

Cardno (NSW/ACT) Pty Ltd | ABN 95 001 145 035
Ground Floor, 16 Burelli Street
Wollongong NSW 2500
Tel: 02 4231 9600 Fax: 02 4228 6811
Web: www.cardno.com.au



CESSNOCK CITY COUNCIL

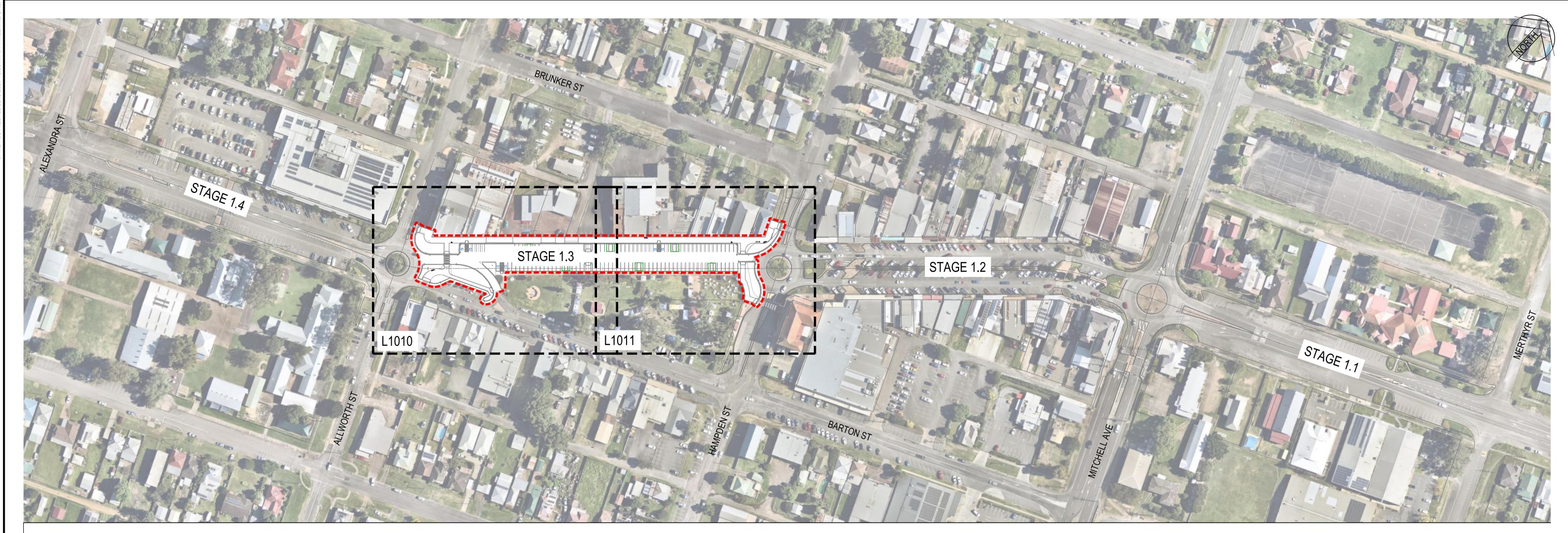
LANG ST UPGRADE - STAGE 1.3 ALLWORTH ST TO HAMPDEN ST KURRI KURRI

LANDSCAPE COVER SHEET

3	28/06/2021	ISSUED FOR CONSTRUCTION	MES	MA	SB
2	23/06/2021	FINAL DETAILED DESIGN ISSUE	MES	MA	SB
4	21/05/2021	50% PRELIMINARY DESIGN ISSUE FOR COUNCIL REVIEW	MES	MA	SB
Rev	Date	Description	Des	Verif.	Appd.

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MA	18/05/2021	Date					
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MA	18/05/2021	AHD			NTS		A1
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CD.	19/05/2021		80)521014-L	.1000		3



KEY PLAN SCALE 1:1250

	SCHEDULE OF DRAWINGS	
DRAWING No.	DESCRIPTION	REV
80521014-L1000	LANDSCAPE COVER SHEET	3
80521014-L1001	LANDSCAPE KEY PLAN, DRAWING LIST AND PLANTING SCHEDULE	3
80521014-L1010	LANDSCAPE PLAN 1 OF 2	3
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PLANTING	SCHEDULE						
SYMBOL	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE WIDTH (m)	SPACING (m)	SIZE	QUANTITY
TREES							
*	Lagerstroemia indica	Crepe Myrtle	7	5	As per plan	75L	3
+	Quercus palustris	Pin Oak	15	8	As per plan	75L	6
)					SUB TOTAL		9
SHRUBS							
вми	Brachyscome multifida	Cut Leaf Daisy	0.5	1	3/m2	100mm	178
BSE	Buxus semperivens	Common Box	1	1	2/m2	100mm	25
CLL	Callistemon 'Little John'	Bottlebrush	1	1	1/m2	100mm	25
LTA	Lomandra tanika	Spiny Head Mat Rush	0.5	0.5	2/m2	100mm	238
РММ	Pittosporum tobira 'Miss Muffet'	Dwarf Pittosporum	1	1	2/m2	100mm	26
SAE	Scaevola aemula	Spiny Head Mat Rush	0.4	0.8	2/m2	100mm	304
WZE	Westringia fruiticoisa 'Zena'	Coastal Rosemary	0.5	1.2	1/m2	100mm	7
					SUB TOTAL		803
				то	TAL PLANTS		812

0 25 50 75 100 125m SCALE 1:1250 (A1), 1:2500 (A3)

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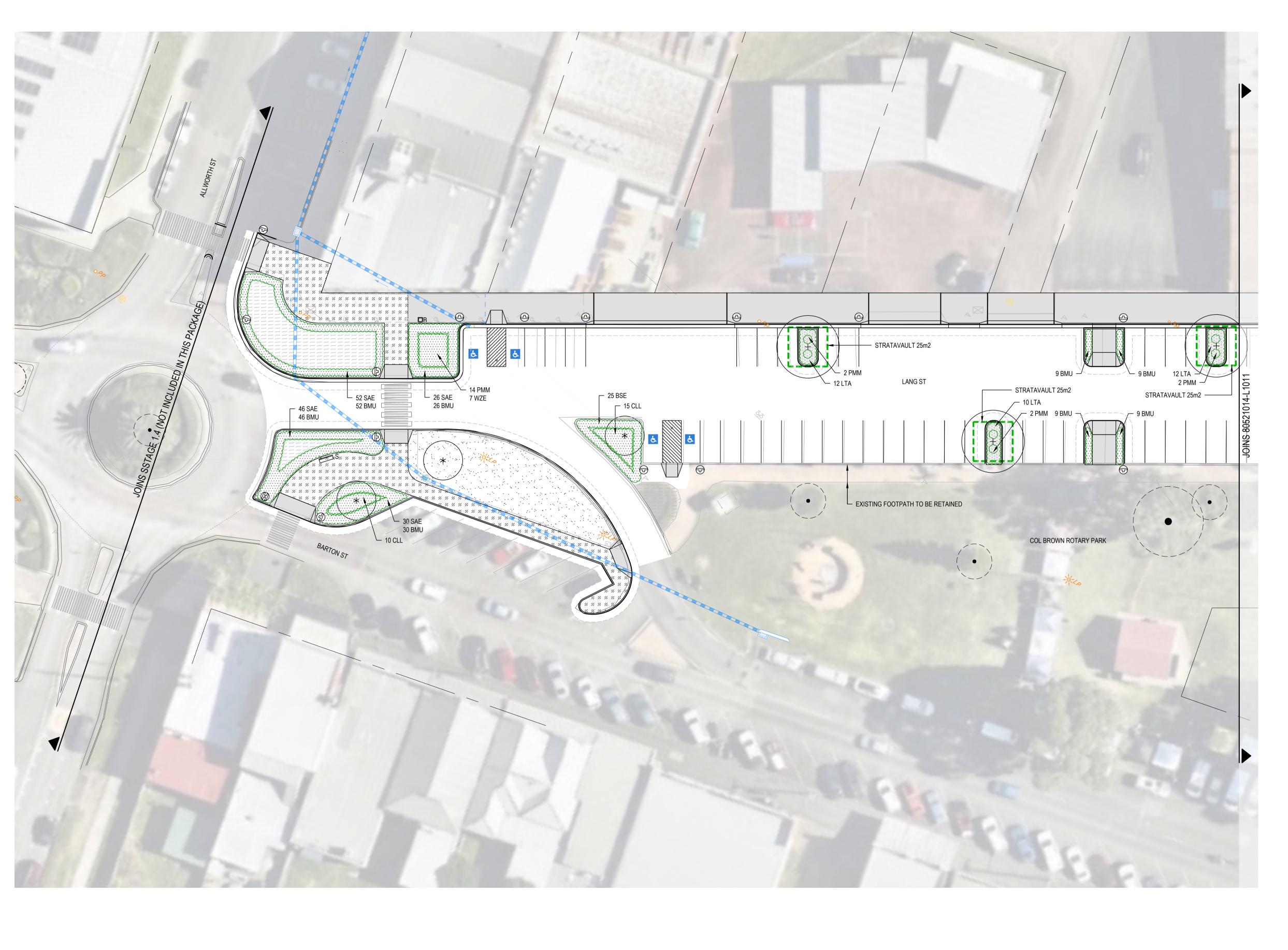
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Designed MES	Date 22/04/2021	
Verified MA	Date 18/05/2021	Title
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	KURRI KURRI	

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itle	LANDSCAPE KEY PLAN, DRAWING LIST AND
	PLANTING SCHEDULE

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DATUM AHD		Scale 1:1250	Size	A1	
Drawing Number				Revision	
80521014-L1001					





EXISTING STORMWATER SERVICES

EXISTING LIGHT POLE AND POWER POLE

PROPOSED SIGNAGE TO ENGINEERS DETAILS

PROPOSED BENCH SEAT AS SPECIFIED

□B PROPOSED BIN AS SPECIFIED

I I IR PROPOSED BIKE RAIL AS SPECIFIED

PROPOSED CONCRETE TO ENGINEERS DETAILS

EXISTING TREE TO BE RETAINED

PROPOSED TREE IN STRATAVAULT

PROPOSED TREE IN EXISTING TURF OR MASS 4
L1020
PLANTING

PROPOSED BLUESTONE PAVING

EXISTING PLANTING TO BE RETAINED

EXISTING PLANTING TO BE RETAI

PROPOSED MASS PLANTING

PROPOSED MASS PLANTING IN STRATAVAULT (1)

EXTENT OF STRATAVAULT SYSTEM (1)

L1020

EXISTING TURF TO BE RETAINED

NOTE: REFER TO ENGINEERS DRAWINGS AND DETAILS FOR ALL KERBS, PARKING PAY AND PRAM RAMPS.

0 5 10 15 20 25 SCALE 1:250 (A1), 1:500 (A3)

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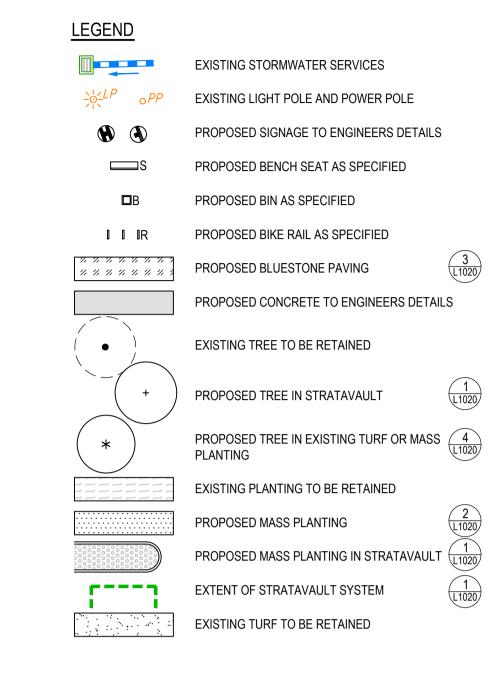
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Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3
1	ALLWORTH ST TO HAMPDEN ST
	KURRI KURRI
Title	LANDSCAPE PLAN 1 OF 2

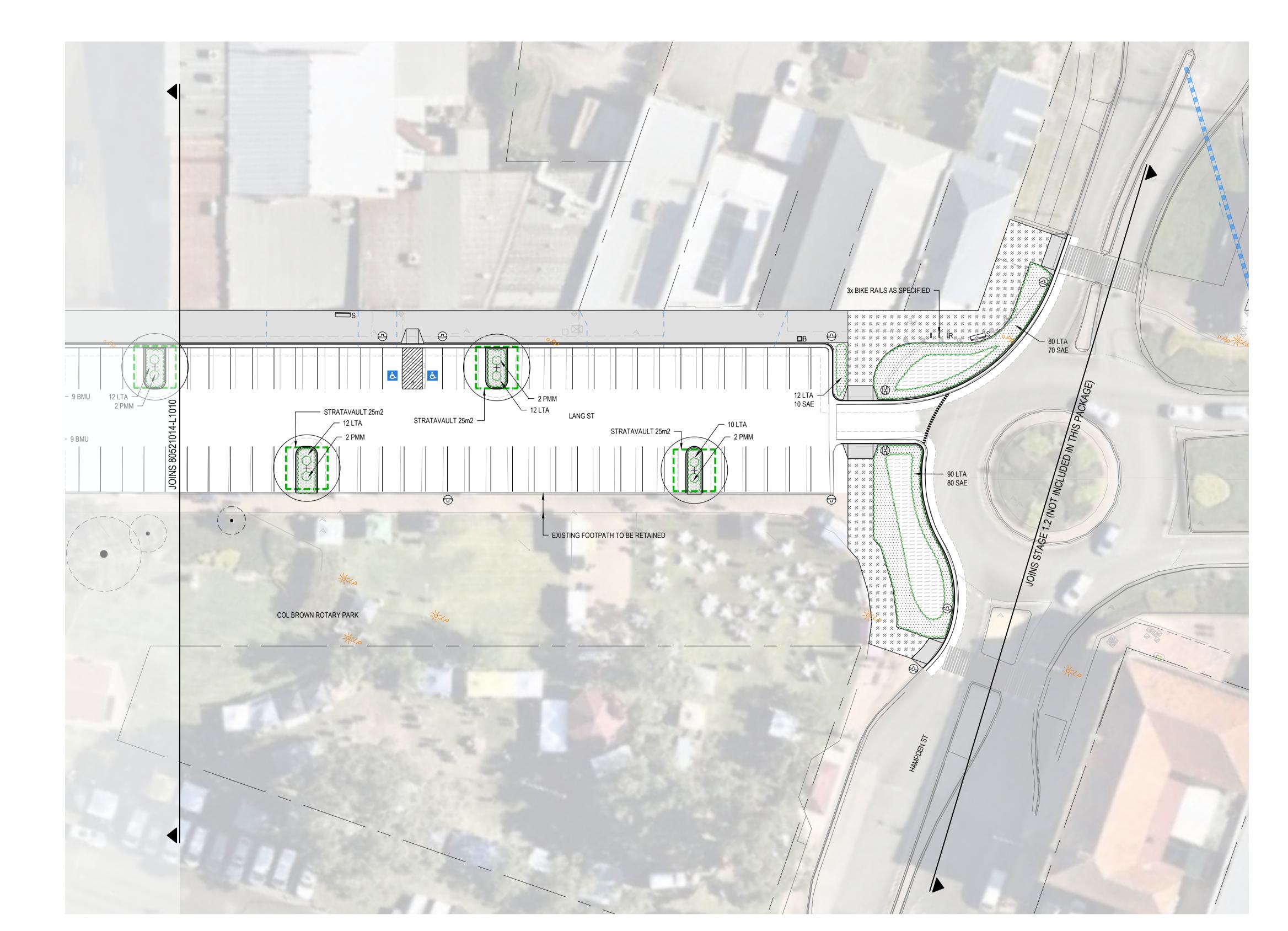
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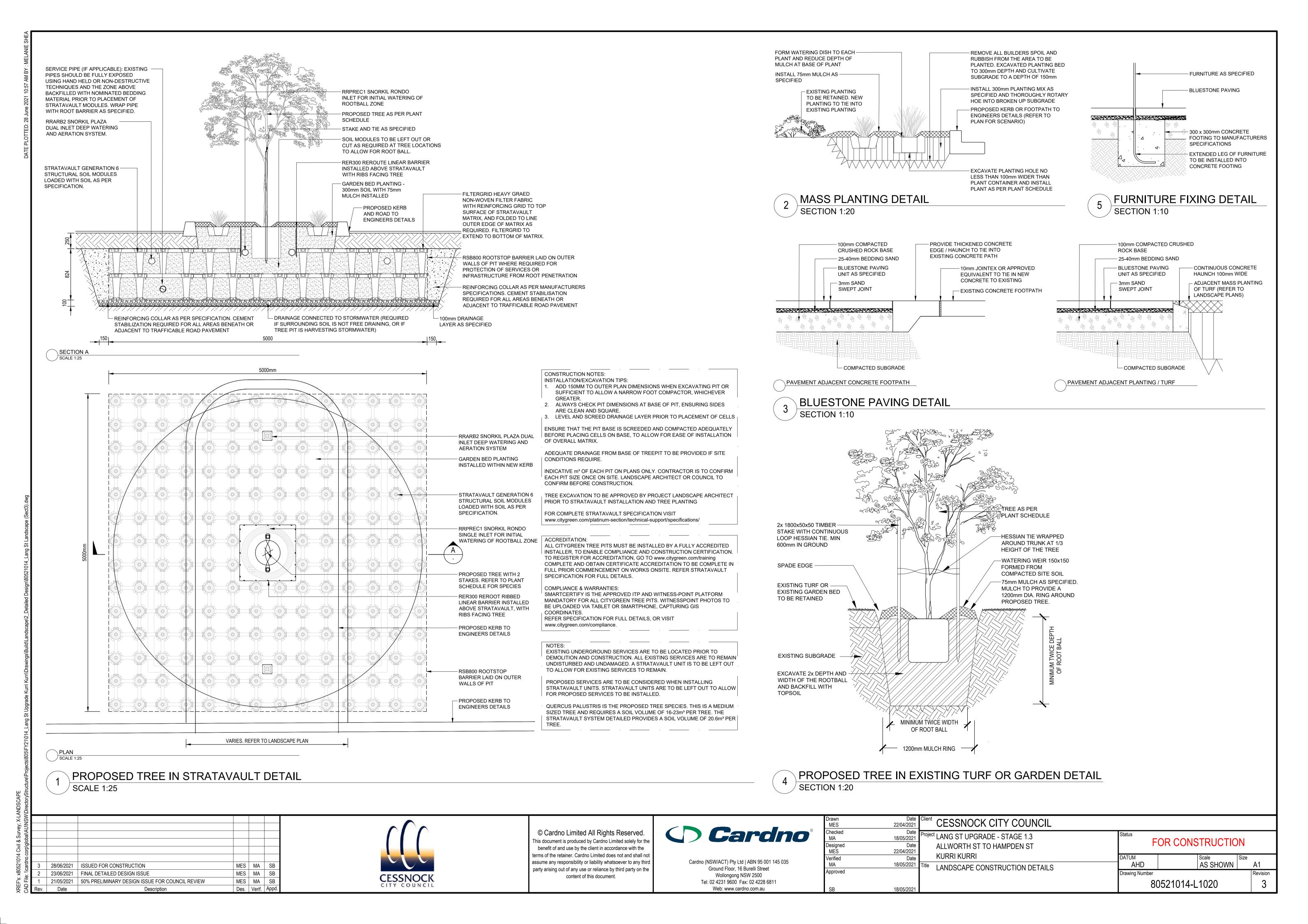
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SPECIFICATION NOTES

1.0 SERVICES

Before landscape work is commenced. The Landscape Contractor is to establish the position of all servicelines and ensure tree planting is to be carried out at least 3 metres away from these services. Service lids, vents and hydrants shall be left exposed and not covered by any landscape finishes (turfing, paving, garden beds etc.) Finish adjoining surfaces flush with pit lids.

Dial Before You Dig - It is the landscape contractor's full responsibility to complete a full services search and take all required measures to ensure protection of these services including potholing to confirm locations. The client in no way will be held responsible for any damage caused to services as a result of the contract works.

The contractor must obtain an Australand 'Permit to Dig' prior to excavation works of any kind occurring on the site.

Excavation

Do not excavate by machine within 1m of existing underground services.

2.0 SOILS AND CONDITIONER PLANTING MIXTURE

Shall be ORGANIC GARDEN MIX. Available from Australian Native Landscapes. Ph 13 14 58

IMPORTED SOIL MATERIAL AND PLANTING MIX

Provide product data sheets compliance to standard and validation certificates to the Superintendent from the manufacturer or supplier as to the physical, chemical and weed free status of each of the materials provided. Imported Garden Mixes shall be used for all planting works unless otherwise specified

TURF

Turf Underlay shall be a mix of 40% Double washed river sand, 20% composted Greenwaste, 20% nitro humus, 20% soil equivalent to Greenlife Lawn Top Dressing & Turf Underlay as produced by Australian Native Landscapes or approved equivalent. Spread 100mm of Turf Underlay as specified and finish flush with adjacent finished surface

Provide a one (1)kg sample of imported topsoil mixes, if required, for approval. No imported topsoil shall be delivered to site prior to approval of the sample provided.

TOPDRESS MATERIAL

Topdress material shall be as specified in AS 4419 - 1999. Topdress material shall be clean washed river sand, free from any clay lumps, clods, weeds, tree roots, sticks, organic matter, rubbish and material toxic to plant growth and the like, and shall have a neutral pH and minimal salt content (measured oven dry of 0.1%).

3.0 MULCH

Application: Place mulch to the required depth, (refer to drawings clear of plant stems, and rake to an even surface finishing 25mm below adjoining levels. Ensure mulch is watered in and tamped down during installation. Mulch Type: Shall be COTTAGE MULCH. Available from Soilco, Ph (02) 4272 9944

4.0 PLANTS

SUPPLY

The Landscape Contractor is responsible for organising the supply and delivery of plant stock to site and checking plant stock prior to accepting delivery on site to ensure the plants possess the following characteristics:

- Large healthy root systems, with no evidence of root curl, restriction or damage. Vigorous, well established, free from disease and pests, of good form consistent with the species or variety.
- Hardened off, not soft or forced, and suitable for planting in the natural climatic conditions prevailing at the site.
- Trees must, unless required to be multi-stemmed, have a single leading shoot.
- Trees shall be supplied with a clean stem height of 35-40% of total tree height. The minimum clean stem height is to be 1.5m at time of installation.
- Any plants or trees that are accepted by the landscape contractor that do not meet this specification will be

replaced at the contractor's expense. Replacement: Replace damaged or failed plants with plants of the same type and size.

PLANTING

Do not plant in unsuitable weather conditions such as extremes of heat or cold, wind or rain. Before planting begins, complete cultivation, soil placement, fertilisation etc as previously specified.

Before plants are installed all pot sizes shall have their roots pruned with an appropriate, clean, sharp instrument to eliminate any root confusion occurring at edge of pot zone. Before planting begins, thoroughly water the plants and the planting area. Keep the area and plants moist during

planting. Water the plants immediately after planting, and thereafter as required to maintain growth rates free of

The contractor shall give notice, of not less than 24 hours, for inspections as nominated in inspect and hold point schedule

ROOT PRUNING

Remove tree from container and root prune one inch on sides and bottom to ensure all circling roots have been either severed or aligned radially into the surrounding soil. Plant as per detail.

EXISTING PLANTING

Existing planting is to be retained where possible, however any plants disturbed during construction of new kerbs, roads and pathways are to be replaced to tie in with existing.

5.0 TURF

Turf shall be of even thickness free from weeds and other foreign matter, lay in stretcher pattern with joints staggered and close butted. Deliver turf on site within 24 hours of being cut, and lay within 36 hours or being cut. Prevent it from drying out between cutting and laying. Establishment

Watering: Water as necessary to keep soil moist to a depth of 100mm. Protection: Protect newly turfed areas against traffic until grass is established.

Making Good: Lift failed turf and relay with new turf.

Fertilising: Two weeks after laying, fertilise turf as specified.

Topdressing: When the turf is established, lightly topdress to a depth of 10mm with topdress material as specified. Rub the dressing well into the joints and correct any unevenness of surface Mowing: When the turf is established, mow at regular intervals to maintain an average height of 50mm.

Turf Type: Kikuyu Recommended Supplier: A registered Turf grower to be approved by the Landscape Architect.

6.0 FERTILISER

MASS PLANTING AREAS

Type: Nutricote Standard Black 270 Day (16: 4.4: 8.3) Installation: Evenly distribute 5g per litre (rootball size) of fertiliser onto backfill area around rootball

prior to placing mulch. TREE PLANTING

Type: Nutricote Standard Brown 360 Day blend (16: 4.4: 8.3)

Installation: Distribute 5g per litre (rootball size)of fertiliser into backfill around rootball. Apply in 3 evenly spread layers as hole is filled. First layer is to be half way up the rootball, second layer 3/4 up the rootball and third layer 50-100mm from the soil finished surface level. This application ensures that the nutrients leeches evenly downwards into the soil profile and encourages outward root

Kikuyu: Yates Dynamic Lifter Turf Lifter (10: 4: 6)

Installation: Evenly spread and mix 50g of fertiliser per m2 into topsoil prior to placing turf.

7.0 STAKING AND TYING

Stakes shall be straight plantation grown hardwood, free from knots and twists, pointed at one end and sized according to size of plants to be staked. Size: 50 x 50 x 1800mm

No: 2 per plant as per the plant sheet

Ties shall be 50mm wide hessian webbing or approved equivalent nailed or stapled to stake. Drive stakes a minimum one third of their length, avoiding damage to the root system, on the windward side of the plant.

8.0 PAVING

Type: Balmoral Bluestone Dimensions: 600 x 400 x 40m Pattern: Stretcher Bond Finish: Sawn finish - cats paws

Recommended Supplier: Cinajus Stone Floors & Stone Walls. Ph (02) 9773 5677

9.0 STRATAVAULT SYSTEM

Product: Stratavault Generation 6

Soil Infill: To manufacturers specifications - refer to website for full soil backfill specification. Installation: Contractor is to arrange Tool Box talks with manufacturer onsite regarding operations and installation process.

Manufacturer: City Green Ph: 1300 066 949

Refer to City Green website for full performance specification (Installation Specification): https://citygreen.com/platinum-section/technical-support/specifications/

10.0 SEAT

Type: Manhattan Seat

Product Code: TM4510 Dimensions: 1800(L) x 510(W) x 885(H) mm

Frame: 304 Stainless Steel - galvanised finish

Battens: Australian Hardwood (Class 1) - Quantum Gold Oil

Fixing: Extended leg fixed into concrete footing beneath paving to manufacturers specifications (Refer to detail 5 on sheet 80521014-L1020)

Armrest: Yes (2)

Qty: 3 Supplier: Commercial Systems Australia. Ph (03) 9723 4111

11.0 BIN

Type: Manhattan Bin Enclosure Product Code: LR6533 Dimensions: 625 x 565 x 1120mm Frame: 304 Stainless Steel - Satin Polished Battens: Australian Hardwood Timber (Class 1) - Oil finish. Fixing: Bolt down to manufacturers specifications

Supplier: Commercial Systems Australia. Ph (03) 9723 4111

Supplier: Commercial Systems Australia. Ph (03) 9723 4111

12.0 BIKE RAIL

Type: Urbania Bike Leaning Rail Product Code: BR7101 Dimensions: 580 x 100 x 750mm Material: 316 Stainless Steel - Satin Polished Fixing: Extended leg fixed into concrete footing beneath paving to manufacturers specifications (Refer to detail 5 on sheet 80521014-L1020)

MAINTENANCE PROGRAM

Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. This shall include, but shall not be limited to, watering, mowing, fertilising, reseeding, returfing, weeding, pest and disease control, staking and tying, replanting and plant replacement, cultivation, pruning, aerating, renovating, topdressing, maintaining the site in a neat and tidy condition as follows:-

1.0 GENERAL

The Landscape Contractor shall maintain the landscape works for the term of the maintenance (or plant establishment) period to the satisfaction of the Landscape Architect and Client. The Landscape Contractor shall attend to the site on a weekly basis. The maintenance period shall commence at practical completion and continue for a period of fifty two (52) weeks.

2.0 WATERING

Grass and trees shall be watered regularly so as to ensure continuous healthy growth.

3.0 RUBBISH REMOVAL

During the term of the maintenance period the Landscape Contractor shall remove rubbish that may occur and reoccur throughout the maintenance period. This work shall be carried out regularly so that at weekly intervals the area may be observed in a completely clean and tidy condition.

4.0 REPLACEMENTS

The Landscape Contractor shall replace all plants that are missing, unhealthy or dead at the Landscape Contractor's cost. Replacements shall be of the same size, quality and species as the plant that has failed unless otherwise directed by the Landscape Architect. Replacements shall be made on a continuing basis not exceeding two (2) weeks after the plant has died or is seen to be missing. The landscape contractor is to report any evidence of theft or vandalism to the Landscape Architect within one day of them occurring.

5.0 STAKES AND TIES

The Landscape Contractor shall replace or adjust plant stakes and tree guards as necessary or as directed by the Landscape Architect. Remove stakes and ties at the end of the maintenance period if so

6.0 PRUNING

Trees and shrubs shall be pruned as directed by the Landscape Architect. Pruning will be directed at the maintenance of the dense foliage or miscellaneous pruning beneficial to the condition of the plants. Any damaged growth shall be pruned. All pruned material shall be removed from the site.

7.0 MULCHED SURFACES

All mulched surfaces shall be maintained in a clean and tidy condition and be reinstated if necessary to ensure that a depth of 75mm is maintained. Ensure mulch is kept clear of plant stems at all times.

8.0 PEST AND DISEASE CONTROL

The Landscape Contractor shall spray against insect and fungus infestation with all spraying to be carried out in accordance with the manufacturer's directions. Report all instances of pests and diseases (immediately that they are detected) to the Landscape Architect prior to spraying.

9.0 GRASS AND TURF AREAS

The Landscape Contractor shall maintain all grass and turf areas by watering, weeding, reseeding, rolling, mowing, trimming or other operations as necessary.

Apply lawn fertiliser as specified in fertilisers at the completion of the first and the last mowing, and at times as necessary to maintain healthy grass cover. Carry out last mowing and fertilisation not less than seven (7) days before the end of the maintenance period. Remove grass clippings from site. Grass and turf areas shall be sprayed with approved selective herbicide against broad leafed weeds as required by the Landscape Architect and in accordance with the manufacturer's directions.

Grass and turf areas shall be fertilised once a year in autumn with "Dynamic Lifter" for lawns at a rate of 20kg per 100m2. Fertiliser shall be watered in immediately after application.

Grass and turf areas shall be kept mown to maintain a healthy and vigorous sward within the 30-75mm range, average 50mm.

10.0 WEED ERADICATION

Eradicate weeds by environmentally acceptable methods using a non-residual glyphosate herbicide (eg: 'Roundup') in any of its registered formulae, at the recommended maximum rate. Regularly remove by hand, weed growth that may occur or recur throughout grassed, planted and mulched areas. Remove weed growth from an area 1000mm diameter around the base of trees in grassed areas. Continue eradication throughout the course of the works and during the maintenance period.

11.0 SOIL SUBSIDENCE

Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made good by the Landscape Contractor at no cost to the client.

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