

CLOBURRIS CANAL EXTENSION

Outline Landscape Specification
March 2022

8008-LDA-XX-XX-SP-L-0001

LDĀ DESIGN

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Outline specification to be read in conjunction with LDA drawings:
8008-LDA-XX-ZZ-DR-L-1000

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This document has been prepared and checked
in accordance with ISO 9001:2015

1.0 HARD LANDSCAPE

the hard landscape elements associated with the carriageway and residential footways are covered by the Engineer's specification



Indicates materials that are either recycled, reclaimed and/or contribute to recycling on site.



Indicates materials that promote active water management on site through water infiltration/sustainable drainage.

1.1 Paving, kerbs and edges

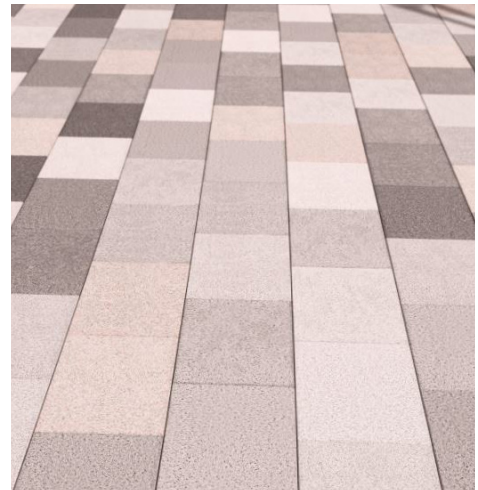
1.1.1 Paving to homezone and parking bays

- * Hydropave Tegula 240
- * Manufacturer: Tobermore or equal and approved
Telephone: 048 7964 2411
Email: sales@tobermore.co.uk
- * Finish: Hydropave
- * Colour: TBC
- * Laying pattern: Stretcher bond
- * Dimensions: 240x120x80mm
- * Construction make-up: Refer to engineers specification.



1.1.2 Path to private gardens

- * Braemar
- * Manufacturer: Tobermore or equal and approved
Telephone: 048 7964 2411
Email: sales@tobermore.co.uk
- * Finish: Ground (TBC)
- * Colour: Alto Silver, Innis Black, Arran Stone, Jura Grey (mix TBC)
- * Laying pattern: Stretcher bond
- * Dimensions: 200x100x 80 mm and 300x200x80mm
- * Construction make-up: Sand jointing, joint width of between 2-5mm



1.1.3 Communal areas

- * Braemar
- * Manufacturer: Tobermore or equal and approved
Telephone: 048 7964 2411
Email: sales@tobermore.co.uk
- * Finish: Ground (TBC)
- * Colour: Alto Silver, Innis Black, Arran Stone, Jura Grey (mix TBC)
- * Laying pattern: Stretcher bond
- * Dimensions: 600 x 300x80mm
- * Construction make-up: Sand jointing, joint width of between 2-5mm



1.1.4 Paths within Public Open Space

- * Hot rolled asphalt with addition of white stone chippings as per Engineers' specification.
- * Pedestrian



1.1.5 Pin Kerb

- 50mm wide precast concrete flat top pin kerb laid flush to define differing surface treatments



1.1.6 Wooden Edge

- 25mm wide wooden edge laid flush to define self binding gravel



1.1.8 Engineered woodchip play surface

- Engineered woodchip (EWF) has excellent impact absorption and is a more sustainable material than wetpour, so will form the majority of the playsurface finishes.
- Woodchip areas to be enclosed by mounding (rather than with boards or other edge methods which may cause trip hazards).
- Depth: 75-100mm depending on location.



1.1.9 Self binding gravel (P10)

- * Self Binding Gravel to Paths within Public Open Space
- * Surface course: Angular gravel, free from clay, with sufficient grit to enable compaction.
- * Supplier: Mainland Aggregates Ltd or equal and approved
Telephone: 01234 831 108
Email: info@mainlandaggregates.co.uk
- * Product reference: Old English self binding gravel
- * Colour: Tbc
- * Size: 6mm down to dust.
- * Compacted thickness: Thickness after at least 10% settlement and 30 days: 50mm.
- * Completion: Compact to produce a firm, regular surface, stable in use.



1.1.10 PCC tactile paving (P9)

- * PCC blister tactile paving to pedestrian crossings
- * Nominal sizes: 400 x 400 x 80 mm depth.
- * Colour: Natural



1.1.11 Tarmac carriageway

Hot rolled asphalt - to road carriageway

- * To engineers specification.



1.1.11 Paving to roundabout

- * Deterrent clay pavers
- * Supplier: e.g. Ketley Brick
Telephone: 01384 78361
Email: www.ketley-brick.co.uk
- * Product: Clay
- * Size: 200 x 100mm and 50 and 90mm height
- * Colour: Blue



2.0

FURNITURE & PLAY

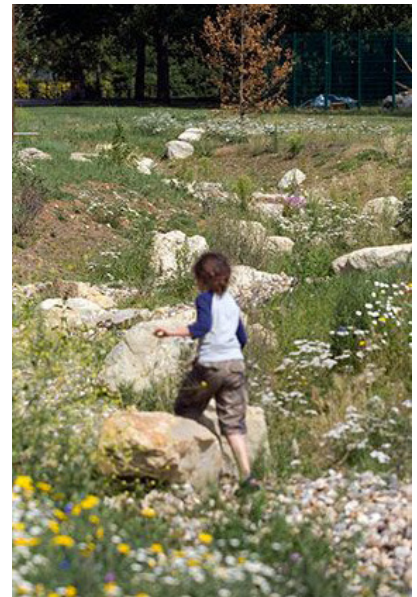


Indicates materials that are either recycled, reclaimed and/or contribute to recycling on site.



Indicates materials that promote active water management on site through water infiltration/sustainable drainage.

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2.1 Street furniture

2.1.1 Bench

- * OMOS S59.2 Seat
 - * Supplier: OMOS
 - Units 1-3
 - Military Road Industrial Park
 - Naas, Co. Kildare W91 TX28
 - Telephone: +353 (0) 145 899802
 - * Dimensions: 1860x629x819mm
 - * Material: powder coated mild steel with micro porous stain treated hardwood timber laths
 - * Construction: ground fixing using bolts
-



2.1.2 Chair

- * OMOS S59.2 Chair
 - * Supplier: OMOS
 - Units 1-3
 - Military Road Industrial Park
 - Naas, Co. Kildare W91 TX28
 - Telephone: +353 (0) 145 899802
 - * Dimensions: 635x629x819mm
 - * Material: powder coated mild steel with micro porous stain treated hardwood timber laths
 - * Construction: ground fixing using bolts
-



2.1.3 Litter Bin

Litter bin to public realm areas

- * Supplier: Castit Ltd
 - Unit 612 Northern Extension, IDA Business Park
 - Waterford, Ireland
 - Telephone: +353 51 370 393
- * Product: ECO Steel Litter Bin
- * Dimensions: 1000x535x535mm (120 litre)
- * Material: Zintec steel
- * Colour: black (or other RAL as agreed)
- * Construction: refer to drawing 7938-LDA-XX-ZZ-DR-L-5001



2.1.3 Cycle Stand

- * Visitor cycle stand to public areas
- * Finish: Stainless Steel
- * Dimensions: 750 mm (width)x 800 mm (high)
- * Fixing: Root Fixed



2.1.4 Bollards

- * Supplier: Castit Ltd
Unit 612 Northern Extension, IDA Business Park
Waterford, Ireland
Telephone: +353 51 370 393
- * Product: Flat top steel bollard
- * Material: galvanised steel
- * Dimensions: 120mm overall height. 114mm diameter
- * Finish: fine satin finish
- * Accessories: reflective band
- * Fixing: root fixed into concrete



2.2 Play equipment

2.2.1 Slide

- * Double width slide to landscape slope
- * Product: TBC
- * Finish/Colour: TBC
- * Anchoring: Root fixed to concrete foundation



2.2.2 Totter Beam

- * Totter Beam to play areas
- * Manufacturer: Timberplay or equal and approved
- * Product: Totter Beam 6.05000
- * Finish/Colour: Core free timber with hot dip galvaised steel springs
- * Dimensions: 3000x300x450mm
- * Anchoring: Ground anchored



2.2.3 Wobble dish

- * Wobble dish to play areas
- * Manufacturer: Timberplay or equal and approved
- * Product: Wobble dish 6.27300
- * Finish/Colour: Core free timber and stainless steel dish
- * Dimensions: 1100mm diameter x 750mm height
- * Anchoring: Pre fabricated concrete foundation



2.2.4 Singing stones

- * Singing stones to play areas
- * Manufacturer: Timberplay or equal and approved
- * Product: Large singing stone 10.42020
- * Finish/Colour: Basalt column stone
- * Dimensions: 2000-2500mm height
- * Anchoring: Root fixed to concrete foundation



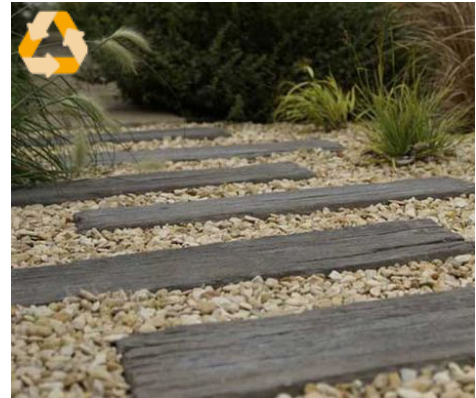
2.2.5 Climbing frame

- * Bespoke Climbing frame to play area
- * Manufacturer: Timberplay or equal and approved
- * Product: Climbing frame -Bespoke
- * Finish/Colour: Robinia timber
- * Dimensions: 14000mm length x 4000mm
- * Anchoring: Set in ground with concrete foundation



2.2.6 Timber sleeper steps

- * Timber sleeper steps
- * Sizes: Various
- * Colours: Natural
- * Specials: Planed top and splinter free
- * Fixing: Core on underside and held in place by steel rod driven into ground.



2.2.7 Stepping stones

- * Timber Log Trunk Stepping Stones
- Heights: Varying heights above ground between 100 - 500mm x varying diameter. Min diameter 300mm
- Specials: Planed top and splinter free
- Colours: Natural
- Fixing: Core on underside and held in place by steel rod driven into ground.



2.2.8 Play boulders

Mixed size boulders (Detail TBC)

- * Manufacturer: Contractors Choice
- * Finish: Naturally extracted, natural finish
- * Construction: Free-standing throughout soft landscape
- * Dimensions: Mixed sizes, rounded corners



2.2.9 Wheelchair carousel

- * Product: Spinmee Inclusive Roundabout
- * Manufacturer: HAGS or equal and approved
- * Dimensions: Dimensions LxWxH: 2050 x 2050x 800mm
- * Fall Height (mm):1000 mm
- * Safety Area Width (mm):6000 mm
- * Anchoring: Ground anchored



2.2.10 Climbing Wall

- * Product: Climbing Wall with 4 elements
- * Manufacturer: Timberplay or equal and approved
- * Finish/Colour: Robinia timber
- * Dimensions: Height 1.90 / 3.00 / 2.50 / 1.90 m
- * Anchoring: Set in ground with concrete foundation



2.2.11 Small children slide

- * Product: Stainless steel slide
- * Manufacturer: Timberplay or equal and approved
- * Finish/Colour: Stainless steel
- * Dimensions: Width = 1,50 m, height = 2 m
- * Anchoring: As per manufacturer's recommendations



2.2.12 Play logs

- * Min 300mm diameter varying lengths logs.
Mounding to be formed from site won spoil heights
varying from 750mm to 1500mm(TBC).



2.2.13 Spring balance beam

- * Product: Equilibra
- * Manufacturer: HAGS or equal and approved
- * Finish/Colour: Robinia Pseudoacacia and stainless steel
- * Dimensions: 2800(l)x 180(w)x 550(h) mm
- * Anchoring: As per manufacturer's recommendations



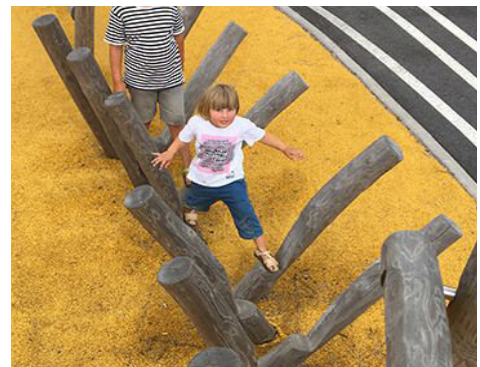
2.2.14 Twin Swing

- * Product: Multi surface Twin Swing special
- * Manufacturer: Timberplay or equal and approved
- * Finish/Colour: Robinia timber
- * Dimensions: 2550(h)x4050(w)x1900 (d)mm
- * Anchoring: Set in ground with concrete foundation



2.2.15 Stepping stilts with jump posts

- * Product: Angled Assault Posts
- * Manufacturer: HAGS or equal and approved
- * Finish/Colour: Robinia timber
- * Dimensions: 2100 (l) x900(w) x 1260(h) mm
- * Anchoring: As per manufacturer's recommendations



2.2.16 Jump posts with rope

- * Product: Stepping Posts
- * Manufacturer: HAGS or equal and approved
- * Finish/Colour: Robinia timber
- * Dimensions: 2100(l)x 300(w)x 1300(h) mm
- * Anchoring: As per manufacturer's recommendations.



2.2.17 Jump posts

- * Product: Angled Assault Posts
- * Manufacturer: HAGS or equal and approved
- * Finish/Colour: Robinia timber
- * Dimensions: 2100(l)x 300(w)x 450(h) mm
- * Anchoring: As per manufacturer's recommendations



3.0 Ecological

3.1 Ecological elements

3.1.1 Bird boxes

- Bird boxes to woodland areas
- Manufacturer: TBC
- Material: Recycled Timber
- Dimensions: TBC
- Locations: TBC



3.1.2 Hedgehog houses

- Hedgehog houses to woodland areas
- Manufacturer: TBC
- Material: Recycled Timber
- Dimensions: TBC
- Locations: TBC



3.1.3 Insect hotel/habitat piles

- Insect hotel or habitat piles to woodland areas
- Manufacturer: TBC
- Material: Recycled Timber
- Dimensions: TBC
- Locations: TBC



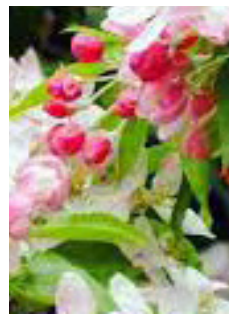
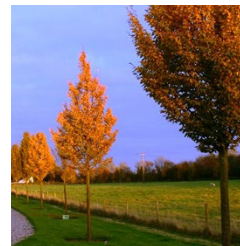
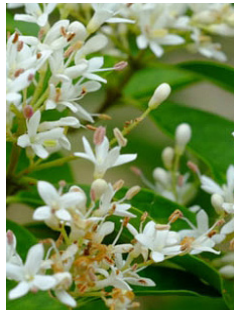
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Soft Landscaping

the planting palette prepared for the Clonburris Canal Extension development is to be read in conjunction with 8008-LDA-XX-XX-DR-L-3000: Softworks General Arrangement and 8008-LDA-XX-XX-SH-L-0001: Plant Schedule

*For Maintenance and Management refer to:
8008-LDA-XX-XX-RP-L-0002*

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4.1 Soft Landscape Principles

The landscape proposals support the development masterplan by creating a high-quality setting to the residential neighbourhood with considered streetscape design and locally accessible open spaces with high levels of legibility and ease of movement within and through the development and also connections with the wider canal-side park area and towpath. The high level of visibility through the site and from passive surveillance ensures good orientation and provides a safe environment for all users.

The planting proposals have also been carefully considered to denote and distinguish public and private areas, ensure privacy zones, deter loitering, create attractive back garden and communal areas, clearly denote the extent of the development, minimise anti-social behaviour, reduce visual and noise impacts from the Fonthill Road, create attractive play areas, including opportunities for natural and imaginative play and ensure that the development will make a positive contribution to the future Grand Canal park.

In accordance with the SDZ and advice from SDCC Parks, the planting will be selected to be proportionate to the width of the street with the street trees augmented by planting and associated with SuDS.

The soft landscape elements will be a mix of native species and ornamental species to ensure appropriate character for the area and provide rich and diverse habitats and biodiversity. These species will be used in the public realm and play areas and around the SuDS features.

Within the streets, trees and ground cover species have been chosen to be appropriate to the scale of the streetscape and provide year-round colour and interest.

All planting will be selected to minimise the maintenance requirements.

4.1.1 BEST PRACTICE

Follow the recommendations set out in BS 4428:1989 Code of practice for General Landscape Operations (excluding hard surfaces) unless otherwise stated in this specification. Ensure top soiled areas are kept free from weeds by spraying with an approved translocated non-residual herbicide.

4.2 Trees

4.2.1 TREE PLANTING

Tree species & sizes: Refer to Plant Schedule

Supplier: Local provenance where applicable.

Requirements: Single straight leader where applicable to species. Well-balanced crown. No damage to bark. No wounds.

All trees in soft landscape to be planted in tree pits with the following specification:

- Tree pit base to be thoroughly broken to ensure free draining soil structure.
- 150mm clean stone aggregate drainage layer to base wrapped in geotextile with 100mm dia. perforated drainage pipe connected to positive drainage connection.
- Backfill with mixed topsoil. Backfill material to be well-mixed 70% topsoil to BS 3882 'premium grade', 20% compost and 10% sand. Incorporate slow release fertiliser into backfill material.
- Planting compost shall be a peat free tree planting compost.
- Seaweed based granular soil improver is to be incorporated in the backfill material at the rate of 1.5kg/m³ and slow release fertiliser at the rate of 40g/cm girth worked into the last 300mm during backfilling.
- On completion of backfilling and levelling - all pits to be watered to field capacity.
- Irrigation pipe with filler cap to be installed.
- Secured by underground straining frame guying system with min. 3no. guys driven into ground.

Care should be taken to avoid damage to trees during planting operations. Any damage to bark is to be treated with fungicide, any damaged branches to be carefully pruned. If damage is excessive the Landscape Architect may instruct replacement of the tree.

All trees within/adjacent to hard surface areas are to be in SuDS tree pits.

Detail to be developed with the Engineer to suit drainage and flow requirements.

4.3 Shrubs

4.3.1 PROPOSED SHRUB PLANTING

Shrub sizes: Refer to plant schedule

- Plant bed base to be thoroughly broken to ensure free draining soil structure.
- Backfill with mixed topsoil. Backfill material to be well-mixed 70% topsoil to BS 3882 'premium grade', 20% compost and 10% sand. Incorporate slow release fertiliser into backfill material.
- Planting compost shall be a peat free tree planting compost.
- Seaweed based granular soil improver is to be incorporated in the backfill material at the rate of 1.5kg/m³ and slow release fertiliser at the rate of 40g/cm girth worked into the last 300mm during backfilling.
- On completion of backfilling and levelling - all beds to be watered to field capacity.

Care should be taken to avoid damage to shrubs during planting operations. Any damaged branches or foliage to be carefully pruned. If damage is excessive the Landscape Architect may instruct replacement of the shrubs in question.

4.4 Grass

4.4.1 PROPOSED AMENITY TURF

- Apply a suitable non-residual herbicide for suppressing perennial weeds. Clean seed bed as turf supplier's recommendations.
 - Soil ameliorant / conditioner / fertiliser: Fully incorporate into topsoil to depth of 200mm.
 - Reduce soil to a fine tilth of 150mm suitable for blade grading.
 - Stone pick to remove all detritus greater than 50mm diameter.
 - Turves laid in stretcher bond pattern.
 - A dressing of finely sifted topsoil complying with BS 3882 should be applied to the laid turf and brushed well into the joints
 - Grass to be turf supplied by a TGA approved supplier
 - Allow for 16 cuts per annum, but areas can be left longer, if required.
-

4.4.2. PROPOSED HARD WEARING SEED MIX

- Apply a suitable non-residual herbicide for suppressing perennial weeds.
 - Apply a suitable non-residual herbicide for killing / reducing perennial weeds.
 - Apply a soil ameliorant / conditioner / fertiliser: Fully incorporate into topsoil to depth of 200mm
 - Reduce soil to a fine tilth of 150mm suitable for blade grading.
 - Stone pick to remove all stones greater than 50mm diameter
 - Sow at a rate of 35g / m²
 - Allow for 16 cuts per annum, but areas can be left longer, if required.
-

4.4.3 PROPOSED SPECIES RICH SEED MIX

- Apply a suitable non-residual herbicide for suppressing perennial weeds.
 - Apply a suitable non-residual herbicide for killing / reducing perennial weeds.
 - Apply a soil ameliorant / conditioner / fertiliser: Fully incorporate into topsoil to depth of 200mm
 - Reduce soil to a fine tilth of 150mm suitable for blade grading.
 - Stone pick to remove all stones greater than 50mm diameter
 - Sow at a rate of 10g / m²
 - Allow for 2 cuts per annum
-

4.4.4. PROPOSED WET MEADOW SEED MIX

The wetland area will be seeded with a species rich seed mix suitable for wetlands, SuDS features and damp low lying sites.

An 80:20 mix of grasses and native wildflowers, sown at a rate of 10gms per m².

It will provide habitats, all year round, for insects, invertebrates, birds and mammals with flowers appearing between April and September.

Opportunities for natural play will be available through the inclusion of boulders, gravel areas and logs.

- Sow at a rate of 3 - 5g / m²
- Allow for 2 cuts per annum

4.5 Topsoil

4.5.1 TOPSOIL

Topsoil is to be partially sourced from site won material in the interests of sustainability, where it is deemed to be of the appropriate quality.

If imported topsoil is required, it shall be good quality, sand loam to medium fibrous loam, clean and free from weed, seeds and coarse grass roots, rubbish, subsoil, large stones and extraneous matter and shall be in accordance with BS 3882 'premium grade'.

Top Soil Depth:
 Amenity Turf/Seeding: 200mm
 Shrub areas: 450mm
 Tree pits: 1200mm

Texture:
 Medium loam - sand max 75% / min 20%
 Silt - max 60% / min 5%
 Clay - max 30% / min 5%
 Soil Reaction: 6.0-7.5pH

Stone Content:
 2mm-50mm 35% max by dry weight
 2mm-5mm must not exceed 20% by dry wt.
 Max Stone Size: 50mm.
 Electrical Conductivity: 100-1500 microns/cm
 on a 1:2.5 (w/v) soil-water extract
 Ext. Nitrogen: >0.2%
 Ext. Phosphorus: >45ppm
 Ext. Potassium: >240ppm
 Ext. Magnesium: >80ppm
 Organic matter: Not less than 5%
 General condition:
 Free of weed seeds and all pernicious weeds and roots. It shall also be free from subsoil, building material, foreign matter and chemical contamination.
 Phytotoxic elements:
 Total copper 130mg/kg max
 Total nickel 70mg/kg max
 Total zinc 300mg/kg max
 Water soluble boron 3mg/kg max
 Zootoxic elements:
 Arsenic 40mg/kg max
 Cadmium 15mg/kg max
 Chromium 1,000mg/kg max
 Lead 2,000mg/kg max
 Mercury 20mg/kg max

4.6 Topdressing

4.6.1 Top Dressing to Planted Areas

- Product: Composted bark, screened to 0-8mm

5.0 Boundary Treatments

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5.1 Boundary Fences

5.1.1 Temporary timber post and wire whilst hedges establish

- * Galvanised steel weldmesh fence
- * Supplier: Contractors choice
- * Dimensions: 1.2m overall height
75mm square softwood timber
No preservative treatment required
- * Centres of posts- 2.4m
- * Wires - 19swg weldmesh stapled to posts
- * Drive posts 750mm into the ground



5.1.2 Public Realm boundary

- * 500mm height brick wall with 1.0m high railings
- * Standard: to BS 1722-9
- * Galvanised steel, prepared, primed and painted black
- * Main posts: 70 x 70mm with flat top at approx. 2.5m centres
Set posts into brick wall
- * Intermediate verticals: 12mm square with blunt top at approx 90mm centres
- * Horizontal bars - 2no. flat rectangular section
1no. to create base to the verticals
1no. approx 200mm from top of verticals



5.1.3 Front Garden railings

- * 1200mm high railings
- * Standard: to BS 1722-9
- * Galvanised steel, prepared, primed and painted black
- * Main posts: 100 x 100mm with flat top at approx. 2.5m centres
- * Intermediate verticals: 12mm square with blunt top at approx 90mm centres
- * Horizontal bars - 3no. flat rectangular section
1no. to create base to the verticals
2no. approx 200mm and 300mm from top of verticals



5.1.4 Close board timber fence to back gardens

- * Standard: to BS 1722-5
- * Height: 1.8m
- * Treatment: to provide 30 year service life
- * Boards/rails: softwood feather edged boards on rectangular rails
- * Posts: Concrete posts at 2.4m centres set in concrete foundations
- * Accessories: timber capping rail



5.2 Boundary Walls

5.2.1 Concrete block wall to rear of existing gardens

- * Height: 2.1m
- * Single-wythe wall
- * Material: concrete masonry units
- * Joints: mortar joints
- * Foundation: concrete foundation
- * Reinforcement: vertical and horizontal reinforcement required
- * Full details to be confirmed by Engineer



L D Ā D E S I G N

Sovereign House
158 West Regent Street
Glasgow G2 4RL
United Kingdom
+44 (0) 1412 229 780
www.lda-design.co.uk

LDA Design Consulting Ltd
Registered No: 09312403
17 Minster Precincts, Peterborough PE1 1XX

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