

# **North Dublin Street and Backlands Regeneration Project**

Drawing Number DSN-MCA-ZZ-XX-DR-CE-1001-2.1-P01 **S2 - FOR INFORMATION** 





**Comhairle Contae Mhuineacháin** Monaghan County Council

Monaghan County Council

# An Bord Pleanála Planning Drawings **BOOK A2.1**

April 2025

Delap & Waller





Issue Date Description

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# **North Dublin Street & Backlands Regeneration Project**

# An Bord Pleanála Planning Drawings

## **Book A1.1** - Site Location and Existing / Proposed Layouts

DSN-MCA-ZZ-XX-DR-CE-1000-1.1	P01	Cover Sheet
DSN-MCA-ZZ-XX-DR-CE-1004	P02	Drawing Register
DSN-MCA-ZZ-XX-DR-CE-1005	P03	Site Location Plan
DSN-MCA-ZZ-XX-DR-CE-1006	P02	Site Notice Plan
DSN-MCA-ZZ-XX-DR-CE-1010	P01	Existing Site Layout Overview
DSN-MCA-ZZ-XX-DR-CE-1011	P01	Existing Site Layout Sheet 1
DSN-MCA-ZZ-XX-DR-CE-1012	P01	Existing Site Layout Sheet 2
DSN-MCA-ZZ-XX-DR-CE-1013	P01	Existing Site Layout Sheet 3
DSN-MCA-ZZ-XX-DR-CE-1014	P01	Existing Site Layout Sheet 4
DSN-MCA-ZZ-XX-DR-CE-1030	P01	Existing Drainage Plan
DBL-OPE-00-XX-DR-L-901300	-	Site Layout Site Overview
DSN-OPE-00-XX-DR-L-901301	Rev07	Site Layout Sheet 01
DSN-OPE-00-XX-DR-L-901302	Rev07	Site Layout Sheet 02
DSN-OPE-00-XX-DR-L-901303	Rev07	Site Layout Sheet 03
DSN-OPE-00-XX-DR-L-901304	Rev07	Site Layout Sheet 04
DSN-OPE-00-XX-DR-L-901306	Rev05	Illustrative Masterplan
DSN-MCA-ZZ-XX-DR-CE-1902	P02	Building and Wall Demolition Plan

# **Book A2.1** - Hard and Soft Landscaping

DSN-MCA-ZZ-XX-DR-CE-1001-2.1	P01	Cover Sheet
DSN-MCA-ZZ-XX-DR-CE-1004	P02	Drawing Register
DSN-OPE-00-XX-DR-L-901204	Rev03	Illustrative Sections
DSN-OPE-00-XX-DR-L-901205	Rev02	Illustrative Sections
DSN-OPE-ZZ-XX-DR-L-901101	Rev02	Details - Surfacing
DSN-OPE-ZZ-XX-DR-L-902102	Rev02	Details - Steps and Furniture
DSN-OPE-ZZ-XX-DR-L-902103	Rev02	Details - Furniture
DSN-OPE-ZZ-XX-DR-L-902104	Rev01	Details - Furniture
DSN-OPE-ZZ-XX-DR-L-902105	Rev01	Details - Boundary Treatments
DSN-OPE-ZZ-XX-DR-L-902201	Rev01	Details - Soft Landscape Planting 01
DSN-OPE-ZZ-XX-DR-L-902202	Rev02	Details - Soft Landscape Planting 02
DSN-OPE-ZZ-XX-DR-L-902203	Rev02	Details - Soft Landscape Planting 03



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# Monaghan County Council

April 2025

# **Drawing Register**

# Book A2.2 - Roads & Drainage

DSN-MCA-ZZ-XX-DR-CE-1002-2.2	P01	Cover Sheet
DSN-MCA-ZZ-XX-DR-CE-1004	P02	Drawing Register
DSN-MCA-ZZ-XX-DR-CE-1100	P03	Civil Layout and Levels Overview
DSN-MCA-ZZ-XX-DR-CE-1101	P03	Civil Layout and Levels - Sheet 1
DSN-MCA-ZZ-XX-DR-CE-1102	P03	Civil Layout and Levels - Sheet 2
DSN-MCA-ZZ-XX-DR-CE-1103	P03	Civil Layout and Levels - Sheet 3
DSN-MCA-ZZ-XX-DR-CE-1104	P03	Civil Layout and Levels - Sheet 4
DSN-MCA-ZZ-XX-DR-CE-1501	P03	Proposed Whitelining & Road Signs - Sheet 1
DSN-MCA-ZZ-XX-DR-CE-1502	P03	Proposed Whitelining & Road Signs - Sheet 2
DSN-MCA-ZZ-XX-DR-CE-1503	P03	Proposed Whitelining & Road Signs - Sheet 3
DSN-MCA-ZZ-XX-DR-CE-1504	P03	Proposed Whitelining & Road Signs - Sheet 4
DSN-MCA-ZZ-XX-DR-CE-1511	P03	Proposed Road Visibility Plan
DBRN-MCA-ZZ-XX-DR-CE-1711	P02	Proposed Vehicle Tracking - Fire Tender
DBRN-MCA-ZZ-XX-DR-CE-1712	P02	Proposed Vehicle Tracking - Refuse Vehicle
DBRN-MCA-ZZ-XX-DR-CE-1713	P02	Proposed Vehicle Tracking - Bus
DBRN-MCA-ZZ-XX-DR-CE-1714	P02	Proposed Vehicle Tracking - Articulated Lorry
DSN-MCA-ZZ-XX-DR-CE-2001	P03	Proposed Drainage Plans - Sheet 1
DSN-MCA-ZZ-XX-DR-CE-2002	P03	Proposed Drainage Plans - Sheet 2
DSN-MCA-ZZ-XX-DR-CE-2003	P03	Proposed Drainage Plans - Sheet 3
DSN-MCA-ZZ-XX-DR-CE-2004	P03	Proposed Drainage Plans - Sheet 4
22268-DLW-XX-XX-XX-E-00100	P05	Electrical Site Lighting
22268-DLW-XX-XX-XX-E-00101	P03	Electrical Site Lighting - Results
22268-DLW-XX-XX-XX-E-00200	P05	Electrical Site Services
22268-DLW-XX-XX-XX-E-00300	P04	CCTV Proposal
22268-DLW-XX-XX-XX-E-00400	P04	Diversions
22268-DLW-XX-XX-DR-E-00500	P04	ESB Substation
DSN-MCA-ZZ-XX-DR-CE-1706	P02	Proposed Contractor's Compound Plan

# **Book A2.3** - Elevations and Sections

DSN-MCA-ZZ-XX-DR-CE-1003-2.3 P01 P02 DSN-MCA-ZZ-XX-DR-CE-1004 DSN-MCA-ZZ-XX-DR-CE-1810 P02 DSN-MCA-ZZ-XX-DR-CE-1811 P02 P02 DSN-MCA-ZZ-XX-DR-CE-1812 DSN-MCA-ZZ-XX-DR-CE-1813 P02 P02 DSN-MCA-ZZ-XX-DR-CE-1814 P02 DSN-MCA-ZZ-XX-DR-CE-1815 P02 DSN-MCA-ZZ-XX-DR-CE-1816 P02 DSN-MCA-ZZ-XX-DR-CE-1820 DSN-MCA-ZZ-XX-DR-CE-1821 P02 DSN-MCA-ZZ-XX-DR-CE-1822 P02 DSN-MCA-ZZ-XX-DR-CE-1823 P02 DSN-MCA-ZZ-XX-DR-CE-1830 P02 DSN-MCA-ZZ-XX-DR-CE-1831 P02 DSN-MCA-ZZ-XX-DR-CE-1832 P02 P02 DSN-MCA-ZZ-XX-DR-CE-1833 DSN-MCA-ZZ-XX-DR-CE-1834 P02 DSN-MCA-ZZ-XX-DR-CE-1835 P02 DSN-MCA-ZZ-XX-DR-CE-1836 P02 DSN-MCA-ZZ-XX-DR-CE-1840 P02 DSN-MCA-ZZ-XX-DR-CE-1841 P02 DSN-MCA-ZZ-XX-DR-CE-1842 P02 DSN-MCA-ZZ-XX-DR-CE-1843 P02

# Delap & Waller

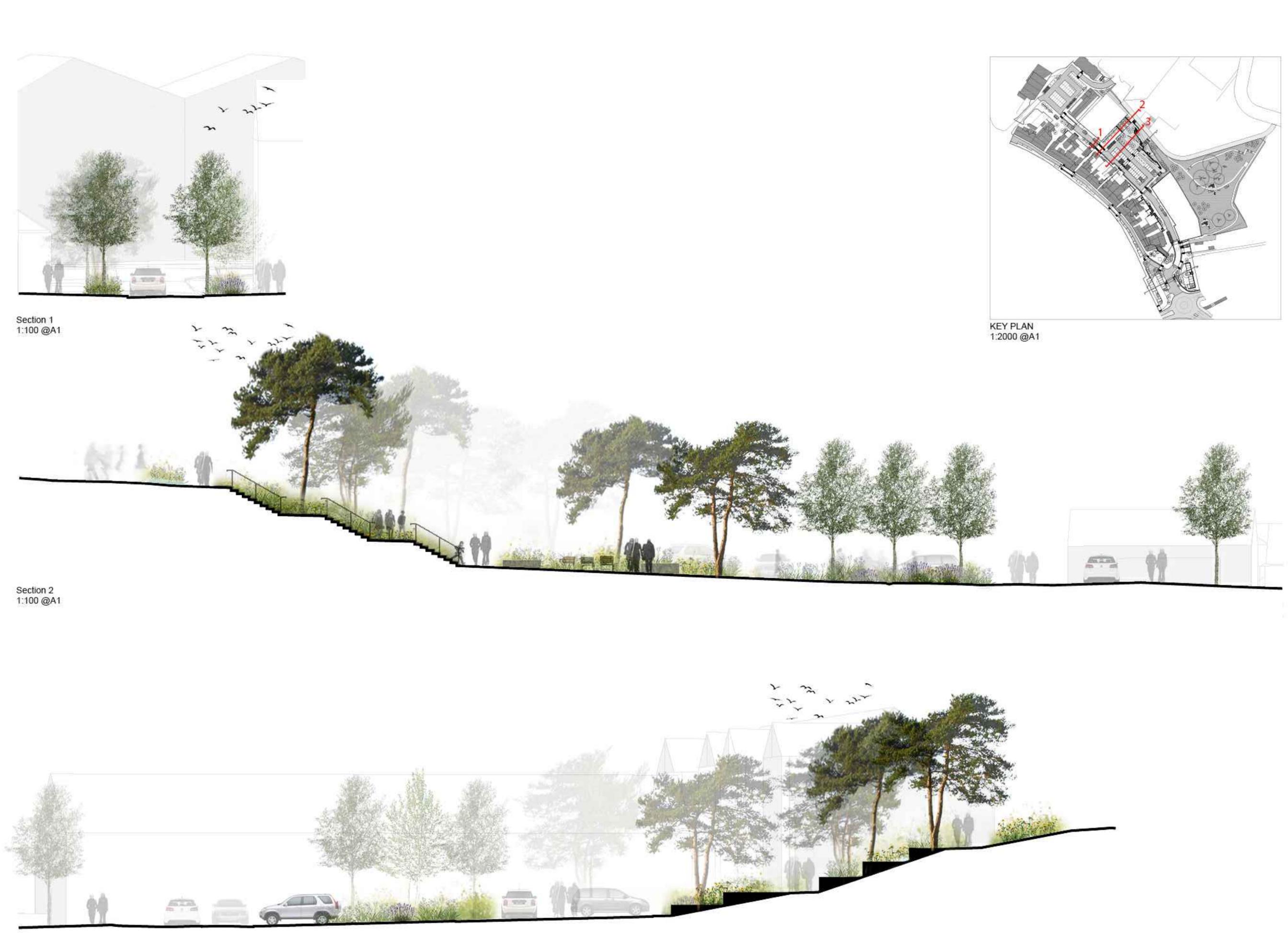




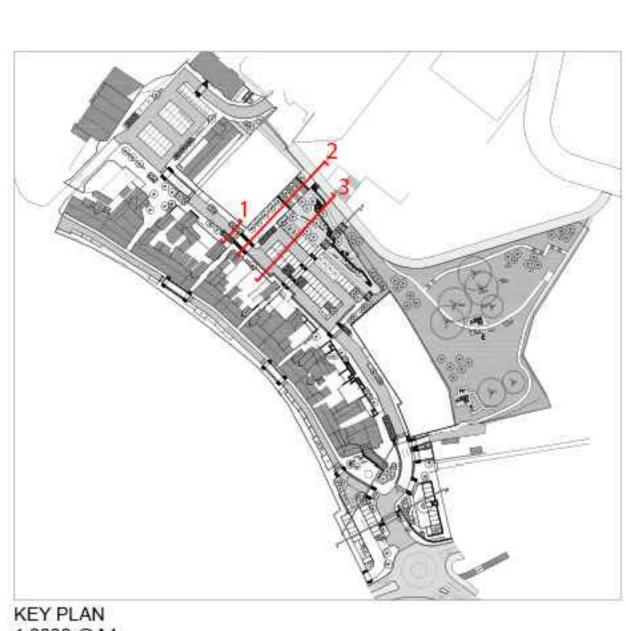
1	Cover Sheet
2	Drawing Register
2	Russell Row Boundary Proposals Overview Plan 1
2	Russell Row Boundary Proposals Sheet 1
2	Russell Row Boundary Proposals Sheet 2
2	Russell Row Boundary Proposals Sheet 3
2	Russell Row Boundary Proposals Sheet 4
2	Russell Row Boundary Proposals Sheet 5
2	Russell Row Boundary Proposals Sheet 6
2	Russell Row Boundary Proposals Overview Plan 2
2	Russell Row Boundary Proposals Sheet 7
2	Russell Row Boundary Proposals Sheet 8
2	Russell Row Boundary Proposals Sheet 9
2	Russell Row Boundary Proposals Overview Plan 3
2	Russell Row Boundary Proposals Sheet 10
2	Russell Row Boundary Proposals Sheet 11
2	Russell Row Boundary Proposals Sheet 12
2	Russell Row Boundary Proposals Sheet 13
2	Russell Row Boundary Proposals Sheet 14
2	Russell Row Boundary Proposals Sheet 15
2	Russell Row Boundary Proposals Overview Plan 4
2	Russell Row Boundary Proposals Sheet 16
2	Russell Row Boundary Proposals Sheet 17
2	Russell Row Boundary Proposals Sheet 18

P02 07.04.25 Updated for planning issue DSA Issue Date Description Rev App

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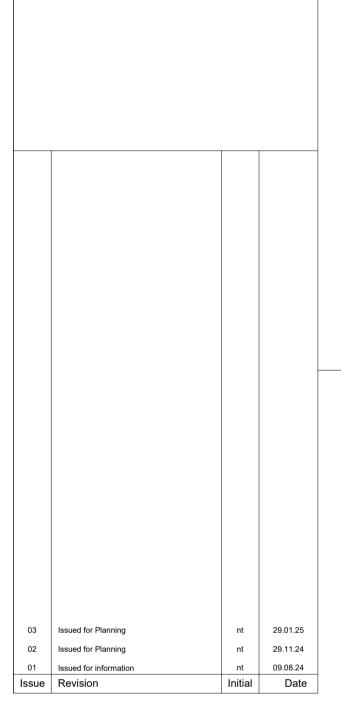
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CDM INFORMATION

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KEY PLAN



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Monaghan County Council

Project

Client

Dublin Street North

Monaghan

Drawing Title

Illustrative Sections

Scale Bar					North
2m	4m	6m	8m	10m	
Scale:	1:100@A	1	Date:	AUGU	ST 2024
By:	NT		Status:	PLAN	NING
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KEY PLAN		
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01 Issued for Planning	Initial	Date

NOTES

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#### Client Monaghan County Council

Project

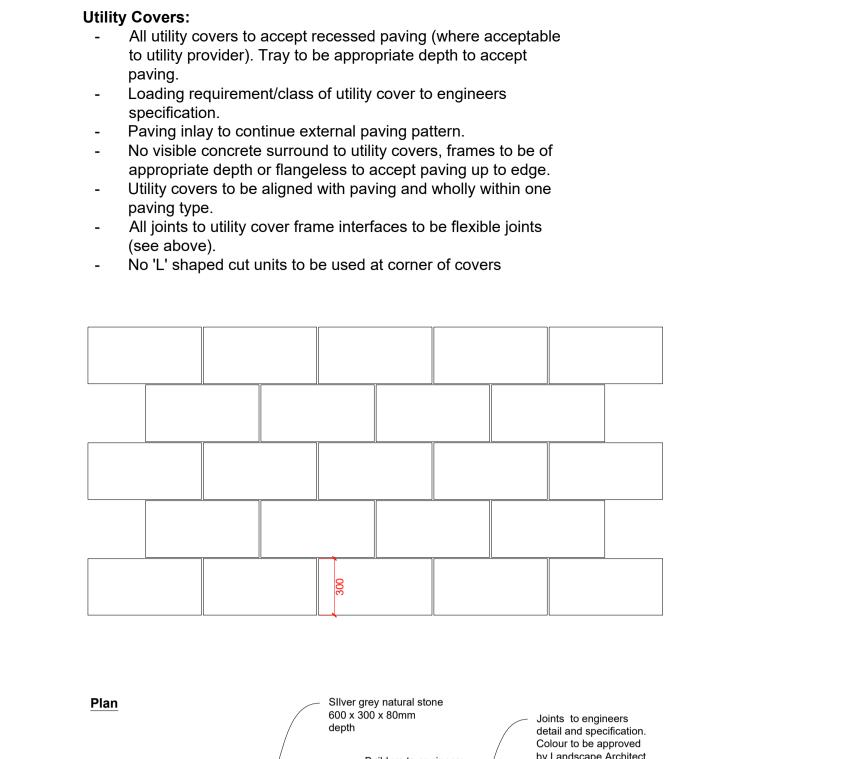
#### **Dublin Street North**

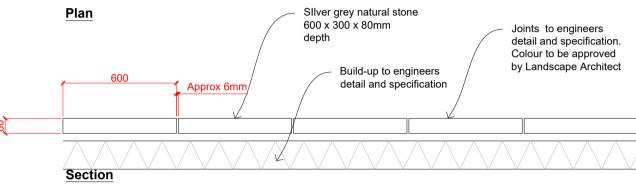
Monaghan

#### Drawing Title

**Illustrative Sections** 

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By:	NT		Status:	PLAN	INING
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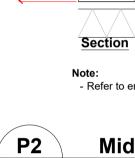


Note - Refer to engineers specification for further detail

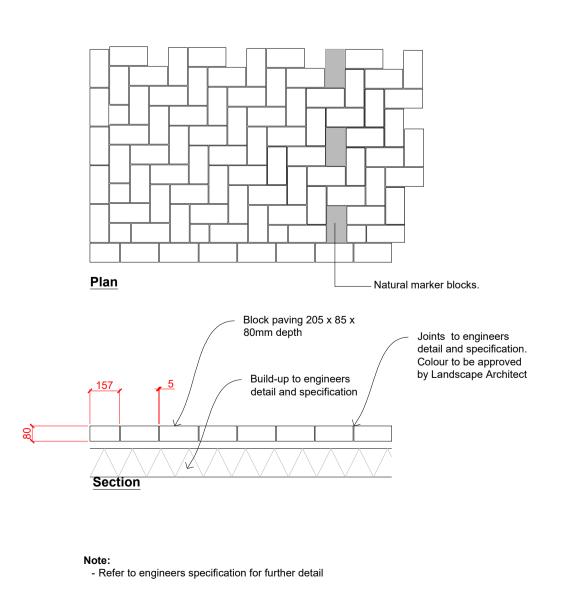


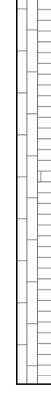
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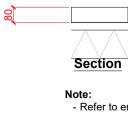
### Silver grey natural stone paving to match existing within the Diamond Scale: 1 : 20



sheet D01



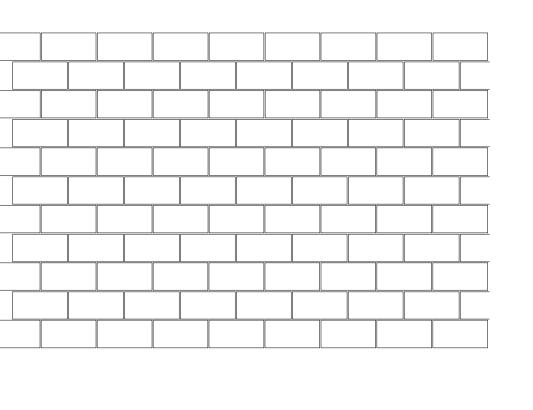


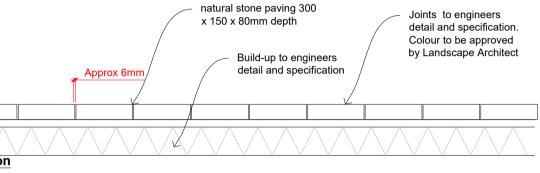


P5 sheet D01



'Aqua' Flow Block paving to Car Park Entrances Scale: 1 : 20

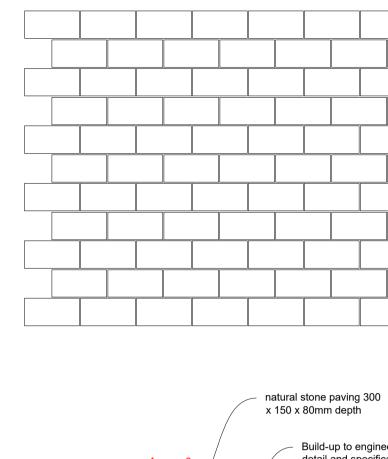


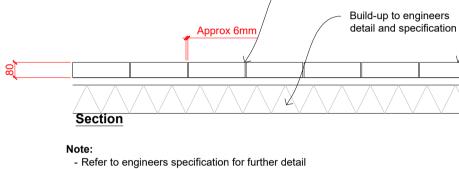


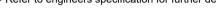
- Refer to engineers specification for further detail

### Mid Grey Natural stone paving

Scale: 1 : 20

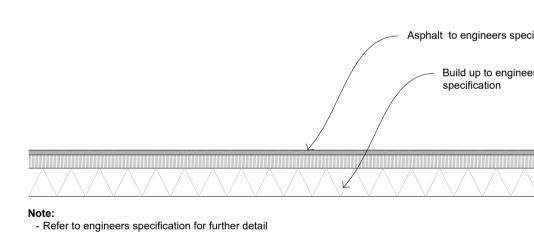


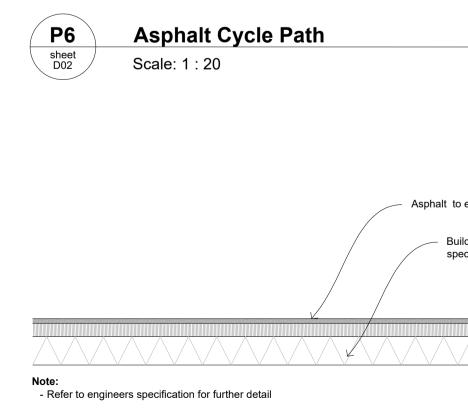




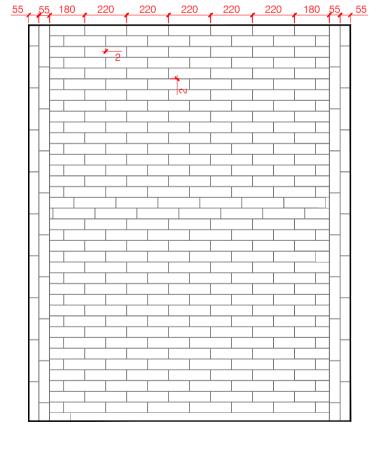


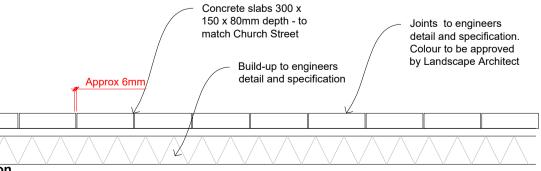
Precast Paving Units to Footways Scale: 1 : 20





**P7** Asphalt sheet D02 Scale: 1 : 20





- Refer to engineers specification for further detail

# **Precast Paving Units to Central Gardens**

Scale: 1 : 20

	KEY PLAN
Joints to engineers detail and specification. Colour to be approved by Landscape Architect	
ecification	
eers	02Issued for planningnt29.01.2501Issued for planningnt29.11.24
	-         First Issue - Issued for information         nt         09.08.24           Issue         Revision         Initial         Date
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	Client Monaghan County Council
	Project
ecification	Dublin Street North
pers	Monaghan
	Drawing Title DETAILS
	SURFACING
	Scale Bar 0.2m 0.4m 0.6m 0.8m 1.0m
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	Scale Bar         0.2m       0.4m       0.6m       0.8m       1.0m         Scale:       1:20@A1       Date:       AUGUST 2024         By:       bs       Status:       PLANNING         Checked:       nt       Approved:       bp
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- Survey information is based upon aspect surveyors Topographical as Survey.

#### Build up to enginee specification

Asphalt to engineers speci

Build up to enginee specification

#### P13 Tactile paving to uncontrolled crossings:

Material: Granite. Colour: Black or to contrast with adjacent surfaces Pattern: Blister surface pattern as appropriate, to manufacturer's guidance.

#### P14 Corduroy tactile paving to cycle lanes:

Material: Granite. Colour: Black or to contrast with adjacent surfaces Pattern: Hazard/corduroy surface pattern as appropriate, to manufacturer's guidance.

#### P15 Corduroy Tactile Paving to Steps

Material: Granite. Pattern: Guidance surface pattern as appropriate, to manufacturer's guidance. Colour: Black or to contrast with adjacent surfaces

#### P16 Tactile Guidance Paving to Pedestrian Areas

Material: Granite Pattern: Cycleway surface pattern as appropriate, to manufacturer's guidance. Colour: Black or to contrast with adjacent surfaces

Unit Size: 400mm wide x 400mm length. 5mm.

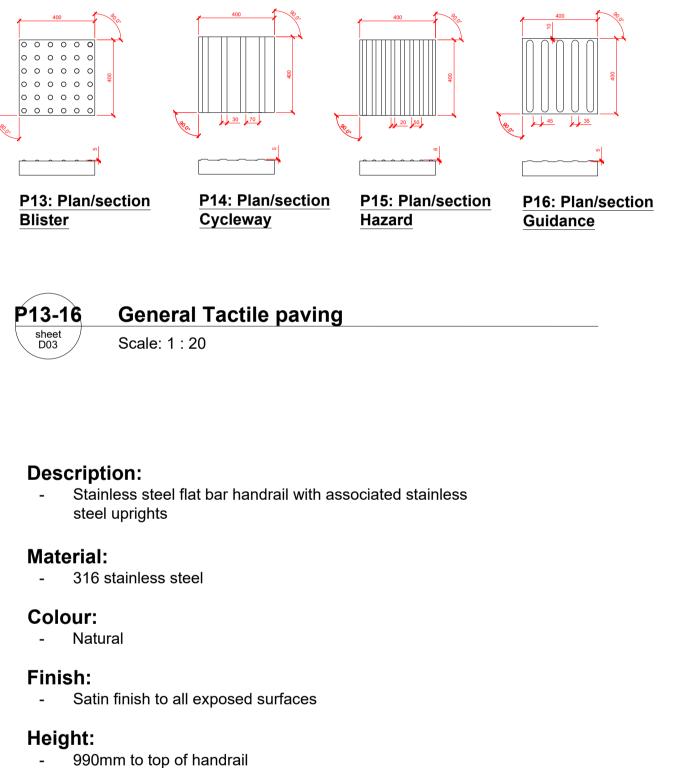
Joints:

Thickness: 75mm (to be confirmed by engineer). Refer to engineer's specification and details. Build up:

#### Laying Notes:

To be set out in accordance with BS EN 1338: 2003 1. 2. No service covers or drainage gulleys to be located within areas of tactile.

#### NB. To be read in conjunction with General Paving Notes.



#### Loading:

- Loading provide horizontal uniformly distributed line load of 3kN/m and be in accordance with BS 6399-1and BS 6180. To contractor's design.

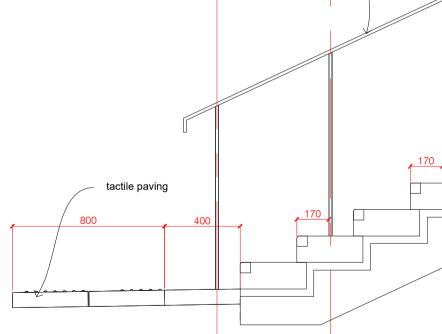
#### Sizes

- Uprights : Notionally 85mm x 16mm flat bar posts set
- plumb. Centres no greater than 1.2m. - Handrail: Notionally 85mm wide x 16mm thick Stainless
- steel flat bar welded to uprights
- Uprights to be corecut through paving/step units (Refer to engineers details for further information)
- Note; sizes to be confirmed by contractor

#### Build up and foundation:

- To engineer's detail and specification

NOTE: SHOP DRAWINGS FOR ALL METALWORK MUST BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLACING ORDER.



600

600



# Stainless Steel handrail to S1 & S2 steps

Typical Section

#### **Description:**

- Natural stone solid step units

# Material:

- Precast concrete with natural aggregate finish

### Colour:

Mid Grey

#### Unit Size:

Notionally Length 1000mm, Riser 140mm, tread 400mm -

#### Joints:

- 2mm void between adjacent step units. - 5mm joints between each rise.

### Front edge:

#### - 10mm pencil edge

#### Visibility strips:

- 55mm Charcoal grey visibility strips on tread and riser to contrast with adjacent riser material.

#### Laying:

- Steps to be laid in lengths between 472mm 1000mm refer to the typical laying plan below. Overlap between units in adjacent rises to be min. 150mm.
- Overlap of units along vertical step run 100mm

#### Build up and foundation:

#### - To engineer's detail and specification

#### Sample:

- Laying as part of a 5m x 5m sample to be approved prior to laying permanent areas.

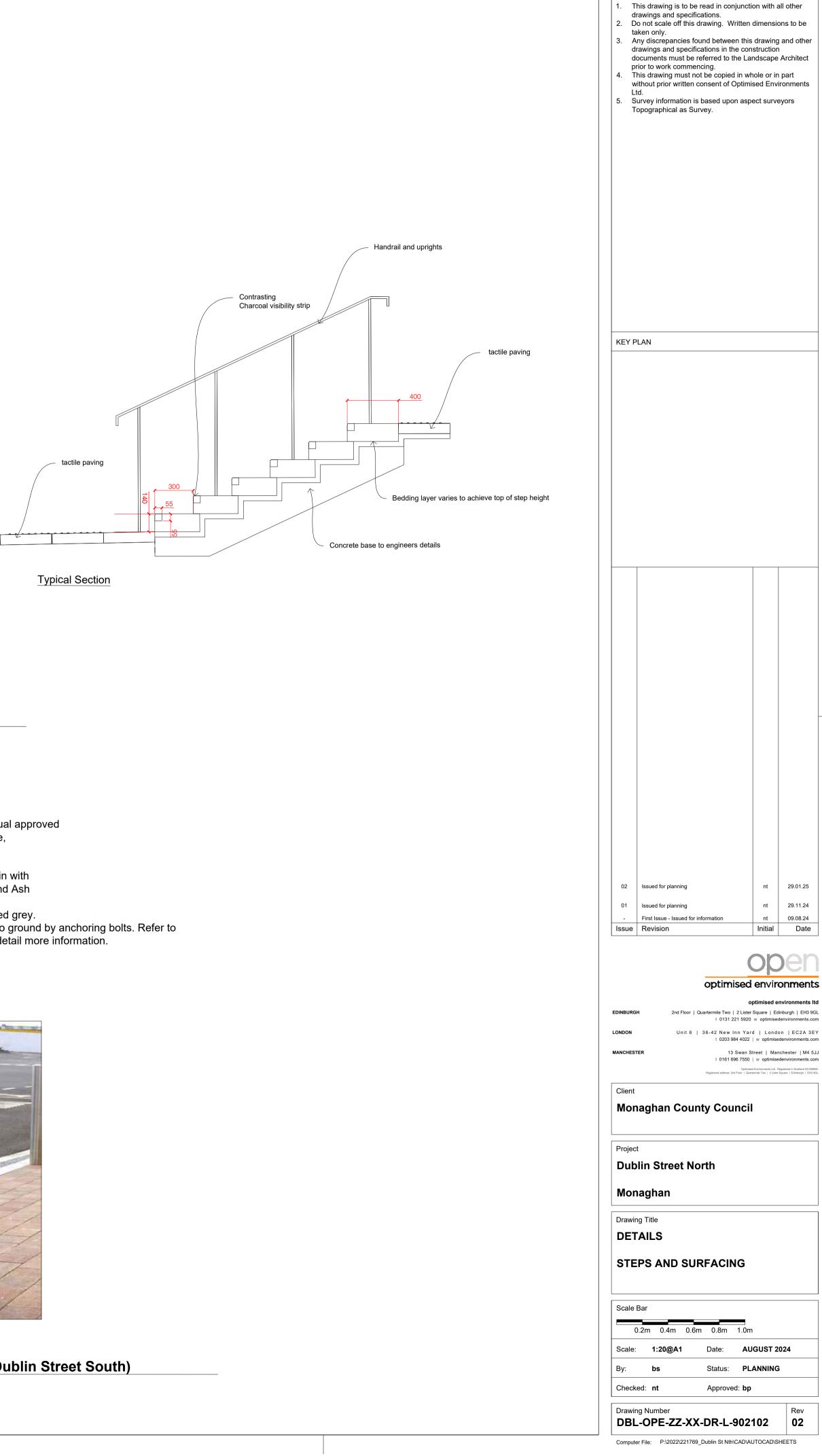
#### Utility covers:

- No utility covers to foul step runs.

#### Note

#### **Flexible Joints**

- Flexible joints with compressible filler board and flexible joint
- sealant are to used where the Steps interfaces with the following;
- Surface material interfaces. -Interfaces with W1 Seating wall -

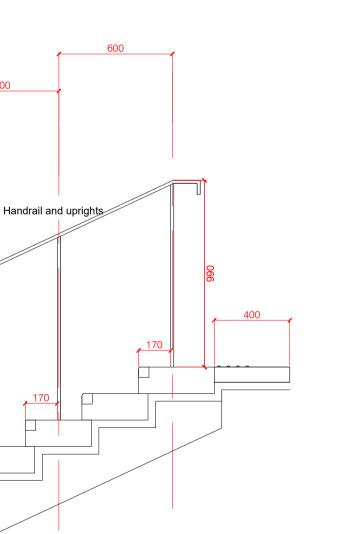


NOTES



# S1 & S2 Step Units

Scale: 1 : 20



Supplier:

Model:

Finish:

Fixing:

Hartecast or equal approved City View House, Manchester W12 4JD HC2055 Litter bin with Stubber Plate and Ash Hopper Cast Iron, painted grey. Base attached to ground by anchoring bolts. Refer to manufacturers detail more information.





#### **Bin (To match Dublin Street South)** Scale: 1:20

#### Description:

- Raised metal planter edging with integrated benches.

# Supplier:

- Logic Bespoke [www.logic-bespoke.com]

#### Model:

'Stapel' raised planter edging (600mm height), using Velox foundation-free fixing system.

Seating: Integrated 'Squared' seating by Velox

#### **Dimensions:** Varies refer to GA's

#### Materials:

- Planter edging: Mild Steel

#### Finish:

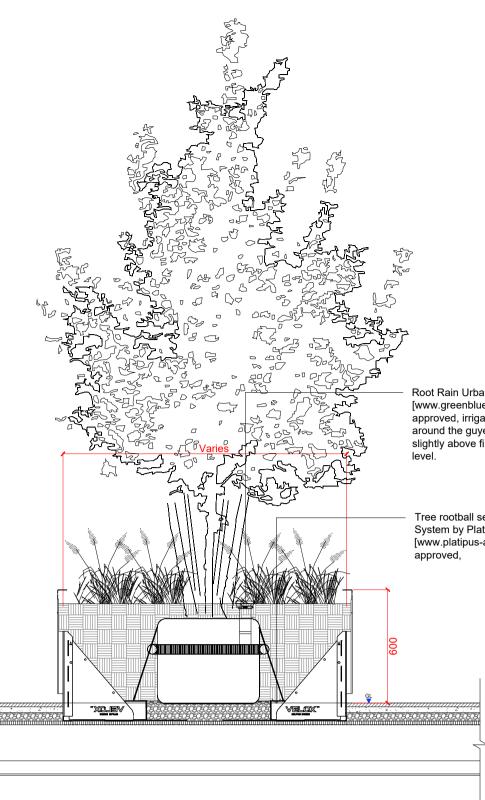
Planter edging: Galvanised and powder coated [COLOUR TBC]

#### Form:

- Shadow gap to base of edging.
- Stuctural support fins to be included at appropriate centers to support planter.

#### Shop Drawings:

- These drawings represent design intent. All metalwork should be prefabricated off site. Shop drawings to be provided for landscape architect approval prior to order and fabrication. Shop drawings must verify structural viability of design.



Typical section tee planting

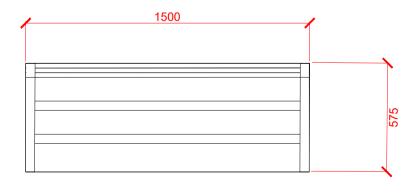


### **Raised Planter**

Scale: 1:20

ι.	Public Spaces or Equal approved Jnit 1a Southern Cross Business Park Bray, Wicklow, Ireland
Tel:	+353 1 2864995/6
Free UK. No.	: 0808 1011590
Email:	sales@publicspaces.eu
Product:	DAE Montseny double bench (or equal approved)
Dimensions:	1500mm wide x 575mm deep x 830mm high
Materials:	FSC® Certified Tropical Wood and oil-treated.
	Cast aluminium oven-coated in Forge Black.
	Fastening screws made of stainless steel.
Slats:	EFSC <sup>®</sup> Certified Tropical Wood.
	Finger jointed according to EN 408.
	Size: 90mm x 30mm slats
	One-coat oil finish
Frame:	Steel
Finish:	Frame Powder coated Graphite grey, RAL7024
Fixing:	Anchored to ground with blind anchor bolts.
	Fixing to manufacturer's specification.

Foundation: Refer to manufacturer's specification.





Linear Bench

Scale: 1:20



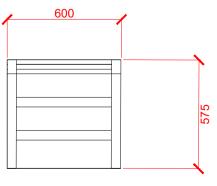
Example

Root Rain Urban by Green Blue Urban [www.greenblue.com] or similar and approved, irrigation/aeration system installed around the guyed rootball. Ensure inlet is slightly above finished surrounding ground

Tree rootball secured with Rootball Fixing System by Platipus [www.platipus-anchors.com] or similar and Squared integrated seating

Typical planter elevation with squared integrated seating

Public Spaces or Equal approved Supplier: Unit 1a Southern Cross Business Park Bray, Wicklow, Ireland Tel: +353 1 2864995/6 Free UK. No. : 0808 1011590 Email: sales@publicspaces.eu Product: DAE Montseny chair (or equal approved) Dimensions: 600mm wide x 575mm deep x 830mm high Materials: FSC® Certified Tropical Wood and oil-treated Cast aluminium oven-coated in Forge Black Fastening screws made of stainless steel. EFSC® Certified Tropical Wood. Slats: Finger jointed according to EN 408. Size: 90mm x 30mm slats One-coat oil finish Frame: Steel Finish: Frame Powder coated Graphite grey, RAL 7024 Anchored to ground with blind anchor bolts. Fixing to Fixing: manufacturer's specification. Foundation: Refer to manufacturer's specification.

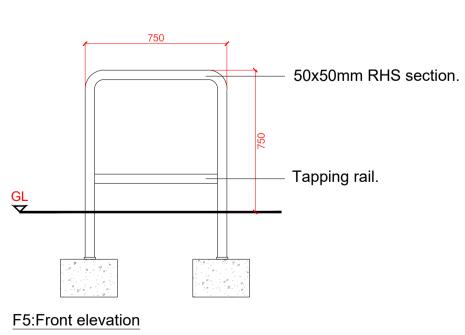




Material: 316 stainless steel Non-directional Satin polished finish Finish: Unit size: 750mm wide x 750mm tall. Refer to engineer's information. Fixing: Build up: Refer to engineer's information. Sample: 1no.

#### Note:

1. Paving to be core cut to accept stand. 2. Tapping rail and contrasting strips to be included.





F5 Cycle Stand Scale: 1:20



**F**4

sheet DT03

NOTI			
1.	This drawing is to be read in conjuncti	on with a	all other
2. I	drawings and specifications. Do not scale off this drawing. Written taken only.	dimensio	ons to be
3.	Any discrepancies found between this drawings and specifications in the con	struction	ı
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Drawing Title DETAILS

FURNITURE

Scale Bar 0.2m 0.4m 0.6m 0.8m 1.0m Date: AUGUST 2024 Scale: 1:20@A1 Status: PLANNING By: bs Checked: nt Approved: bp Drawing Number Rev DBL-OPE-ZZ-XX-DR-L-902103 02

Material: Stainless steel frame with composite wood panels **Finish:** Powder Coated RAL 7012 Basalt Grey **Dimensions:** L 204cm W 40cm H 45cm Solar Panel: 90W Battery: 12v 55Ah Features:

- 2no USB ports (power per port 5v)
  2no wireless charging
- LED light strip in cool white
- Bluetooth speaker 5/12v
  Wi-fi 4G international router





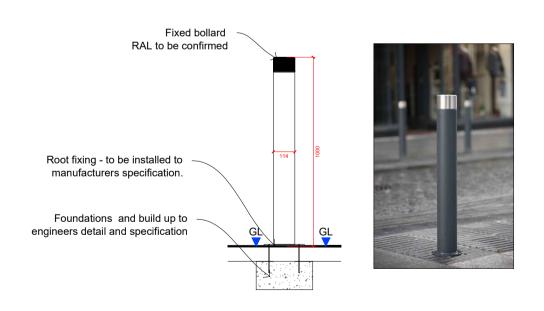
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Solar Bench Scale: 1:20

**Description:** Brushed 316 grade stainless steel top, radially polished. Galvanized mild steel lowe section with a powder coated finish.

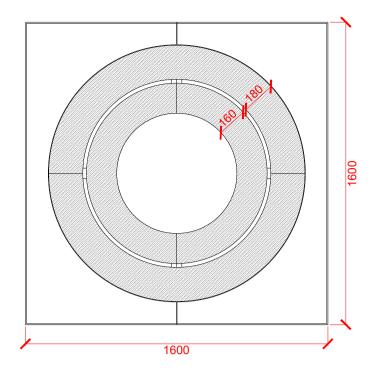
Dimensions: Lengths 1000mm, Diameter/Wall Thickness 114/3mm.

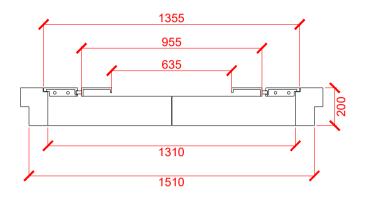
Colour: To be confirmed



**F11 Fixed Bollard** sheet Scale: 1 : 20

Supplier: - Escofet [www.escofet.com] or similar and approved Product: - Carmel 160 Marco Aros Size: - 1600x1600mm Material: - Precast Concrete Finish: - Etched and Waterproofed Colour: - Black







Tree Grille Scale: 1 : 20

Supplier: Zano Street Furniture Email: contact@zano1988.co.uk **Material:** Galvanised Steel **Finish:** Powder Coated RAL to be confirmed Dimensions: (W) 26cm, (H) 132cm, (D) 101cm



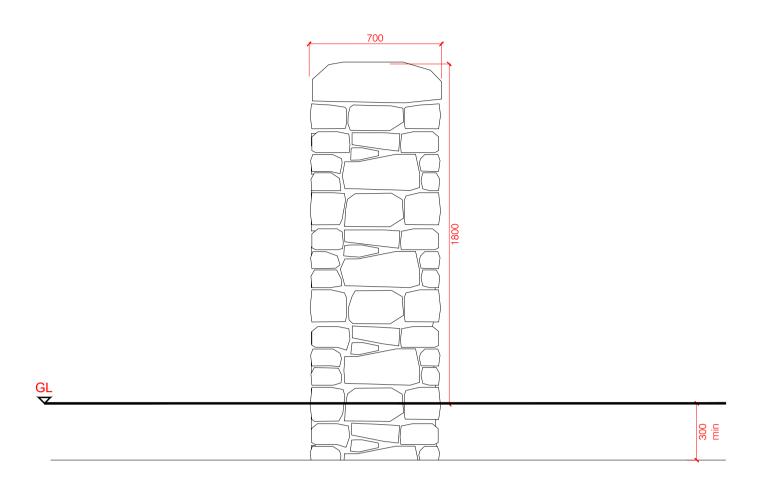


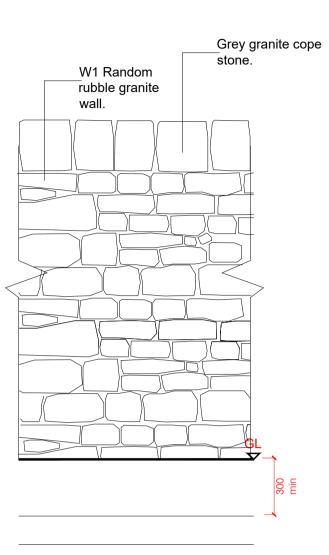
**Cycle Repair Station** Scale: 1 : 20

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Description:Random rubble mortared stone wall with cope stoneHeight:1800mmWidth:500mmJoints:MortaredStone:Material to be sourced from site won stone. Where additional material required stone to be matched

Foundation and Structural requirements: Refer to engineers details





Front Elevation

End Elevation



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### Mortared Stone Wall Scale: 1:20

00010. 1.20

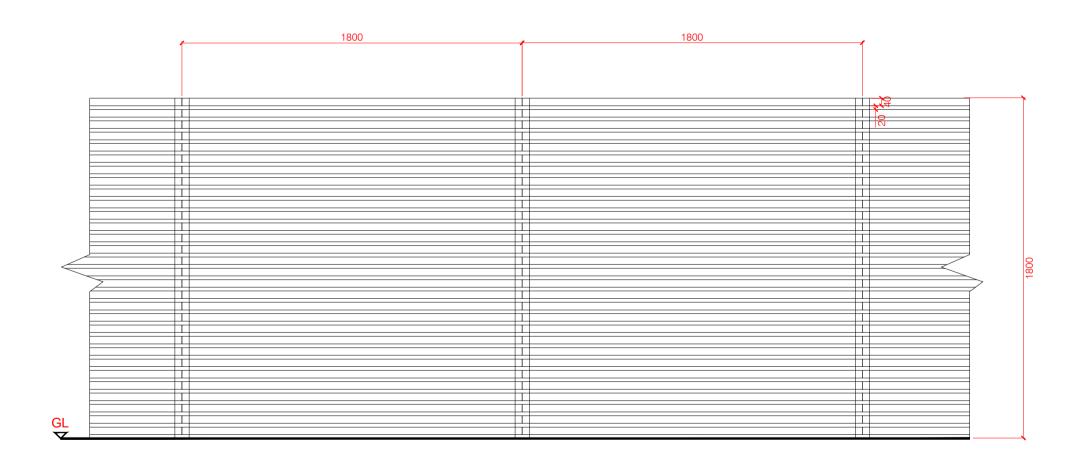
Description: contemporary timber fence to plot boundaries.

Material: Larch timber

**Dimensions:** 75 x 75 x 2500mm uprights @1800mm centres 40 x 25 **x 1750mm Battons** 

#### Colour: Natural Foundation

and Structural requirements: Refer to engineers details



Fe4 sheet

**Timber fence to plot boundaries** Scale: 1:20

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			PM1	- Planter Planting - Tree under planting	B		*		
Name		Details			Specification				
Co	ode Image	Species	Common Name	Notes	Ultimate height / spread (m)	Ecological Value	Pot size	Planting Density	% Mix
Evergre	een Grasses/ferns (40%	)		1		·····			
Ble		Blechnum spicant	Hard fern	Flowers: - Type: Tufted grass Foliage: Evergreen Conditions: Full or partial shade	Form: Clump forming H: 0.5 S: 0.45		2L pot	9 pots per m2	20
Luz	•	luzula nivea	Snowy woodrush	Flowers: Jun-Jul Type: Clumping grass Foliage: Evergreen Conditions: Full or partial shade	Form: Clump forming H: 0.6 S: 0.45		2L pot	9 pots per m2	20
Matrix/	/filler/ground cover pla	ints (60%)				·			
HeA	•	Helleborus argutifolius	Corsican hellebore	Flowers: Jan-Mar Type: Perennial Foliage: Evergreen Conditions: Partial shade, tolerates full sun	Form: Clump forming H: 0.9 S: 0.5	٩	2L pot	9 pots per m2	20
Lir	•	Liriope Muscari variagata	Lily turf	Flowers: Aug - Nov Type: Perennial Foliage: Evergreen Conditions: Full sun, partial shade	Form: Clump/spreading H: 0.3 S: 0.45	δ	2L pot	9 pots per m2	20
Ger	•	Geranium × oxonianu m 'Katherine Adele'	Cranesbill	Flowers: May-Oct Type: Perennial Foliage: Evergreen Conditions: Full sun or partial shade	Form: Clump/spreading H: 0.5 S: 0.35	٩	2L pot	9 pots per m2	20
Bulbs (b	bulbs to be planted acro	oss 40% of planting area)							
Gn	•	Galanthus nivalis	common snowdrop	Flowers: Winter Type: Perennial bulb Foliage: Deciduous Conditions: Partial Shade Note: Plant under decisuous trees	Form: Columnar H: 0.15 S: 0.1	٩	Planting depth: 100mm	50 bulbs per m2	33
Np	-	Narcissus 'Barrett Browning'	Small-Cupped Daffodil	Flowers: Winter / Early spring Type: Perennial bulb Foliage: Deciduous Conditions: Full sun or partial shade	Form: Narrow clump H: 0.35 S: 0.1		Planting depth: 100mm	50 bulbs per m2	33
Cro	•	Cyclamen hederifolium	Ivy leaved cyclamen	Flowers: Oct/Nov Type: Corm Foliage: Deciduous Conditions: Full sun or partial shade	Form: Clump H: 0.12 S: 0.15		Planting depth: 100mm	50 bulbs per m2	33



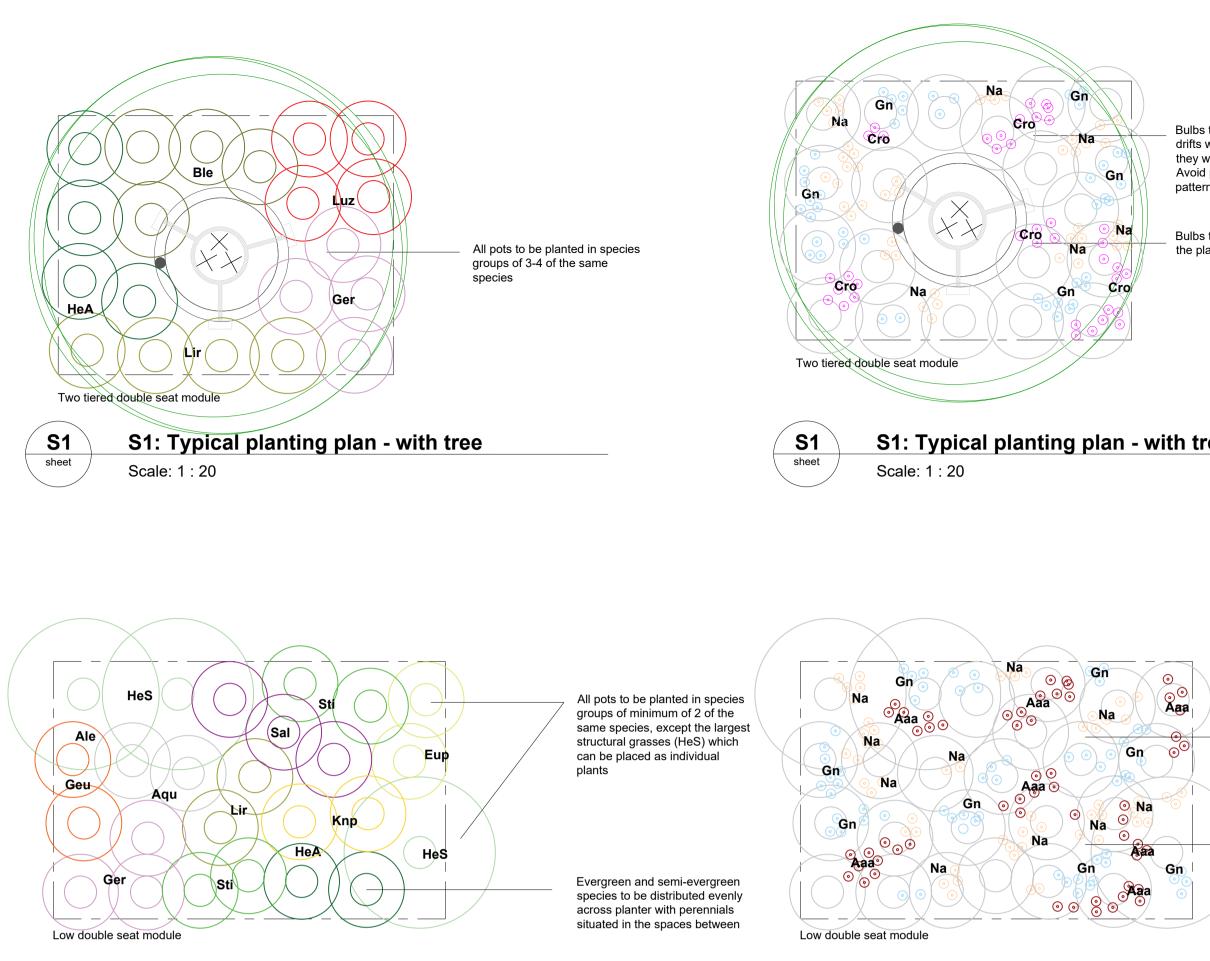
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**Shrub mix 01** Scale: 1 : 20

S2 - Planter Planting - Structural grasses and perennials Name Details							Specification			
C	ode	Image	Species	Common Name	Notes	Ultimate height /	Ecological	Pot size	Planting	% Mix
Struct	ural Gra	asses (20%)				spread (m)	Value		Density	
HeS	•		Helictotrichon sempervirens	Blue Oat Grass	Flowers: June - July Type: Evergreen grass Foliage: Evergreen Conditions: Full sun, tolerates light shade	Form: Tufted H: 1.4 S: 0.6	*	2L pot	4 pots per m2	10
Sti	•		Stipa tenuissima	Pony tails	Flowers: Jun-Sep Type: tufted Foliage: Semi-Evergreen Conditions: Full sun	Form: Clump forming H: 0.6 S: 0.3		2L pot	9 pots per m2	10
Matrix	x/filler/	ground cover plai	nts (40%)	y	Y		····	·		·
HeA	•		Helleborus argutifolius	Corsican hellebore	Flowers: Jan-Mar Type: Perennial Foliage: Evergreen Conditions: Partial shade, tolerates full sun	Form: Clump forming H: 0.9 S: 0.5	٩	2L pot	9 pots per m2	10
Lir	•		Liriope Muscari variagata	Lily turf	Flowers: Aug - Nov Type: Perennial Foliage: Evergreen Conditions: Full sun, partial shade	Form: Clump/spreading H: 0.3 S: 0.45		2L pot	9 pots per m2	10
Ger	•		Geranium × oxonianu m 'Katherine Adele'	Cranesbill	Flowers: May-Oct Type: Perennial Foliage: Evergreen Conditions: Full sun or partial shade	Form: Clump/spreading H: 0.5 S: 0.35	٤	2L pot	9 pots per m2	10
Eup	•		Euphorbia seguieriana subsp. Niciciana	Spurge	Flowers: May-Sep Type: Perennial Foliage: Semi-evergreen Conditions: Full sun	Form: Clump forming H: 0.5 S: 0.45	Insects and pollinators	2L pot	9 pots per m2	10
Flowe	ering pe	rennials / season	al interest (40%)	p				Y		
Aqu	•		Aquilegia vulgaris var. stellata 'White Barlow'	Columbine 'White Barlow'	Flowers: May-Jun Type: Perennial Foliage: Deciduous Conditions: Full sun or partial shade	Form: Upright H: 0.9 S: 0.45		2L pot	9 pots per m2	10
Sal	•		Salvia nemorosa 'Caradonna'	Balkan clary	Flowers: Jun - Oct Type: Perennial Foliage: Deciduous Conditions: Full sun or partial shade	Form: Clump forming H: 0.5 S: 0.3	٩	2L pot	9 pots per m2	10
Geu	•		Geum 'Princes Juliana'	Avens	Flowers: Jun - Oct Type: Perennial Foliage: Deciduous Conditions: Full sun	Form: Clump forming H: 0.5 S: 0.3	٩	2L pot	9 pots per m2	10
Knp	•	State	Kniphofia 'Bees Lemon'	Red hot poker	Flowers: Aug-Sep Type: Perennial Foliage: Deciduous Conditions: Full sun	Form: Clump forming H: 1 S: 0.6		2L pot	9 pots per m2	10
Bulbs	(bulbs t	to be planted acro	oss 40% of planting area)	) 	Flowers: Winter	1			1	
Gn	•		Galanthus nivalis	common snowdrop	Towers: Winter Type: perennial bulb Foliage: Deciduous Conditions: Partial Shade Note: Plant under decisuous trees	Form: Columnar H: 0.15 S: 0.1	٩	Planting depth: 100mm	50 bulbs per m2	33
Np	•		Narcissus 'Barrett Browning'	Small-Cupped Daffodil	Flowers: Winter / Early spring Type: perennial bulb Foliage: Deciduous Conditions: Full sun or partial shade	Form: Narrow clump H: 0.35 S: 0.1		Planting depth: 100mm	50 bulbs per m2	33
Aaa			Allium sphaerocephalon	Drumstick Allium	Flowers: Jul/Aug Type: Perennial bulb Foliage: Deciduous Conditions: Full sun Note: Plant away from shaded canopies	Form: Tuft H: 0.08 S: 0.9	٩	Planting depth: 100mm	50 bulbs per m2	33



**Shrub mix 2** Scale: 1 : 20





S2 sheet S2 sheet

Scale: 1 : 20

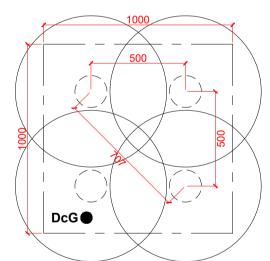
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	<ul><li>documents must be referred to the Landscape Archite prior to work commencing.</li><li>4. This drawing must not be copied in whole or in part</li></ul>	ci
	without prior written consent of Optimised Environmen Ltd.	ts
Bulbs to be organised in naturalistic Irifts with individual bulbs placed as hey would naturally land if thrown. Avoid planting in a strong grid like	5. Survey information is based upon aspect surveyors Topographical as Survey.	
attern. Bulbs to be planted across 40% of		
he planting areas		
tree &bulbs	KEY PLAN	
<ul> <li>Bulbs to be organised in naturalistic</li> <li>drifts with individual bulbs placed as</li> <li>they would naturally land if thrown.</li> </ul>		
Avoid planting in a strong grid like pattern.		
Bulbs to be planted across 40% of		
the planting areas		
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	Optimised Environments Ltd. Registered in Scotlan Registered address: 2nd Floor   Quartemile Two   2 Lister Square   Editology	d SC359690. n   EH3 9GL
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	Project Dublin Street North	
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	0.2m 0.4m 0.6m 0.8m 1.0m	
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	Checked: <b>nt</b> Approved: <b>bp</b>	
	Drawing Number Rev	
	DBL-OPE-ZZ-XX-DR-L-902201 01	

Name				Details			Specification		
Code	Image	<mark>S</mark> pecies	Common Name	Notes	Ultimate height / spread (m)	Ecological Value	Pot size	Planting Density	% Mix
Grasses	L			1					
Cac 🔵		Calamagrostis × acutiflora 'Karl Foerster'	feather reed grass 'Karl Foerster'	Flowers: Summer Type: Deciduous grass Foliage: Deciduous Conditions: Full sun or partial shade	Form: Tufted H: 1-1.5 S: 0.5-1		2L pot	4 pots per m2	10
DcG		Deschampsia cespitosa 'Goldtau'	Tufted hair grass	Flowers: Summer Type: Tufted grass Foliage: Evergreen Conditions: Full sun or partial shade	Form: Bushy H: 0.5 - 1 S: 0.5 - 1		2L pot	4 pots per m2	10
Lus 🔵		Luzula sylvatica	great wood-rush	Flowers: Summer Type: Tufted grass Foliage: Evergreen Conditions: Full sun to full shade	Form: Clump forming H: 0.8 S: 1-1.5		2L pot	4 pots per m2	10
Herbaceous	Perennials		1	A	1	·	r	····	
APR		Astilbe 'Purple Rain' PBR (×_arendsii_)	Chinese astilbe 'Purple Rain'	Flowers: Summer Type: Rhizomatous herbaceous perennials Foliage: Deciduous Conditions: Full sun or partial shade	Form: Vigorus Clump- forming H: 0.6 S: 0.1-0.5		2L pot	9 pots per m2	10
Soff		Stachys officinalis 'Hu mmelo'	betony 'Hummelo'	Flowers: Early-mid summer Type: Perennial Foliage: Semi-evergreen Conditions: Full sun or partial shade	Form: Clump forming H: 0.5-1 S: 0.1-0.5	Č,	2L pot	9 pots per m2	10
Pb 🛑	Spalwije.	Persicaria bistorta	common bistort	Flowers: June-September Type: Herbaceous perennial Foliage: Semi-evergreen Conditions: Full sun to partial shade	Form: Clump-forming H: 0.5-1 S: 0.5-1	٦	2L pot	9 pots per m2	10
HL 😑		Hemerocallis 'Lilioasp hodelus 'yellow daylily	yellow daylily	Flowers: Summer Type:Herbaceous perennial Foliage: Deciduous Conditions: Full sun	Form: Clump-forming H: 0.5-1 S: 0.5-1		2L pot	4 pots per m2	10
Groundcove	r	•		I					
EvS		Epimedium × versicolo r 'Sulphureum	barren wort 'Sulphureum'	Flowers: Spring Type: spreading perennial Foliage: Semi-evergreen Conditions: Full shade / partial shade	Form: Mat forming H: 0.35 S: 0.35		9cm pot	9 pots per m2	15
Pd		Phlox douglasii 'Booth man's Variety'	phlox 'Boothman's Variety'	Flowers: Late spring/summer Type: rhizomatous perennial Foliage: Evergreen Conditions: Full sun to partial shade	Form: Clump forming, trailing Columnar/upright H: 0.4 S: 0 .1-0.5		2L pot	4 pots per m2	15
Bulbs (bulbs	to be planted acro	oss 40% of the planting a	irea)	Y		·	·	Y	
Np		Narcissus papyraceus (13)	paper-white daffodil	Flowers: Winter / Early spring Type: perennial bulb Foliage: Deciduous Conditions: Full sun or partial shade	Form: Narrow clump H: 0.35 S: 0.1		Planting depth: 100mm	50 bulbs per m2	25
Aaa 🛑		Allium aflatunense ambig	Allium	Flowers: Late spring /early summer Type: perennial bulb Foliage: Deciduous Conditions: Full sun o partial shade	Form: Narrow clump H: 0.5-1 S: 0.1-0.5	٩	Planting depth: 150mm	25 bulbs per m2	25
CIA		Camassia leichtlinii 'Alba'	Californian white- flowered quamash	Flowers: Late spring Type: Bulbous perennial Foliage: Deciduous Conditions: Full sun / partial shade	Form: Upright H: 0.5 - 1m S: 0.1 - 0.5m		Planting depth: 80mm	25 bulbs per m <sup>2</sup>	25
Nsi 🛑		Nectaroscordum sicul um	Sicilian honey garlic	Flowers: Early summer Type: Bulb Foliage: Decidious Conditions: Full or partial shade	Form: Clump forming H: 0.2m S: 0.1	٩	Planting depth: 150mm	25 bulbs per m2	25



## S3 - Raingardens mix - Planting Specification

Scale: 1 : 20



1000

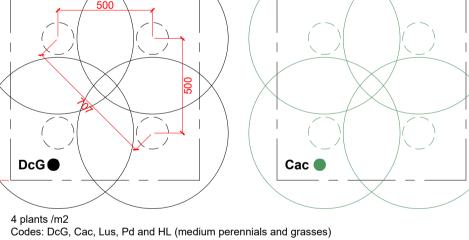
1000

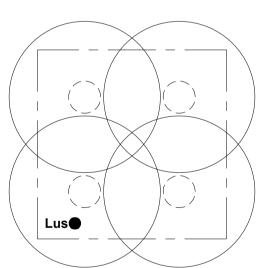
25 plants /m2 Codes:CIA, Aaa and Nsi (medium bulbs)

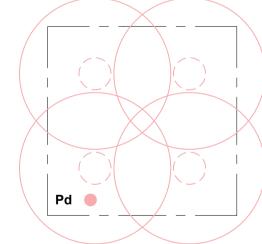
303

APR

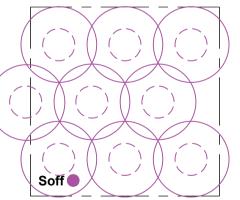
9 plants /m2



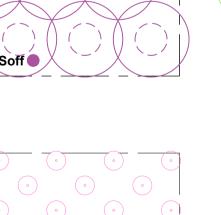


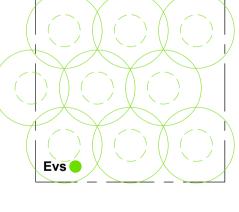


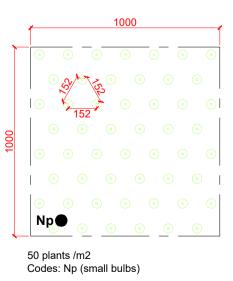
HL 🔴



Nsi









CIA

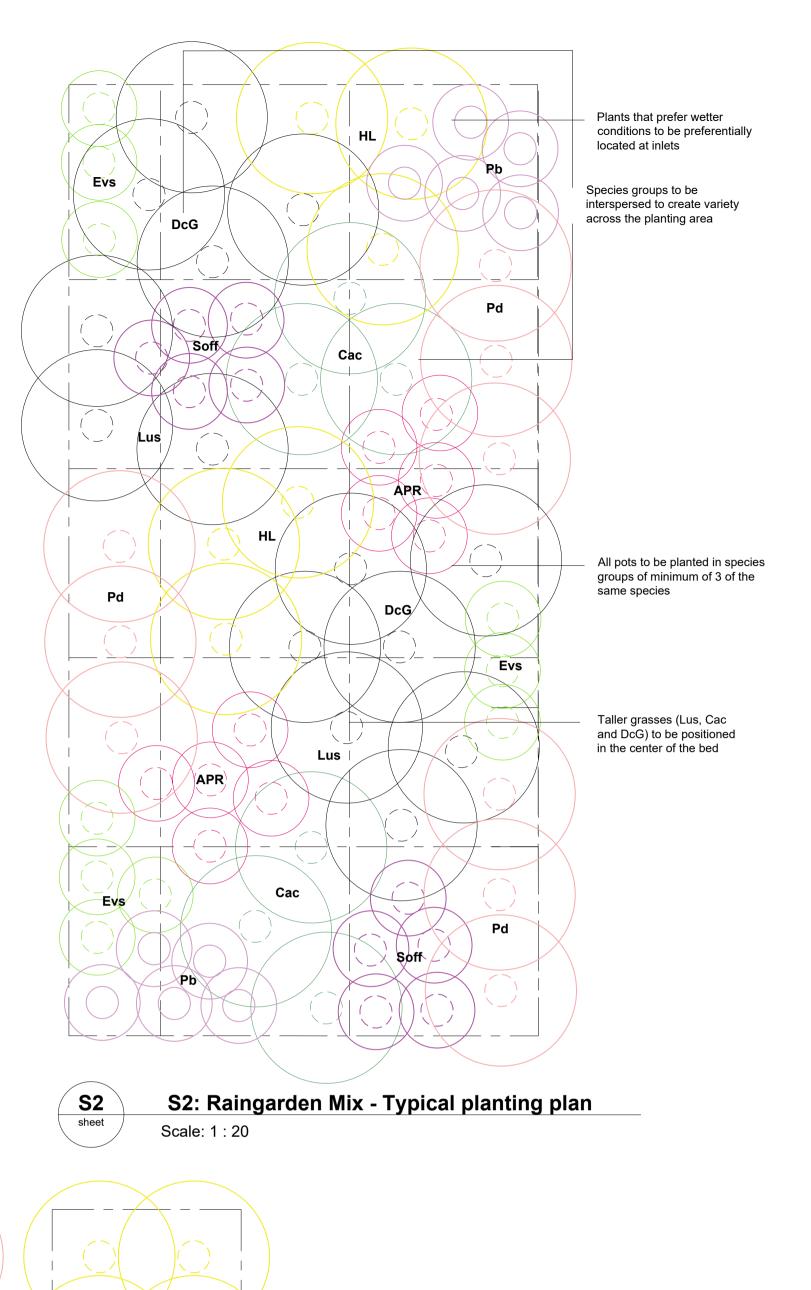
S2: Raingarden Mix - Planting Densities

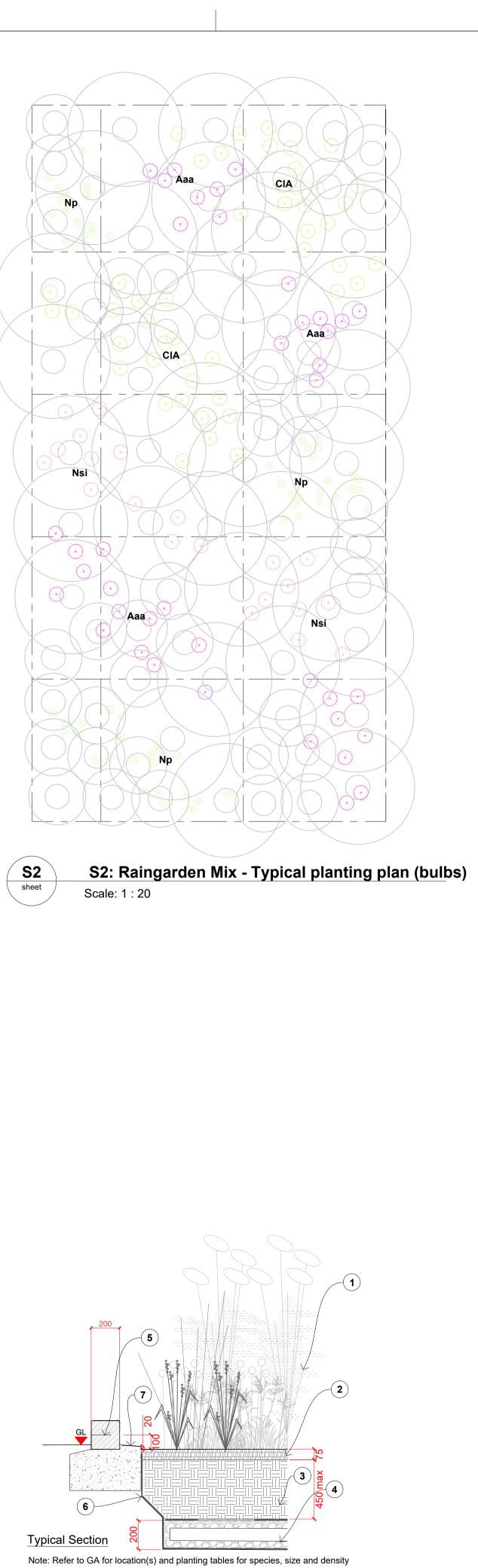
Aaa 🗧

Pb 🌑

Codes: APR, Pb, Soff and Evs (small perennials and ground covering plants)

Scale: 1 : 20



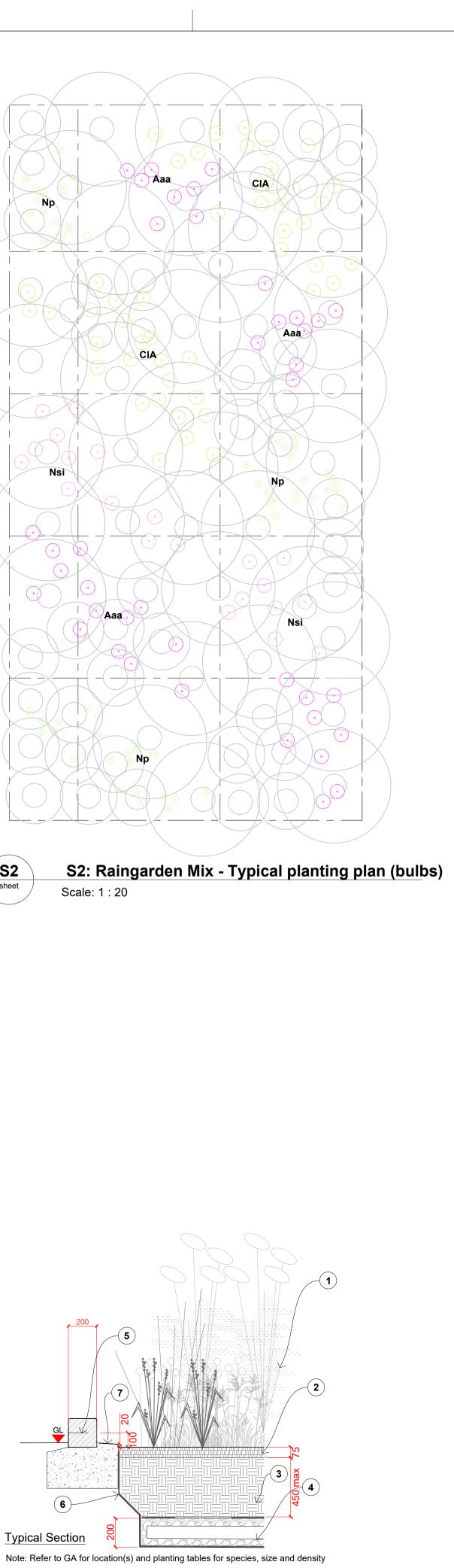




### Typical section through rain garden edge

#### Detail:

- S3 Planting mix to rain gardens.Refer to GA for location(s) and planting tables for species, size and density.
- 2. 75mm layer of bark mulch 3. Backfill with clean, weed free, free draining approved imported
- composite topsoil min 400mm -max 450 mm consolidated depth placed in 150mm layers and lightly consolidated.Plant shrubs incorporating 450g ENmag (Scotts professional Tel: 01473 2011050 0r equal approved), 200 L peat free compost and 100 L LECA granules ensuring that free draining backfill connects full depth with drainage layer. Top soil and all additives to be handled in suitable weather conditions and protected once placed. Refer to Landscape specification for further information.
- Drainage layer Refer to Civil Engineers information.
   castellated kerb refer to civil engineers information.
- 6. Non woven, needle punched polypropylene geotextile to BS EN 13252:2014 to provide seperation between rain garden filter
- medium and drainage layer.7. Concrete haunching to E4 kerb to be exposed and provide 20mm upstand to mulch.





# Typical Section Rain Garden Edge

Scale: 1:20

NOTE	S		
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р 4. Т	rior to work commencing. his drawing must not be copied in w	hole or ir	n part
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DBL-OPE-ZZ-XX-DR-L-902202

Rev 02

Drawing Number

#### **TOPSOIL GENERAL**

Imported multi purpose topsoil to be provided to all planting areas to meet meet any shortfall in required minimum depths set out opposite and the specification within BS3882:2015 Quantity and requirements to be determined following testing of site won topsoil stockpiles.

#### Topsoil maximum stone size:

- Max Stone Size 20mm

#### Storing / placing / handling / preparing for topsoil

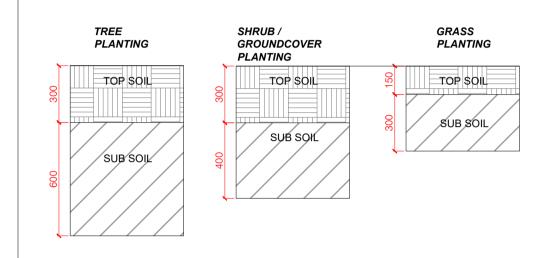
- Topsoil to be stored and handled following recommendations set out within Annex A of BS3882:2015 (Recommendations for stripping, handling and preparing topsoil)

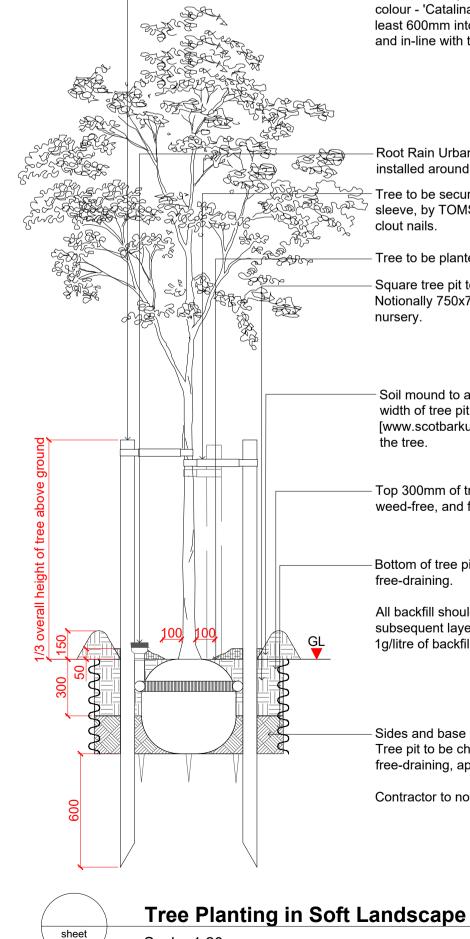
#### SUBSOIL

- Imported subsoil to be provided to meet any shortfall in required minimum depths set out opposite.
- Subsoil to meet requirements of 'BS 8601:2013 Specification for subsoil and requirements for use.' -- Quantity and requirements to be determined following testing of site won Subsoil stockpiles.

#### Storing / placing / handling / of subsoil

- Subsoil to be stored and handled following recommendations set out within Annex A of BS3882:2015 (Recommendations for stripping, handling and preparing topsoil)





Trees to be triple staked with 75mm Ø pressure treated stakes, to be pre-stained off site with two coats wood stain, colour - 'Catalina Grey'. Stake to be 1/3 of the overall height of the tree above ground, and long enough to be driven at least 600mm into the ground below the base of the tree pit excavation. Stakes to be positioned opposite one another and in-line with the prevailing wind. All stake tops to line through level.

- Root Rain Urban by Green Blue Urban [www.greenblue.com] or similar and approved, irrigation/aeration system installed around the guyed rootball. Ensure inlet is slightly above finished surrounding ground level. - Tree to be secured to each stake using 25mm reinforced rubber tree belt threaded through 300x25mm plastic spacer sleeve, by TOMS [www.jtoms.co.uk] or equal and approved. Tree belt to be secured to each stake with 2no. galvanised

Tree to be planted at the nursery line.

Square tree pit to be excavated 50% wider than rootball in width and to a depth equal to the depth of the rootball. Notionally 750x750mm square x 500mm deep for extra heavy standard trees - dependant on supplied rootball size from

- Soil mound to aid watering to encircle tree [centred on trunk] approximately 150mm tall. Diameter of mound to match width of tree pit excavation. Centre of mound to be mulched with 50mm deep Ornamental Bark Chips by Scotbark [www.scotbarkuk.com] or similar and approved. A mulch free zone of 100mm should be maintained around the trunk of

- Top 300mm of tree pit should be backfilled with 70% top-soil from the excavation, taking care to ensure it is clean, weed-free, and free-draining and 30% peat free compost.

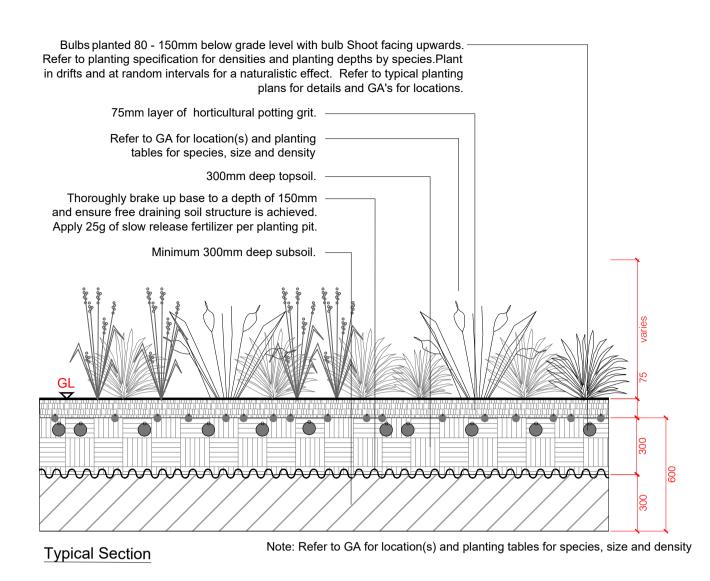
Bottom of tree pit should be backfilled with sub-soil from the excavation taking care to ensure it is clean, weed-free, and free-draining.

All backfill should be placed in layers not exceeding 300mm. Each layer to be lightly consolidated before placing subsequent layer. Backfill [top-soil and sub-soil] should incorporate Broadleaf P4 Water Retention Granules at a rate of 1g/litre of backfill.

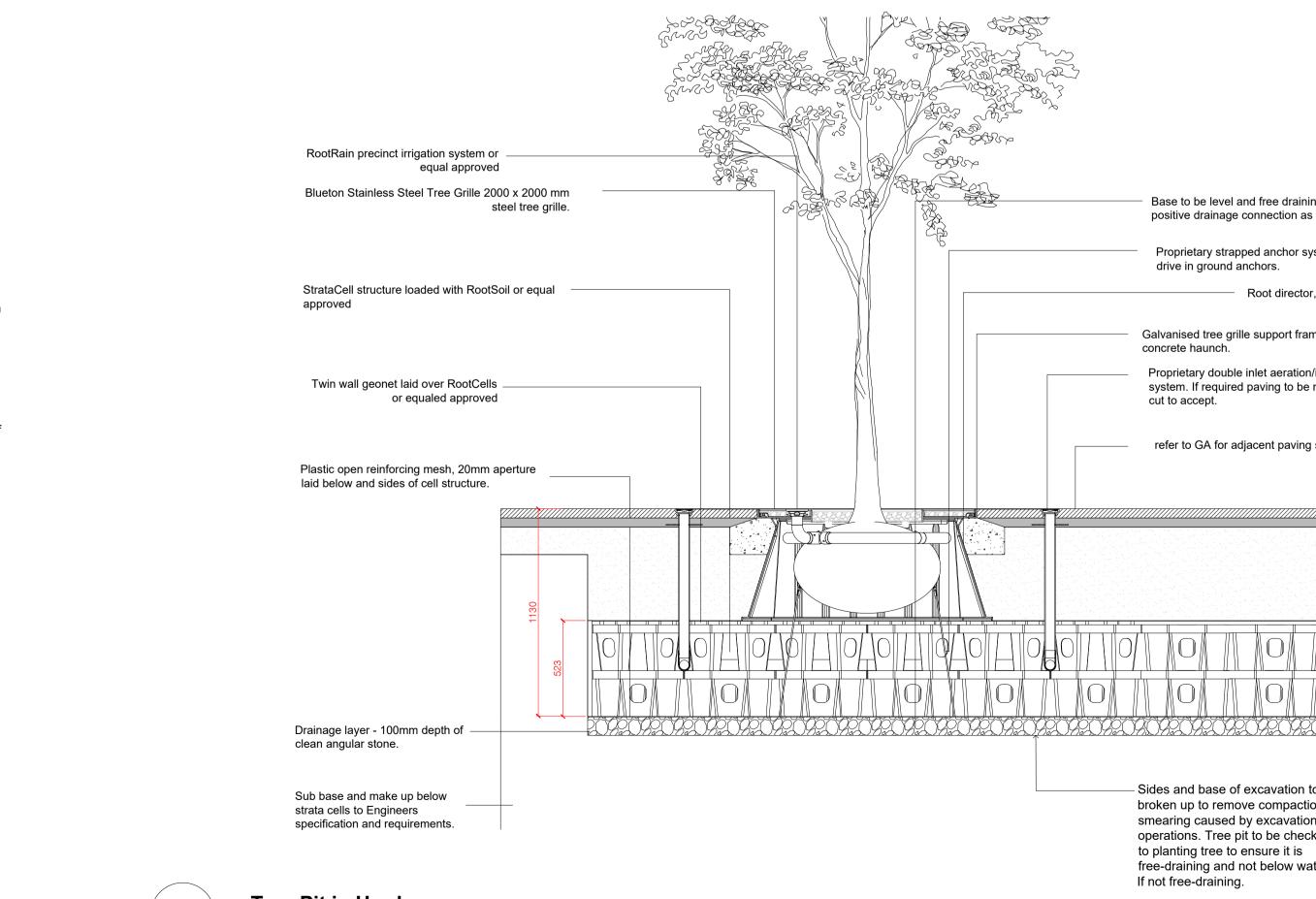
Sides and base of excavation to be broken up to remove compaction / smearing caused by excavation operations. Tree pit to be checked prior to planting tree to ensure it is free-draining and not below watertable. If not free-draining, appropriate drainage to soakaway or positive drainage connection must be installed before planting.

Contractor to notify landscape architect when tree pits are excavated to allow inspection of the pit prior to planting.

# Scale: 1:20



S<sup>1</sup>/S<sup>2</sup>/S<sup>3</sup> Shrub and Herbaceous Mixes Scale: 1:20



sheet

**Tree Pit in Hard** Scale: 1 : 20

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Rev

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Base to be level and free draining or with positive drainage connection as required.

Proprietary strapped anchor system with drive in ground anchors. Root director, medium.

Galvanised tree grille support frame set on concrete haunch.

Proprietary double inlet aeration/irrigation system. If required paving to be neatly core cut to accept.

refer to GA for adjacent paving surfaces

Sides and base of excavation to be broken up to remove compaction / smearing caused by excavation operations. Tree pit to be checked prior to planting tree to ensure it is free-draining and not below watertable. If not free-draining.