



Appendix A - Landscape Design

Peterson For

Trinity Wharf Wexford
Landscape Design Statement

Document Ref: X 01

11-12-18
Rev: A

the paulhogarthcompany

INTRODUCTION

The below outlines the landscape design approach taken to the Trinity Wharf Masterplan in Wexford. These relate directly to the soft landscape (planting) approach but reference the overall spatial proposals for context).

Landscape proposals have been developed following site analysis, document review client and design team briefings.

SITE ANALYSIS

The site was visited to review the landscape Character, opportunities and constraints.



The following key issues were noted:

- Views and points of interest within and outside the site.
- Materials within and to the edges of the site with Concrete, roughhewn stone and timber being prominent.
- Decaying industrial/manufacturing character.
- The variety of 'emergent' vegetation was noted with significant meadow grass and wildflower species.
- The exposed nature of the entire site and sea water overtopping of land.
- Site Features in the water (outside the site boundary) including stone beacons and former timber boardwalks.
- Existence of invasive species to the rail line side of site. Including Japanese Knotweed and Three Cornered Leak.

LANDSCAPE AIMS

Following the site analysis, landscape aims were developed. The aims intend to:

1. Utilise the sites unique location on the water.
2. Develop strong physical connectivity to town centre.
3. Create a robust landscape which can survive the harsh maritime environment.
4. Develop landscape areas which will be a destination and where people will want to visit and spend time.
5. Develop a waterside route which can in future become part of a strategic green/blue way.
6. Provide an additional outdoor events space for the town.

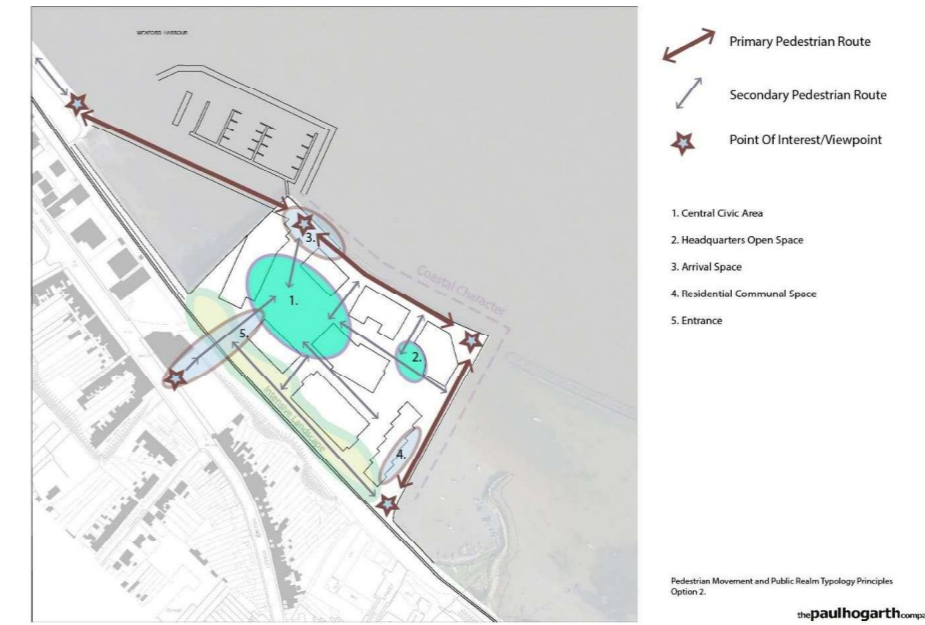
OVERALL LANDSCAPE CHARACTER

A wild and emergent landscape character is proposed to complement and celebrate the locations natural assets. This will include sparse planting to the water sides with glades of single species tree planting developing into mixed species buffer planting along the rail line. This approach will suit the exposed nature of the site by using trees with visual character, repetitive aesthetics but informality of layout.

Shrub planting will be sparsely populated within Rock and gravel 'causeways' at the water side of the site becoming more formal and dense around buildings and towards the railway line. This approach will minimise the impact of salt laden air and potential for saline water inundation from below.

A variety of tree and plant species have been considered favouring natives but reflecting the existing vibrant biodiversity emerging on the site.

Therefore an appropriate and robust planting palette which considers the specifics of the site and can be established and maintained.



Landscape Typologies Diagram

LANDSCAPE TYPOLOGIES

To achieve the above aims and guide the spatial design of the landscape a number of public space Principles/Typologies have been developed for the site.

These include:

COASTAL PATH -Pedestrian and cycle movement through the site should be encouraged to the waterside to take advantage of the sites unique setting. Exposed Aggregate concrete paths are proposed with Rip Rap hewn stone and levels used to mitigate the visual impact of flood walls on the experience. Pedestrian guardrails incorporated on the walls where required.

Emergent and wild coastal planting is incorporated sparsely among the rocks on the building side of the path to add verticality, colour and visual interest. This includes salt tolerant tree species planted irregularly, specimen shrubs, smaller grasses and flowers.

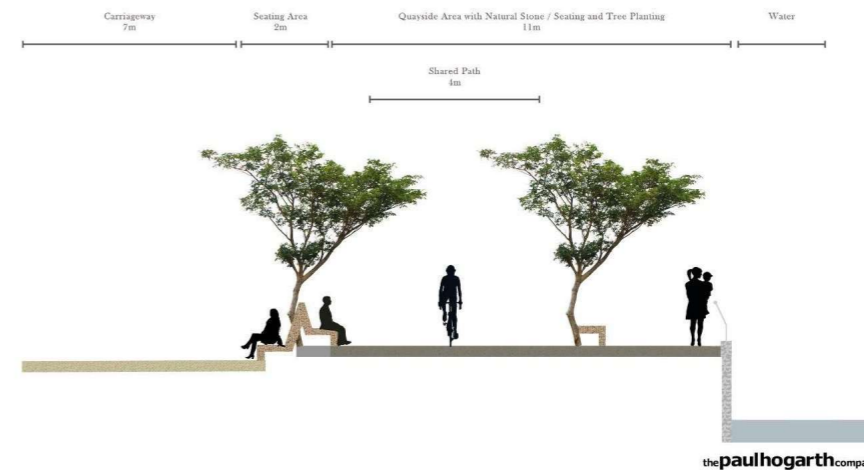
Wexford Quays - Trinity Wharf
Coastal Landscape Section



Drawing Ref: SE_700

ARRIVAL SPACE – The area where the new pedestrian bridge enters the site and the Marina is accessed from. It will be a predominantly hard landscape area providing access to the water for pedestrians as well as seating opportunities for people to gravitate towards and gather. Reclaimed timber benches will echo the former pier structures and trees will provide a more hospitable environments for people.

Wexford Quays - Trinity Wharf
Arrival Space Landscape Section



Drawing Ref: SE_701

CENTRAL CIVIC AREA – The civic space is a flexible public event space which addresses the Cultural and Performance Centre and hotel front doors. It will be an open paved surface capable of heavy vehicular loading and provide fully integrated ‘pop up’ utilities for a range of events and activities.

Large civic trees will accentuate the orientation of the Cultural and Performance Centre and provide a setting for seats and outdoor eating at the proposed cafe.

INTERNAL ACCESS ROAD– The internal road will be a shared surface with shade tolerant shrub planting providing a setting to the buildings using colour and texture. Specimen trees will soften the building facades providing vertical interest and giving the planting beds a 3 dimensional impact. Trees with seasonal colour and floral displays have been selected to achieve this.

RESIDENTIAL COMMUNAL SPACE – The residential units will be integrated into the public realm but also have communal open space which will be provide residents with seating and play facilities. (Refer to SK_13) These will be partially screened from the coastal path using a native hedge, defensive shrub planting and trees. At the railway side of the residential building the density and height of trees will increase to provide some screening.

CENTRAL PATHS & CARPARK - The central paths will be flanked by ground cover planting and glades of tree planting. Small and shade tolerant species are proposed between Cultural and Performance Centre and Carpark to create a human scale to the space while between the carpark and rail line larger tree and shrub species are proposed for screening. Nurse species of planting such as birch will be used to create fast and effective screening and opportunities for a wider variety of planting to establish under.

RAIL LINE PLANTING – Along the rail line side of the site Iarnród Éireann requirements for planting and its control have been incorporated with a grass, wildflower and then shrub buffer being provided before a maintained hedge and small trees are planted for screening. Nurse species of planting such as birch will be used to create fast and effective screening and opportunities for a wider variety of planting to establish under.

Wexford Quays - Trinity Wharf
Railway Landscape Section



the paulhogarth company

Drawing Ref: SE_702

LANDSCAPE MAINTENANCE & MANAGEMENT

The Client will maintain and manage the proposed landscape with the overall objective of:

- Ensuring the implementation, establishment and long-term health of the proposed landscaping scheme.
- Ensuring best horticultural practices are implemented at all times.
- Ensuring best Safety and Health practices at all times.
- Maintaining high standards of environmental protection practice thorough considered management procedures.
- Utilising methods and timings to respect and encourage wildlife, wherever possible.
- Inspecting for potential defects in the landscape early and addressing them promptly.

To achieve the above a landscape management plan specific to this site will be prepared by suitably qualified professionals.

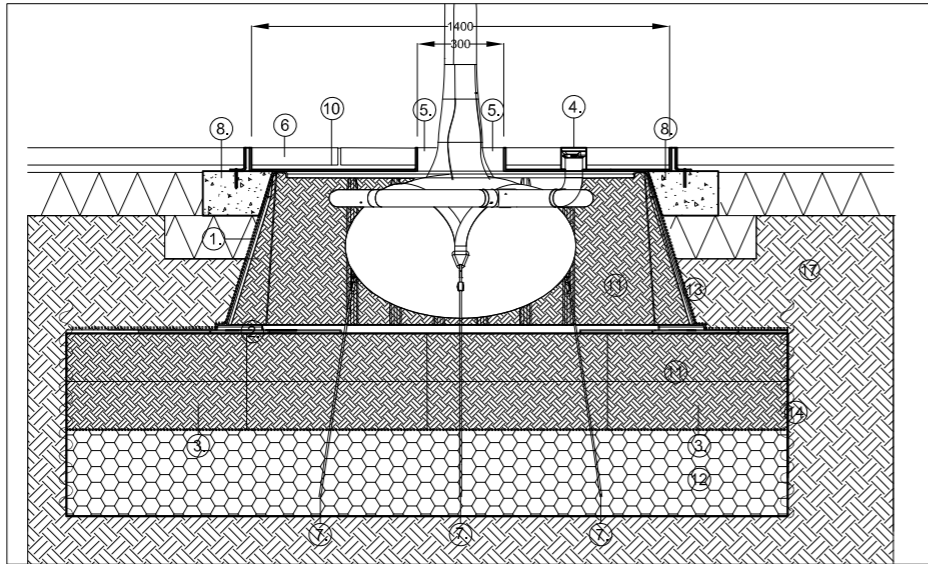
The soft landscaping scheme shall be carried out as early in the development process as possible. Any planting forming part of the approved landscaping that die, are removed, become diseased or

unfit for purpose within five years of the implementation of the landscaping scheme will be replaced during the next available planting season.

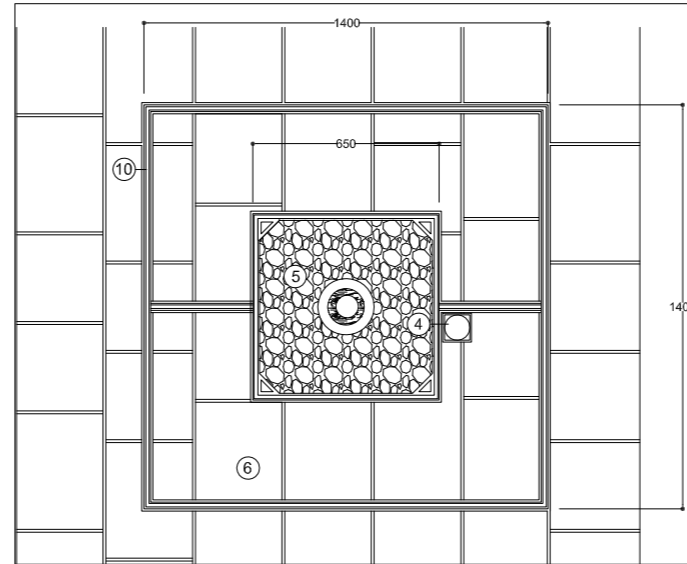
Landscape contractors will be assessed, and their works monitored to ensure that all work is to the highest standards and carried out by experienced and qualified operatives and to good horticultural practice, using materials, plant and machinery appropriate to the task, undertaken in such a manner that avoids damage and/or nuisance to the site and its surroundings.

Any chemical use (including weed control) will be carried out by suitable trained staff in accordance with the manufacturer's recommendations and legislation. Chemical use will be avoided in coastal areas of the site where the potential for run off and overspray exists.

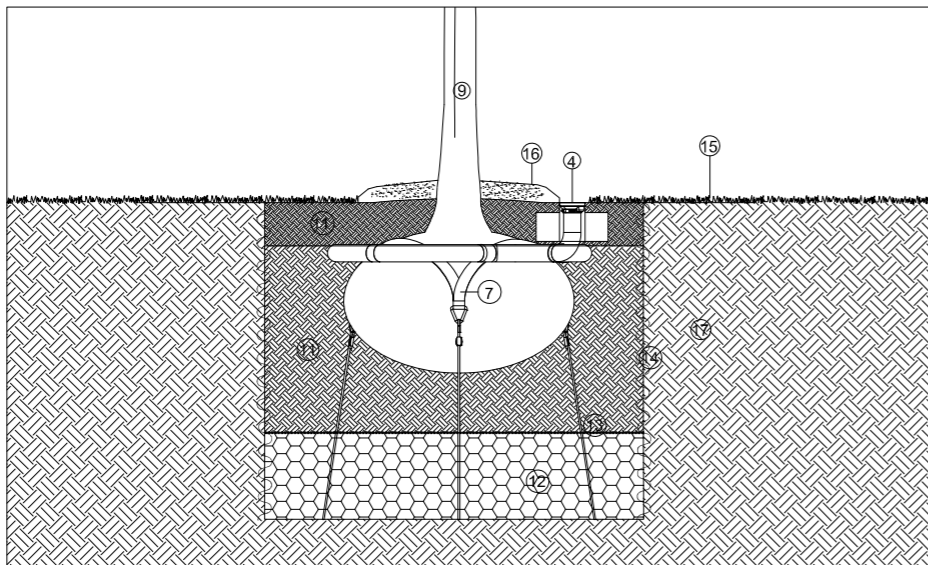
All arisings will be removed from site and deposited at an approved tip or registered green compost facility. Watering operations will be avoided but carried out immediately (in line with legislation) should plant failure become likely.



Section - Proposed Tree in Hard Surface
scale@a3 1:20



Plan - Proposed Tree in Hard Surface
scale@a3 1:20



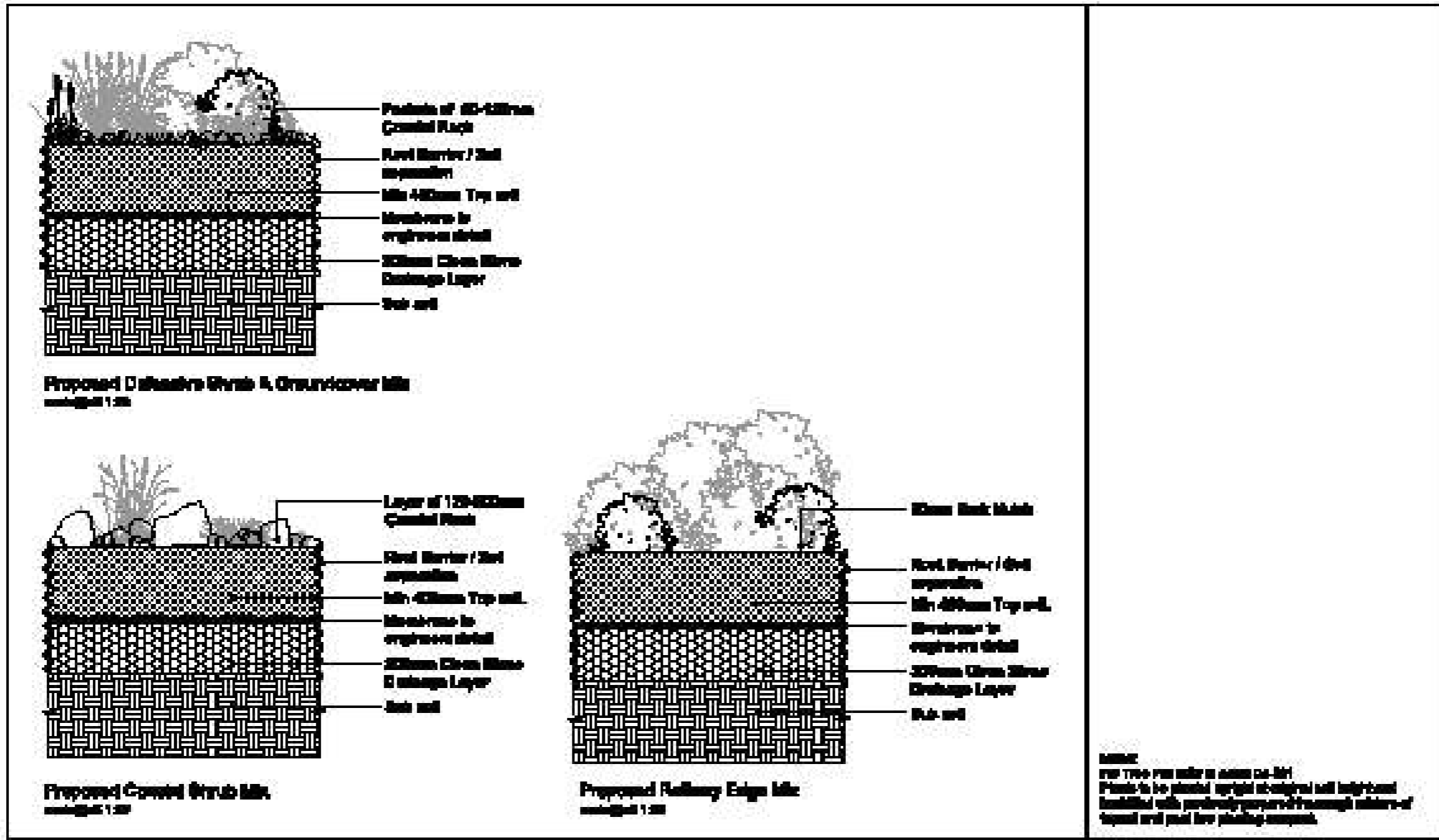
Section - Proposed Tree in Soft Landscape
scale@a3 1:20

Key

1. Root Director ,modular root barrier system
2. Twinwall geonet
3. RootCell structure
4. aeration / irrigation system specially incorporated into the tree grille with lockable lid.
5. 20MM deep porous bound stone surfacing laid on loose stone
6. Proposed paving surface.
7. Large anchor system with drive in heavy-duty composite anchors.
8. Concrete foundation to engineers detail
9. Proposed Mature Tree. Refer to planting plan
10. Recessed tree grill
11. Tree soil / Top soil
12. 300mm Clean stone drainage layer
13. Permeable membrane
14. Re-direct root barrier
15. Proposed Planting. For type refer to layout drawings
16. Bark Mulch
17. Existing soil

Revision	Description	Date	Initial	Revision	Description	Date	Initial
P00	Issued for Planning	11.12.18	DM				

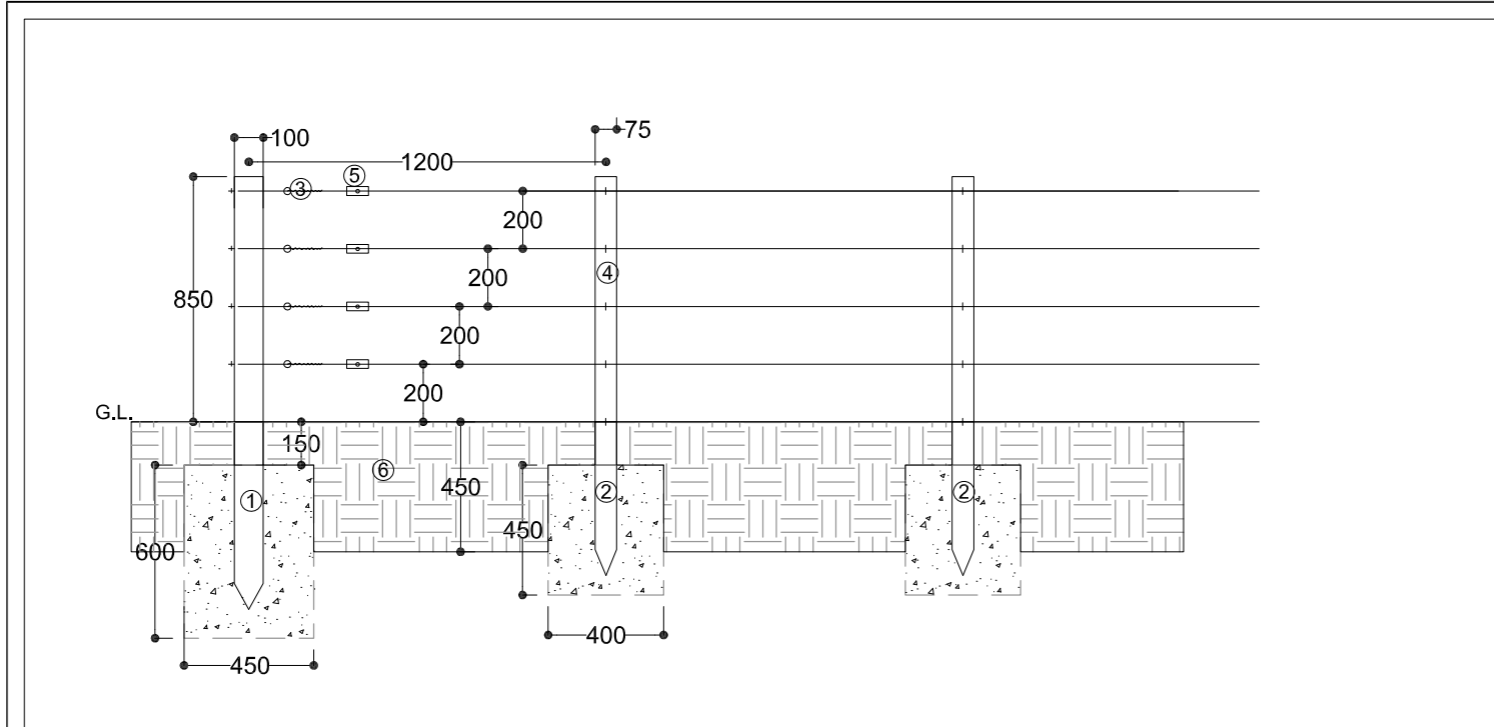
Client Wexford County Council	the paulhogarth company			
Project Title Trinity Wharf				
Drawing Title Typical Tree Pits				
landscape architecture urban design potters quay, 5 ravenhill road, belfast BT6 8DN telephone: 028 9073 6690 fax: 028 9073 2705 email: belfast@paulhogarth.com www.paulhogarth.com				
drawn by DM	checked by AM	scale @ A3 1:20	drawing no. L-DE-901	revision P00
project no. 1125	date 10.12.18	status Planning		



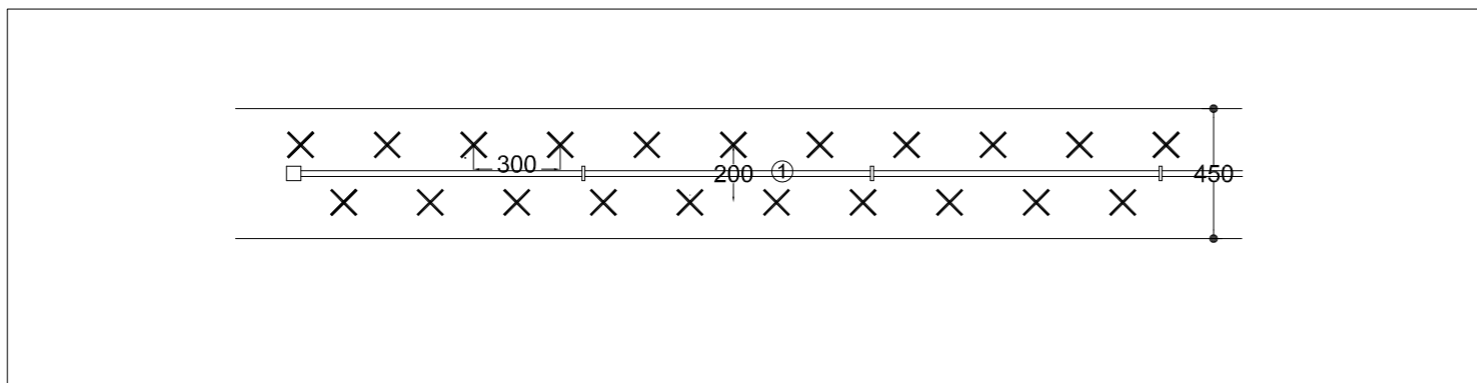
NOTE:
 For 100% rain water to drain to SW
 Plants to be planted upright at original soil height and
 installed with previously prepared drainage system of
 topsoil and good low planting support.

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY	CHKD
1	Issue for approval	11.01.20	SW					

Wexford County Council Planning Dept Trinity Wharf - Wexford Planning Type Street Planting Type 4		the paulhogarth company 100-102, Main Street, Wexford Tel: 053 933 3333 Fax: 053 933 3334 www.paulhogarth.com	
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Typical Elevation
scale@a3 1:20



Typical Plan
scale@a3 1:20

NOTES

1. 1500mm min x 100mm diameter pressure treated timber end post and straining post @ 25m centres and at all changes in direction. To be set in 600 x 450 x 450 C20 concrete foundation at all end and corner posts where ground conditions require.
2. 1800 x 75mm diameter pointed timber post to be driven securely into ground (foundation to be cast subject to ground conditions).
3. Wires fixed to posts at either end of run with galvanised Straining Eye Belts, 12.5 mm
4. Wires fixed with galvanised staples
5. Wire tensioners. To be positioned at start of runs and mid-way between straining posts
6. Top soil min depth 450mm with further layer of subsoil 300mm minimum depth. Break up subgrade prior to infill.

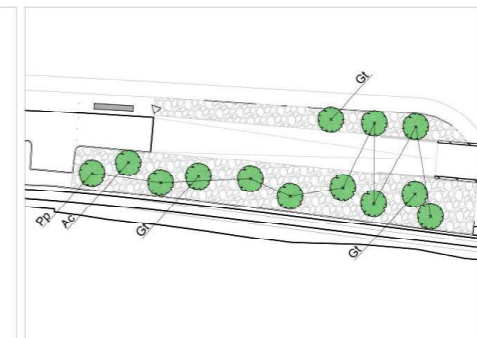
NOTES:

75mm perforated drainage pipe to be included within 300mm layer of clean stone, along extents of each hedge. To be tied into main drains, Contractor to submit proposals.

To be planted as double staggered rows @ 300mm centres in trench approx 450mm wide with rows 200mm apart, 7 plants per/lm. Hedging mix to be planted in random groups of no less than 3 or more than 7 of the same species, ensuring that no three plants are aligned in any one direction

Revision	Description	Date	Initial	Revision	Description	Date	Initial	Client
P00	Issued for Planning	11.12.18	DM					Wexford County Council
								Project Title Trinity Wharf - Masterplan
								Drawing Title Typical Hedge Planting Detail

the paulhogarth company		landscape architects		urban design	
Avalon House, 278/280 Newtownards Road, Belfast		BT4 1HE		BT4 1HE	
telephone: 028 9073 6690		www.paulhogarth.com		fax: 028 9073 2705	
email: belfast@paulhogarth.com		www.paulhogarth.com		www.paulhogarth.com	
drawn by DM	checked by AM	scale @ A3 1:20	drawing no. L-DE-903	revision P00	
project no. 1125	date 10.12.18	status Planning			



Notes
 Drawing should be read in conjunction with all other drawing information.
 All plant material (shrubs, hedges and grasses) should be from a proven, sustainable source and be of local provenance.

Trees

Code	Species	Girth Cm	Height	Spec
Ar	Acer rubrum	25-30	3-4.5m	4x Rb / 2m clear stem
Fr	Fraxinus heptanota	40-45	4-5m	5x Rb / 2.2m clear stem
Pc	Pyrus calleryana	40-45	4-5m	5x Rb / 2.2m clear stem
Qp	Quercus palustris	35-35	4-5m	4x Rb / 2m clear stem
Ql	Quercus ilex	35-35	4-5m	4x Rb / 2.2m clear stem
Proposed Tree Planting				
Aa	Amelanchier arborea	25-30	4-5m	4x Rb / 2m clear stem
Bu	Betula utilis	30-35	4-5m	5x Rb / 2m clear stem
Bra	Betula utilis (ms)	3-4m	3-4m	4x Rb / Multistem (5 breaks)
Ca	Cercis siliquastrum	25-30	4-5m	4x Rb / 2m clear stem
Co	Cornus kousa (ms)	N/A	3-4m	4x Rb / Multistem (5 breaks)
Cr	Rhys typhurus (ms)	N/A	3-4m	4x Rb / Multistem (5 breaks)
Cm	Crataegus monogyna	14-16	4-5m	3x Rb / 2m clear stem
Co	Corylus avellana	14-10	4-5m	3x Rb / 2m clear stem
Ma	Malus sylvestris	14-16	4-5m	3x Rb / 2m clear stem
Ta	Taxus baccata	N/A	1.5-2m	6x Rb / Faithared
Pr	Prunus spinosa	14-16	4-5m	3x Rb / 2m clear stem
Ac	Amelanchier canadensis (ms)	25-30	3-4m	5x Rb / Multi stem (5 breaks)
Cl	Clethra alnifolia 'Sunburst'	25-30	4-5m	4x Rb / 2m clear stem
Pp	Pinus pinea	N/A	3-4m	4x Rb / 2m clear stem

Shrubs - Railway Edge Mix

%	Species	Height (cm)	Spec	Density (m2)
15	Corylus avellana	60-80	1+1 Br	3
15	Cornus sanguinea	60-80	1+2 Br	3
25	Eucryphia europaea	60-80	1+2 Br	3
35	Symphoricarpos albus	60-80	1+1 Br	4
10	Viburnum opulus	60-80	1+2 Br	3

Shrubs - Coastal Mix

%	Species	Height (cm)	Spec	Density (m2)
40	Amorpha maritima	3L	9	7
10	Aubrieta x cultorum	2L	7	9
10	Cerastium tomentosum	3L	7	9
5	Ergonon glaucus	3L	7	9
15	Molinia caerulea	5L	6	6
5	Saxifraga x urbium	3L	9	9
5	Dedum album	3L	7	9
5	Amelanchier canadensis	3.5-4m	Rb	0.06
5	Cercis siliquastrum	3.5-4m	Rb	0.05

Shrubs - Ground Cover Mixes

%	Species	Height (cm)	Spec	Density (m2)
Code: 50	S1			
50	Saxifraga x urbium	3L	9	9
30	Viburnum davidii	60-80	15L	5
10	Phlox subulata 'Marianela Cushion'	3L	9	9
10	Taxilla cordifolia	3L	9	9
Code: 80	S2			
80	Hedera hibernica	60-80	3L	7
20	Pachysandra terminalis 'Variegata'	2L	9	9
Code: 40	S3			
40	Panicaria oisorta superbum	3L	9	9
15	Bergenia cordifolia	10-15	2L	7
20	Epimedium grandiflorum	3L	7	7
25	Molinia caerulea	5L	6	6
Code: S4	S4			
100	Eucryphia fortunei 'Newenata'	20-30	3L	9

Shrubs - Defensive Shrub Mix

%	Species	H (cm)	Spec	Density (m2)
40	Rubus cockburnianus	60-80	10L (min 5 breaks)	5
30	Cornus alba sibirica	60-80	10L (min 5 breaks)	5
30	Pinus mugo	40-60	15L	3

Hedge Planting - Formal

%	Species	Height (cm)	Spec	Density (linear m)
100	Carpinus betula	80-120	5L container / bushy	7

Hedge Planting - Native

%	Species	Height (cm)	Spec	Density (linear m)
60	Crataegus monogyna	60-80	1+1 Br	7
15	Ilex aquifolium	60-80	1+1 Br	7
25	Prunus spinosa	60-80	1+1 Br	7

Grass Seed Mix
 All grass seed mixes to be supplied by EcoSeed or equal approved (seeds to be sown at 3-5g per metre square). Seed mixes to be developed for all areas.

Proposed Wildflower Grassland
 Slender creeping red fescue (Festuca rubra ssp. horvathii)
 Crested Dogtail (Cynosurus cristatus)
 Common Bent (Agrostis capillaris)
 Meadow Fescue (Festuca pratensis)
 Sweet Vernal Grass (Anthoxanthum odoratum)
 Upright lot scabious (Duclosia pratensis)
 Ribwort plantain (Plantago lanceolata)
 Yarrow (Achillea millefolium)
 Common knapweed (Lupinus niger)
 Meadow Sweet (Filipendula ulmaria)
 Clary (Ligusticum vulgare)
 Meadow buttercup (Ranunculus acris)
 Field Scabious (Kasnia arvensis)
 Yellow rattle (Rhinanthus minor)
 Birdfoot trefoil (Lotus corniculatus)
 Tufted vetch (Vicia cracca)

Green Roof
 Pre-grown instant vegetation layer supplied in a soil free coconut fibre mat.
Proposed Sedum Roof Species:
 Sedum Acre aurum
 Sedum Album Coral Carpet
 Sedum Album album
 Sedum Album Mini
 Sedum Hispanicum
 Sedum Summer Glory
 Sedum Relaxum
 Sedum Weltheimstephaner Gold
 Sedum Woodoo

Pre-grown instant vegetation layer supplied in a soil free coconut fibre mat.
Intensive Area Species:
 Amelanchier canadensis
 Achillea millefolium
 Silene aifoliosa
 Lotus corniculatus
 Leucanthemum vulgare
 Thymus vulgaris

Proposed Tree Planting (refer to planting schedule and detail 901)

Proposed Street Trees (refer to planting schedule and detail 901)

Proposed Shrubs Coastal Mix (refer to planting schedule and detail 902)

Proposed Shrubs Defensive Mix (refer to planting schedule and detail 902)

Proposed Shrubs Ground Cover (refer to planting schedule and detail 902)

Proposed Wildflower Grassland (refer to planting schedule for mix)

Proposed Shrubs Railway Edge (refer to planting schedule and detail 902)

Proposed Reinforced Amenity Grass

Proposed Formal Hedge (refer to planting schedule and detail 903)

Proposed Native Hedge (refer to planting schedule and detail 903)

Proposed Play Area (refer to S13)

Proposed Buildings (For sedum roof locations refer to architects drawings)

Revision	Description	Date	Initial
P00	DRAFT Planning Issue	18.11.20	DM
P01	Amendment to entrance	18.12.03	DM
P02	Issued for planning	18.12.11	DM

the paulhogarth company
 landscape architecture
 pauline o'neill, 21 newmill road, ballast
 phone: 028 9073 8900 fax: 028 9073 2705
 email: ballast@paulhogarth.com www.paulhogarth.com

WEXFORD COUNTY COUNCIL
 urban design
 8718 8204

project title: **TRINITY WHARF - MASTERPLAN**

drawing title: **PLANTING PLAN**

drawn by: DM checked by: AM scale @ A1: 1:500 revision: P02
 project no: 1125 date: Nov 2018 drawing no: L-PP-001
 status: **Planning**



Wexford Quays - Trinity Wharf Coastal Landscape Section

Note: Sections are intended for illustrative purposes only and should be read in conjunction with all other application information



Wexford Quays - Trinity Wharf Arrival Space Landscape Section

Note: Sections are intended for illustrative purposes only and should be read in conjunction with all other application information



Wexford Quays - Trinity Wharf Railway Landscape Section

Note: Sections are intended for illustrative purposes only and should be read in conjunction with all other application information



SE-702

revP00

the paulhogarthcompany



Single Bench (with Backrest)



Double Bench (with Backrest)

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 TRINITY WHARF - STREET FURNITURE
 SK09 PROPOSED SEATING

RECLAIMED TIMBER SEATING

- Manufacturer: Streetlife
- Product: Drifter Bench
- Reclaimed Timber
- Galvanised Steel Base / Painted (RAL Colour / Finish to be confirmed)
- Fixed with Baseplate or Root Mounted in foundation

Options

- Single or Double Bench (As image)
- with or without Backrest (Backrest location can be changed)
- with or without Armrests (Armrest location can be changed)
- In various Lengths 1.2 / 2.4 / 4 & 5m
- Picnic Table arrangement



Long Single Bench with Table



Double Bench with Backrest & Armrest



Single Bench with Backrest



Double Bench with Backrest



Proposed Bin



Ash Hopper



Stubber Plate



Self Levelling Plate



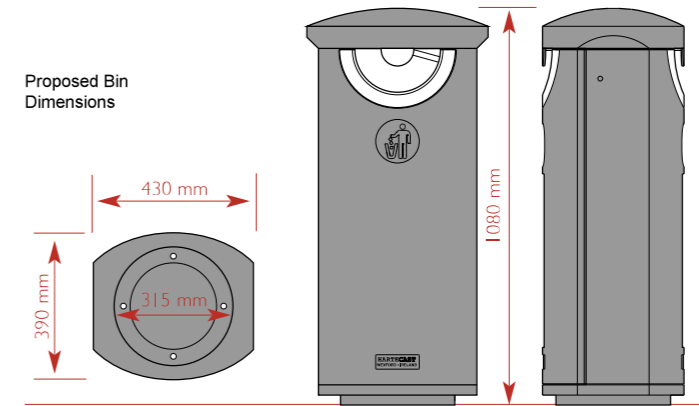
Proposed Bin Highlighting advertising panel

the paulhogarth company
 TRINITY WHARF - STREET FURNITURE
 SK10 PROPOSED BIN

DUCTILE CAST IRON BIN

- Manufacturer: Hartcast
- Product: HC2055 Bin
- 100L capacity
- Manufactured from 12mm cast ductile iron with 316 grade stainless steel
- Stainless steel aperture to protect paint work and prevent chipping
- Fully galvanised with powder coat finish (RAL colour / finish to be confirmed)
- Stainless Steel stubber plate with key operated ash hopper.
- Robust anti vandal hinging mechanism using 16mm stainless steel shaft door
- Heavy duty sealed galvanised steel liner
- Supplied with detachable base plate both for ease of installation and removal without disturbing ground fixings

- Options
- Levelling plates to help cater for different gradients
 - Available with or without advertising panel
 - A restrictor can be added to restrict access by birds and will also combat the problem with domestic waste dumping.



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TRINITY WHARF - STREET FURNITURE
SK11 PROPOSED BOLLARD

BOLLARDS AND CYCLE STANDS

Bollards

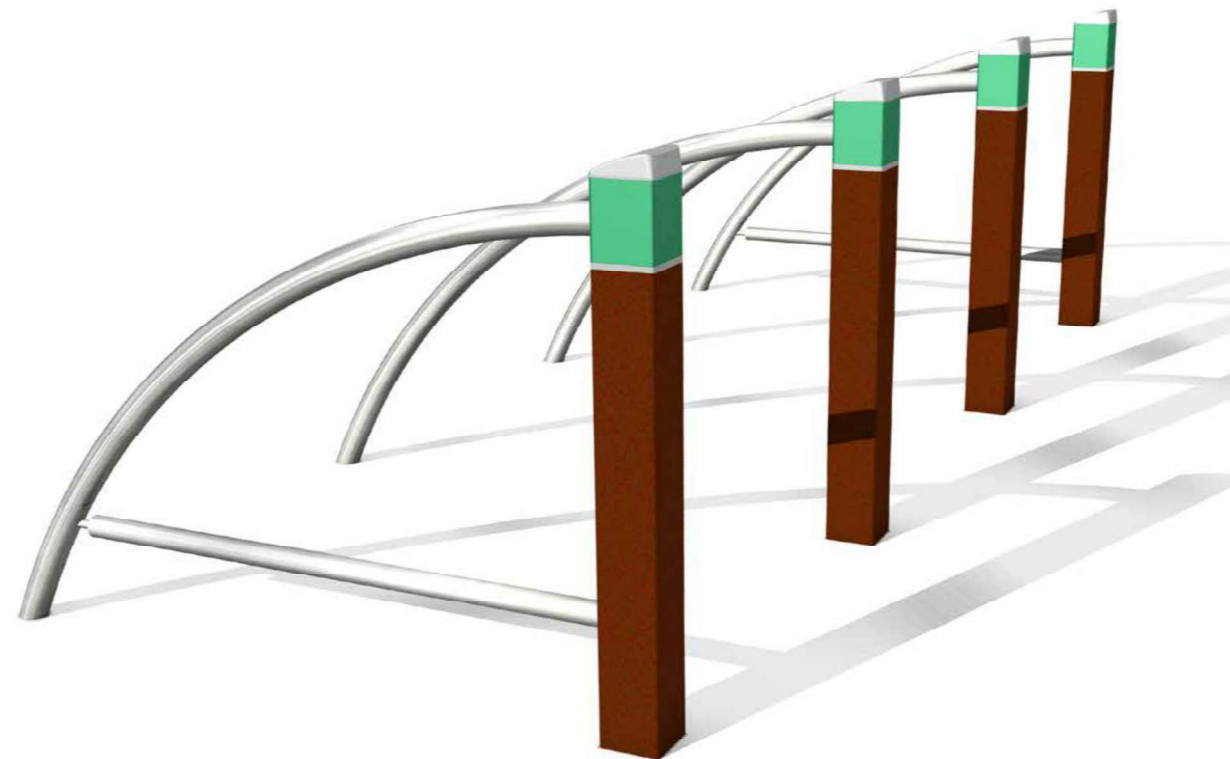
- Manufacturer: Hartcast
- Product: HC2014 Square Bollard
- Stainless steel bollard with cast stainless steel angled cap.
- 100x100mm dia 900mm length (300mm underground)
- Powder coat finish (RAL colour to be confirmed)
- Fixed and removable versions with retention socket available.
- Length also also variable

Cycle Stands

- Manufacturer: Hartcast
- Product: HC2095 Cycle Stand
- Stainless Steel Curved Cycle Stand with cast stainless steel collar and cap
- 100x100mm dia 900mm length (300mm underground)
- curved pipe is 50mm with a 2mm thickness
- Vertical pipe is polyester powder coat finish (RAL colour to be confirmed)



Proposed Bollard



Proposed Cycle Stand



Exemplar Entrance Signage



Exemplar Interpretative Signage



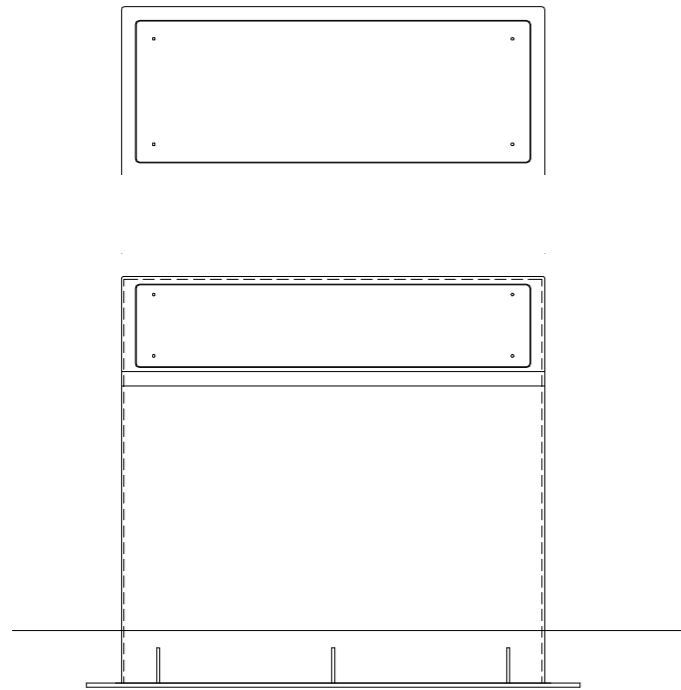
Exemplar Display Board

the paulhogarth company
 TRINITY WHARF - STREET FURNITURE
 SK12 PROPOSED SIGNAGE

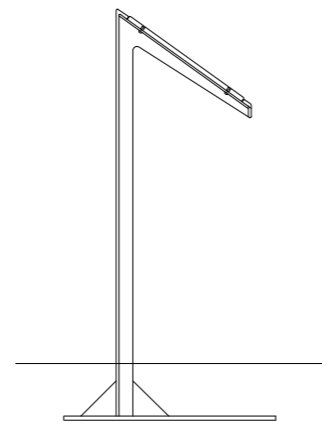
SIGNAGE _ ORIENTATION AND INTERPRETATION

- Interpretation Signage**
 -Galvanised Steel Base Painted (RAL Colour / Finish to be confirmed)
 -Interpretation Content (displayed on printed board)
 -Fixed with Baseplate or Root Mounted in foundation

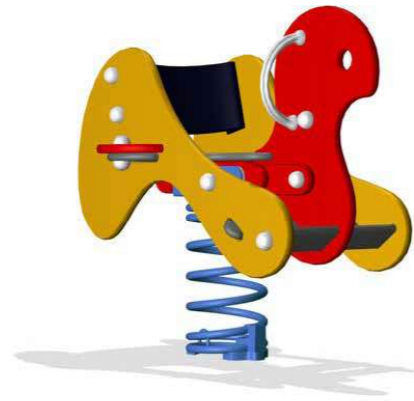
- Orientation Signage**
 -Galvanised Main Steel Base Painted (RAL Colour / Finish to be confirmed)
 -Orientation Fins and Graphics (displayed on printed board)
 -Fixed with Baseplate or Root Mounted in foundation



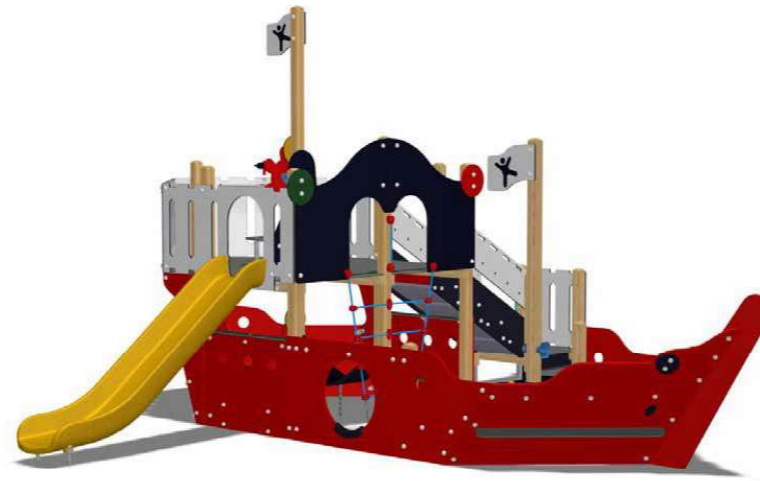
Exemplar Interpretation Signage



Exemplar Orientation Signage



Single Spring Rocker



Multi Play - Kompan Pirate Ship

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TRINITY WHARF - STREET FURNITURE
SK14 PROPOSED PLAY EQUIPMENT

PROPOSED PLAY EQUIPMENT

- Spring Rocker
- Kompan Pirate Ship
- Double Swing and Basket Swing
- Embankment Slide
- Exemplar image of Wet Pout Safety Surfacing



Embankment Slide



Exemplar - Wet Pour



Exemplar Double Swing & Basket Swing

