

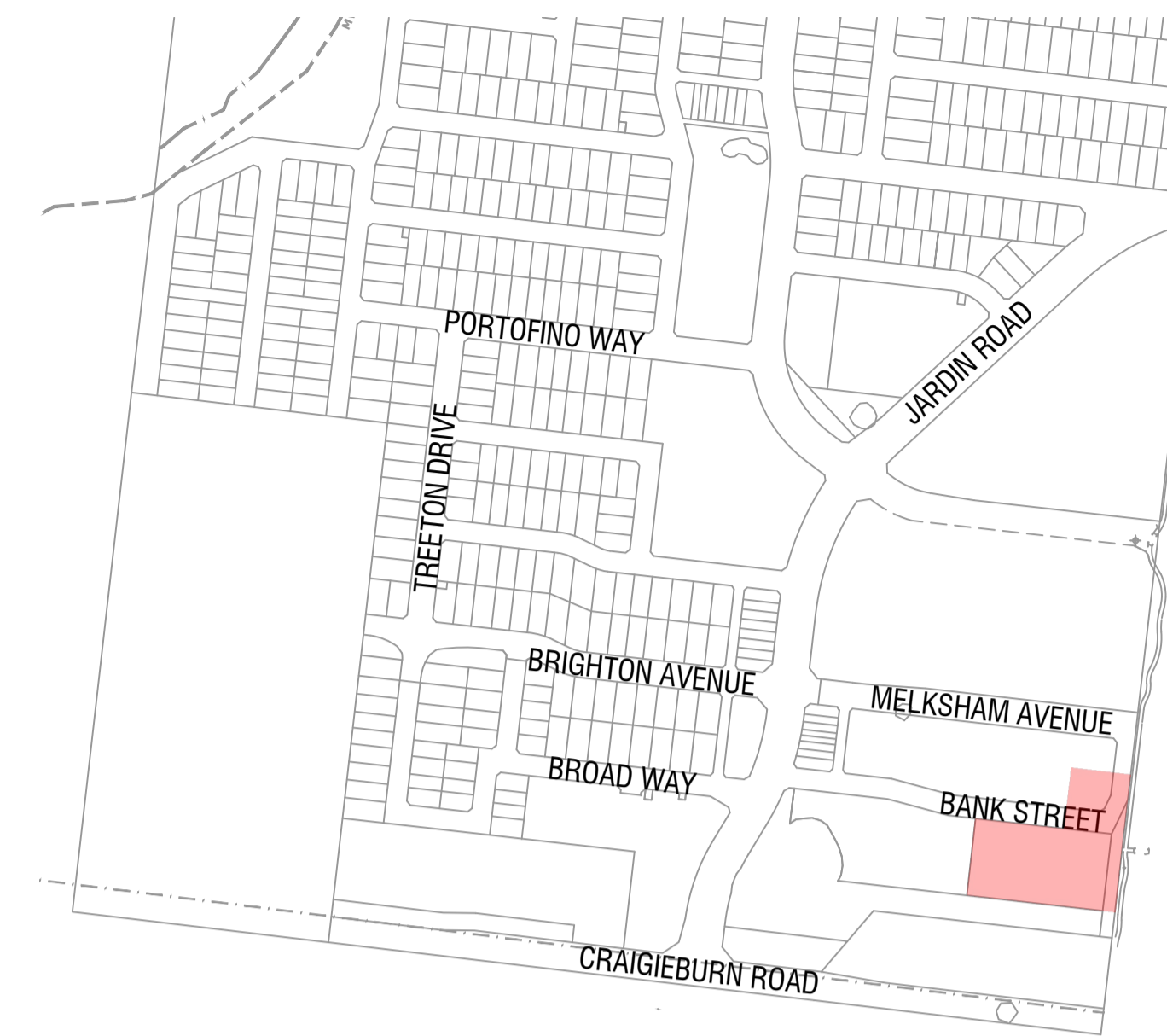
# RATHDOWNE

## STAGE 24 - MICROGRID

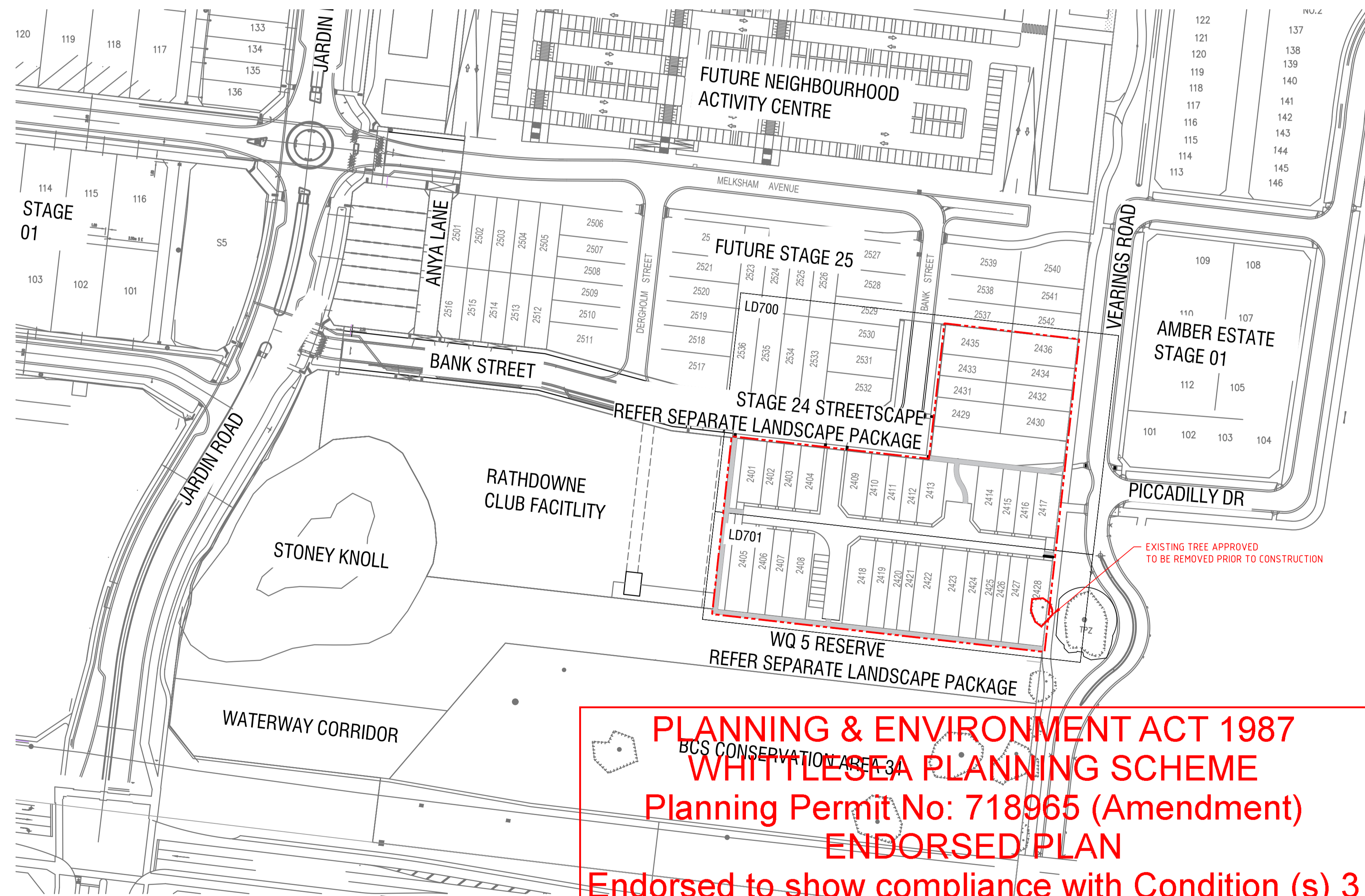
PROJECT NUMBER: 308736  
 LANDSCAPE ARCHITECTURE DRAWINGS  
 FOR VILLAWOOD

### DRAWING SCHEDULE

DRAWING NO.	DESCRIPTION	SHEET NO.	REVISION
LD100	COVER - SHEET 1	1	C
LD200	SCHEDULE - SHEET 1	2	B
LD700	PLANTING PLANS - SHEET 1	3	C
LD701	PLANTING PLANS - SHEET 2	4	C
LD702	CUT & FILL PLAN	5	A
LD900	DETAILS - SHEET 1	6	B
LD901	DETAILS - SHEET 2	7	A



2 SITE LOCATION  
 Scale 1:5000 @ A1



1 EXTENT OF WORKS PLAN  
 Scale 1:1000 @ A1

**PLANNING & ENVIRONMENT ACT 1987**  
**WHITTLESEA PLANNING SCHEME**  
 Planning Permit No: 718965 (Amendment)  
**ENDORSED PLAN**  
 Endorsed to show compliance with Condition (s) 3  
 (Landscape Plan)  
 Sheet 1 of 7 Date: 19/05/2022

### GENERAL NOTES

- Unless otherwise specified on the drawings all measurements, lengths, heights and distances to be determined from dimensions and NOT scaled off the drawings.
- Before commencement of any works it is the responsibility of the Landscape Contractor to contact Dial Before You Dig 1100 (Fax 1300 652 077) for information on services in the area shown on the plan (www.dialbeforeyoudig.com.au)
- The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. The Contractor shall verify the location and depth of all services prior to commencing on site.
- The Contractor must have a copy of Melbourne One Call/Services information and plans on site at all times.
- The Contractor shall be liable for any damage to services during landscape works.
- All trees shall be planted in locations shown on this plan, with setout to be approved on site by the Superintendent prior to planting.
- Tree canopies are shown at 75% of mature diameter.
- Any change in plant species must have the approval of the Superintendent.
- Trees shall not be planted less than the following distances from existing elements, unless otherwise stated in the documentation:
  - Pedestrian pathways - 1.2m
  - Pedestrian pathways in reserve - 2.0m
  - Driveways and crossovers - 3.0m
  - Stormwater and sewerage pits - 2.0m
  - Intersections - 10.0m
  - Service crossings - 2.0m
  - Back of Kerb - 1.0m min.
  - Street lights and power poles - 4.0m
  - Service assets, incl. junction boxes, pits etc - 2.0m
  - Fire plugs - 3.0m
- The Superintendent is to inspect trees supplied by the Contractor prior to planting.
- The Principal will ensure that all property boundaries are to be pegged out by licensed surveyors prior to set out of landscape works.
- All drawings 'For Construction' to be printed in colour

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**PRELIMINARY**

REV	DESCRIPTION	APP	DATE
C	ISSUED TO AUTHORITY	ML	06/05/22
B	ISSUED TO COUNCIL	SV	21/10/21
A	ISSUED FOR APPROVAL	SV	26/03/21

**RATHDOWNE**  
**STAGE 24 - MICROGRID**

**DETAILED DESIGN**  
 COVER - SHEET 1  
 SHEET 1 OF 5  
 CITY OF WHITTLESEA  
 VILLAWOOD

MGA 94 ZONE  
 1:5000 SCALE @ A1

DESIGNED	DRAWN	CHECKED	APPROVED
ML	SV	SV	SV

DATE: 26/03/21  
 DRG NO: 308736LD100  
 REV: C

file name: 308736LD100.dwg layout name: LD100 plotted by: Mica, Lsp file location: C:\308736\Landscaping\ACAD\plan.dwg 12/05/2022 2:01 PM Sheet 1 of 5 Sheets



**NOTES**

PLANTING SCHEDULE						
TREES						
CODE	BOTANICAL NAME	COMMON NAME	QTY	DENSITY	INSTALL SIZE	MATURE SIZE (h x w)
Ai	<i>Acacia implexa</i>	Lightwood	4	as shown	45L	8 x 5
Cc	<i>Corymbia citriodora</i>	Lemon-scented Gum	4	as shown	45L	20 x 8
Cs	<i>Corymbia citriodora 'Scentous'</i>	Lemon-scented Gum	9	as shown	45L	7 x 5
LxS	<i>Lagerstroemia indica x fauriei 'Sioux'</i>	Crepe Myrtle	11	as shown	45L	4.5 x 3
<b>Total</b>			<b>28</b>			

PLANTING SCHEDULE - GARDEN BED PLANTING MIX																								
MINIMUM SUPPLY SIZE : 150MM POT				LOCATION	GB1	GB3A	GB3B	GB3C	GB3D	GB4A	GB4B	GB4C	19 x GB5A	4 x GB5B	GB5C	GB5D	GB5E	GB5F	GB6A	GB6B	GB6C	GB6D		
				AREA (M2)	140	28	29	54	74	78	35	4	19 x 1	4 x 1.5	10	10	26	24	20	13	16	5	566	
CODE	BOTANICAL NAME	COMMON NAME	SPECIES DENSITY (m²)	QUANTITY																		TOTAL		
Ac	<i>Acacia cognata 'Limelight'</i>	River Wattle	2	93	28	29	54	74	78	35														391
Gj	<i>Grevillea juniperina 'Molongolo'</i>	Molongolo Grevillea	2	93											20	20	52	48						233
Ls	<i>Leucadendron salignum 'Devil's Blush'</i>	Devil's Blush Leucadendron	2	93															28	16	20	6		163
LI	<i>Lomandra longifolia 'Tanika'</i>	Lomandra Tanika	4						156	70	16				20	20	52	48						382
Mm	<i>Murraya paniculata 'Min-a-Min'</i>	Dwarf Orange Jasmine	1										19	8										27
Wf	<i>Westringia fruticosa 'Low horizon'</i>	Low Horizon Westringia	3		42	42	81	111											18	15	18	6		333
																						<b>Total</b>	<b>1529</b>	

ALL TREE STOCK TO CONFORM TO AS 2303:2018; APPENDIX D.  
 ALL TREE STOCK OF 45L TO HAVE A HEIGHT OF 1.5m - 2.0m AND CALIPER OF 25mm - 30mm  
 UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT

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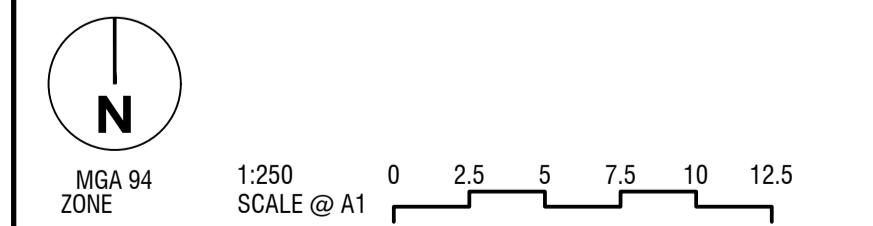
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**PRELIMINARY**


B	ISSUED TO COUNCIL	SV	21/10/2021
A	ISSUED TO CLIENT	SV	26/03/2021
REV	DESCRIPTION	APP	DATE

**21/10/2021**

**STAGE 24 - MICROGRID**  
**DETAILED DESIGN**  
 SCHEDULES - SHEET 1  
 SHEET 2 OF 5  
 CITY OF WHITTLESEA  
 VILLAWOOD

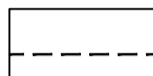


DESIGNED	DRAWN	CHECKED	APPROVED
ML	SV	SV	SV
DATE	DRG NO.	REV	
26/03/2021	308736LD200	B	

**PLANNING & ENVIRONMENT ACT 1987**  
**WHITTLESEA PLANNING SCHEME**  
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**ENDORSED PLAN**  
 Endorsed to show compliance with Condition (s) 3  
 (Landscape Plan)  
 Sheet 2 of 7 Date: 19/05/2022

file name: 308736LD200.dwg layout name: LDC00 plotted by: Mike Lee  
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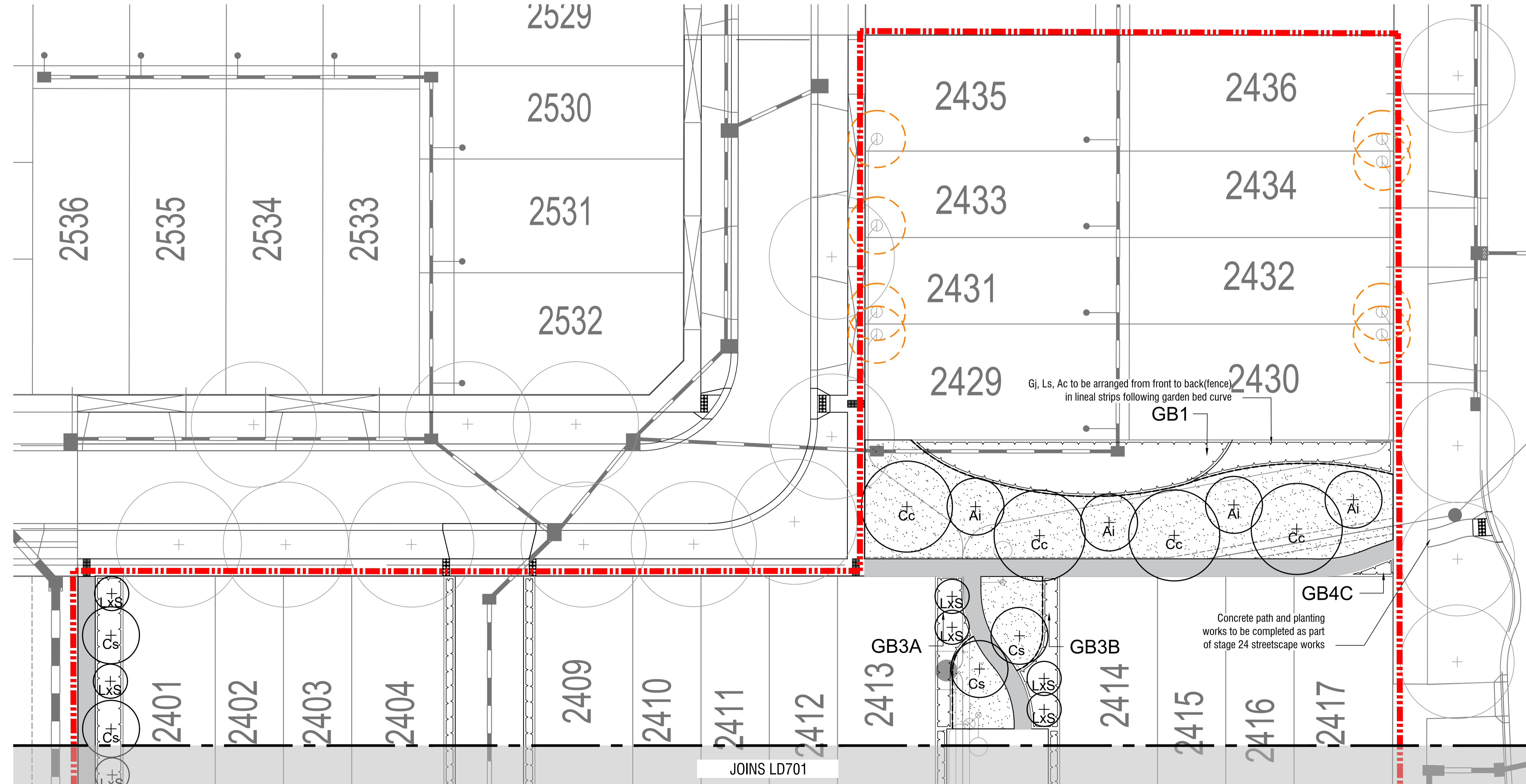
**LEGEND**

-  EXTENT OF WORKS
-  EXISTING STORMWATER  
By others / refer Civil
-  EXISTING CONDUITS / SERVICES  
By others / refer Civil
-  EXISTING STREET LIGHTS  
Refer Power
-  PROPOSED TREE  
Refer Schedules, Details and Specification
-  SPADE EDGE  
Refer Details and Specification
-  GRASS  
Refer Details and Specification
-  2.5M ELECTRICAL JOINT AND  
CONDUIT END OFFSET
-  3M LIGHT POLE AND  
PARALLELING PILLAR OFFSET
-  CONCRETE FOOTPATH  
By Civil  
Refer Details

**Note:**

1. Refer to civil and architectural drawing for details of paving, retaining walls & fences (if any) and cut and fill.
2. The extent of garden beds and car park spaces are shown as per updated Microgrid civil drawing.
3. Landscape works including tree planting and grassed areas south of the pedestrian accessway (Lamington Walk) along the southern boundary of the extent of works is included in the adjoining WQ5 reserve package.
4. Connectivity to the adjoining WQ5 Reserve open space area to the south is achieved through footpath link at both end of Lamington Walk.

**PLANNING & ENVIRONMENT ACT 1987  
WHITTLESEA PLANNING SCHEME  
Planning Permit No: 718965 (Amendment)  
ENDORSED PLAN  
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(Landscape Plan)  
Sheet 3 of 7 Date: 19/05/2022**



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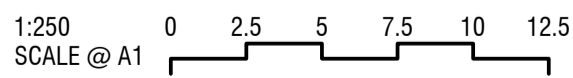
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C	ISSUED TO AUTHORITY	ML	12/05/22
B	ISSUED TO COUNCIL	SV	21/10/21
A	ISSUED FOR APPROVAL	SV	26/03/21

**RATHDOWNNE  
STAGE 24 - MICROGRID  
DETAILED DESIGN  
PLANTING PLANS - SHEET 1  
SHEET 3 OF 5  
CITY OF WHITTLESEA  
VILLAWOOD**



MGA 94  
ZONE

1:250  
SCALE @ A1


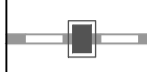

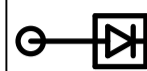
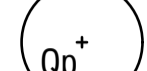
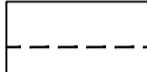






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DATE <b>26/03/21</b>	DRG NO. <b>308736LD700</b>	REV <b>C</b>	

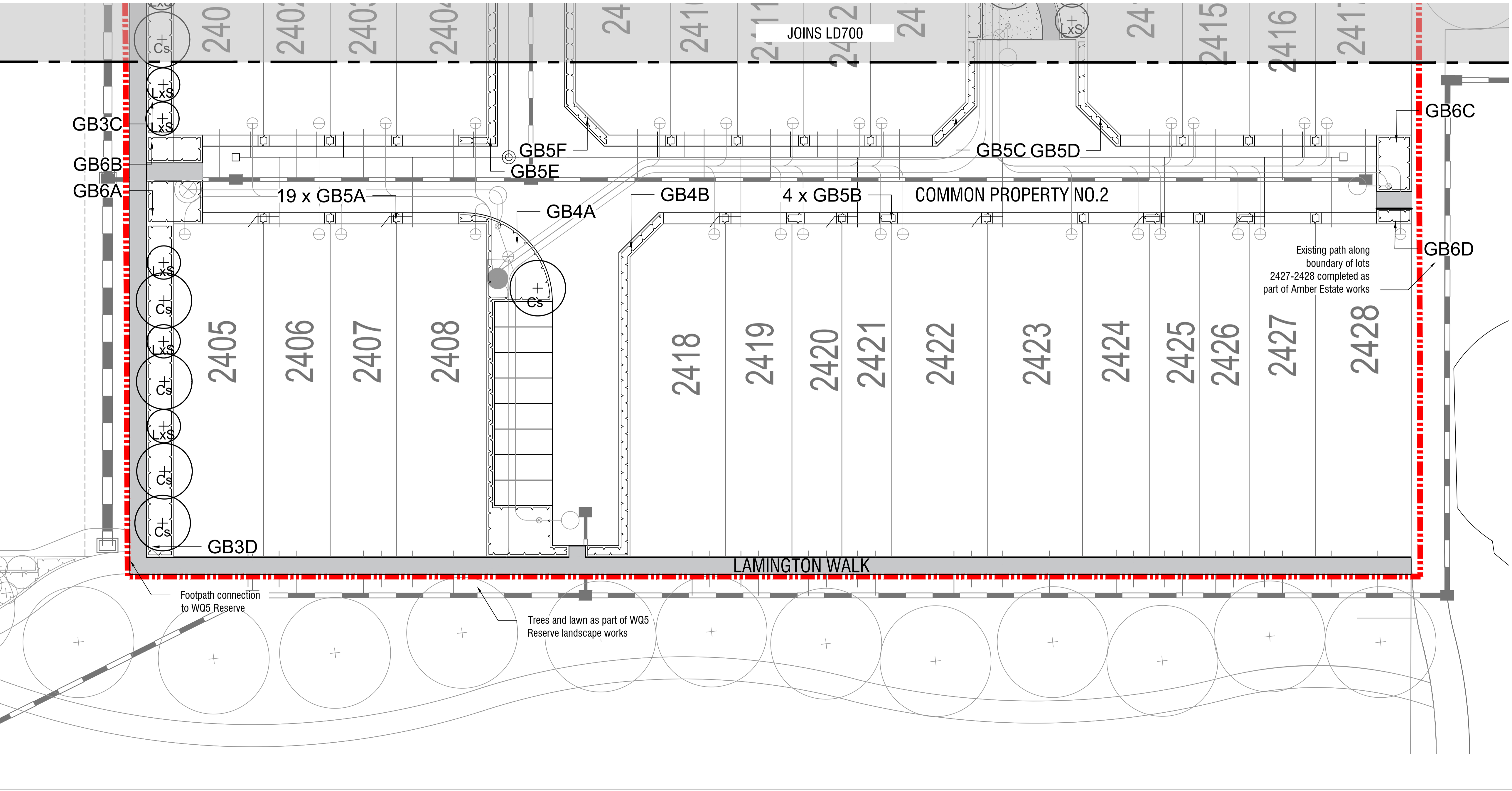
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**LEGEND**

-  EXTENT OF WORKS
-  EXISTING STORMWATER  
By others / refer Civil
-  EXISTING CONDUITS / SERVICES  
By others / refer Civil
-  EXISTING STREET LIGHTS  
Refer Power
-  PROPOSED TREE  
Refer Schedules, Details and Specification
-  SPADE EDGE  
Refer Details and Specification
-  GRASS  
Refer Details and Specification
-  2.5M ELECTRICAL JOINT AND  
CONDUIT END OFFSET
-  3M LIGHT POLE AND  
PARALLELING PILLAR OFFSET
-  CONCRETE FOOTPATH  
By Civil  
Refer Details

**PLANNING & ENVIRONMENT ACT 1987**  
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 Sheet 4 of 7 Date: 19/05/2022



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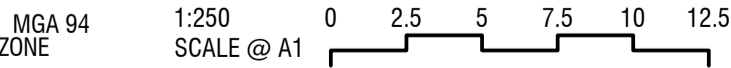
**PRELIMINARY**

C	ISSUED TO AUTHORITY	ML	12/05/22
B	ISSUED TO COUNCIL	SV	21/10/21
A	ISSUED FOR APPROVAL	SV	26/03/21
REV	DESCRIPTION	APP	DATE

**RATHDOWNE**  
**STAGE 24 - MICROGRID**  
**DETAILED DESIGN**  
 PLANTING PLANS - SHEET 2  
 SHEET 4 OF 5  
 CITY OF WHITTLESEA  
 VILLAWOOD

N

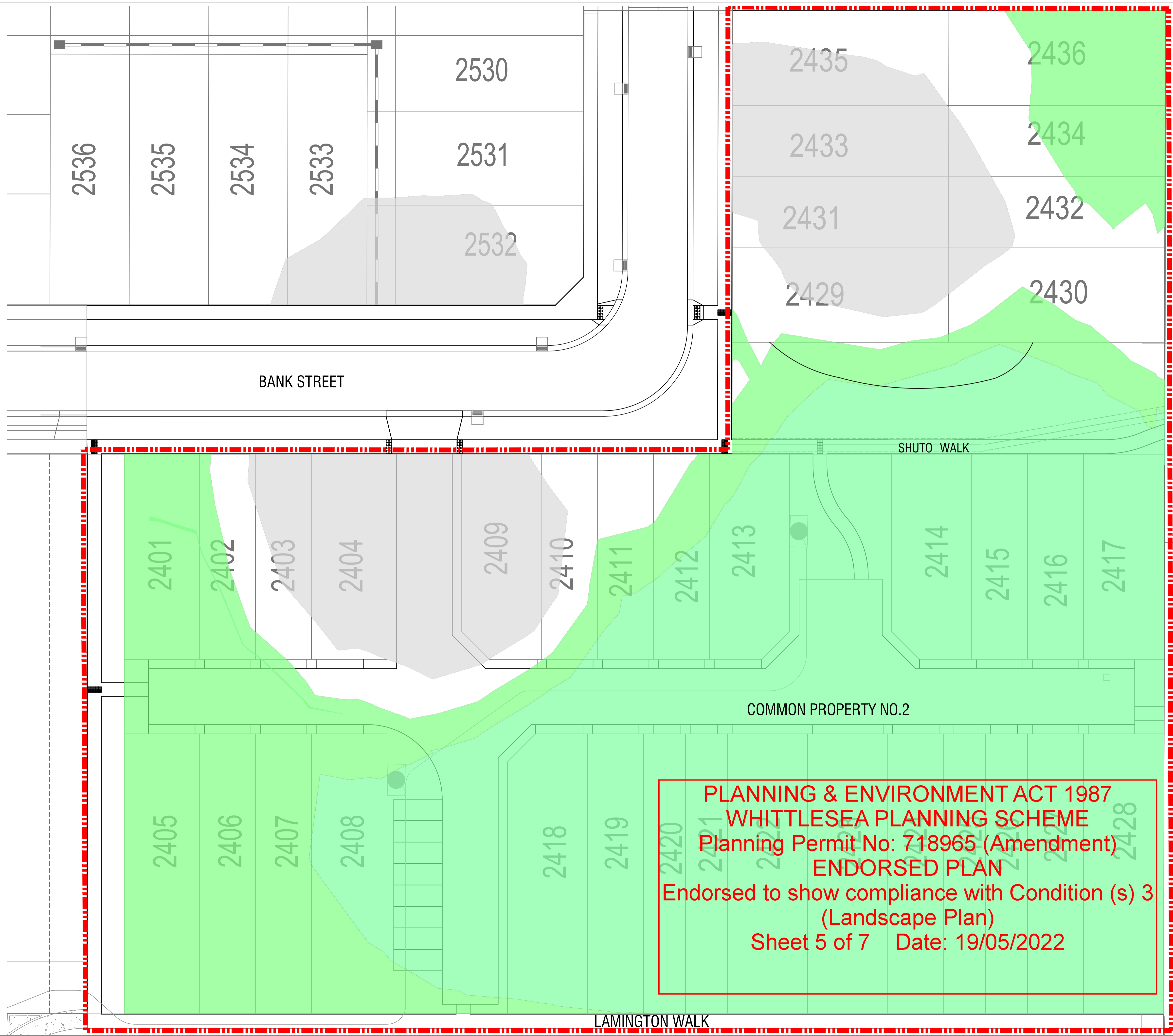
MGA 94 ZONE 1:250 SCALE @ A1



DESIGNED	DRAWN	CHECKED	APPROVED
ML	SV	SV	SV
DATE	DRG NO.	REV	
26/03/21	308736LD701	C	

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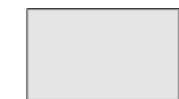

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WHITTLESEA PLANNING SCHEME  
Planning Permit No: 718965 (Amendment)  
ENDORSED PLAN**  
Endorsed to show compliance with Condition (s) 3  
(Landscape Plan)  
Sheet 5 of 7 Date: 19/05/2022

**NOTES**

**LEGEND**

-  CUT ADOPTED FROM CIVIL DESIGN
-  FILL ADOPTED FROM CIVIL DESIGN

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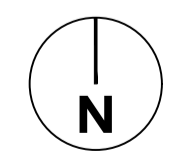
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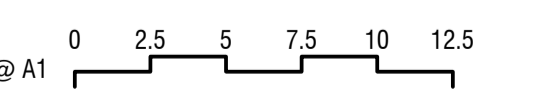
**PRELIMINARY**


A	ISSUED TO AUTHORITY	ML	06/05/22
REV	DESCRIPTION	APP	DATE

**RATHDOWNNE  
STAGE 24 - MICROGRID**

**DETAILED DESIGN**  
PLANTING PLANS - CUT & FILL PLAN FROM CIVIL ENGINEER  
SHEET 4 OF 6  
CITY OF WHITTLESEA  
VILLAWOOD

 N

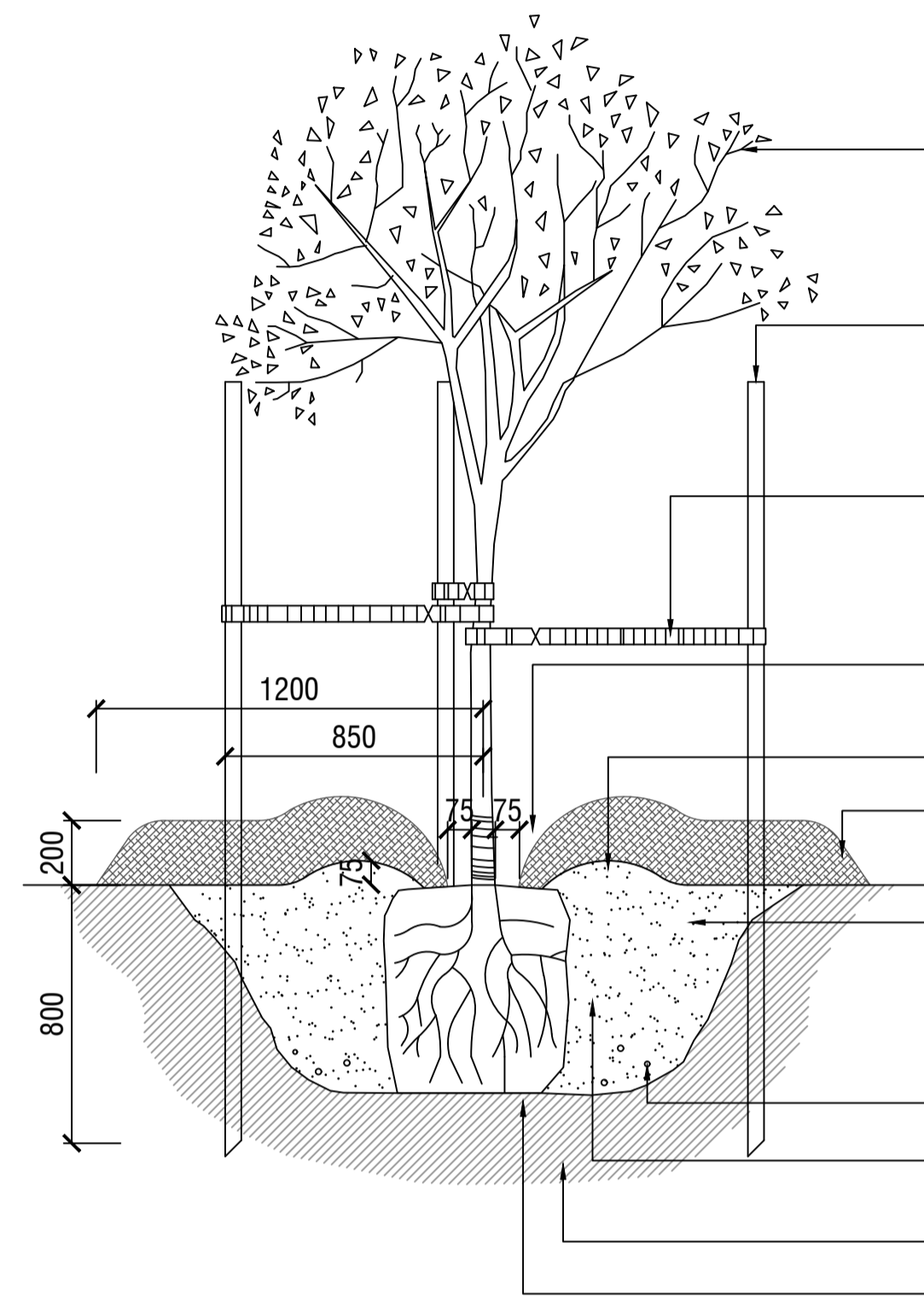
MGA 94 ZONE 1:250 SCALE @ A1 

DESIGNED: \_\_\_\_\_ DRAWN: **ML** CHECKED: \_\_\_\_\_ APPROVED: \_\_\_\_\_

DATE: **2022-05-06** DRG NO: **308736LD702** REV: **A**



PLAN



Tree watering (1): immediately after planting, tree shall be watered thoroughly regardless of weather conditions, quantity of water will be adequate to saturate the root ball to its core

Tree watering (2): post planting, provide a minimum of 15 litres of water (for tree in 45 litre pot) to the newly planted tree per 7 days. Water at a slow rate so as not to displace mulch. For trees in pot size larger than 45 litres, provide quantity of water one third of that pot size.

All trees to be healthy specimens free of pests and diseases. Trees to be well watered a maximum of 24 hours prior to planting.

3 no. 50x50x2400mm hardwood stakes set vertically and clear of rootball and minimum 800mm into ground. Paint all exposed surfaces of stakes with matte black paint. Stakes are to be offset from the nearest underground service a minimum of 200mm to ensure no damage is caused to underground service

3 no. 50mm wide hessian ties loosely wrapped around trunk at 1/3 tree height and shade cloth fasteners to stakes allowing some trunk movement; refer to plan detail above.

Create dish to keep mulch clear of tree trunk. Top of root ball flush with finished level of planting hole.

75mm high berm to form a watering basin

200mm depth of approved aged wood mulch. Mulch shall be spread a minimum of 1200mm diameter from centre of tree and beyond of the planting hole overlapping undisturbed soil

Excavate a shallow planting hole with sloping sides 3 times the width of the root ball and break-up sides and base, refirm base. Depth of planting hole no deeper than the height of the root ball. Backfill with 50/50 blend imported topsoil/site topsoil broken up to friable texture, firming progressively.

Slow release fertiliser (for exotic species only)

Water retaining products to be mixed into backfilled soil as per manufacturers specifications.

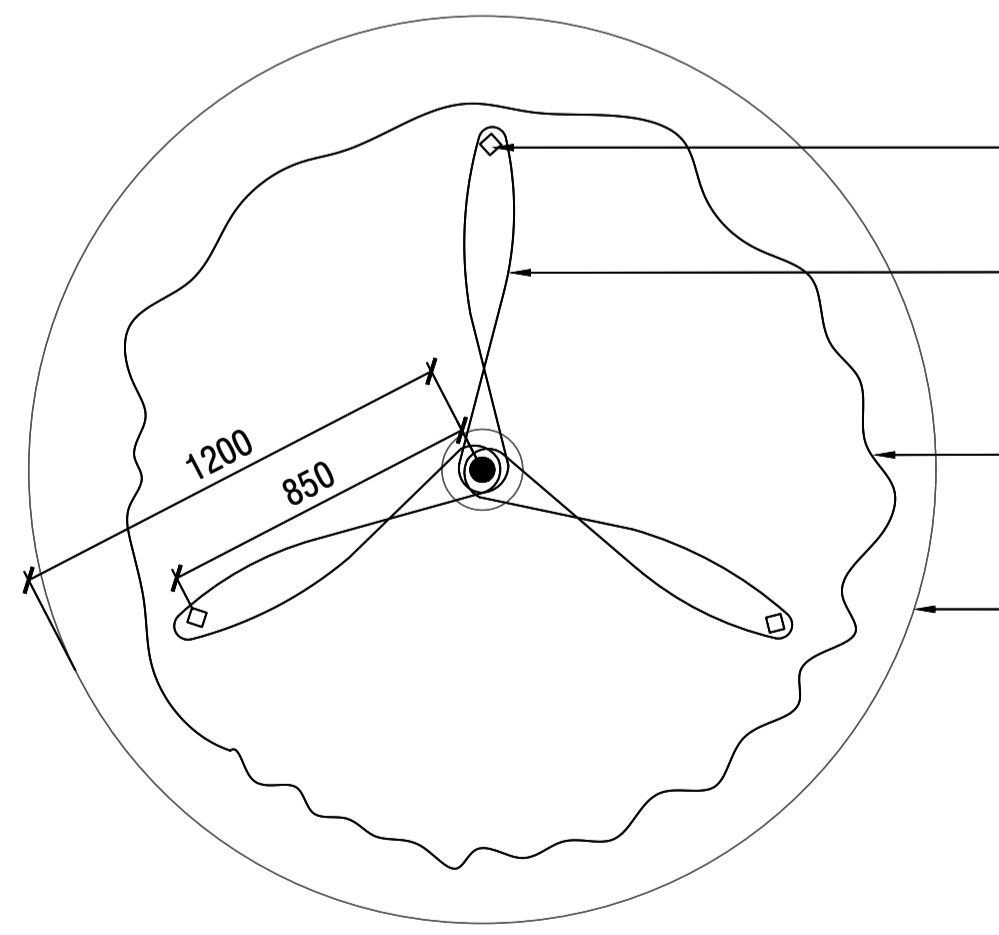
Existing subgrade

Compact soil under rootball to prevent settling

NOTE: it is the responsibility of the contractor to confirm the location of all underground services prior to commencement of any excavation works, tree planting, specifications, street tree offsets / clearance, hold points, species substitution, tree staking and tree maintenance to be undertaken in accordance with City of Whittlesea minimum landscape maintenance specification of services and works May 2010.

1 SEMI-ADVANCED TREE PLANTING DETAIL

Scale 1:20 @ A1



3 no. 50 X 50 X 2400mm hardwood stakes set out as shown

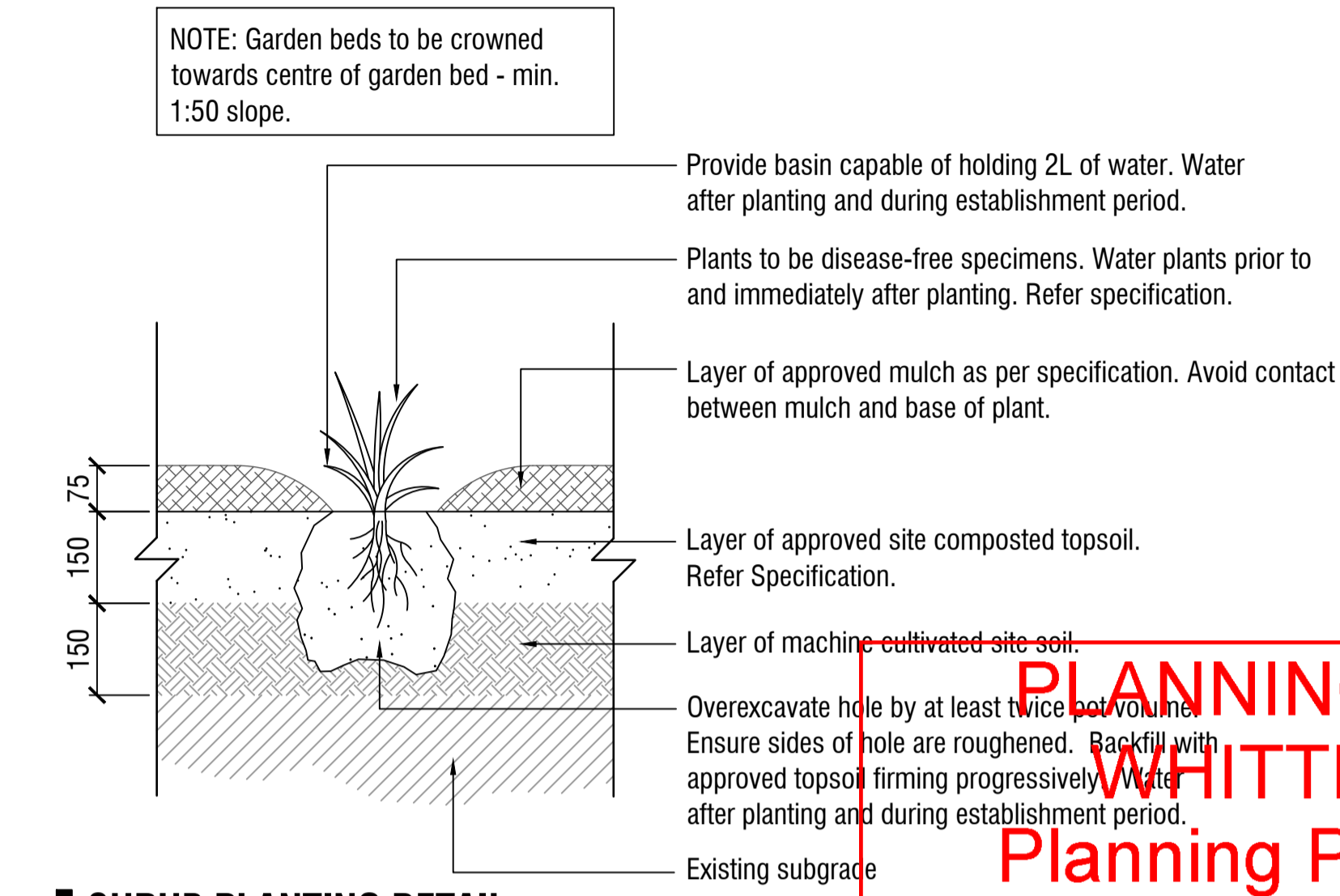
Install 3 no. 50mm hessian ties stapled to hardwood stakes, looped in 'Figure 8' as shown. Fix with shade cloth fasteners

Street tree

Approved mulch shall be spread of minimum of 1200mm diameter from centre of tree

2 TREE TIE DETAIL

Scale 1:20 @ A1



NOTE: Garden beds to be crowned towards centre of garden bed - min. 1:50 slope.

Provide basin capable of holding 2L of water. Water after planting and during establishment period.

Plants to be disease-free specimens. Water plants prior to and immediately after planting. Refer specification.

Layer of approved mulch as per specification. Avoid contact between mulch and base of plant.

Layer of approved site composted topsoil. Refer Specification.

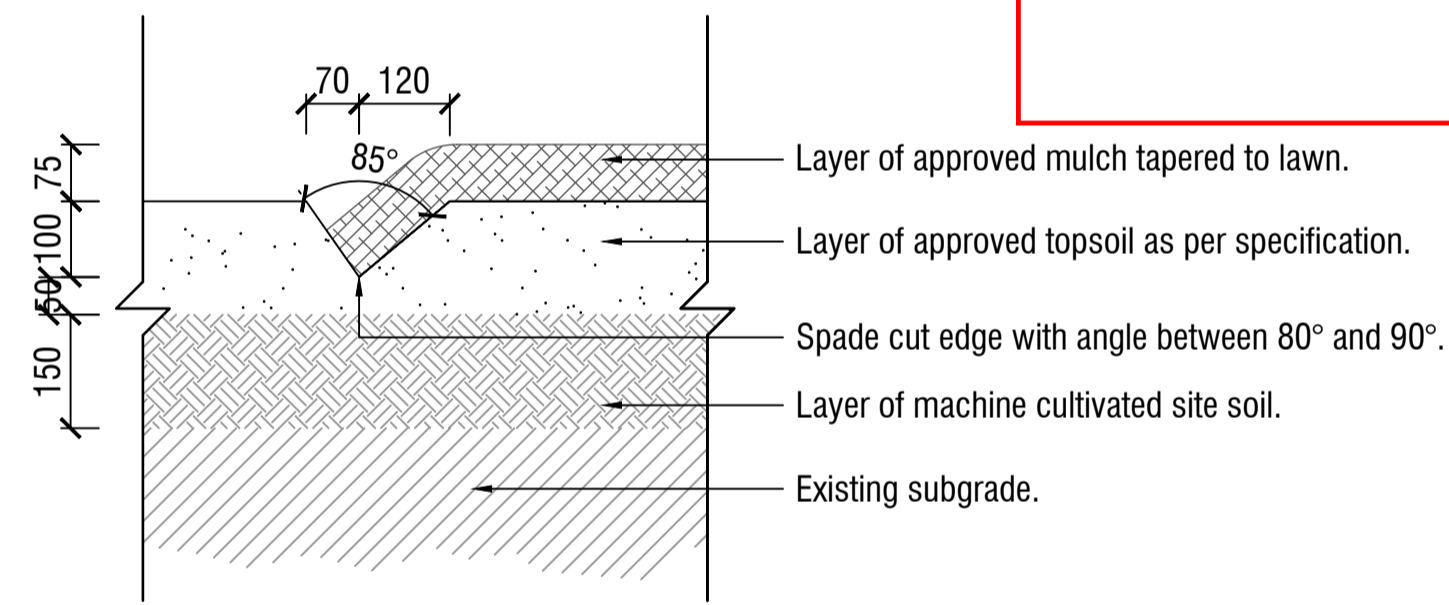
Layer of machine cultivated site soil.

Overexcavate hole by at least twice pot volume. Ensure sides of hole are roughened. Backfill with approved topsoil firming progressively. Water after planting and during establishment period.

Existing subgrade

3 SHRUB PLANTING DETAIL

Scale 1:10 @ A1



Layer of approved mulch tapered to lawn.

Layer of approved topsoil as per specification.

Spade cut edge with angle between 80° and 90°.

Layer of machine cultivated site soil.

Existing subgrade.

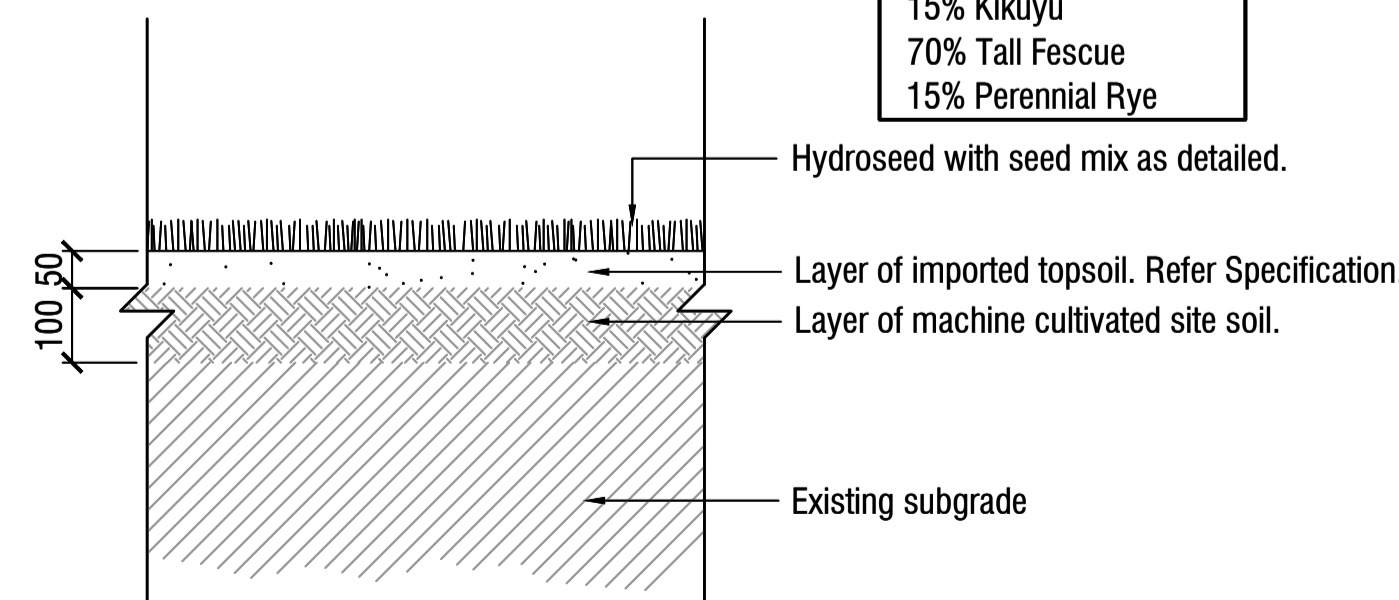
4 SPADE EDGE DETAIL

Scale 1:10 @ A1

NOTES

- Existing pasture grass and/or weeds are to be sprayed with herbicide.
- No machinery to be used within the drip line of existing trees.
- Topsoil to be raked to a fine tilth, removal of all surface rocks, large lumps of clay, weeds and rubbish prior to application of seed to all areas as shown.
- New grassed areas to be protected from trespass and traffic with star pickets and barrier rope until grass is established.

SEED MIX :  
15% Kikuyu  
70% Tall Fescue  
15% Perennial Rye



Hydroseed with seed mix as detailed.

Layer of imported topsoil. Refer Specification.

Layer of machine cultivated site soil.

Existing subgrade

5 HYDROSEEDING GRASS DETAIL

Scale 1:10 @ A1

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WHITTLESEA PLANNING SCHEME  
Planning Permit No: 718965 (Amendment)  
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(Landscape Plan)  
Sheet 6 of 7 Date: 19/05/2022

NOTES

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PRELIMINARY

REV	DESCRIPTION	APP	DATE
B	ISSUED TO COUNCIL	SV	21/10/21
A	ISSUED FOR APPROVAL	SV	26/03/21

RATHDOWNE  
STAGE 24 - MICROGRID

DETAILED DESIGN

DETAILS - SHEET 1

SHEET 5 OF 5

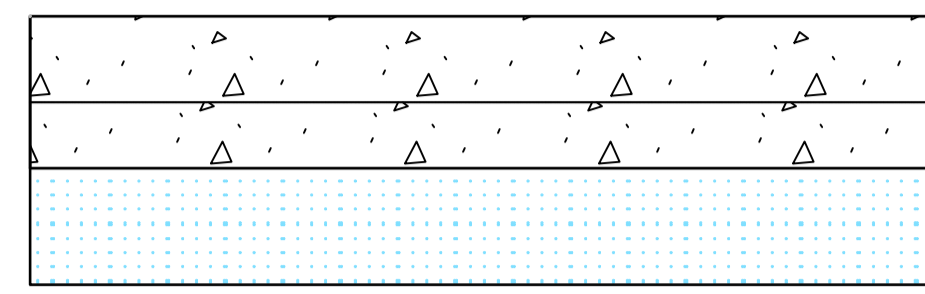
CITY OF WHITTLESEA

VILLAWOOD



AS SHOWN

DESIGNED	DRAWN	CHECKED	APPROVED
ML	SV	SV	SV
DATE	DRG NO.	REV	
26/03/21	308736LD900	B	



200mm DEPTH 32MPa CONCRETE WITH SL82 MESH CENTRALLY PLACED

100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 CRUSHED ROCK TO AT LEAST 95% COMPACTION DENSITY PER AS 1289. ALL JOINTING TO BE AS PER C & C AA GUIDELINES.

SUBGRADE MATERIAL AS FOUND (SILTY CLAY) COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STD) AS1289.5.1.1

NOTE:  
NO RETAINING WALLS or FENCES INVOLVED IN THE MICROGRID PACKAGE

1 STANDARD PAVEMENT DETAIL ADOPTED FROM CIVIL ENGINEER  
Scale 1:10 @ A1

**PLANNING & ENVIRONMENT ACT 1987  
WHITTLESEA PLANNING SCHEME  
Planning Permit No: 718965 (Amendment)  
ENDORSED PLAN  
Endorsed to show compliance with Condition (s) 3  
(Landscape Plan)  
Sheet 7 of 7 Date: 19/05/2022**



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**PRELIMINARY**

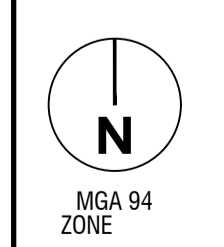

A	ISSUED TO AUTHORITY	ML	06/05/22
REV	DESCRIPTION	APP	DATE

**RATHDOWNNE**

**STAGE 24 - MICROGRID**

**DETAILED DESIGN**

DETAILS - SHEET 2  
SHEET 5 OF 5  
CITY OF WHITTLESEA  
VILLAWOOD



**AS SHOWN**

DESIGNED	DRAWN	CHECKED	APPROVED
	<b>ML</b>		
DATE	DRG NO.	REV	
<b>2022-05-06</b>	<b>308736LD901</b>	<b>A</b>	