# Customer Fulfillment Centre, Horsley Drive Business Park Stage 2, Wetherill Park, NSW 2164

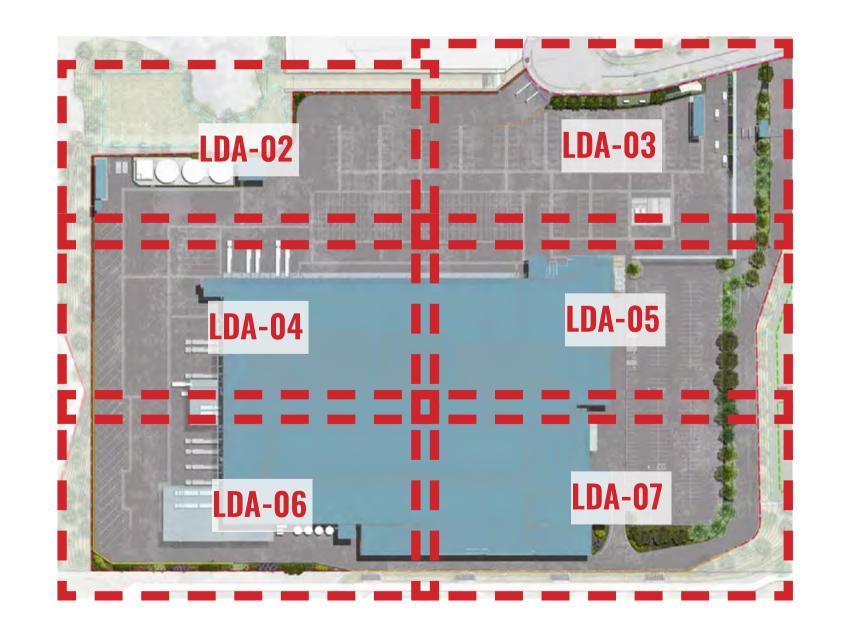
# Landscape Documentation for Development Application



# **Drawing Register**

Dwg No.	Drawing Name
LDA-00	Landscape Cover Sheet
LDA-01	Landscape Master Plan
<b>LDA-02</b>	Landscape Detail Plan 1
LDA-03	Landscape Detail Plan 2
LDA-04	Landscape Detail Plan 3
<b>LDA-05</b>	Landscape Detail Plan 4
LDA-06	Landscape Detail Plan 5
<b>LDA-07</b>	Landscape Detail Plan 6
LDA-08	Landscape Section AA
LDA-09	Landscape Section BB & CC
LDA-10	Planting Matrices
LDA-11	Specification & Typical Details
LDA-12	Plant Schedule & imagery
	_

IMAGE TAKEN FROM NEARMAP 2019



DETAIL PLAN - SHEET LAYOUT

NTS

LEFFLER SIMES ARCHITECTS



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**Approved Section 4.55 (1A) Modification Application** 

Granted on: 19 March 2021

In respect to: SSD-10404

Signed: JF Sheet No: 41 of 53





Scale 1:1000

**Drawing Title:** 

**Landscape Cover Sheet** DWG No:

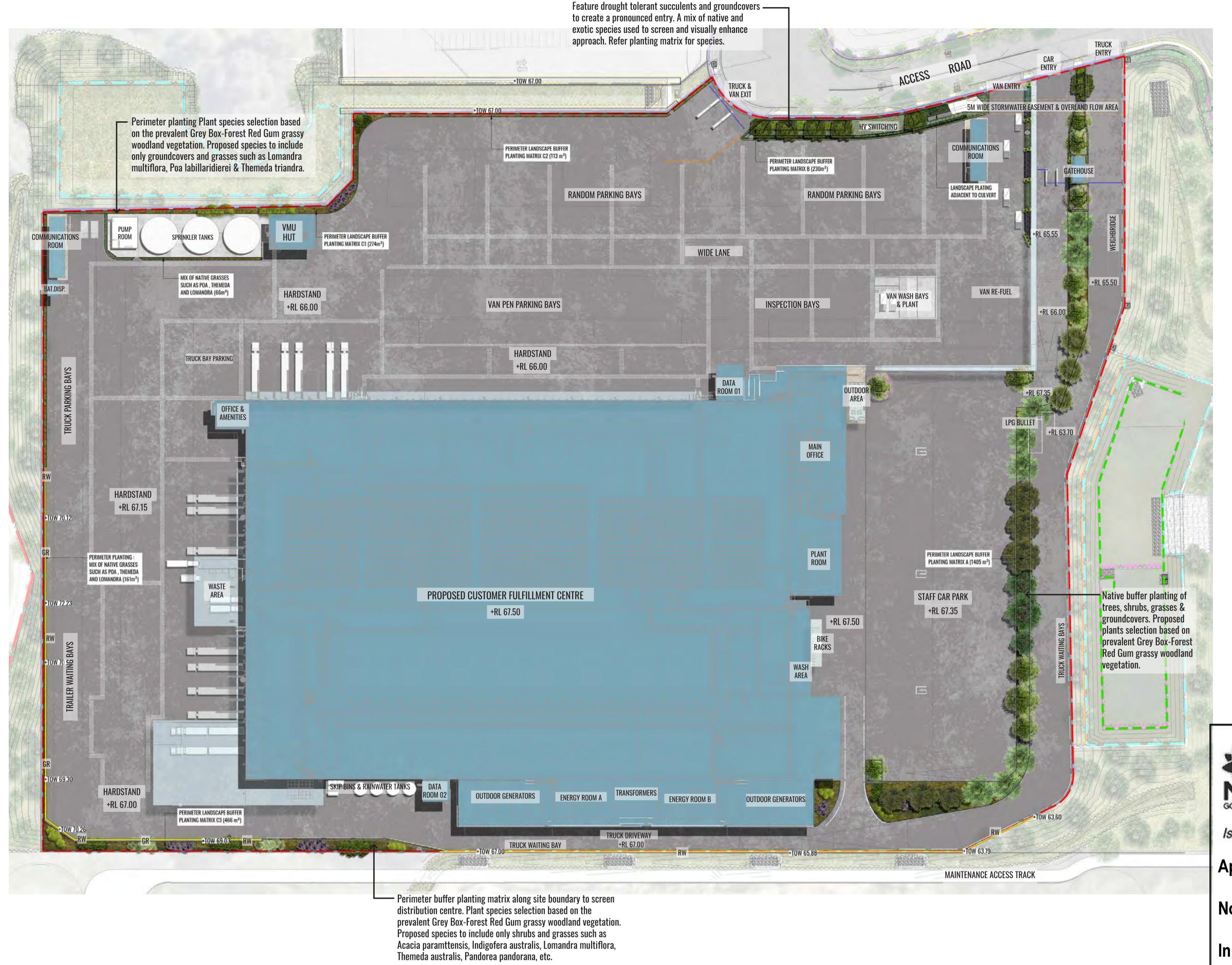
Suite 215, 284 Victoria Ave, Chatswood NSW 2067 Ph. (02) 9411 1485 www.geoscapes.com.au ABN 84 620 205 781 ACN 620 205 781

**Architect:** 



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Horsle	y Drive Business Park	- Stage 2, Wetherill Pa	ark, NSW 2164					







# Planning, Industry & Environment

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FOR DEVELOPMENT APPLICATION

Drawn Checked

SW

TW

**Approved Section 4.55 (1A) Modification Application** 

18.06.20 FOR DA

24.06.20 UPDATED FOR DA

03.11.20 UPDATED FOR MODIFICATION

o: 1 Granted on: 19 March 2021

In respect to: SSD-10404

Signed: JF Sheet No: 42 of 53

Drawing Title:

**Landscape Master Plan** 

DWG No:

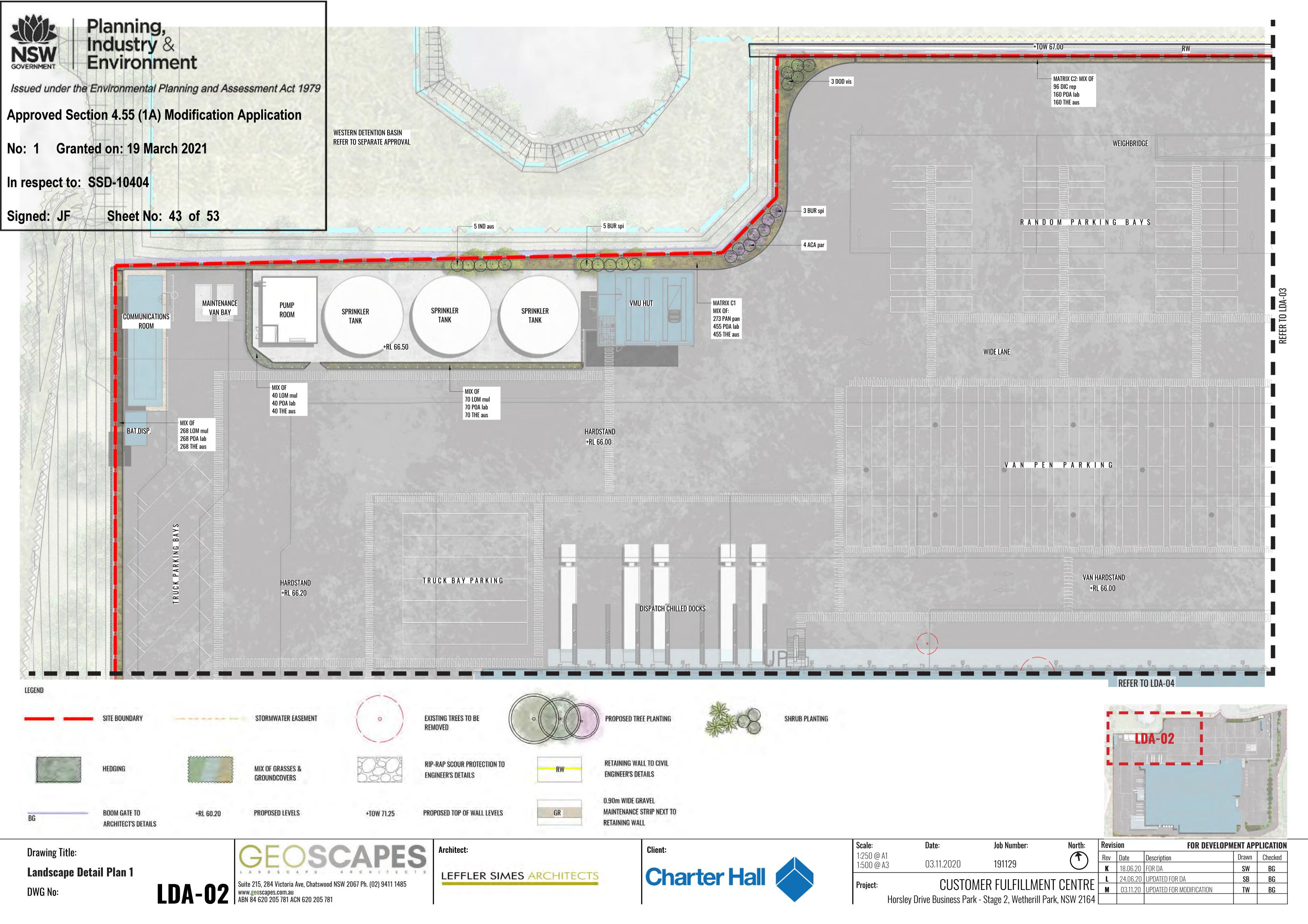
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ABN 84 620 205 781 ACN 620 205 781

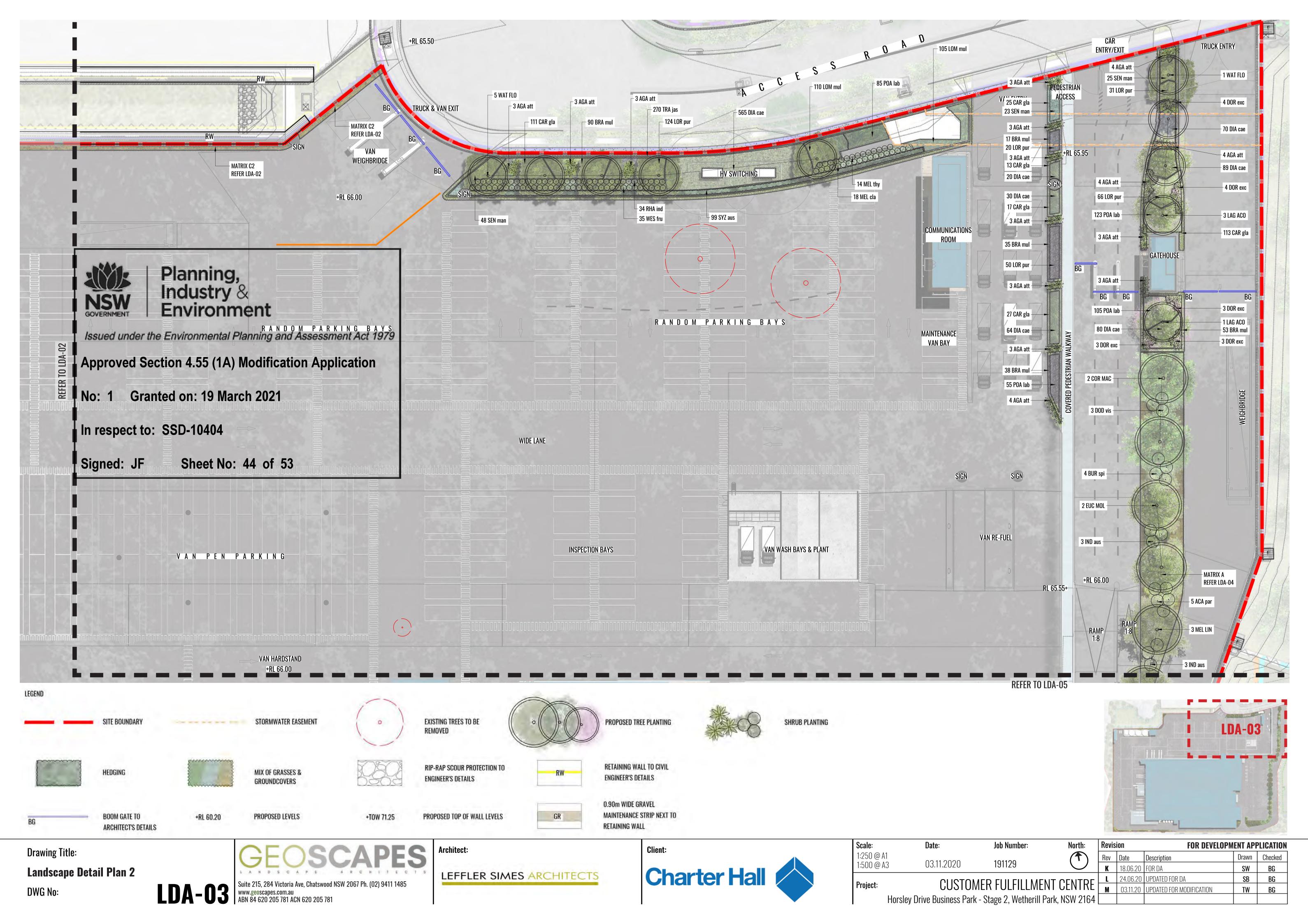
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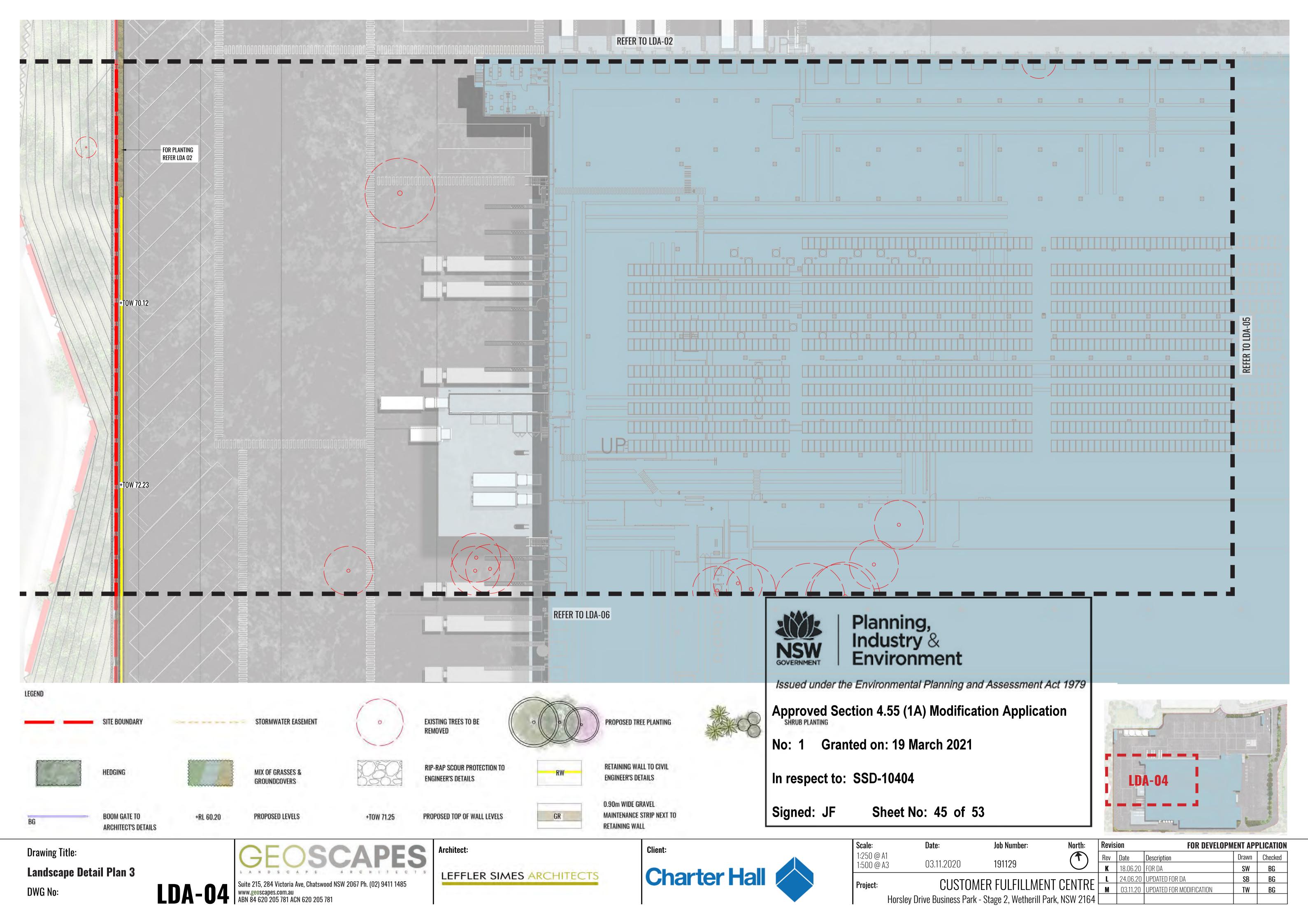
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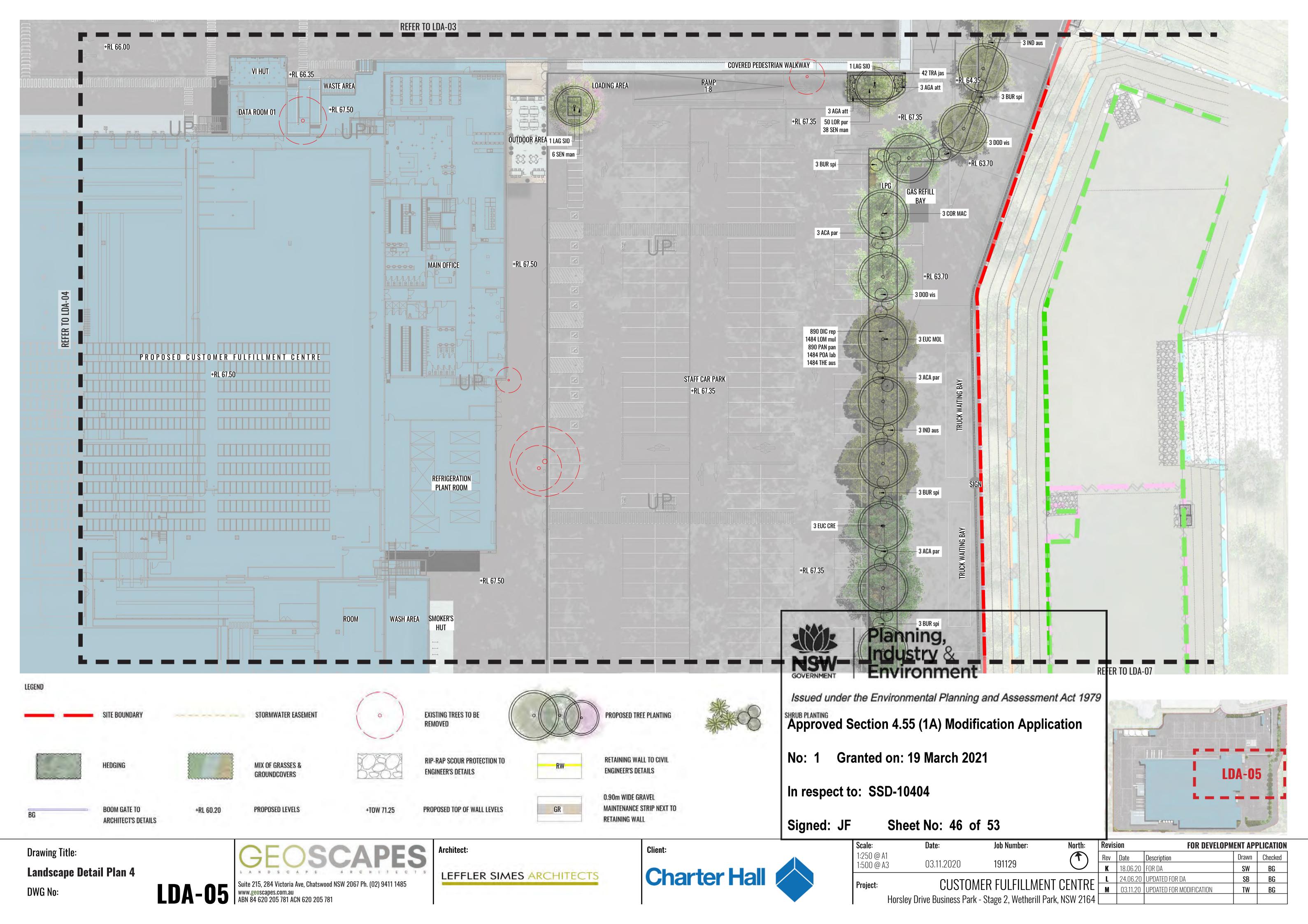


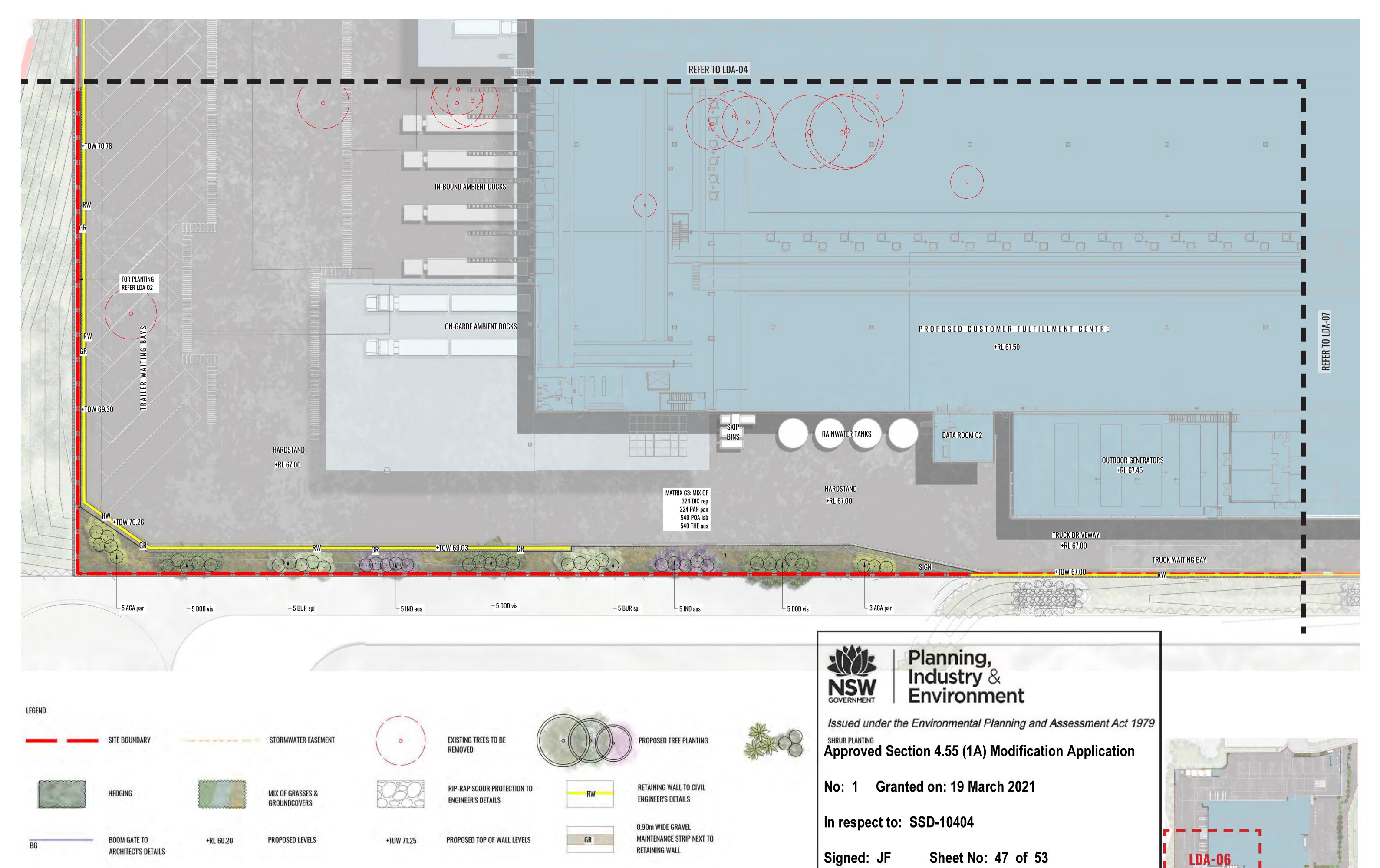
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Horsle	y Drive Business Park	- Stage 2, Wetherill F	Park, NSW 2164	
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**Drawing Title:** 

DWG No:

**Landscape Detail Plan 5** 

Suite 215, 284 Victoria Ave, Chatswood NSW 2067 Ph. (02) 9411 1485 www.geoscapes.com.au ABN 84 620 205 781 ACN 620 205 781

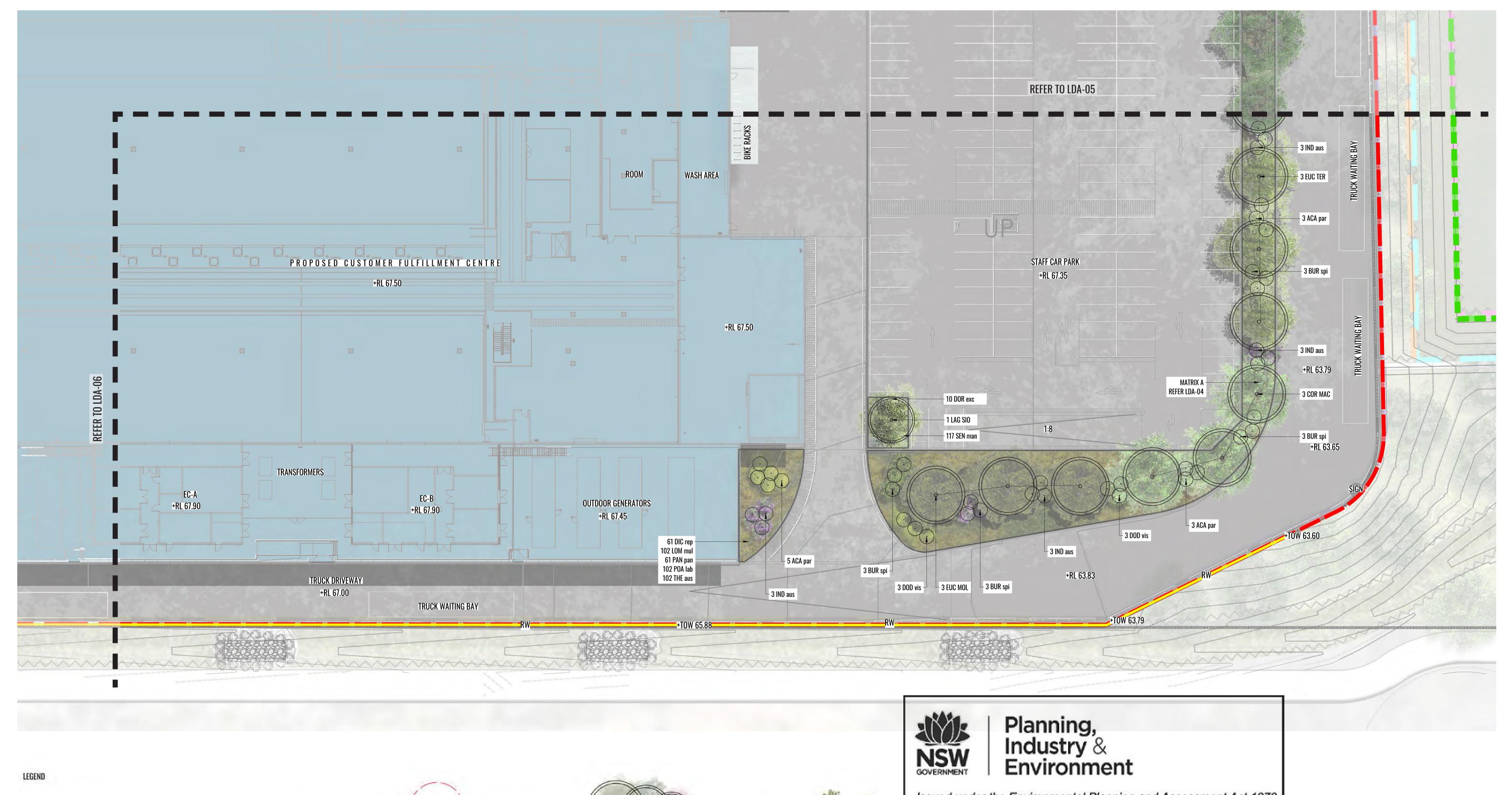
**Architect:** 

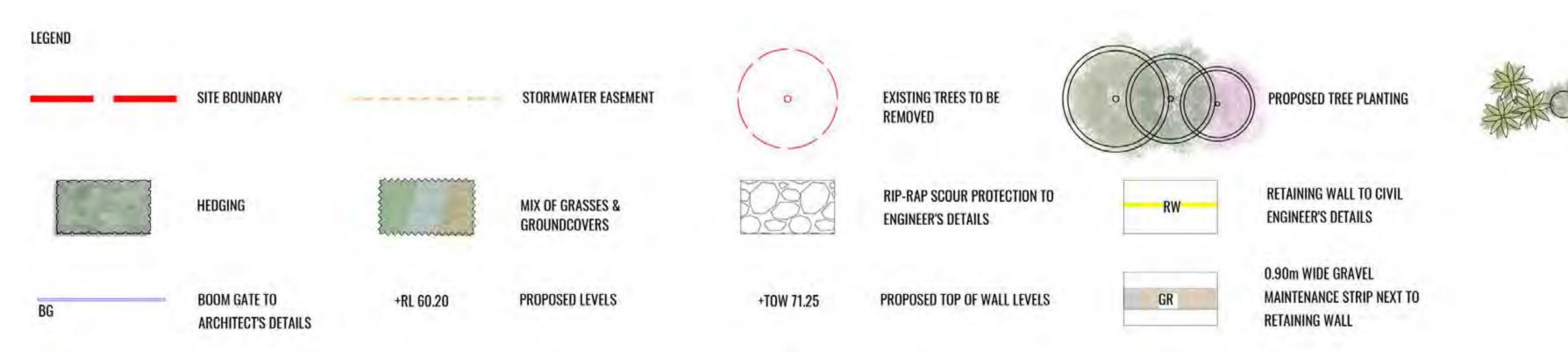
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FOR DEVELOPMENT APPLICATION Description Drawn Checked **K** 18.06.20 FOR DA BG SW L 24.06.20 UPDATED FOR DA M 03.11.20 UPDATED FOR MODIFICATION TW Horsley Drive Business Park - Stage 2, Wetherill Park, NSW 2164





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Approved Section 4.55 (1A) Modification Application

No: 1 Granted on: 19 March 2021

In respect to: SSD-10404

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Drawing Title:

DWG No:

**Landscape Detail Plan 6** 

LDA-07
Suite 215
www.geos
ABN 84 6

Suite 215, 284 Victoria Ave, Chatswood NSW 2067 Ph. (02) 9411 1485 www.geoscapes.com.au
ABN 84 620 205 781 ACN 620 205 781

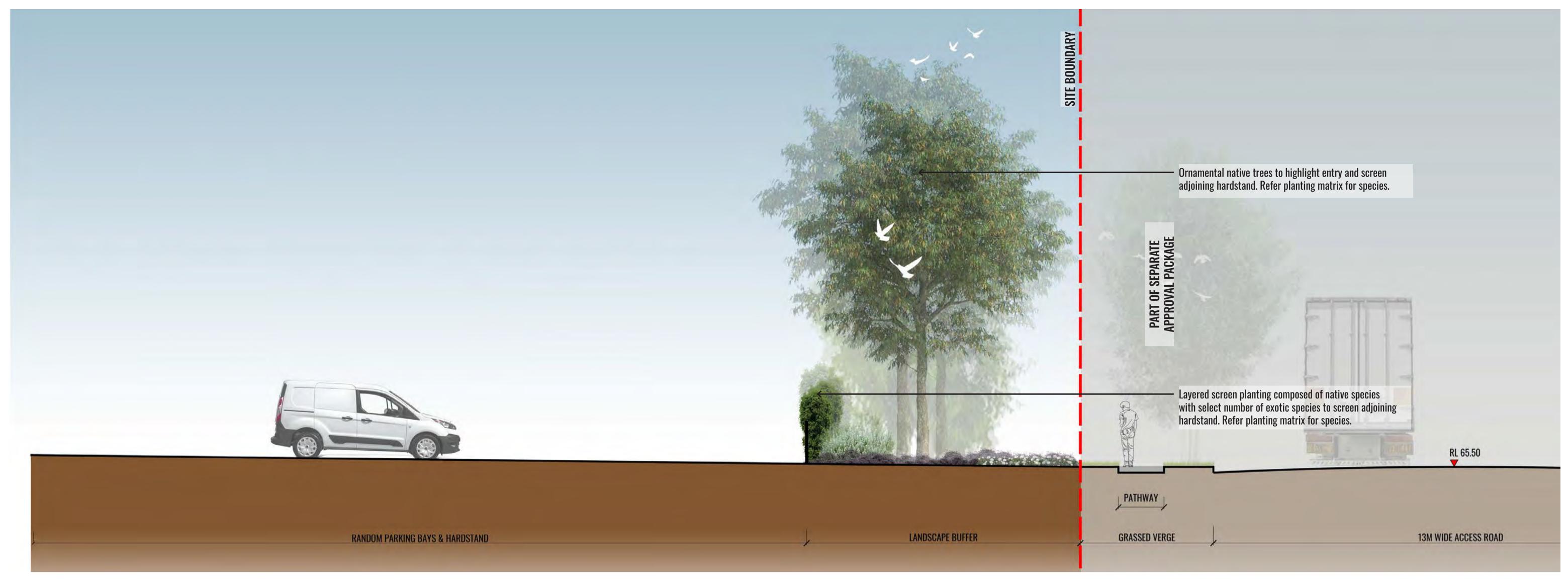
Architect:

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SECTION AA: FEATURE ENTRY PLANTING

SCALE 1:50



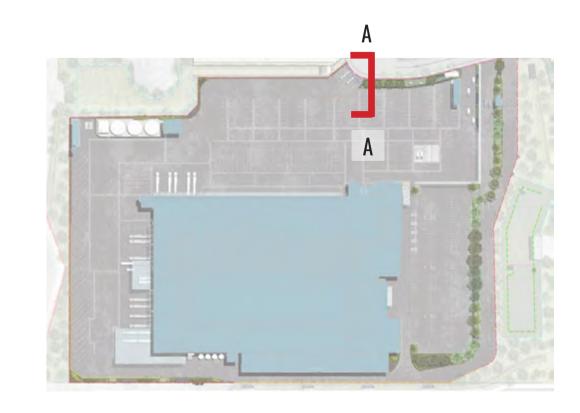
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Approved Section 4.55 (1A) Modification Application

No: 1 Granted on: 19 March 2021

In respect to: SSD-10404

Signed: JF Sheet No: 49 of 53



Drawing Title:

**Landscape Section AA** 

DWG No:

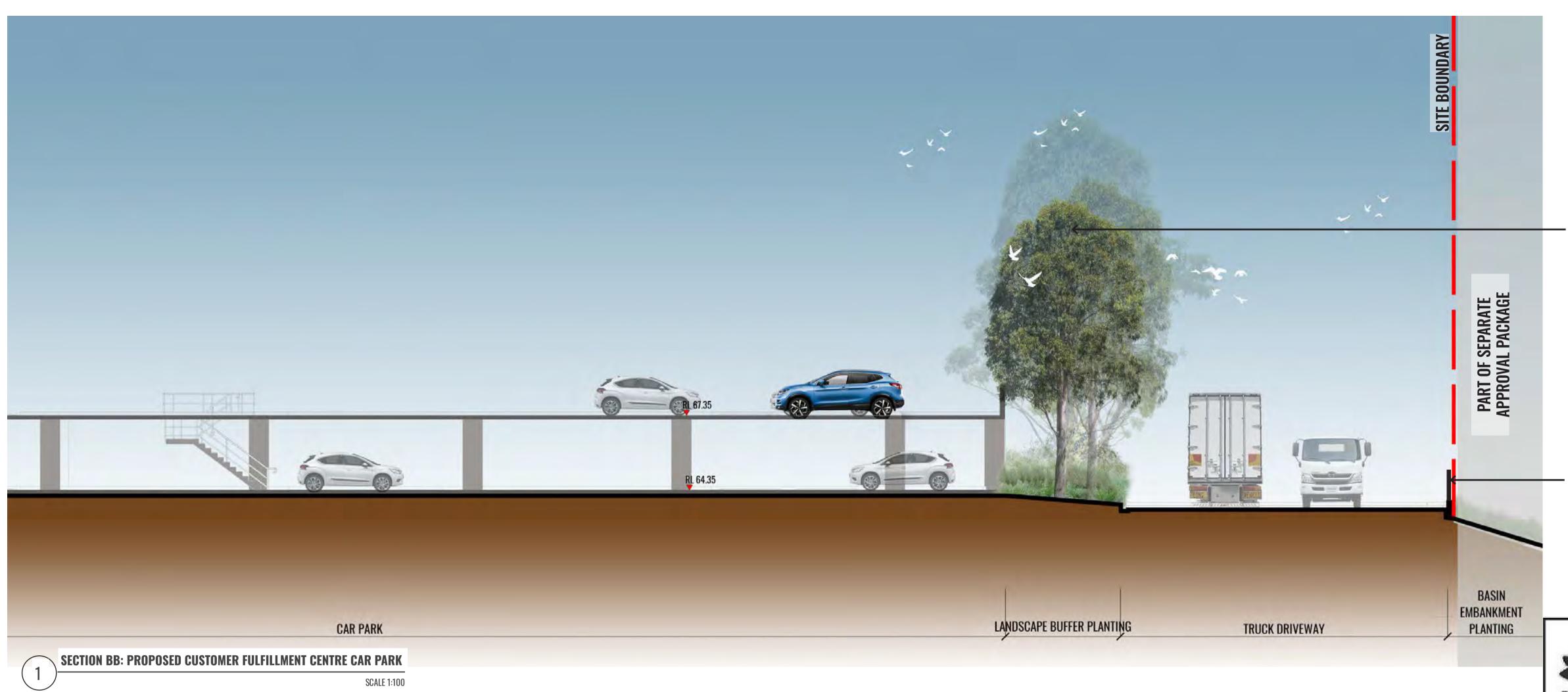
Suite 215, 284 Victoria Ave, Chatswood NSW 2067 Ph. (02) 9411 1485 www.geoscapes.com.au
ABN 84 620 205 781 ACN 620 205 781

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Architect:



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Project:	CUSTOMER FULFILLMENT CENTRE			M	03.11.20	UPDATED FOR MODIFICATION	TW	BG
	Horsley Drive Business Pa	rk - Stage 2, Wetherill Pa	ırk, NSW 2164					



Native buffer planting of trees, shrubs, grasses & groundcovers to screen distribution centre car park from truck driveway & provide shade for cars. Plant species selection based on the prevalent Grey Box-Forest Red Gum grassy woodland vegetation.
 Proposed Planting to include trees, shrubs and grasses such as Corymbia maculata, Eucalyptus crebra, Acacia paramttensis, Bursaria spinosa, Indigofera australis, Lomandra multiflora, Themeda australis, Pandorea pandorana, etc.

1.1m high protection rail to Architect's detail



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**Approved Section 4.55 (1A) Modification Application** 

No: 1 Granted on: 19 March 2021

In respect to: SSD-10404

Signed: JF Sheet No: 50 of 53

SECTION CC: SECTION THROUGH SOUTHERN RETAINING WAL

WALL & 900mm GRAVEL MAINTENANCE STIP

**Drawing Title:** 

PART OF SEPARATE APPROVAL PACKAGE

**Landscape Section BB & CC** 

SITE BOUNDARY

DWG No:

PERIMETER BUFFER PLANTING

Suite 215, 284 Victoria Ave, Chatswood NSW 2067 Ph. (02) 9411 1485 www.geoscapes.com.au ABN 84 620 205 781 ACN 620 205 781

HARDSTAND

Native buffer planting of shrubs, grasses & groundcovers to screen ambient warehouse truck driveway. Plant species selection based on the prevalent Grey Box-Forest Red Gum grassy woodland vegetation. Proposed Planting to include only shrubs and grasses such as Bursaria spinosa, Indigofera australis, Lomandra multiflora, Themeda australis, Pandorea pandorana, etc.

Retaining Wall to Civil Engineer's detail

Architect:

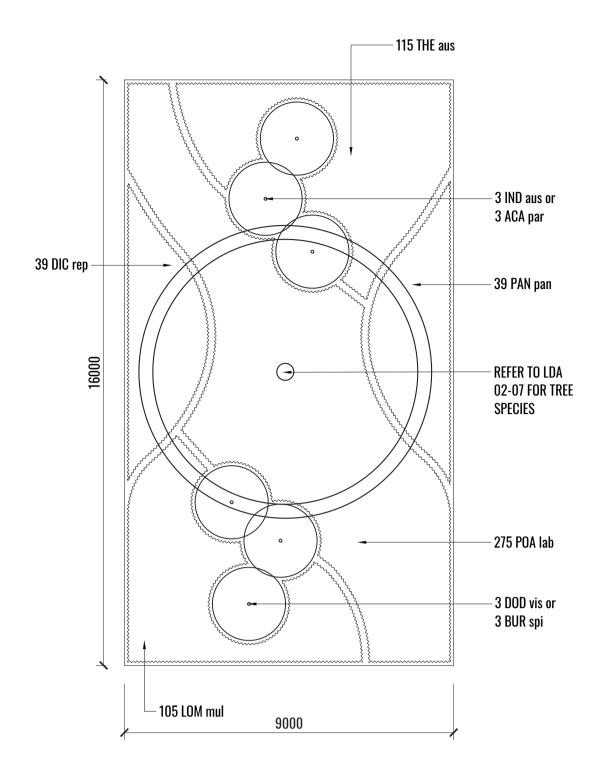
LEFFLER SIMES ARCHITECTS



PROPOSED CUSTOMER FULFILLMENT CENTRE

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	Horsley Drive Business Park	c - Stage 2, Wetherill F	Park, NSW 2164					

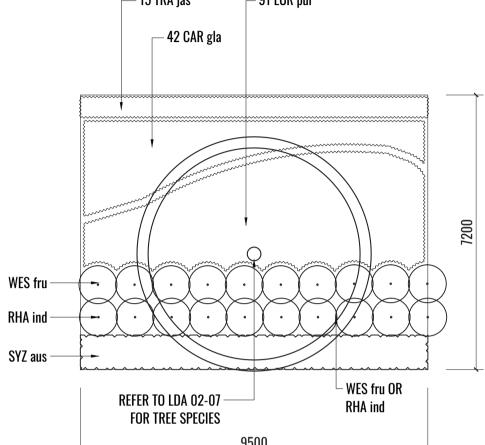
# PLANTING MATRICES



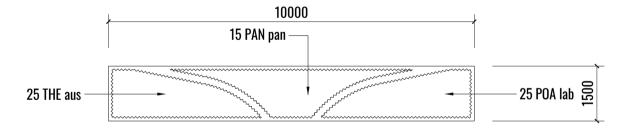
PERIMETER LANDSCAPE BUFFER TYPICAL MATRIX A (9M X 16M) SCALE 1:100

WES fru-SYZ aus – WES fru OR REFER TO LDA 02-07 — For tree species RHA ind

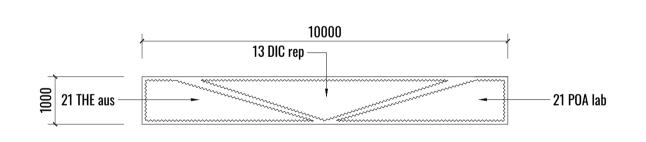
SCALE 1:100



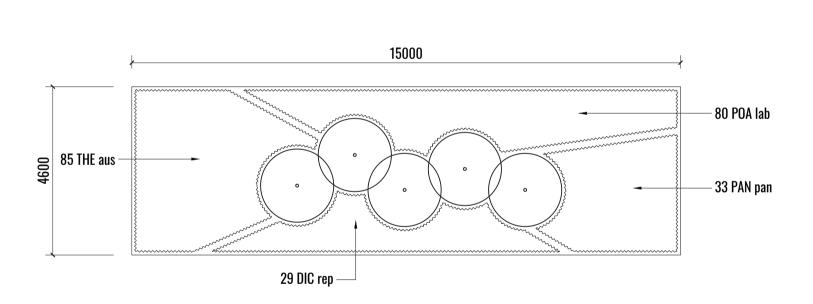
PERIMETER LANDSCAPE BUFFER TYPICAL MATRIX B1 (7.2M X 9.5M)



**GROUNDCOVERS TYPICAL MATRIX C1 (10M X 1.5M)** SCALE 1:100



**GROUNDCOVERS TYPICAL MATRIX C2 (10M X 1M)** SCALE 1:100



Planning, Industry & Environment

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Sheet No: 51 of 53

Approved Section 4.55 (1A) Modification Application

No: 1 Granted on: 19 March 2021

In respect to: SSD-10404

Signed: JF

**GROUNDCOVERS TYPICAL MATRIX C3 (15M X 4.6M)** SCALE 1:100

**Drawing Title:** 

**Planting Matrices** DWG No:

Suite 215, 284 Victoria Ave, Chatswood NSW 2067 Ph. (02) 9411 1485 www.geoscapes.com.au ABN 84 620 205 781 ACN 620 205 781





Scale: Job Number: North:		Revis	ion	FOR DEVELOPM	ENT APF	PLICATION		
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	Horsley Drive Business Park - St	age 2, Wetherill Pa	ark, NSW 2164					

## **SPECIFICATION & MAINTENANCE**

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. Reinstate 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 garden bed areas and planter container. 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 Haege 2017).

**Drawing Title:** 

**Specification & Typical Details** 

DWG No:





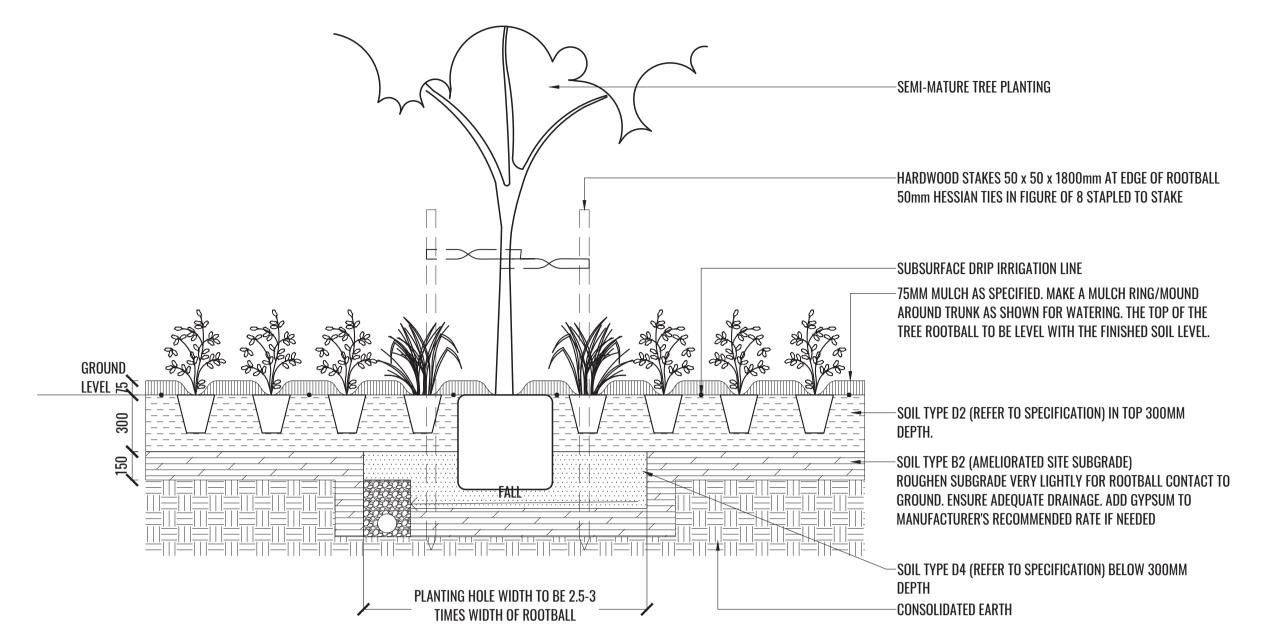
#### Architect:



## **TYPICAL DETAILS**

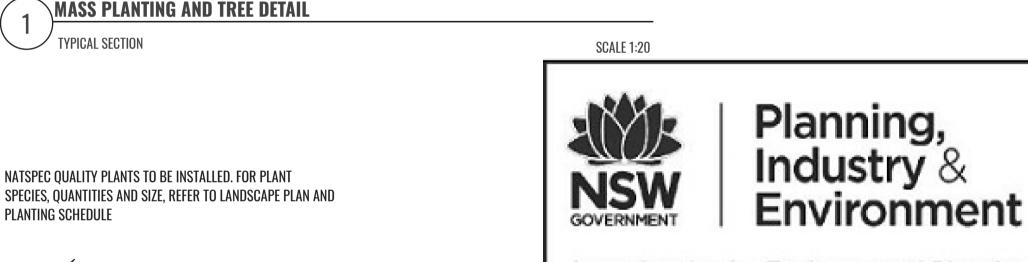
TREE/SHRUB SIZE AND QUALITY TO BE TO NATSPEC STANDARD. SPECIES IS TO BE AS PER PLAN AND PLANT SCHEDULE. ENSURE ONLY HEALTHY AND VIGOROUS, DISEASE FREE, WELL

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 ROOD 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



-SUBSURFACE DRIP IRRIGATION LINE

-SOIL TYPE D2 (REFER TO SPECIFICATION) I

-SOIL TYPE B2 (SITE SUBGRADE PREPARATIO

-75MM MULCH AS SPECIFIED.

TOP 300MM DEPTH.

-CONSOLIDATED EARTH

150MM DEPTH

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Approved Section 4.55 (1A) Modification Application

No: 1 Granted on: 19 March 2021

In respect to: SSD-10404

Signed: JF Sheet No: 52 of 53

SLOPE PLANTING 1:3 OR FLATTER

Charter Hall

SCALE 1:20

Scale:	Date:	Job Number:	North:	Revis	Revision FOR DEV		OPMENT APPLICATION		
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Project:	P02101M	1er fulfillmen	II CENTRE	M	03.11.20	UPDATED FOR MODIFICATION	TW	BG	
Horsley	Drive Business Park	- Stage 2. Wetherill Pa	ark. NSW 2164						

## PLANTING SCHEDULE

#### DA Diant Cahadula

DA Plant S PLANT	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	NATIVE	POT SIZE	PLANTING	QTY**
CODE						DENSITY	
General tr						T	
COR MAC	Corymbia maculata	Spotted Gum	20m	<b>√</b>	45L	As Shown	8
EUC CRE	Eucalyptus crebra	Narrow leaved Ironbark	20m	✓	45L	As Shown	3
EUC MOL	Eucalyptus moluccana	Grey Box	25m	✓	45L	As Shown	8
EUC TER	Eucalyptus tereticornis	Forest Red Gum	20m	✓	45L	As Shown	3
LAG ACO	Lagerstroemia indica 'Acoma'	Indian Summer White Crepe Myrtle	3m		45L	As Shown	4
LAG SIO	Lagerstroemia indica x fauriei 'Sioux'	Hot Musk Pink Crepe Myrtle	5m		45L	As Shown	3
MEL LIN	Melaleuca linariifolia	Snow-in-Summer	10m	✓	45L	As Shown	3
WAT FLO	Waterhousea floribunda 'Green Avenue'	Weeping Lilly Pilly	10m	✓	45L	As Shown	6
Shrubs an	nd hedging						
AGA att	Agave attentuata	Foxtail Agave	1.2m		200mm	As Shown	55
ACA par	Acacia parramattensis	Parramatta Wattle	4m	✓	200mm	As Shown	40
BUR spi	Bursaria spinosa	Blackthorn	3m	✓	200mm	As Shown	49
DOD vis	Dodonaea viscosa subsp. cuneata	Sticky Hop Bush	3m	✓	200mm	As Shown	36
DOR exc	Doryanthes excelsa	Gymea Lilly	1.5m	✓	200mm	As Shown	27
IND aus	Indigofera australis	Australian Indigo	2m	✓	200mm	As Shown	39
MEL cla	Melaleuca Claret Tops	Claret Tops myrtle	1.5m	✓	200mm	As Shown	18
MEL thy	Melaleuca thymifolia	Honey myrtle	1m	✓	200mm	As Shown	14
RHA ind	Rhapheolepis indica ' Cosmic Pink'	Indian Hawthorn	0.5m		200mm	500mm centres	48
SYZ aus	Syzigium australe 'Tiny Trev'	Lilly Pilly	1.2m	✓	200mm	750mm centres	99
WES fru	Westringia fuitcosa 'Aussie Box'	Native Rosemary	0.6m	✓	200mm	500mm centres	35
Grasses &	groundcovers						
BRA mul	Brachyscombe multifida	Rock Daisy	0.3m	<b>√</b>	Tubestock	3/m2	233
CAR gla	Carpobrotus glaucescens	Native Pigface	0.3m	<b>√</b>	140mm	3/m2	348
DIA cae	Dianella caerulea 'Breeze	Native Flax	0.5m	<b>√</b>	Tubestock	5/m2	918
DIC rep	Dichondra repens	Kidney Weed	0.2m	<b>√</b>	140mm	3/m2	1452
LOR pur	Loropetalum 'Purple Pixie'	Purple Loropetuum	0.5m		140mm	4/m2	432
LOM mul	Lomandra multiflora subsp. multiflora	Mat-rush	0.6m	<b>√</b>	Tubestock	5/m2	2284
PAN pan	Pandorea pandorana	Wonga Wonga Vine	0.25m	<b>√</b>	200mm	3/m2	1635
POA lab	Poa labilladieri	Tussock Grass	1m	<b>√</b>	Tubestock	5/m2	3888
SEN man	Senecio mandraliscae	Blue Chalksticks	0.3m		140mm	3/m2	257
TRA jas	Trachelospermum jasminoides	Star Jasmine	0.2m		140mm	3/m2	327
THE aus	Themeda australis	Kangaroo Grass	0.8m	<b>√</b>	Tubestock	5/m2	3365

<sup>\*\*</sup> Final numbers to be confirmed at Construction Certicate stage



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**Approved Section 4.55 (1A) Modification Application** 

Granted on: 19 March 2021

In respect to: SSD-10404

**Drawing Title:** 

Planting Schedule & Imagery

DWG No:

LEFFLER SIMES ARCHITECTS Suite 215, 284 Victoria Ave, Chatswood NSW 2067 Ph. (02) 9411 1485 www.geoscapes.com.au ABN 84 620 205 781 ACN 620 205 781

Sheet No: 53 of 53 hitect:

## **PLANT IMAGES**



Waterhousea floribunda 'Green Avenue' Corymbia maculata





Eucalyptus crebra



Eucalyptus moluccana



Eucalyptus terticornis



Lagerstroemia indica 'Acoma'



Lagerstroemia indica x fauriei 'Sioux'



Melaleuca linariifolia



Acacia parramattensis



Bursaria spinosa



Dodonaea viscosa



Dichondra repens



Indigofera australis



Lomandra multiflora



Poa labillardieri



Themeda australis



Pandorea pandorana



Agave attentuata



Rhapheolepis indica 'Cosmic Pink'



Loropetulum 'Purple Pixie'

