

Section AA: Access Road Section



Key Plan - Section location
NTS

Drawing Title:
Landscape Sections - Sheet 1
DWG No:

SSD-09

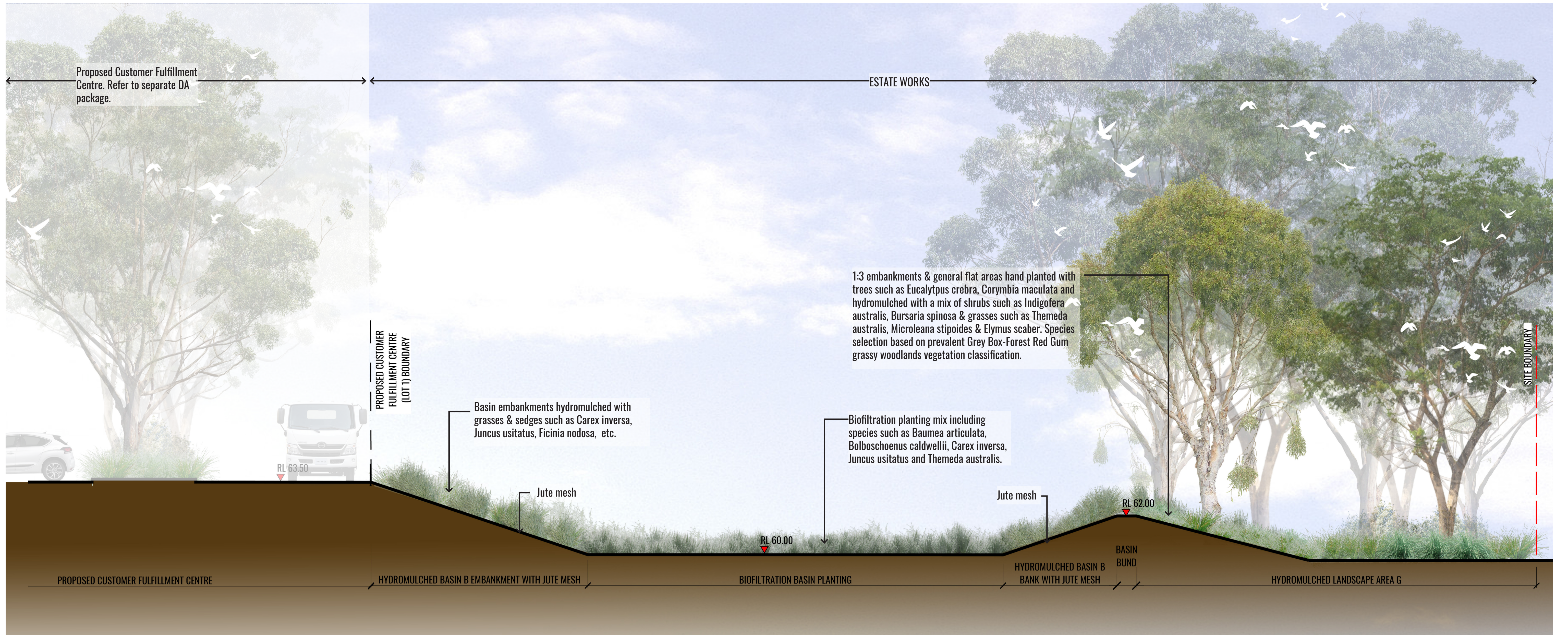
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Architect:
LEFFLER SIMES ARCHITECTS

Client:
Charter Hall

Scale: 1:50 @ A1
1:100 @ A3
Date: 24.06.20
Job Number: 191128
North:
Project: **Horsley Business Park - Stage 2**
Wetherill Park, NSW 2164

Revision			FOR SSD MODIFICATION	
Rev	Date	Description	Drawn	Checked
I	17.06.20	Updated for SSD-Modification	SB	BG
J	24.06.20	Updated for SSD-Modification	SB	BG



Section BB: OSD Basin (South)



Key Plan - Section location
NTS

Drawing Title:
Landscape Sections - Sheet 2
DWG No:

SSD-10

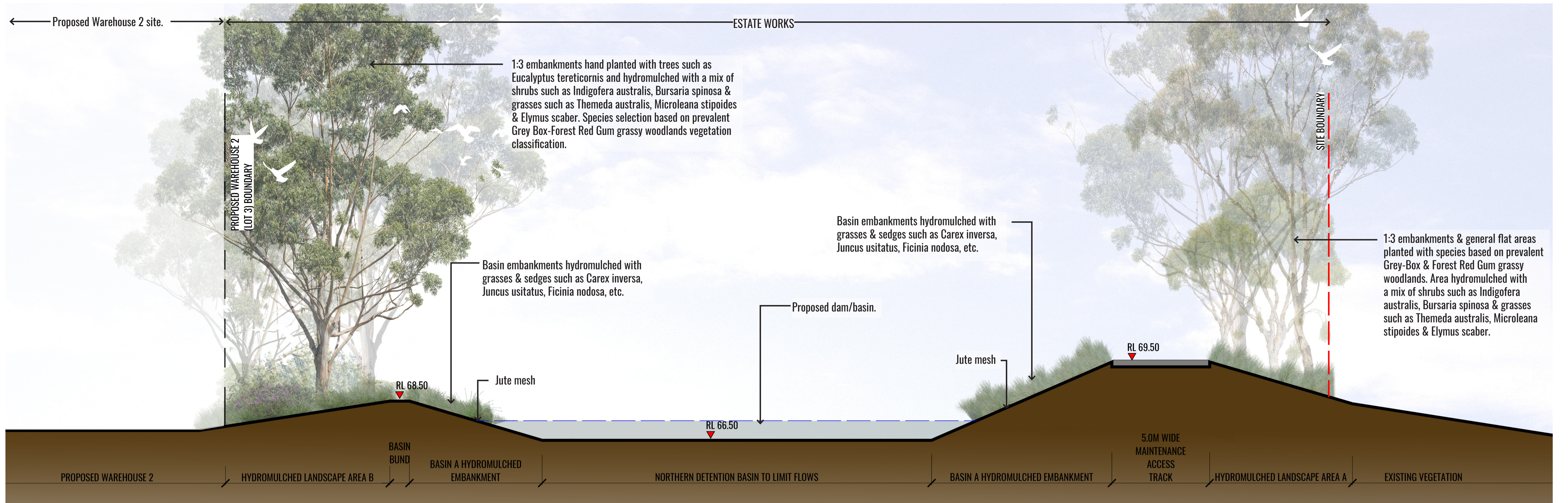
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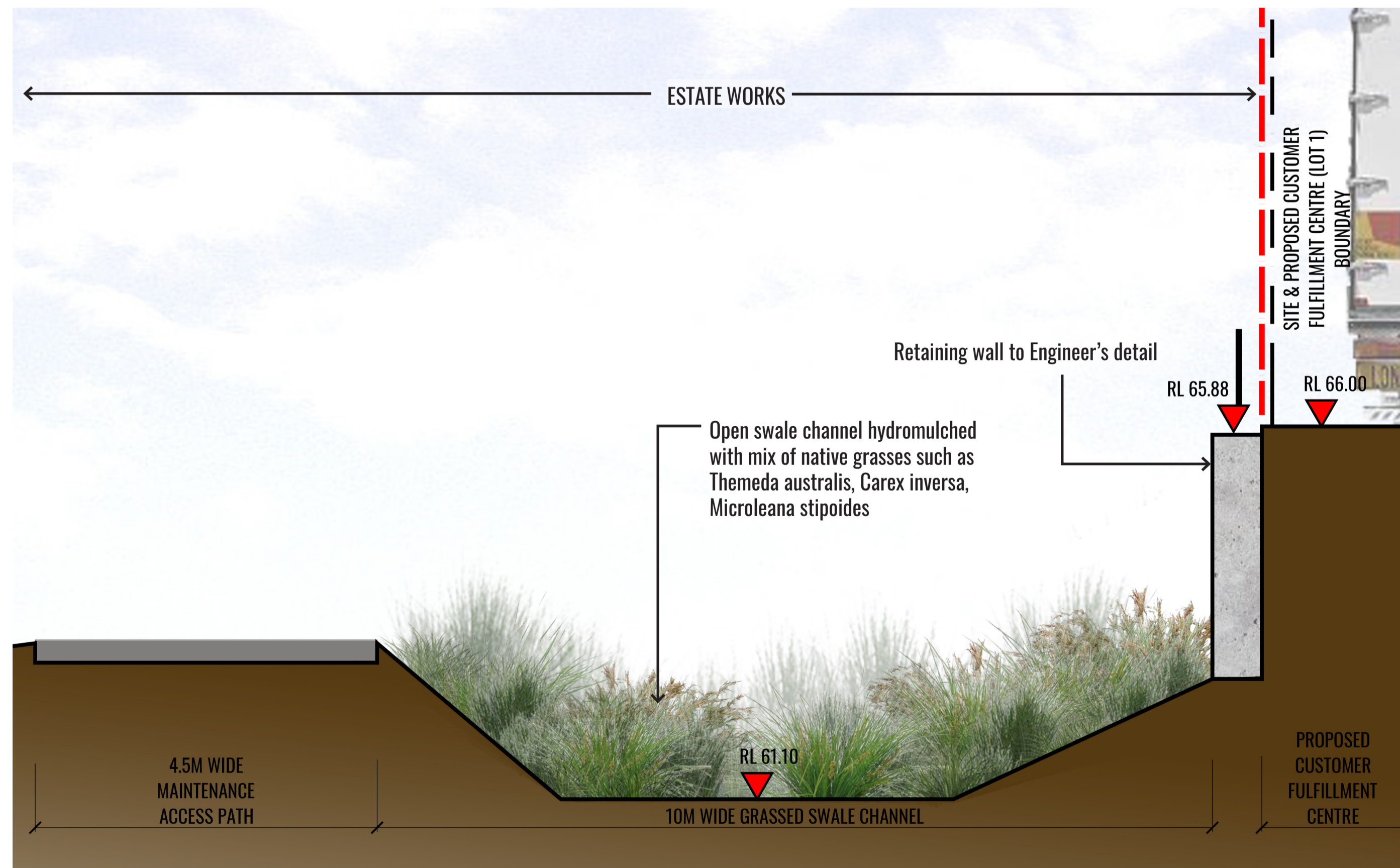
Client:
Charter Hall

Scale: 1:75 @ A1, 1:150 @ A3
Date: 24.06.20
Job Number: 191128
North:
Project: **Horsley Business Park - Stage 2**
Wetherill Park, NSW 2164

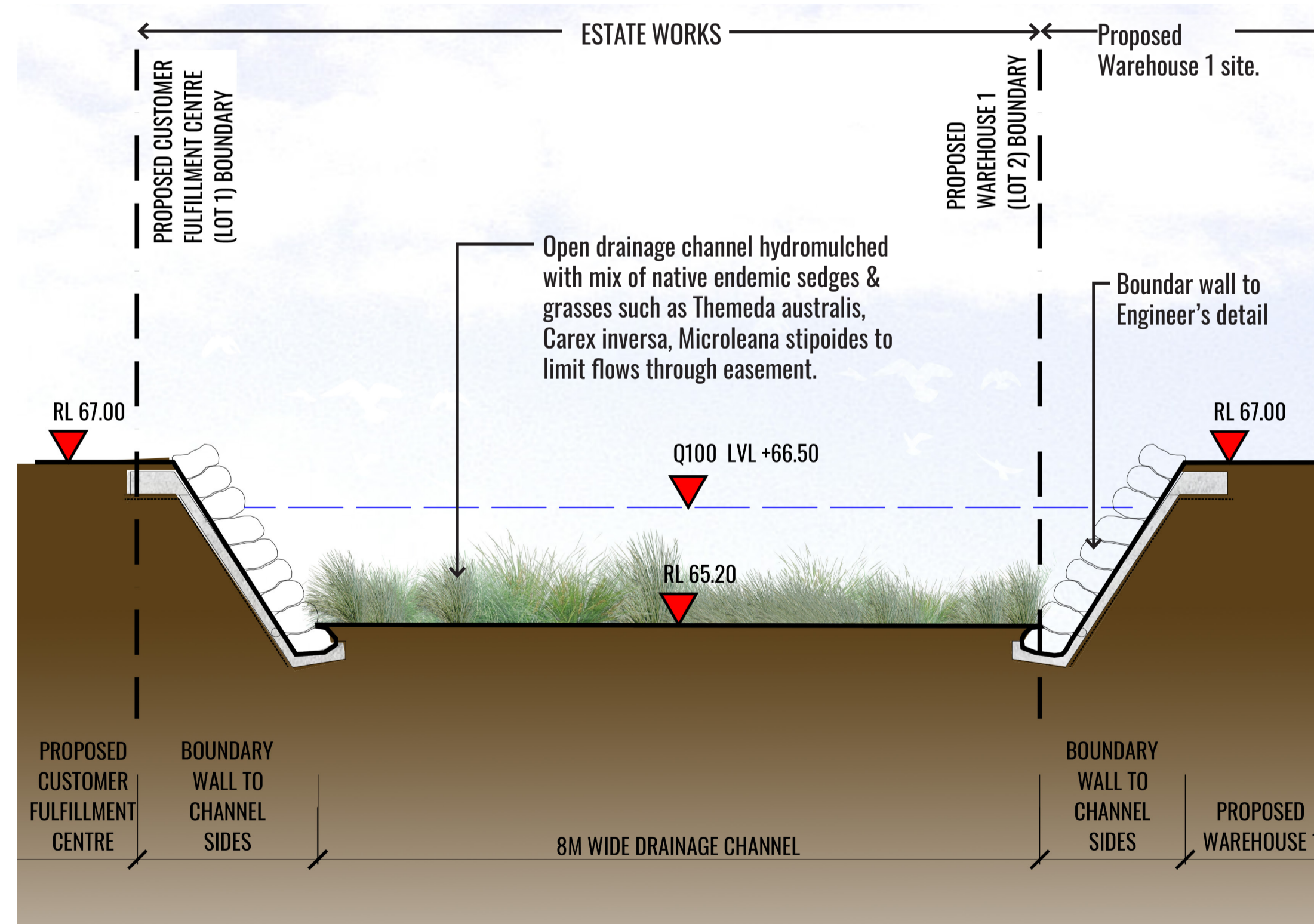
Revision			FOR SSD MODIFICATION	
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Section CC: Northern Detention Basin Section
Scale 1:100



Section EE: Swale Channel Section
Scale 1:50



Section DD: Western Drainage Channel Section
Scale 1:50



Key Plan - Section location
NTS

Drawing Title:
Landscape Sections - Sheet 3
DWG No: **SSD-11**

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Architect:
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Client:
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Scale: As shown @ A1
Date: 24.06.20
Job Number: 191128
North:
Project: **Horsley Business Park - Stage 2**
Wetherill Park, NSW 2164

Revision			FOR SSD MODIFICATION	
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MAINTENANCE PLAN

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. The landscape contractor shall attend the site on a **weekly basis** to maintain the landscape works commencing from practical completion.

Rubbish Removal

The Landscape Contractor shall undertake rubbish removal from the site on a **weekly basis** to ensure the site remains in tidy condition.

Weed Eradication

Weed growth that may occur in grassed, planted or mulched areas is to be removed using environmentally acceptable methods i.e. non-residual glyphosate herbicide (e.g. 'Roundup', applied in accordance with the manufacturer's direction).

Tree Replacement

Trees shall show signs of healthy vigorous growth and be free from disease and not exhibit signs of stress prior to handover to the client. Any trees or plant that die or fail to thrive, or are damaged or stolen will be replaced. Replacement material shall have the initial maintenance period extended in accordance with the landscape contract conditions. Trees and plant materials shall be equal to the minimum requirements of species specified and approved material delivered to site. Should the condition decline from the approved sample the Superintendent reserves the right to reject the tree / plants.

Frequency: as required.

Stakes

Adjust and/or replace stakes and ties where required. Remove staking and guying when instructed by the Superintendent

Pruning

Selective pruning may be required during the establishment period to promote a balanced canopy structure. These activities shall be carried out to the best horticultural and industry practice. All pruned material is to be removed from site.

Mulched Surfaces

All planter beds and garden areas shall have a minimum depth of 75mm organic mulch. All mulch is to be free of deleterious matter such as soil, weeds, sticks and should conform to AS 4454.

Mulched surfaces are to be kept clean and tidy and free of any deleterious material and foreign matter. Reinstall depths to a uniform level of 75mm with mulch as specified, mulch to be free of any wood material impregnated with CCA or similar toxic treatment. Top up mulch levels prior to handover to client & estate management.

Watering

Implement an appropriate hand watering regime in areas not irrigated in association with current watering programme to maintain plant health and vigour. The program shall reflect seasonal conditions and plant species.

Frequency: Weekly or as required.

Soil In Natural Ground

Australian native garden beds to have soil installed consisting of 50% existing site topsoil and 50% new topsoil equal or equivalent to 'Native Low 'P' Mix' as supplied by Australian Native Landscapes. Soil to conform to AS4419 refer to typical detail.

Pest and Disease Control

The Landscape Contractor shall spray for pests and disease infestations when the pest and fungal attack has been positively identified and when their populations have increased to a point that will become detrimental to plant growth. Apply all pesticides to manufacturer's directions.

Frequency: weekly inspection

Fertilising

Generally check for signs of nutrient deficiencies (yellowing of leaves, failure to thrive), and adapt fertiliser regime to suit. Fertiliser should be applied at the beginning and the end of the (summer) growing season.

Irrigation

A sub surface dripper style, electrically automated self timed irrigation system is recommended to be supplied to all feature planting areas. Regular checks are to be made to ensure continued successful operation. The Landscape Contractor shall be responsible for coordination and engagement of a specialist irrigation designer and installation contractor to design, supply and install an automatic subterranean drip irrigation system to all raised planter beds.

The irrigation system will need to provide designated landscaped areas with enough water for vigorous healthy plant growth. As a general rule landscaped areas will need 20-25mm, species dependant, of water per week. The landscape Contractor will need to monitor natural rainfall using a rain switch in order to set irrigation flow rates accordingly on a monthly basis.

Standards

All grown or purchased plant stock must conform to all the conditions and requirements given in NATSPEC Guide: Specifying Trees. Soils to be in accordance with AS4419, mulching composts and conditioners to be in accordance with AS4454. Soils should conform to best practice specifications as listed in the Landscape Soils Handbook (Simon Leake & Elke Haeg 2017).

Note: Full specifications & Landscape Management Plan (LMP) to be prepared at CC/Tender Stage.

Drawing Title:

Typical Specifications & Details

DWG No:

SSD-12

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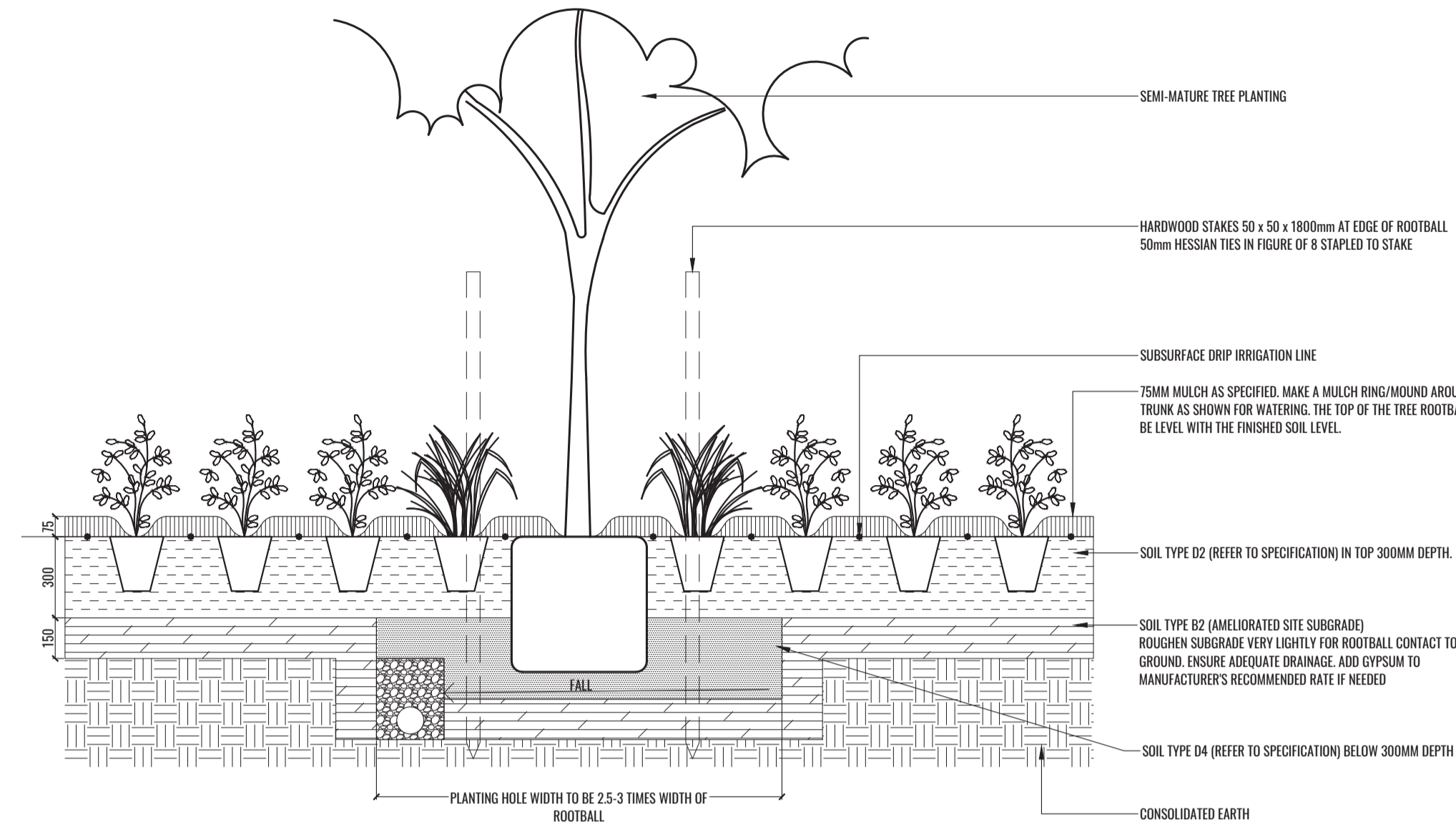
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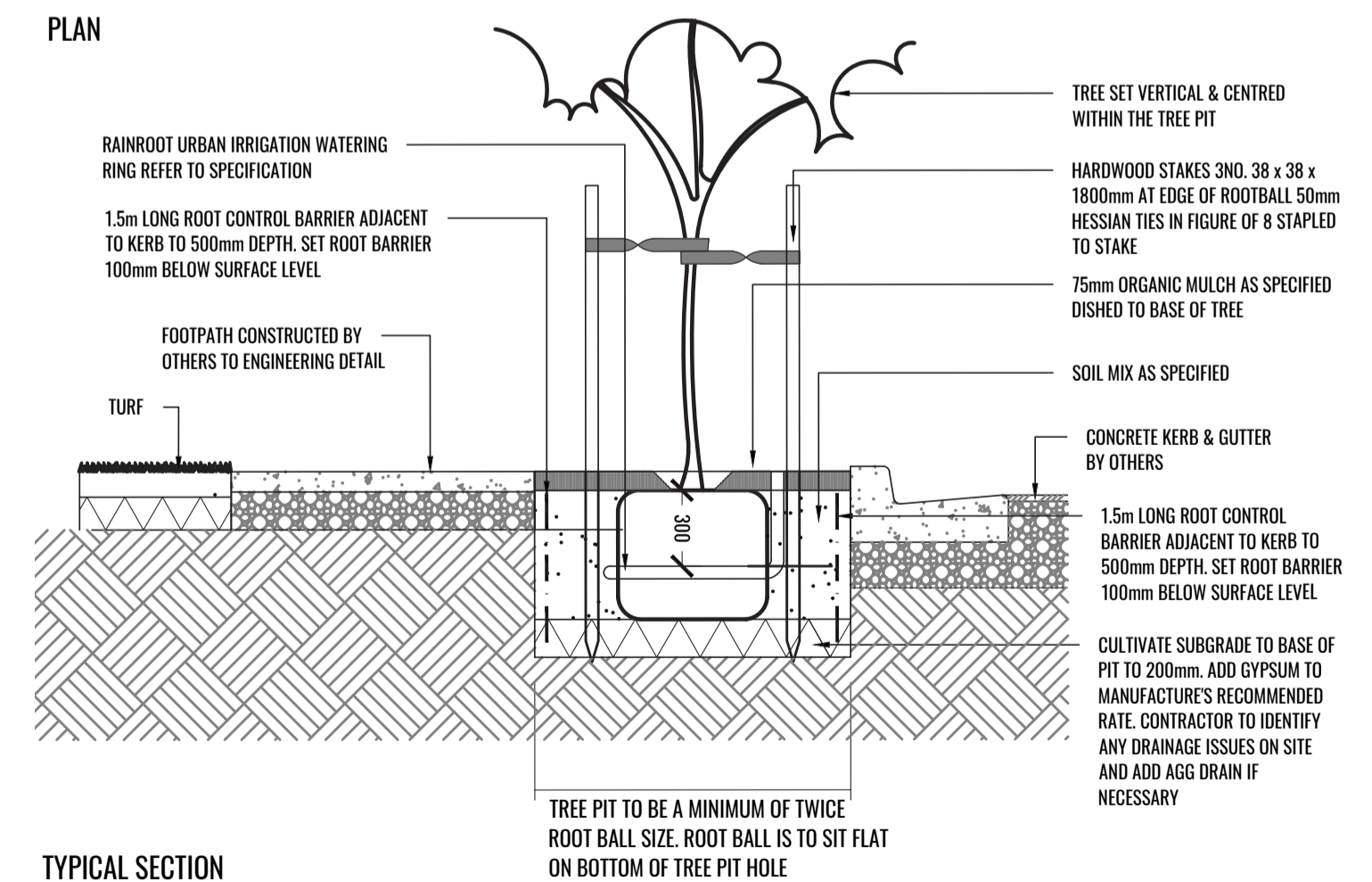
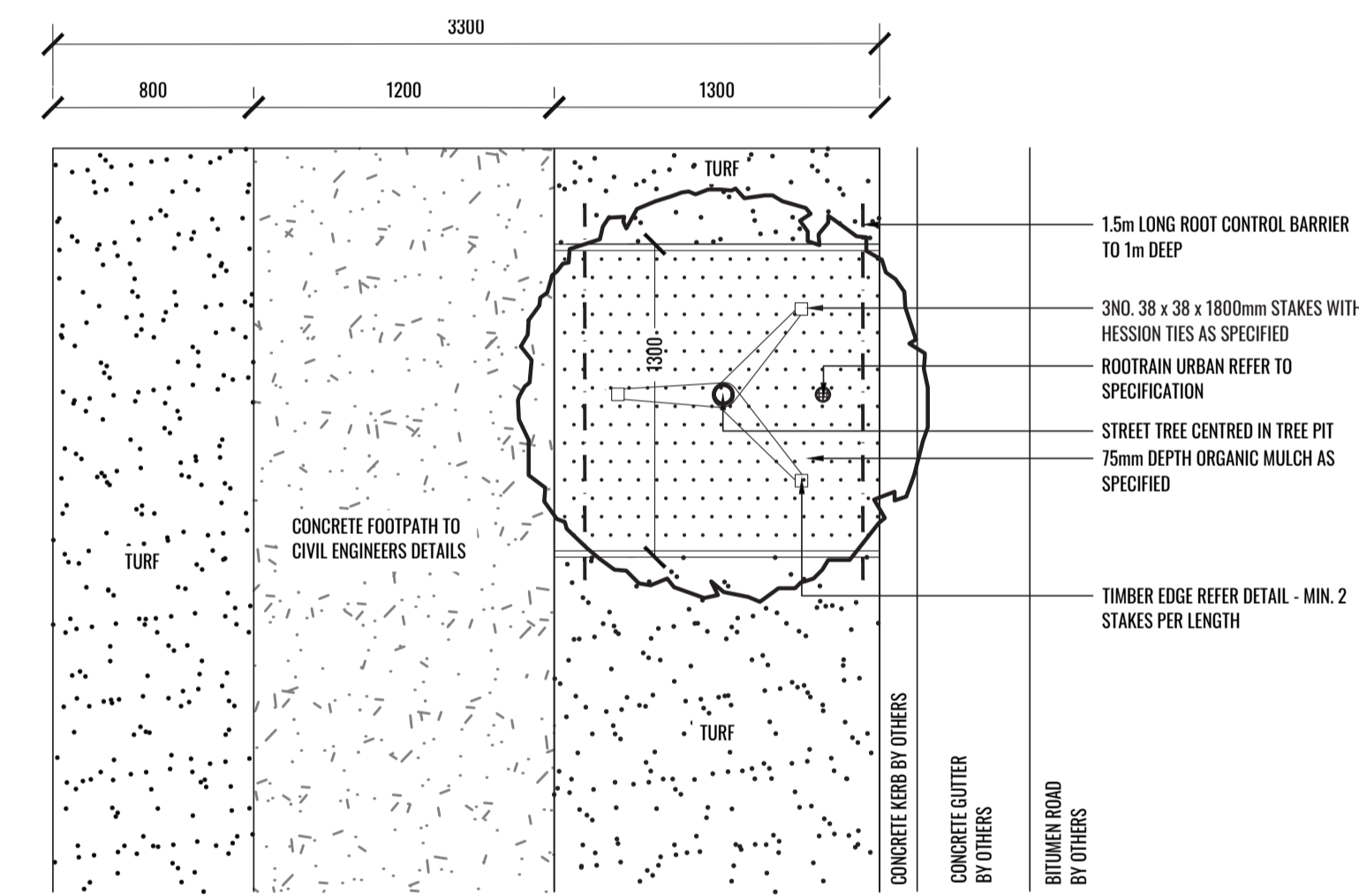
TYPICAL DETAILS

TREE/SHRUB SIZE AND QUALITY TO BE TO NATSPEC STANDARD. SPECIES IS TO BE AS PER PLAN AND PLANT SCHEDULE. ENSURE ONLY HEALTHY AND VIGOROUS, DISEASE FREE, WELL MAINTAINED PLANTS ARE USED. TAKE CARE TO ENSURE FOLIAGE, BRANCHES, TRUNKS AND ROOT CROWNS ARE NOT DAMAGED BEFORE, DURING AND AFTER PLANTING. ENSURE OPTIMUM MAINTENANCE AND ESTABLISHMENT OF TREES/SHRUBS OCCURS AS SOON AS THEY ARE AT SITE

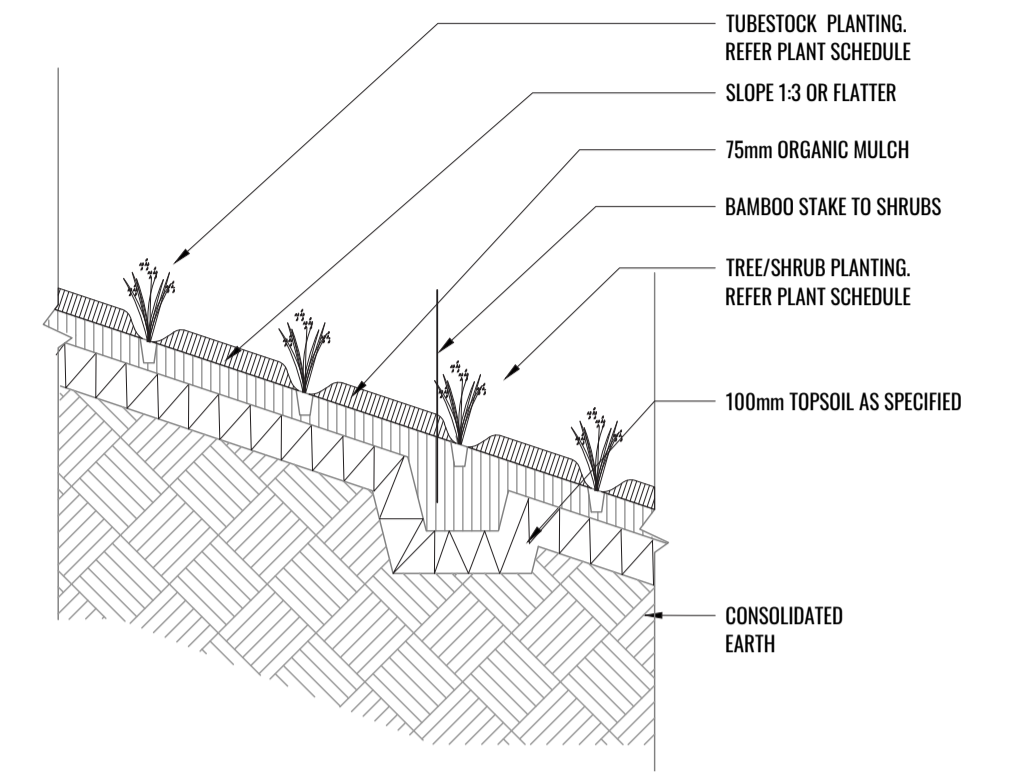


THOROUGHLY SOAK THE ROOTBALL OF TREE WITH FRESH WATER BEFORE TAKING OFF POT OR BAG. WHEN PLANTING HOLE IS COMPLETE USE A SHARP SPADE TO SHAVE OFF 20-50MM OF THE SIDES AND BASE OF ROOTBALL (TO ROOT PRUNE IT) BEFORE CAREFULLY PLACING INTO PLANTING HOLE. IF NORTH IS MARKED ON THE TREE, ENSURE ORIENTATION IS CORRECT WITH NORTH MARKING TO THE NORTH.
- REMOVE ANY STAKES, TIES AND LABELS. WATER ROOTBALL THOROUGHLY.
- TOP OF ROOTBALL TO FINISH FLUSH WITH TOP OF SOIL.

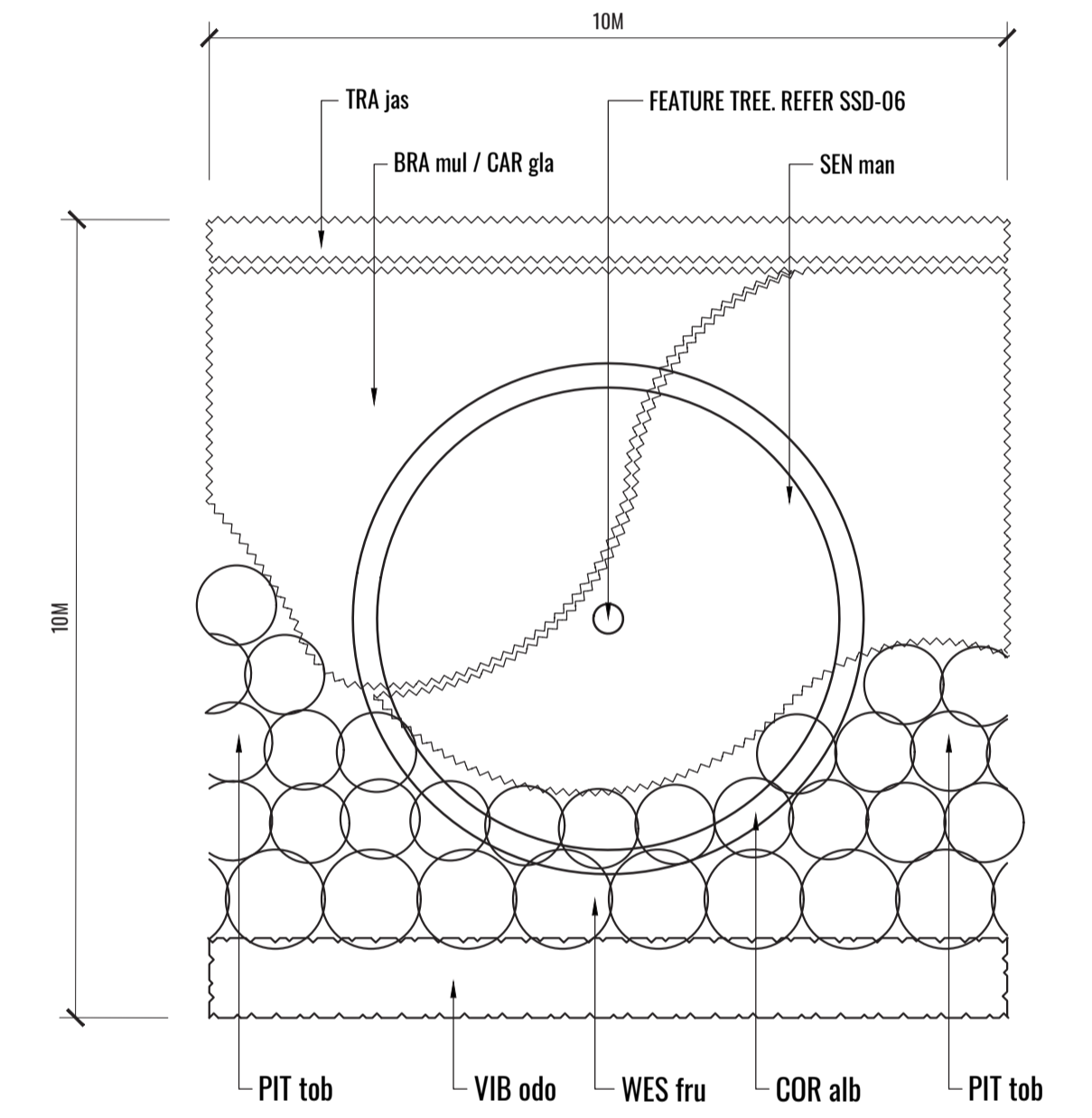
1 Mass tree & groundcover planting detail
Scale 1:20



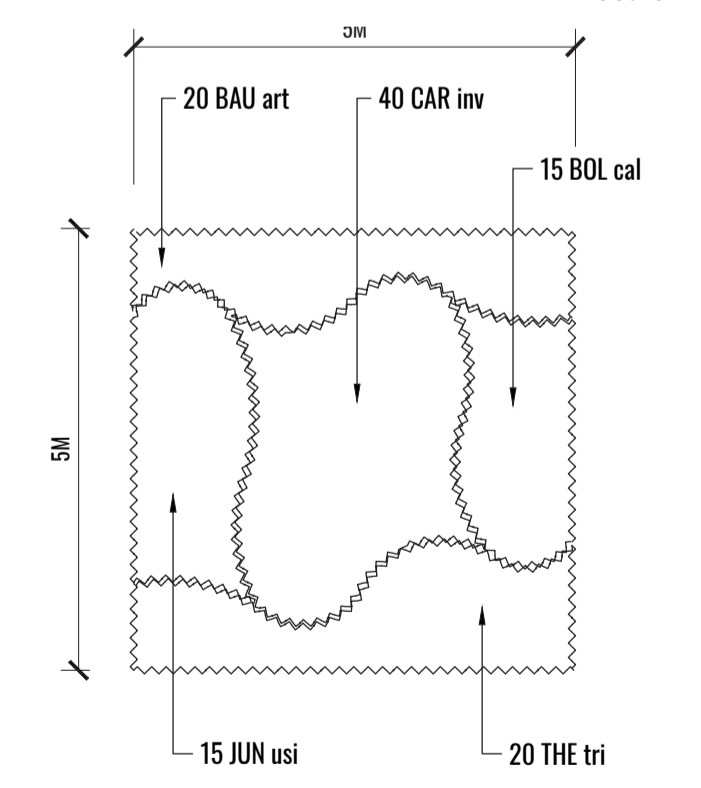
2 Typical Street Tree Planting in grassed verge
Scale 1:20



3 Typical tubestock planting details on 1:3 grade or flatter
Scale 1:60



4 Typical feature planting matrix (10m x 10m)
Scale 1:100



5 Typical biofiltration planting matrix (5m x 5m)
Scale 1:100

Note: Planting to be arranged in non-linear patterns to create natural appearance of grasses & groundcovers. Refer to plant schedule for plant densities & numbers.

Revision	FOR SSD MODIFICATION				
	Rev	Date	Description	Drawn	Checked
I	17.06.20	Updated for SSD-Modification	SB	BG	
J	24.06.20	Updated for SSD-Modification	SB	BG	

Scale: As Shown @ A1 Date: 24.06.20 Job Number: 191128 North: N/A

Project: Horsley Business Park - Stage 2 Wetherill Park, NSW 2164

Client: **Charter Hall**

PLANT SCHEDULE

Plant Schedule - General hand laid landscape areas & sitewide trees								
PLANT CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	NATIVE	ENDEMIC	POT SIZE	PLANTING DENSITY	QTY.**
Hand Laid Landscape Areas								
Street Trees								
MAG GRA	<i>Magnolia grandiflora</i> 'Little Gem'	Southern Magnolia	6m			100L	As Shown	9
BAC CIT	<i>Backhousia citriodora</i>	Lemon Myrtle	10m	✓		100L	As Shown	17
Feature Trees along Cowpasture Road								
BRA ACE	<i>Brachychiton acerifolius</i>	Illawarra Flame Tree	12m	✓		100L	As Shown	3
TRI LAU	<i>Tristanopsis luscious 'Larurina'</i>	Water Gum	15m	✓		100L	As Shown	6
Shrubs and hedging								
COR alb	<i>Correa alba</i> 'Coastal Pink'	Pink Correa	1.5m	✓		200mm	As Shown	38
WES fru	<i>Westringia fruticosa</i> 'Mundi'	Native Rosemary	0.5m	✓		200mm	As Shown	58
VIB odo	<i>Viburnum odoratissimum</i>	Sweet Viburnum	2m	✓		200mm	500mm centres	210
Grasses & Groundcovers								
BRA mul	<i>Brachyscome multifida</i>	Native Daisy	0.2m	✓		140mm	4/m2	688
CAR gla	<i>Carpobrotus glaucescens</i>	Pigface	0.2m	✓		140mm	3/m2	384
SEN man	<i>Senecio mandraliscae</i>	Blue Chalksticks	0.3m	✓		140mm	3/m2	571
TRA jas	<i>Trachelospermum jasminoides</i>	Star Jasmine	0.3m			140mm	3/m2	183
Overall Sitewide Revegetation								
Sitewide Revegetation Trees								
ACA PYC	<i>Acacia pycnantha</i>	Golden Wattle	8m	✓	✓	45L	As Shown	45
BRA POP	<i>Brachychiton populneus</i>	Kurrajong	20m	✓		45L	As Shown	9
COR MAC	<i>Corymbia maculata</i>	Spotted Gum	20m	✓	✓	45L	As Shown	20
EUC CRE	<i>Eucalyptus crebra</i>	Narrow leaved Ironbark	20m	✓	✓	45L	As Shown	19
EUC EUG	<i>Eucalyptus eugenioides</i>	Thin-leaved Stringybark	30m	✓	✓	45L	As Shown	17
EUC MOL	<i>Eucalyptus moluccana</i>	Grey Box	25m	✓	✓	45L	As Shown	17
EUC TER	<i>Eucalyptus tereticornis</i>	Forest Red Gum	20m	✓	✓	45L	As Shown	17
MEL LIN	<i>Melaleuca linariifolia</i>	Snow-in-Summer	10m	✓		45L	As Shown	34

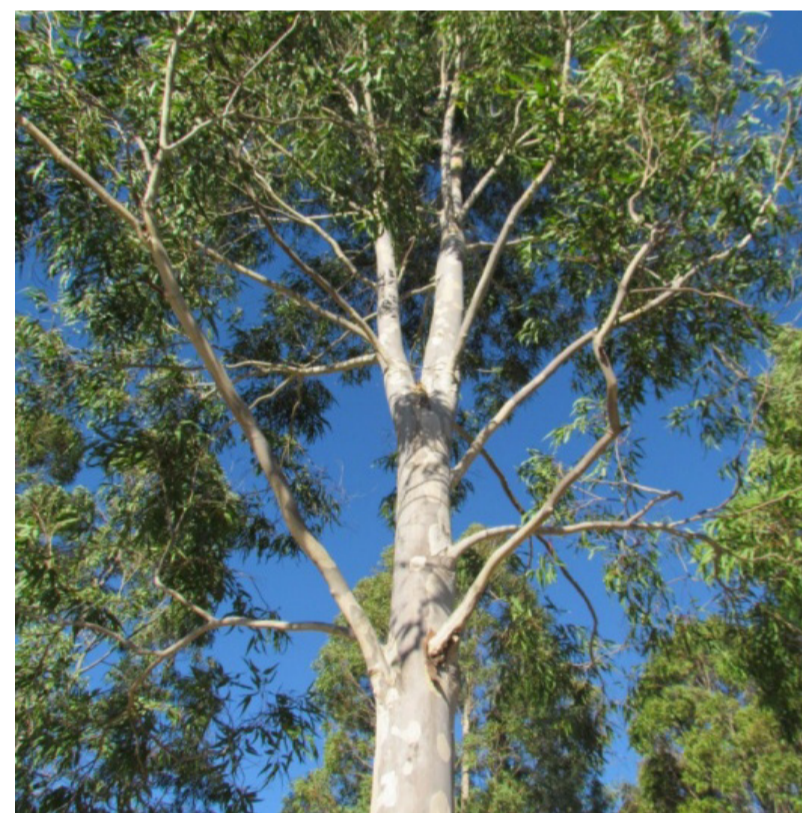
** Final numbers to be confirmed at Construction Certificate stage

Plant Schedule - Hydromulched Mix 1: Landscape Areas A to F										
PLANT CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	NATIVE	ENDEMIC	SEED TYPE	APP RATE			
Landscape Areas A to H: Hydromulch Mix 1 (HM1) Area = 14,235 m2 = 1.42 ha										
Covercrop grass (Species chosen as per sowing season)										
ECH esc	<i>Echinochloa esculenta</i>	Japanese millet (Summer sowing)	0.6m			Perennial	35kg/ha			
SEC cer	<i>Secale cereale</i>	Rye Corn (Winter sowing)	0.4m			Perennial	35kg/ha			
Shrubs										
ACA par	<i>Acacia paramattensis</i>	Paramatta Wattle	4m	✓	✓	Florets	1 kg/ha			
BUR spi	<i>Bursaria spinosa</i>	Blackthorn	3m	✓	✓	Florets	1 kg/ha			
DOD cun	<i>Dodonaea viscosa subsp. cuneata</i>	Sticky Hop Bush	3m	✓	✓	Florets	2 kg/ha			
IND aus	<i>Indigofera australis</i>	Native Indigo	2m	✓	✓	Florets	500gm/ha			
Native Grasses										
CHL tru	<i>Chloris truncata</i>	Windmill Grass	0.5m	✓		Florets	1 kg/ha			
ELY sca	<i>Elymus scaber</i>	Native Wheat Grass	1.2m	✓		Florets	3 kg/ha			
MIC sti	<i>Microlaena stipoides</i>	Weeping Grass	0.5m	✓	✓	Florets	1 kg/ha			
LOM tan	<i>Lomandra longifolia 'Tanika'</i>	Mat rush	0.6m	✓		Florets	500gm/ha			
THE aus	<i>Themeda australis</i>	Kangaroo Grass	0.8m	✓	✓	Florets	1 kg/ha			
Plant Schedule - Hand planted Biofiltration Basin										
PLANT CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	NATIVE	ENDEMIC	POT SIZE	PLANTING DENSITY	QTY.**		
OSD/Biofiltration Basin Planting Mix										
BAU art	<i>Baumea articulata</i>	Jointed Twigrush	1m	✓		Tubestock	5/m2	1132		
BOL cal	<i>Bolboschoenus caldwellii</i>	Marsh Club-Rush	1m	✓		Tubestock	5/m2	1132		
CAR inv	<i>Carex inversa</i>	Knob Sedge	1m	✓	✓	Tubestock	5/m2	1132		
JUN usi	<i>Juncus usitatus</i>	Common Rush	2m	✓		Tubestock	5/m2	1132		
THE tri	<i>Themeda triandra</i>	Kangaroo Grass	0.8m	✓	✓	Tubestock	5/m2	1132		

** Final numbers to be confirmed at Construction Certificate stage

Plant Schedule - Hydromulch mix 2: Basins A,B,C										
PLANT CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	NATIVE	ENDEMIC	SEED TYPE	APP RATE			
Basin A, B & C: Hydromulch Mix 2 (HM2) Area = 9,427 m2 = 0.94 ha										
Covercrop grass (Species chosen as per sowing season)										
ECH esc	<i>Echinochloa esculenta</i>	Japanese millet (Summer sowing)	0.6m			Perennial	35kg/ha			
SEC cer	<i>Secale cereale</i>	Rye Corn (Winter sowing)	0.4m			Perennial				
Native Grasses										
MIC sti	<i>Microlaena stipoides</i>	Weeping Grass	0.5m	✓	✓	Florets	1 kg/ha			
LOM tan	<i>Lomandra longifolia 'Tanika'</i>	Mat rush	0.6m	✓		Florets	500gm/ha			
THE aus	<i>Themeda australis</i>	Kangaroo Grass	0.8m	✓	✓	Florets	1 kg/ha			
CAR inv	<i>Carex inversa</i>	Knob Sedge	1m	✓	✓	Florets	1 kg/ha			
FIC nod	<i>Ficinia nodosa</i>	Knobby Club Rush	0.8m	✓		Florets	1 kg/ha			
JUN usi	<i>Juncus usitatus</i>	Common Rush	1m	✓		Florets	500gm/ha			
** Final numbers to be confirmed at Construction Certificate stage										
Plant Schedule - Hydromulch mix 3: Swales										
PLANT CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	NATIVE	ENDEMIC	SEED TYPE	APP RATE			
Swales A to F: Hydromulch Mix 3 (HM3) Area = 4,282 m2 = 0.42 ha										
Covercrop grass (Species chosen as per sowing season)										
ECH esc	<i>Echinochloa esculenta</i>	Japanese millet (Summer sowing)	0.6m			Perennial	35kg/ha			
SEC cer	<i>Secale cereale</i>	Rye Corn (Winter sowing)	0.4m			Perennial				
Native Grasses										
MIC sti	<i>Microlaena stipoides</i>	Weeping Grass	0.5m	✓	✓	Florets	1 kg/ha			
THE aus	<i>Themeda australis</i>	Kangaroo Grass	0.8m	✓	✓	Florets	1 kg/ha			
CAR inv	<i>Carex inversa</i>	Knob Sedge	1m	✓	✓	Florets	1 kg/ha			
** Final numbers to be confirmed at Construction Certificate stage										

PLANT IMAGES



Corymbia maculata



Eucalyptus eugenioides



Backhousia citriodora



Magnolia grandiflora 'Little Gem'



Bursaria spinosa



Dodonaea viscosa subsp. cuneata



Indigofera australis



Carex inversa



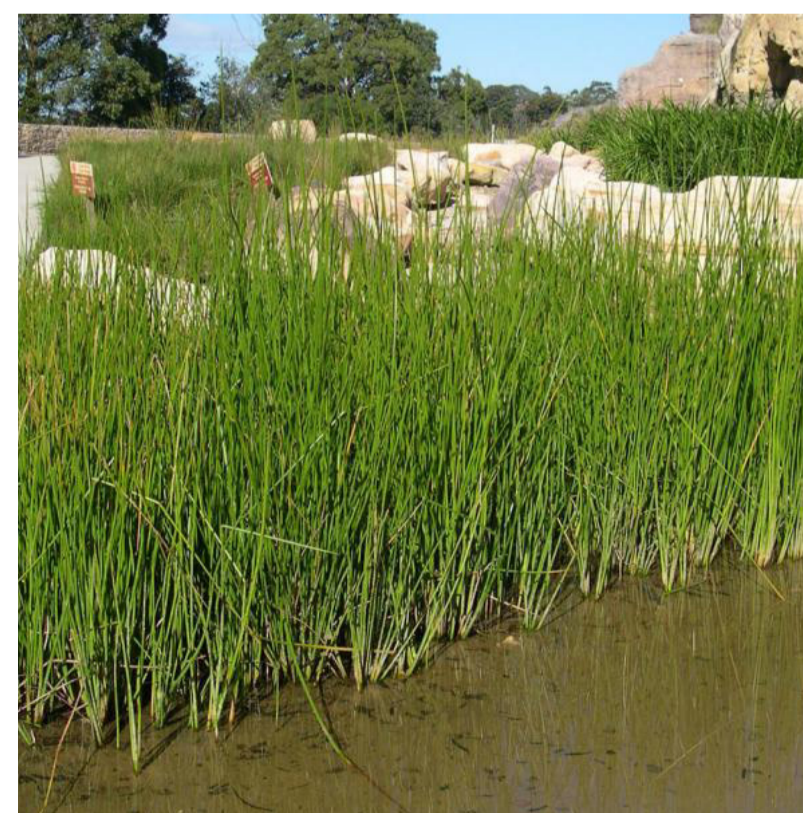
Juncus usitatus



Chloris truncata



Elymus scaber



Baumea articulata



Microleana stipoides



Themeda australis

Drawing Title:
Plant Schedules & Imagery
DWG No:

SSD-13

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