sections of concrete walls to the river corridor to be cast with a RECKLI® finish.	Textured		
2.3	Type 3 Concrete walls to threshold spaces	Foundation, drawing and specification to Structural Engineers detail.	In sections the standard RECKLI finish will be enhanced using RECKLI® Photo-Engraving Formliners or similar equal and approved method. To create photo-imagery at the key threshold spaces	RECKLI® Photo-Engraving Formliners		

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
2.4	Type 4 – 1in5 flood defence concrete walls	Foundation, drawing and specification to Structural Engineers detail.	<p>Where necessary the 1:5 year floodwall will retain the 6m wide access path along the northern length of the riverbank. In sections the wall will be exposed.</p> <p>In these locations the wall will have a combination of vertical smooth and sand blasted finish to make a 'reed' like pattern Edges to have a rounded 20mm finish.</p>	Smooth / textured		
2.5	Type 5 – Low concrete wall to north of EA route	Foundation, drawing and specification to Structural Engineers detail.	<p>This low wall will be used as the base of the long seating elements within the river corridor.</p> <p>It will have a vertical smooth and sand blasted finish to make a 'reed' like pattern Edges to have a rounded 20mm finish.</p>	Smooth / textured		
<b>3.0 Stairs and Ramps</b>						
3.1	Steps and cycle ramp links from the river corridor	Foundation, drawing and specification to Structural Engineers detail.	<p>Steps to be formed with pre cast concrete conservation units.</p> <p>With inlaid contrasting bands on the riser and treads.</p> <p>Cycle ramps to be formed with pre cast concrete conservation units, without the contrasting bands.</p>	Textured Conservation Silver Grey unit with black contrasting bands	Part M Building Regulations BS 7533-3:2005 +A1:2009 Pavements constructed with clay, natural stone or concrete pavers	L37 External stair, ramp, handrail and balustrade systems  Refer to drawing: 1065-03-457

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
3.2	Seating steps  To North and South Terraces	Foundation, drawing and specification to Structural Engineers detail.	Pre cast concrete single solid step units 350mm width x 150mm depth to the main stepped route with inlaid contrasting bands on the riser and treads. Bull nosing to the front edges.  Pre-cast concrete seating step units 900mm width x 450mm depth x 1000mm lengths to the stepped seating edges with bull nosing to the front edges.	Micro etched finish, silvery grey with black contrasting bands	Part M Building Regulations  BS 7533-3:2005 +A1:2009 Pavements constructed with clay, natural stone or concrete pavers	L37 External stair, ramp, handrail and balustrade systems  Refer to drawings: 1065-03-461 & 1065-03-462
3.3	Handrail  To all steps in Brent Riverside Park	Foundation, drawing and specification to Structural Engineers detail.	Single height stainless steel handrail  Posts to be root fixed with steps/paving units to be core drilled to receive posts and epoxy resin fixed to hide junction with paving  Handrail to be fixed to posts with 'Qrail' stainless steel adjustable 'thread tube' brackets or similar approved	External grade stainless steel  Satin polished finish	Part M Building Regulations  BS 7533-3:2005 +A1:2009 Pavements constructed with clay, natural stone or concrete pavers	L37 External stair, ramp, handrail and balustrade systems  Refer to drawings: 1065-03-461, 1065-03-462 & 1065-03-459
<b>4.0 Edges</b>						
4.1	Pin Kerb  To Riverside path edge	Haunch and foundation to Civil Engineers detail and specification	50mm x 150mm concrete pin kerb. Top of edging to be flush with surrounding surface  Standard pre-cast concrete unit	Colour: As Cast  50mm w x 150mm  Corner units to be used for all 90° corners	BS EN 1340:2003 Concrete kerb units	Q10 Stone / concrete / brick kerbs / edgings / channels  Refer to drawing: 1065-03-444

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
<b>5.0 Surface Finishes</b>						
5.1	Coloured Asphalt paths	Sub-base and macadam layers to Civil Engineers Specification.		Colour: Buff	BS EN 13108-4 Hot rolled asphalt	Q22 Asphalt Paving  Refer to drawing: 1065-03-444
5.2	Crushed Limestone Gravel.	Consolidated crushed stone and geotextile membrane to Civil Engineers Specification	6mm to dust crushed and compacted limestone surface with galvanised metal edging	Colour: Buff		Refer to drawing: 1065-03-445  Material Samples to be provided for approval.
5.3	Reinforced Planting Area	Sub-base to Civil Engineers Specification.	BODPAVE® 85 Grass paver or similar approved. 500x500x50mm unit Backfilled with growing medium	Colour: Black		Refer to drawing: 1065-03-443
5.4	Tactile paving  Corduroy paving To top and bottom of steps	Sub-base and bedding to Civil Engineers detail and Specification	Concrete where used adjacent to concrete paving  400mm x 400mm units	Grey/Buff tone  Colour of tactile paving to visually contrast with adjacent surface finish	BS EN 1339:2003 Concrete paving flags  DD CEN/TS 15209:2008 Tactile paving surface indicators produced from concrete, clay and stone	Q25 Slab/Brick/Sett/Cobble pavings
<b>6.0 Furniture</b>						
6.1	Seat/Bench Type 1  Along riverside park walkway	Foundation to Engineers detail and specification Recessed bolt fixings	Product: Rough and Ready 6 Topseat Bench or equal and approved Supplier: Streetlife or equal and approved  Seat top to be tropical hardwood slats fixed to low concrete wall. Low concrete wall specified above in section 2 Wall Type 5.	Material: Galvanised Steel supports, Hardwood timber top. Finish: As supplied Colour: As supplied All timber to be sawn and planed.	BS EN 350:2016 Durability of wood and wood-based products  BS ISO 10474:2013 Steel and steel products	Q50 Site/Street furniture/equipment  All tropical hardwood to be FSC certified with a full chain of custody.  To be detailed by a specialist manufacturer  Refer to drawing: 1065-03-446

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
6.2	Seat/Bench Type 2  Along riverside park walkway	Foundation to Engineers detail and specification Recessed bolt fixings	Product: Rough and Ready 6 Bench or equal and approved Low backrest, high backrest, armrests Supplier: Streetlife or equal and approved  Seat top to be tropical hardwood slats fixed to low concrete wall. Low concrete wall specified above in section 2 Wall Type 5.	Material: Galvanised Steel supports, Hardwood timber top. Finish: As supplied Colour: As supplied All timber to be sawn and planed.	BS EN 350:2016 Durability of wood and wood-based products  BS ISO 10474:2013 Steel and steel products	Q50 Site/Street furniture/equipment  All tropical hardwood to be FSC certified with a full chain of custody.  To be detailed by a specialist manufacturer  Refer to drawing: 1065-03-447
6.3	Seat/Bench Type 3  To Threshold spaces within Brent Riverside Park	In situ concrete foundation to manufacturer's detail. Recessed bolt fixings	Product: Rough and Ready 6 Bench or equal and approved Supplier: Streetlife or equal and approved Seat top to be tropical hardwood  Freestanding fame fixed to concrete foundation using recessed bolt fixings.	Material: Galvanised Steel supports, Hardwood timber top. Finish: As supplied Colour: As supplied All timber to be sawn and planed.	BS EN 350:2016 Durability of wood and wood-based products  BS ISO 10474:2013 Steel and steel products	Q50 Site/Street furniture/equipment  All tropical hardwood to be FSC certified with a full chain of custody.  To be detailed by a specialist manufacturer  Refer to drawing: 1065-03-448
6.5	Seat/Bench Type 4  To Threshold spaces within Brent Riverside Park	In situ concrete foundation to manufacturer's detail. Recessed bolt fixings	Product: Rough and Ready 6 Bench or equal and approved Low backrest, high backrest, armrests  Supplier: Streetlife or equal and approved Seat top to be tropical hardwood  Freestanding fame fixed to concrete foundation using recessed bolt fixings.	Material: Galvanised Steel supports, Hardwood timber top. Finish: As supplied Colour: As supplied All timber to be sawn and planed.	BS EN 350:2016 Durability of wood and wood-based products  BS ISO 10474:2013 Steel and steel products	Q50 Site/Street furniture/equipment  All tropical hardwood to be FSC certified with a full chain of custody.  To be detailed by a specialist manufacturer All tropical hardwood to be FSC certified with a full chain of custody.  Refer to drawing: 1065-03-449



**Brent Riverside Park, Brent Cross Cricklewood**

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
6.6	Seat/Bench Type 5  To Reach 3 informal play area	In situ concrete foundation to manufacturer's detail. Recessed bolt fixings	Product: Rough and Ready Curve D300 Bench or equal and approved Supplier: Streetlife or equal and approved Seat top to be tropical hardwood  Freestanding frame fixed to concrete foundation using recessed bolt fixings.	Material: Galvanised Steel supports, Hardwood timber top. Finish: As supplied Colour: As supplied All timber to be sawn and planed.	BS EN 350:2016 Durability of wood and wood-based products  BS ISO 10474:2013 Steel and steel products	Q50 Site/Street furniture/equipment  All tropical hardwood to be FSC certified with a full chain of custody.  To be detailed by a specialist manufacturer All tropical hardwood to be FSC certified with a full chain of custody.  Refer to drawing: 1065-03-450
6.7	Planter Seat  To Reach 3 informal play area	Foundation to Engineer's detail and specification	Cast stone raised planter with tropical hardwood timber seating affixed to a galvanised steel frame  Base of cast stone planter to extend 50mm below finished floor surface to hide junction	Cast stone colour TBC with a smooth acid etched waterproofed finish  Tropical hardwood seating top integrated into planter edge using anti-theft steel comb system  All timber to be planed smooth with pencil rounded edges	BS EN 350:2016 Durability of wood and wood-based products  BS ISO 10474:2013 Steel and steel products	Q50 Site/Street furniture/equipment  All tropical hardwood to be FSC certified with a full chain of custody.  To be detailed by a specialist manufacturer All tropical hardwood to be FSC certified with a full chain of custody.  Refer to drawing: 1065-03-451
6.8	Cube seat  Adjacent to North Terrace steps	Foundation to Engineer's detail and specification	Cast stone cube seat, 600mm width x 425mm height  Base of cast stone seat to extend 25mm below adjacent finished surface level to hide junction	Cast stone seat with a smooth acid etched finish to all exposed faces with a waterproofed finish.  Colour : white		Q50 Site/Street furniture/equipment  Refer to drawing: 1065-03-461

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
6.9	Litter Bin	Foundation to Engineer's detail and specification	Broxap's Bespoke Litterbin Dimensions: 740mm high x 368mm diameter Complete with 50ltr Aluminium Liner Drainage holes to be drilled in the bins (not liners) Front Door Opening Aperture Shape: Rectangular Logo: Vinyl Litter Logo. Positioned under aperture	Finish: Powder Galv Prime, Polyester Powder Coated Colour: RAL 9007		Q50 Site/Street furniture/equipment
6.10	Cycle Stands	Insitu Concrete foundation	Stainless Steel Sheffield Stands Root fixed. Galvanised steel plate for cycle racks at ends of runs. Colour band to cycle stands situated at the ends of runs Supplier:	Brushed Stainless Steel Colour band to cycle stands situated at the ends of runs.		Q50 Site/Street furniture/equipment  BROXAP or equal and approved. Ref: BXMW/GS0  Refer to drawing: 1065—03-455
6.11	Retractable Bollards	Foundation to Engineer's detail and specification	Height: 1100mm Material: Stainless steel			Q50 Site/Street furniture/equipment  Refer to drawing: 1065-03-453
6.12	Tree Grilles  To trees within asphalt	Foundation to Engineer's detail and specification	Streetlife tree grille 'Corten Round' or similar approved	Corten weathered steel		Q50 Site/Street Furniture/equipment  Refer to Detail: 1065-03-442

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
<b>7.0</b>	<b>Fencing/Balustrade</b>					
7.1	Balustrade Type 1: to Plot 114	Root fixed foundations to Structural Engineer's Specification	Galvanised steel with handrail top 1.1 m height. Design in accordance with BS6399 to engineers detail All exposed edges to be free of sharp arises.	Micaceous iron oxide paint mid grey, minimum 3 sprayed coats	Part K Building Regulations  BS6399 type C5	L37 External stair, ramp, handrail and balustrade systems  Refer to drawing: 1065-03-456
7.2	Balustrade Type 2: To EA access ramps	Root fixed foundations to Structural Engineer's Specification	Galvanised steel 1.1 m height. Design in accordance with BS6399 to engineers detail All exposed edges to be free of sharp arises.	Micaceous iron oxide paint mid grey, minimum 3 sprayed coats	Part K Building Regulations  BS6399 type C5	L37 External stair, ramp, handrail and balustrade systems  Refer to drawing: 1065-03-456
7.3	Balustrade Type 3: To 1in5 wall  Option 1 – steel wire	Root fixed foundations to Structural Engineer's Specification	Galvanised steel frame with strained braided wire. To reach overall 1.1 m height where needed Design in accordance with BS6399 to engineers detail All exposed edges to be free of sharp arises.	Micaceous iron oxide paint mid grey, minimum 3 sprayed coats	Part K Building Regulations  BS6399 type C5	L37 External stair, ramp, handrail and balustrade systems  Refer to drawing: 1065-03-456
7.4	Balustrade Type 3: To 1in5 wall  Option 2 – posts	Root fixed foundations to Structural Engineer's Specification	Galvanised steel Ø30mm posts To reach overall 1.1 m height where needed Design in accordance with BS6399 to engineers detail All exposed edges to be free of sharp arises.	Micaceous iron oxide paint mid grey, minimum 3 sprayed coats	Part K Building Regulations  BS6399 type C5	L37 External stair, ramp, handrail and balustrade systems  Refer to drawing: 1065-03-456

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
7.5	Gate  To EA maintenance access ramp	All foundations and fixings to Engineer's detail and specification	Galvanised steel rectangular hollow section posts 1000mm x 132mm x 60mm  Galvanised steel gate panel 3232mm x 1025mm x 60mm  Fixings to be core bored and fixed with an epoxy resin to engineer's detail	Micaceous iron oxide paint mid grey, minimum 3 sprayed coats	Part K Building Regulations  BS EN ISO 1461 Hot dip galvanised coatings on fabricated iron and steel articles  BS6399 type C5	Q40 Fencing  Refer to drawing: 1065-03-457
<b>8.0 Irrigation</b>						
8.1	Manual Irrigation points	Break tank to M&E Engineer's specification.	MDHPE pipe works, Manual irrigation points, Rainbird quick coupling connector  Located at 25m radii distances (2 points no more than 50m apart).		BS 7562-5:1993 Planning, design and installation of irrigation schemes	S14 irrigation  Irrigation design to specialist irrigation subconsultant's detail and specification
<b>9.0 Ecological Enhancements</b>						
9.1	Type 1 - Bird Boxes	To manufacturer's guidance.	Schwegler 1SP Sparrow Terraces' Nest Boxes' should be erected c.4-6m above ground level on each bridge structures.			Type 1 and Type 2 boxes to be erected in pairs, per bridge.
9.2	Type 2 - Bird Boxes	To manufacturer's guidance.	'Schwegler 3S Starling Nest Boxes' should be erected c.4-6m above ground level on each bridge structures.			Type 1 and Type 2 boxes to be erected in pairs, per bridge.
9.3	Type 3 - Bird Boxes/Tubes	To manufacturer's guidance.	Provision will be made along the proposed vertical walls in the river corridor, for nesting opportunities for kingfisher Alcedo atthis and sand martin Riparia riparia. 'Schwegler Kingfisher and Sand Martin Nest Tunnels' can be included in the bridge or vertical wall designs to house these species. Sand martins nest in small colonies, so a number of holes can be provided (up to 20).			Final location to be confirmed by Ecologist and detailed design stage.

## Brent Riverside Park, Brent Cross Cricklewood

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
9.4	Type 4 – Common Bird boxes	To manufacturer’s guidance.	‘1B Schwegler Nest Boxes’ should be included on the Site.			Final location to be confirmed by Ecologist and detailed design stage.
9.5	Type 5 – Brick Nest box type 24	To manufacturer’s guidance.	‘Sshwegler Brick Nest Box Type 24’ to be attached or embedded within concrete walls facing between north and east			Final location to be confirmed by Ecologist and detailed design stage.
9.6	Bat boxes	To manufacturers guidance.	‘Schwegler 1FFH Bat Box’ , ‘Shwegler 1FR Bat Tube’ and ‘Schwegler Bat Roost 1FQ’ should be erected. These will be placed in south-west to south-east aspects, at a height of 4m or greater upon bridges 3 and 6 (one of each type on each bridge), adjacent to the river corridor and away from direct lighting on the far bridge wall (on the far bank without public access), as high as possible to avoid flooding and vandalism but still on the main back wall.			Final location to be confirmed by Ecologist and detailed design stage.
9.7	Log piles		Any dead wood from tree work on the Site (unless diseased) should be used to create small log piles to provide habitat for invertebrates within the newly created shrub and tree planting. These and specially built ‘bug homes’ can also be included in areas where there is no public access, ideally adjacent to wildflower habitats.			Final location to be confirmed by Ecologist and detailed design stage.

**Brent Riverside Park, Brent Cross Cricklewood**

REF	ITEM	SUBSTRATE	DESCRIPTION	APPEARANCE/FINISH	PERFORMANCE CRITERIA	NOTES
9.8	Insect Hotel					Final location to be confirmed by Ecologist and detailed design stage.
9.9	Kingfisher Perch		Solid timber posts near to nest tunnel entrances in Reach 1 at river edge amongst marginal planting			Final location to be confirmed by Ecologist and detailed design stage.
9.10	Timber Fenders  To river walls in reach 3		To be attached to river walls, below the water.			Final location to be confirmed by Ecologist and detailed design stage.
<b>10.0 Play Equipment</b>						
	Natural timber logs  To reach 3 informal play areas					Ashwells 'Tree trunks' Or similar approved  Wick Place Farm, Brentwood Road Bulphan, Upminster Essex, RM14 3TL  01375 892 576