

ESR Horsley Logistics Park, Horsley Park, NSW 2175

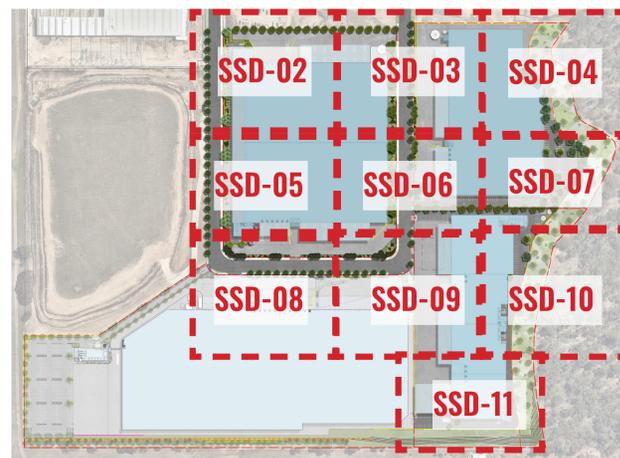
Landscape Documentation for State Significant Development



IMAGE TAKEN FROM NEARMAP 2020

Drawing Register

Dwg No.	Drawing Name
SSD-00	Landscape Cover Sheet
SSD-01	Overall Landscape Master Plan
SSD-02	Landscape Detail Plan - Sheet 1
SSD-03	Landscape Detail Plan - Sheet 2
SSD-04	Landscape Detail Plan - Sheet 3
SSD-05	Landscape Detail Plan - Sheet 4
SSD-06	Landscape Detail Plan - Sheet 5
SSD-07	Landscape Detail Plan - Sheet 6
SSD-08	Landscape Detail Plan - Sheet 7
SSD-09	Landscape Detail Plan - Sheet 8
SSD-10	Landscape Detail Plan - Sheet 9
SSD-11	Landscape Detail Plan - Sheet 10
SSD-12	Landscape Sections - Sheet 1
SSD-13	Landscape Sections - Sheet 2
SSD-14	Typical Landscape Details
SSD-15	Specifications & Maintenance Plan
SSD-16	Planting Schedule & Imagery



DETAIL PLAN - SHEET LAYOUTS

NTS



SITE PLAN

Drawing Title:
Landscape Cover Sheet
DWG No:

SSD-00

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Architect:
hla
architects

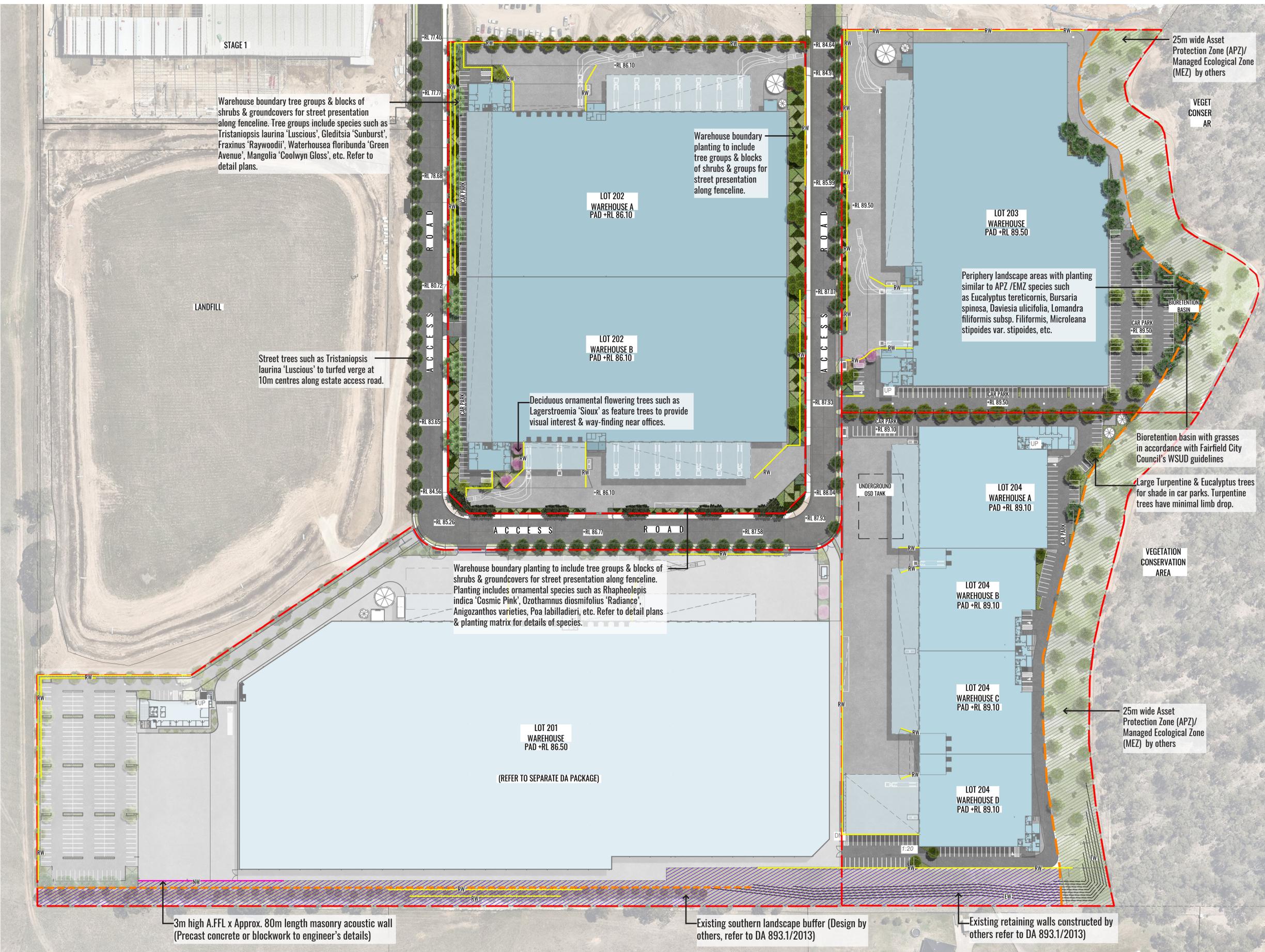
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ESR

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Date: 28.10.20
Job Number: 200224
North:

Project: ESR Horsley Logistics Park
327-335 Burley Road, NSW 2175

Revision		FOR STATE SIGNIFICANT DEVELOPMENT		
Rev	Date	Description	Drawn	Checked
B	30.03.20	FOR SSD APPLICATION	SB	BG
C	15.06.20	FOR SSD APPLICATION	SB	BG
D	16.10.20	RTS - MASTERPLAN REVISED	SB	BG
E	28.10.20	NOISE WALL ADDED	SB	BG

NOT FOR CONSTRUCTION



LEGEND

- SITE BOUNDARY
- - - EXTENT OF APZ BOUNDARY
- ENVIRONMENTAL ZONE MANAGED BY OTHERS
- LANDSCAPE BUFFER MANAGED BY OTHERS
- PROPOSED TREE PLANTING
- PROPOSED STREET TREE PLANTING AT 10m CENTRES.
- PROPOSED SHRUB PLANTING
- GRASSES & GROUNDCOVERS. REFER TO DETAIL PLANS.
- BIO-RETENTION BASIN GRASSES. REFER TO DETAIL PLANS.
- RW RETAINING WALL TO CIVIL ENGINEER'S DETAILS
- NW NOISE WALL TO ACOUSTIC ENGINEER'S DETAILS
- EW EXISTING RETAINING WALLS BY OTHERS
- GRASSED VERGE & FOOTPATH TO ACCESS ROAD
- PROPOSED ESTATE ROAD
- PROPOSED HARDSTAND
- PROPOSED WAREHOUSES
- +RL 80.20 PROPOSED LEVELS
- +FFL 80.20 FINISHED FLOOR LEVELS

Drawing Title:
Overall Landscape Master Plan
 DWG No:
SSD-01

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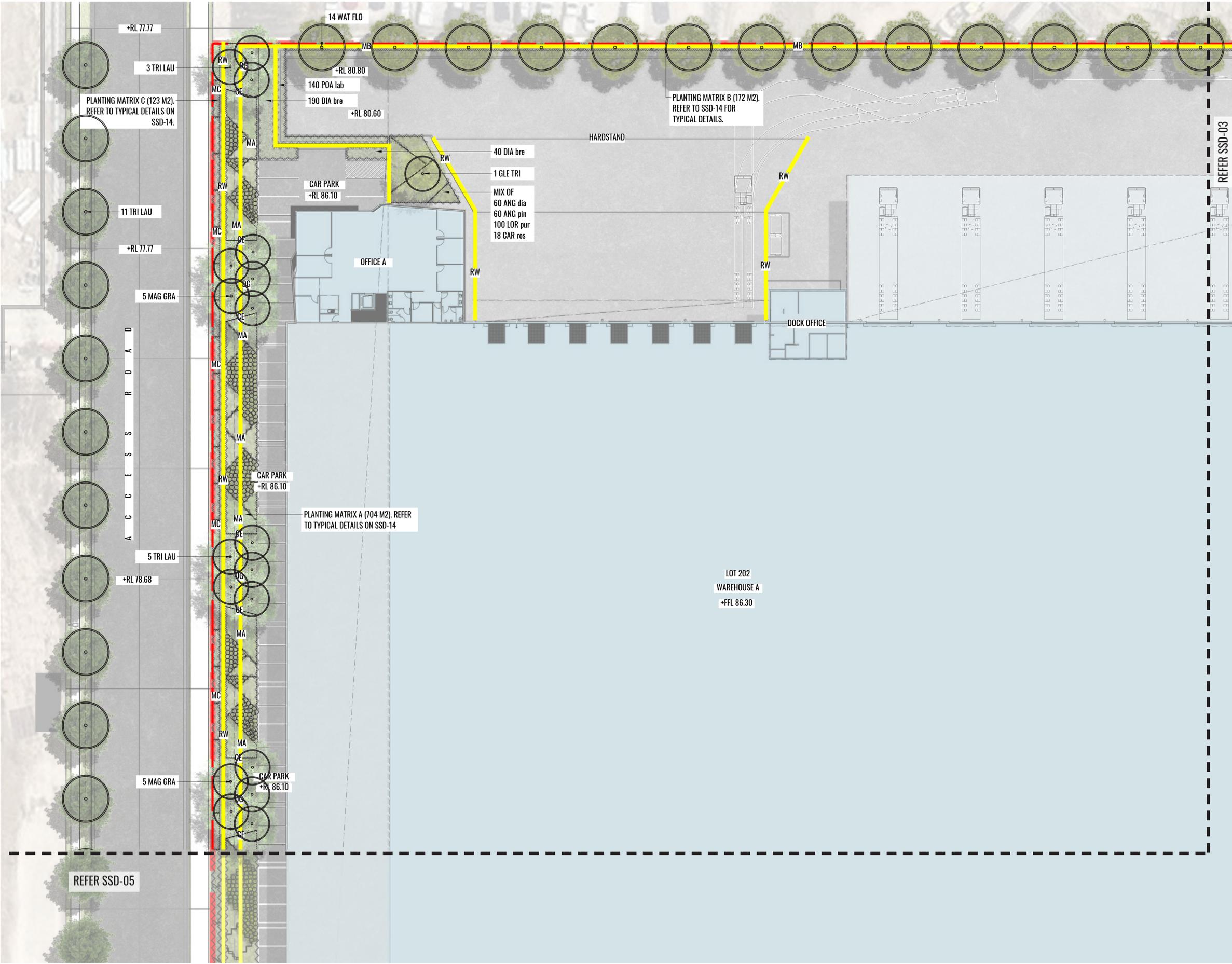
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- CONCRETE EDGE
- DECO GRANITE
- GRATED DRAIN TO ENGINEER'S DETAIL
- PIT TO ENGINEER'S DETAIL
- +RL 80.20 PROPOSED LEVELS
- +FFL 80.20 FINISHED FLOOR LEVELS



Drawing Title:
Landscape Detail Plan - Sheet 1
 DWG No:
SSD-02

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Client:

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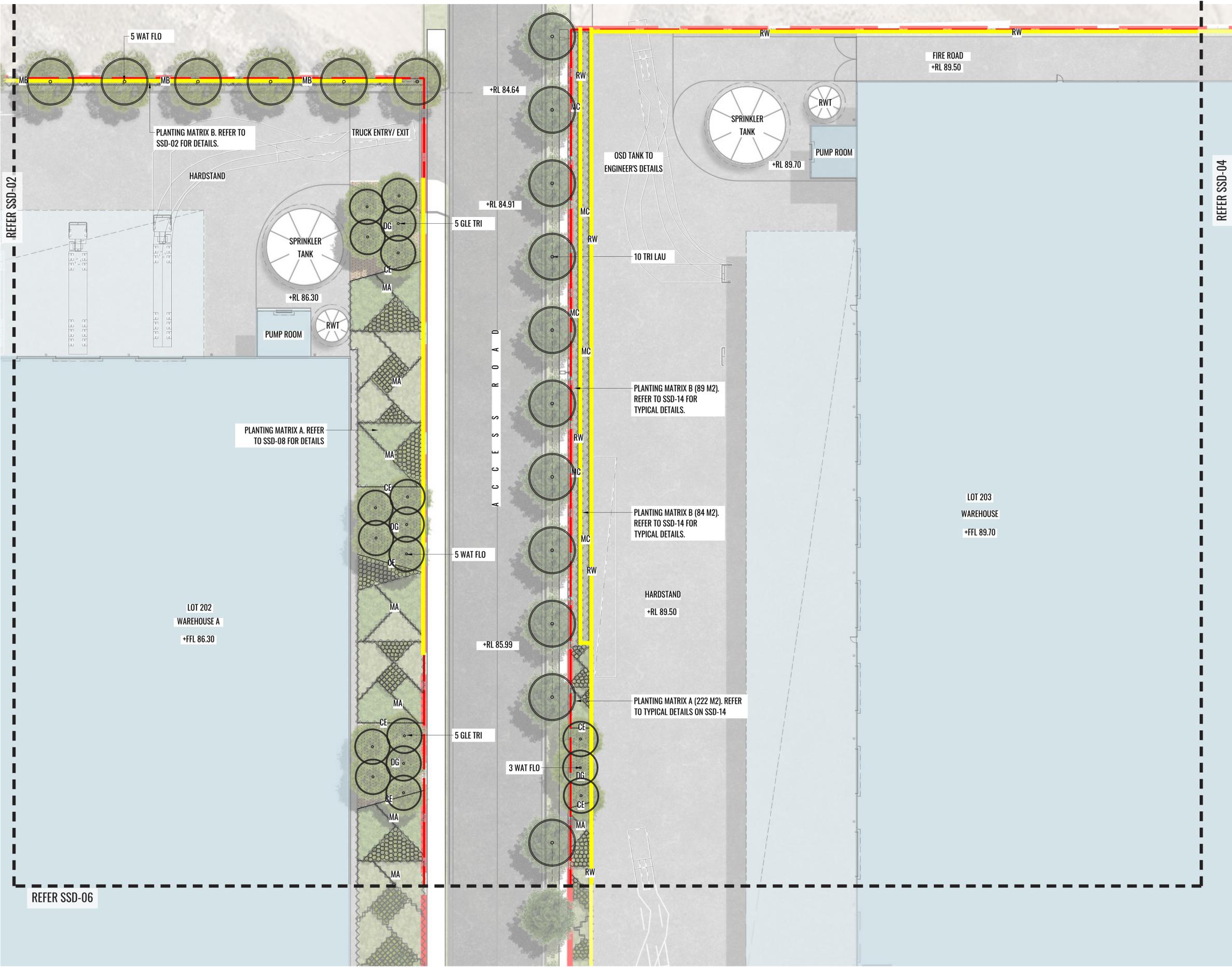
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KEY PLAN

Drawing Title:
Landscape Detail Plan - Sheet 2
 DWG No:
SSD-03

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Client:

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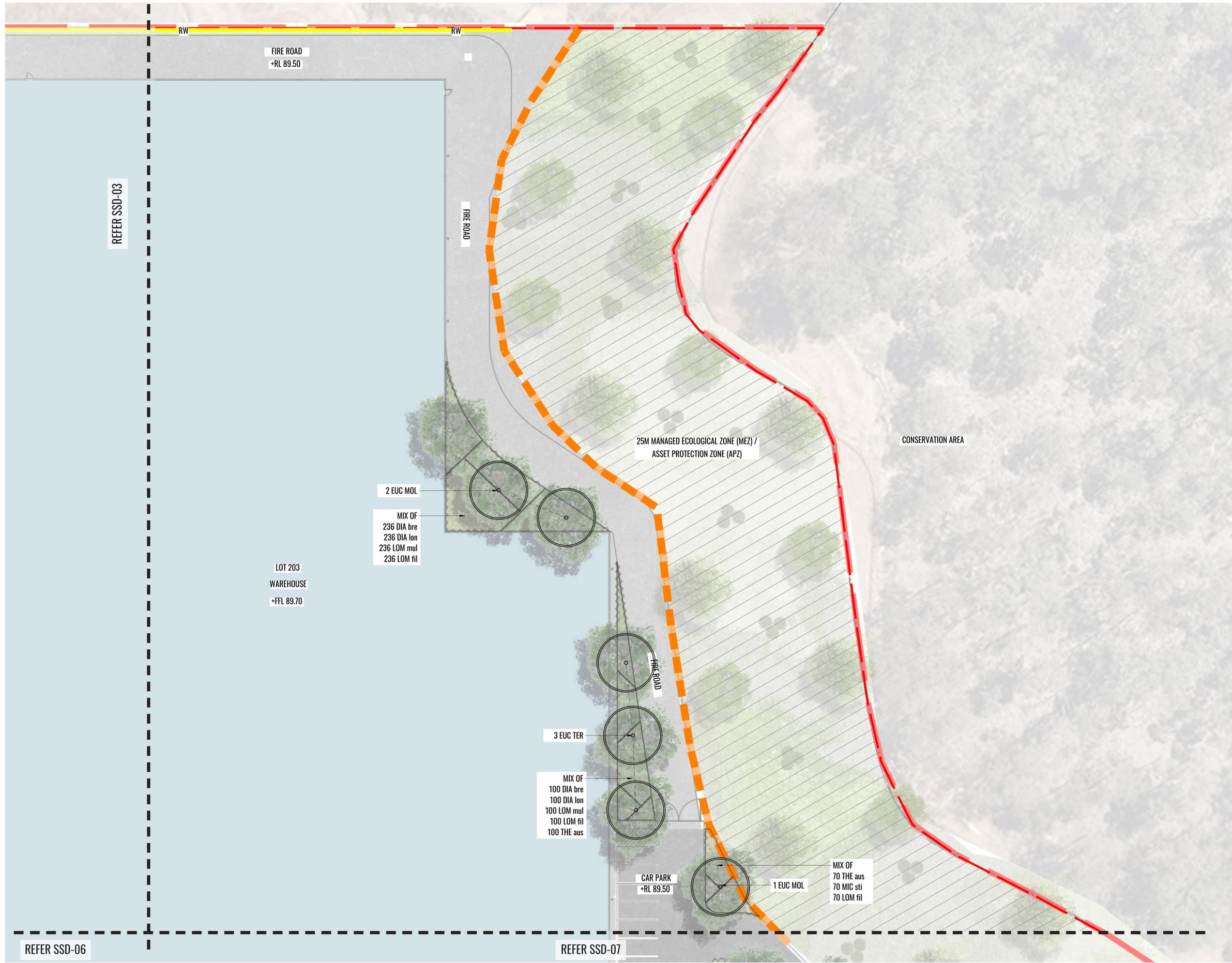
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Project:
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- FINISHED FLOOR LEVELS



Drawing Title:
Landscape Detail Plan - Sheet 3
 DWG No:
SSD-04

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Architect:
hla architects

Client:
ESR

Scale:
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 1:500 @ A3

Date:
 28.10.20

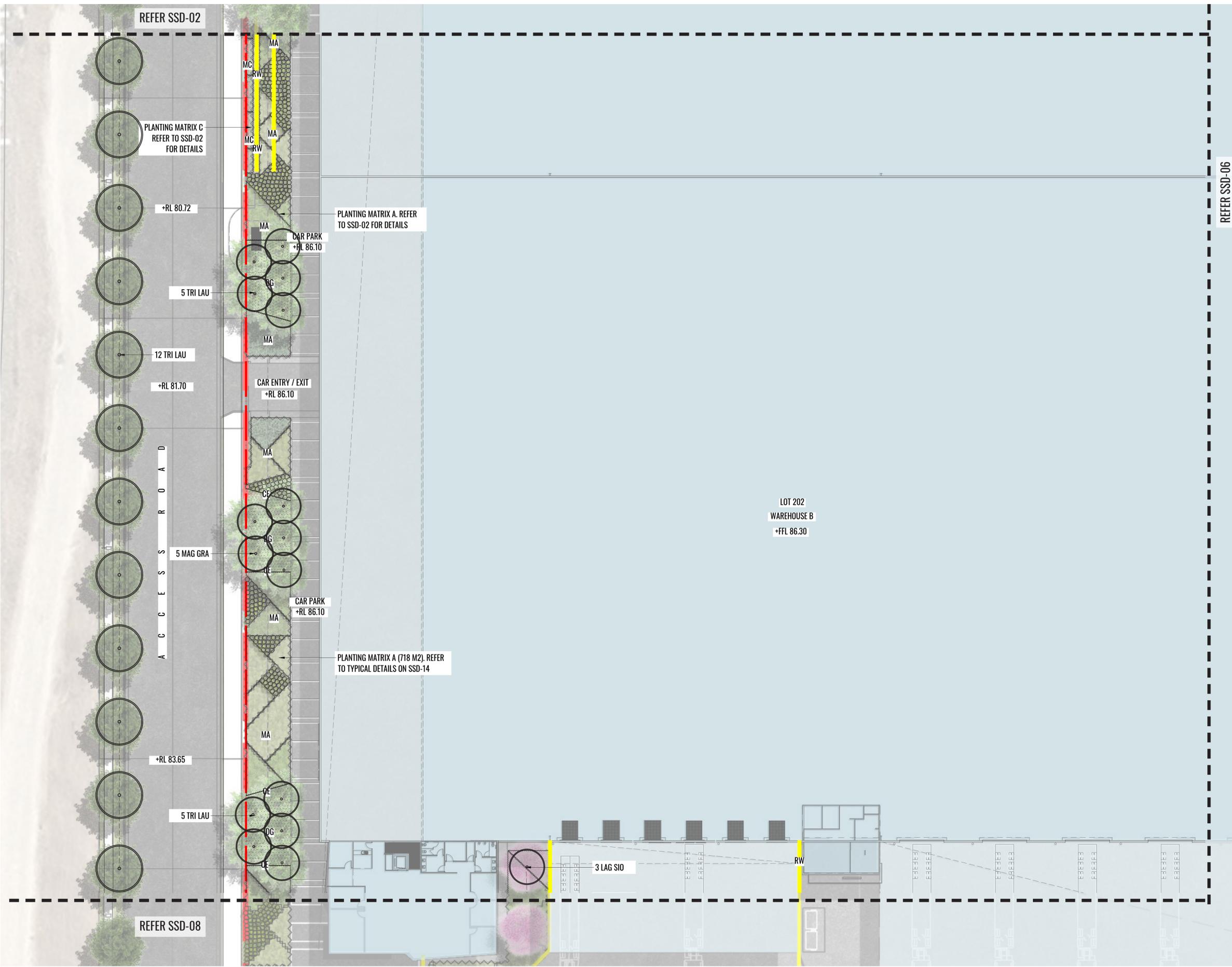
Job Number:
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North:

Project:
ESR Horsley Logistics Park
 327-335 Burley Road, NSW 175

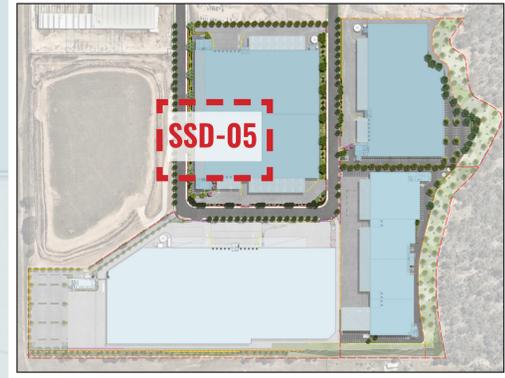
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- +RL 80.20 PROPOSED LEVELS
- +FFL 80.20 FINISHED FLOOR LEVELS



Drawing Title:
Landscape Detail Plan - Sheet 4
 DWG No:
SSD-05

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Architect:

Client:

Scale:
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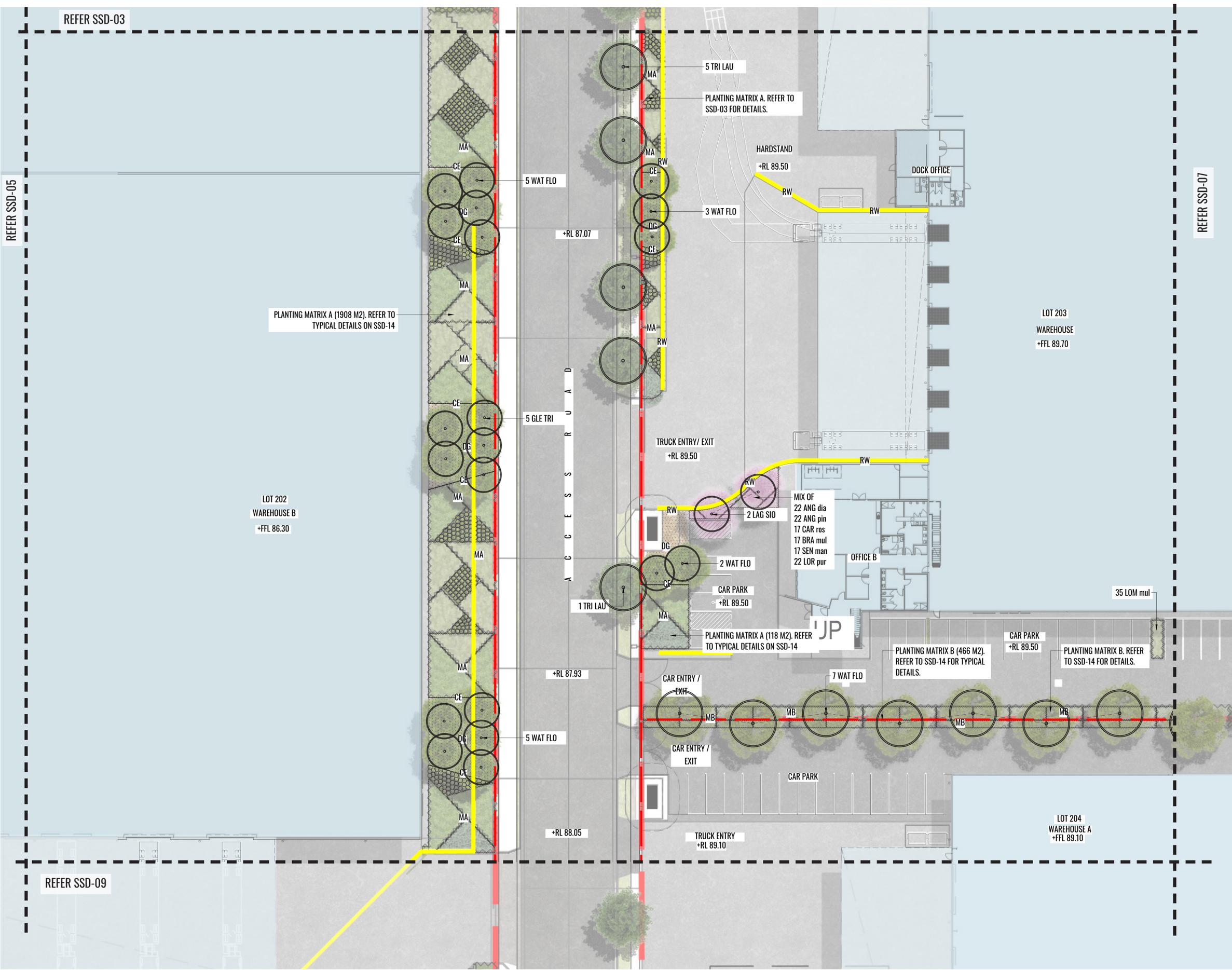
Date:
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ESR Horsley Logistics Park
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Drawing Title:
Landscape Detail Plan - Sheet 5
 DWG No:
SSD-06

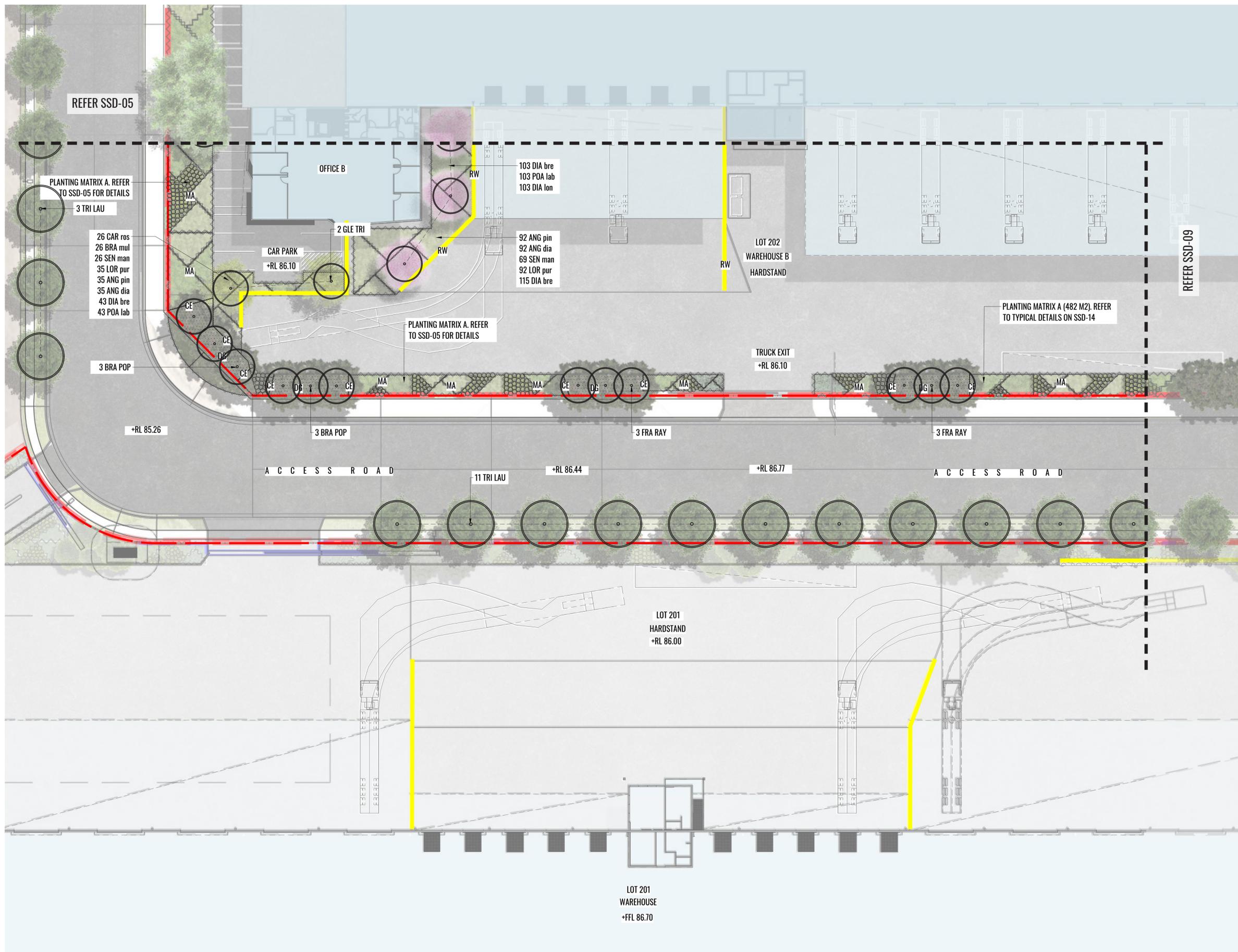
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Architect:

Client:

Scale: 1:50 @ A1
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 Date: 28.10.20
 Job Number: 200224
 Project: ESR Horsley Logistics Park
 327-335 Burley Road, NSW 2175

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- +RL 80.20 PROPOSED LEVELS
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Drawing Title:
Landscape Detail Plan - Sheet 7
DWG No:
SSD-08

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Architect:
hla architects

Client:
ESR

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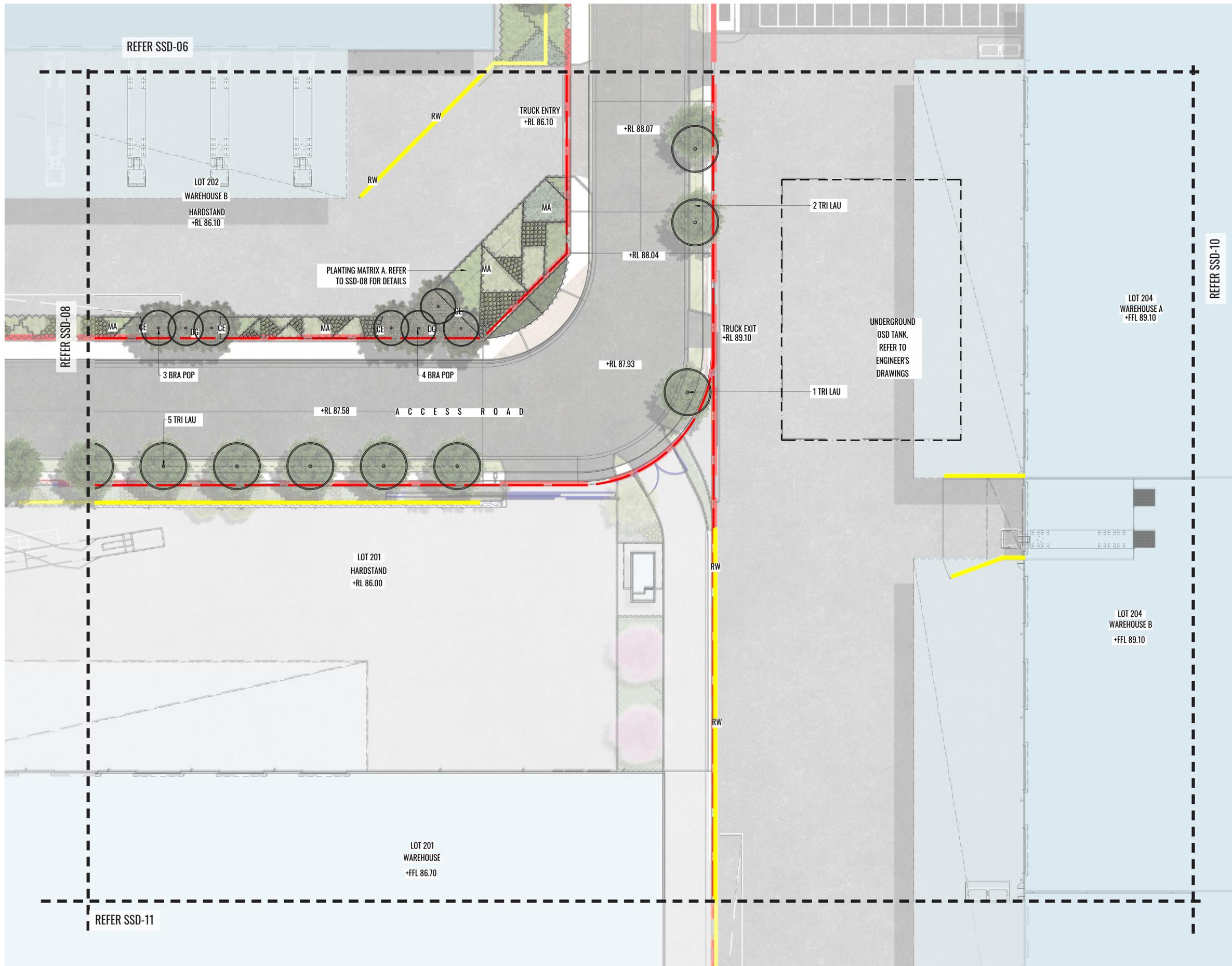
Date: 28.10.20

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Drawing Title:
Landscape Detail Plan - Sheet 8
 DWG No:
SSD-09

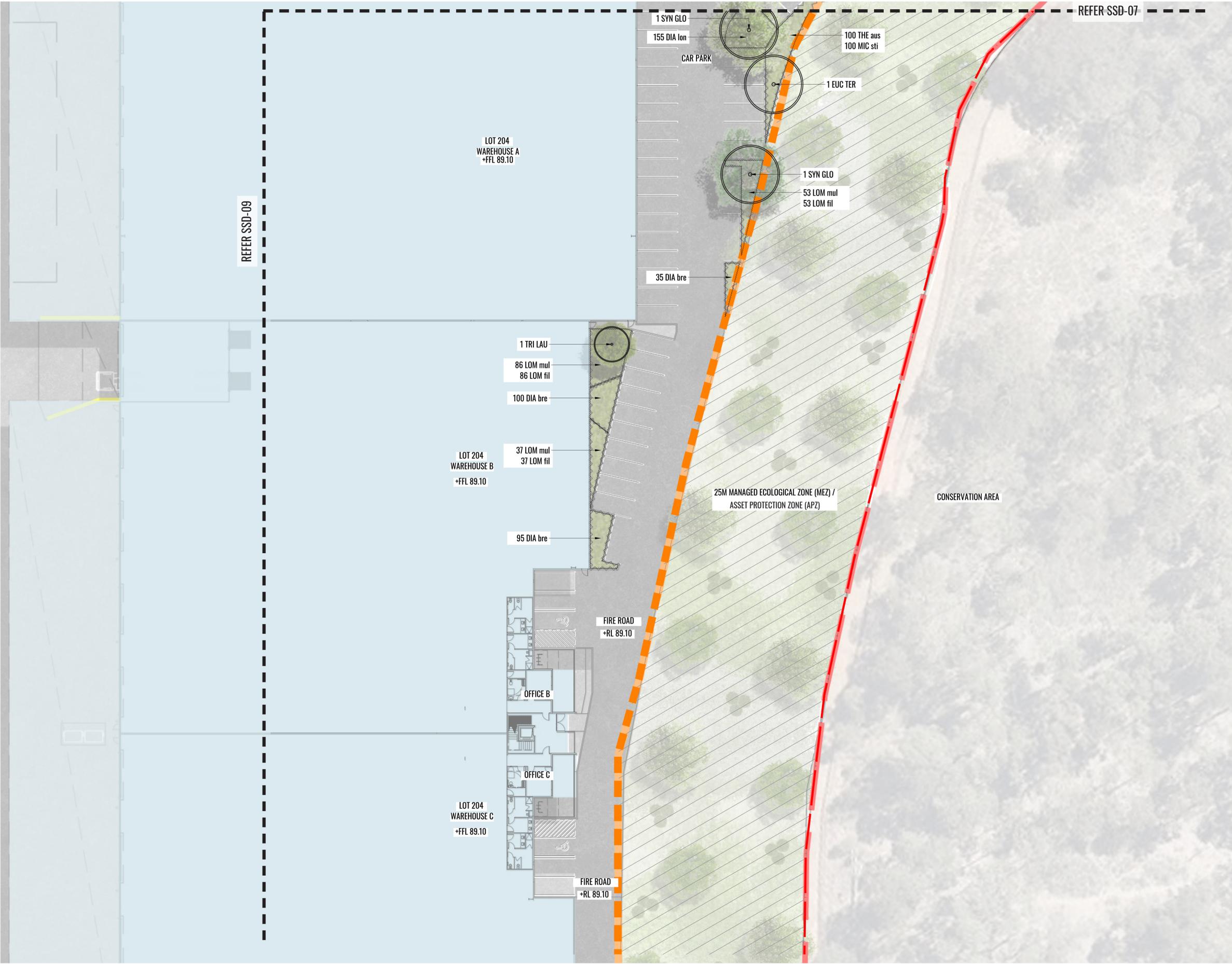
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Drawing Title:
Landscape Detail Plan - Sheet 9
DWG No:
SSD-10

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REFER SSD-09

REFER SSD-10

LOT 201
WAREHOUSE
+FFL 86.70

LOT 204
WAREHOUSE C
+FFL 89.10

LOT 204
WAREHOUSE D
+FFL 89.10

DN

1:20

72 LOM mul
72 LOM fil
1 TRI LAU

1 TRI LAU

77 LOM mul
77 LOM fil

FIRE ROAD
+RL 89.10

RW

RW

LEGEND

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-  +RL 80.20 PROPOSED LEVELS
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KEY PLAN

Drawing Title:
Landscape Detail Plan - Sheet 10
DWG No:

SSD-11

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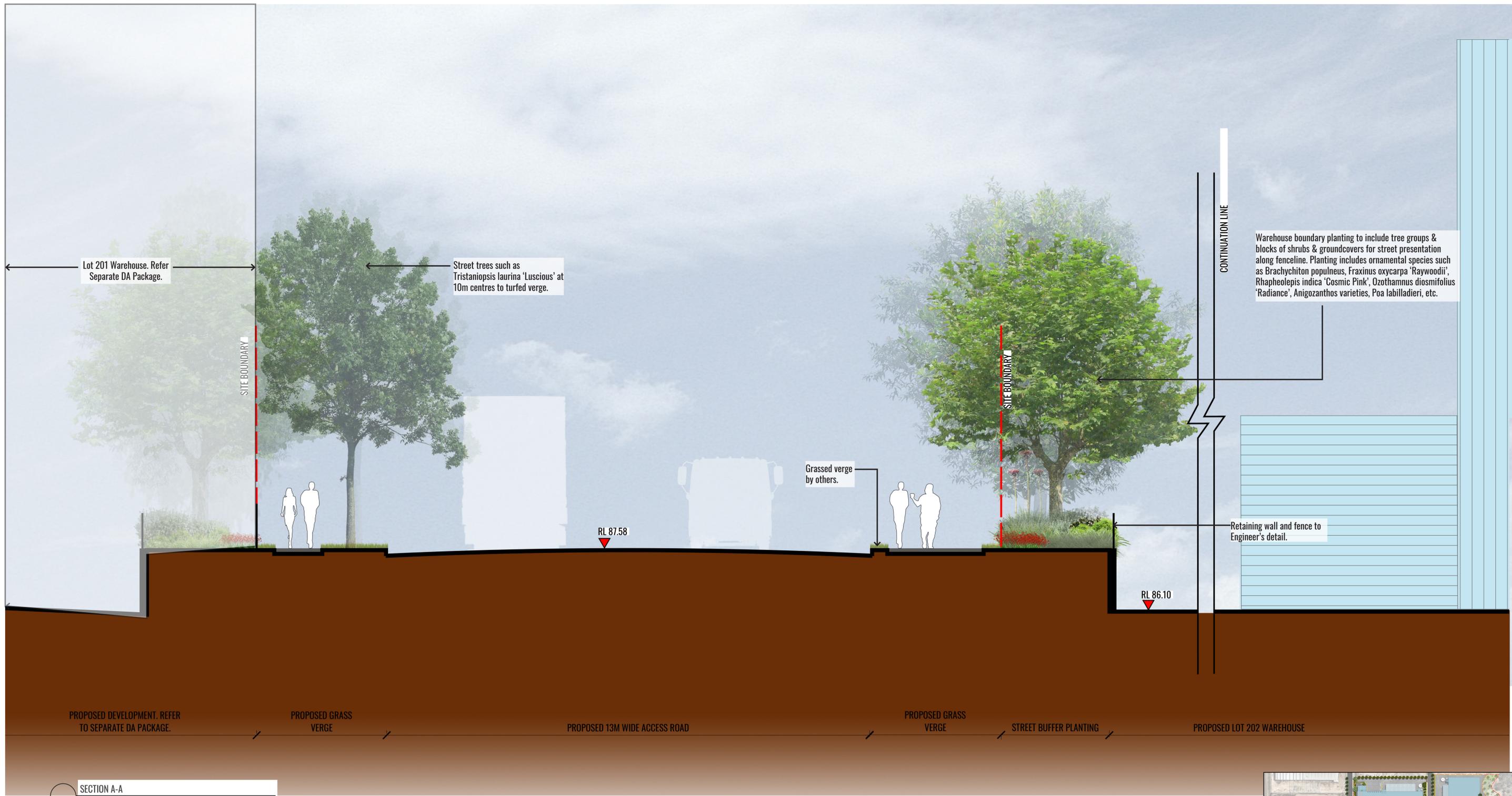
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C	15.06.20	FOR SSD APPLICATION	SB	BG
D	16.10.20	RTS - MASTERPLAN REVISED	SB	BG
E	28.10.20	NOISE WALL ADDED	SB	BG

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KEY PLAN - SECTION LOCATION

Drawing Title:
Landscape Sections -Sheet 1
 DWG No:

SSD-12

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Architect:
hla architects

Client:
ESR

Scale:
 1:50 @ A1
 1:100 @ A3

Date:
 28.10.20

Job Number:
 200224

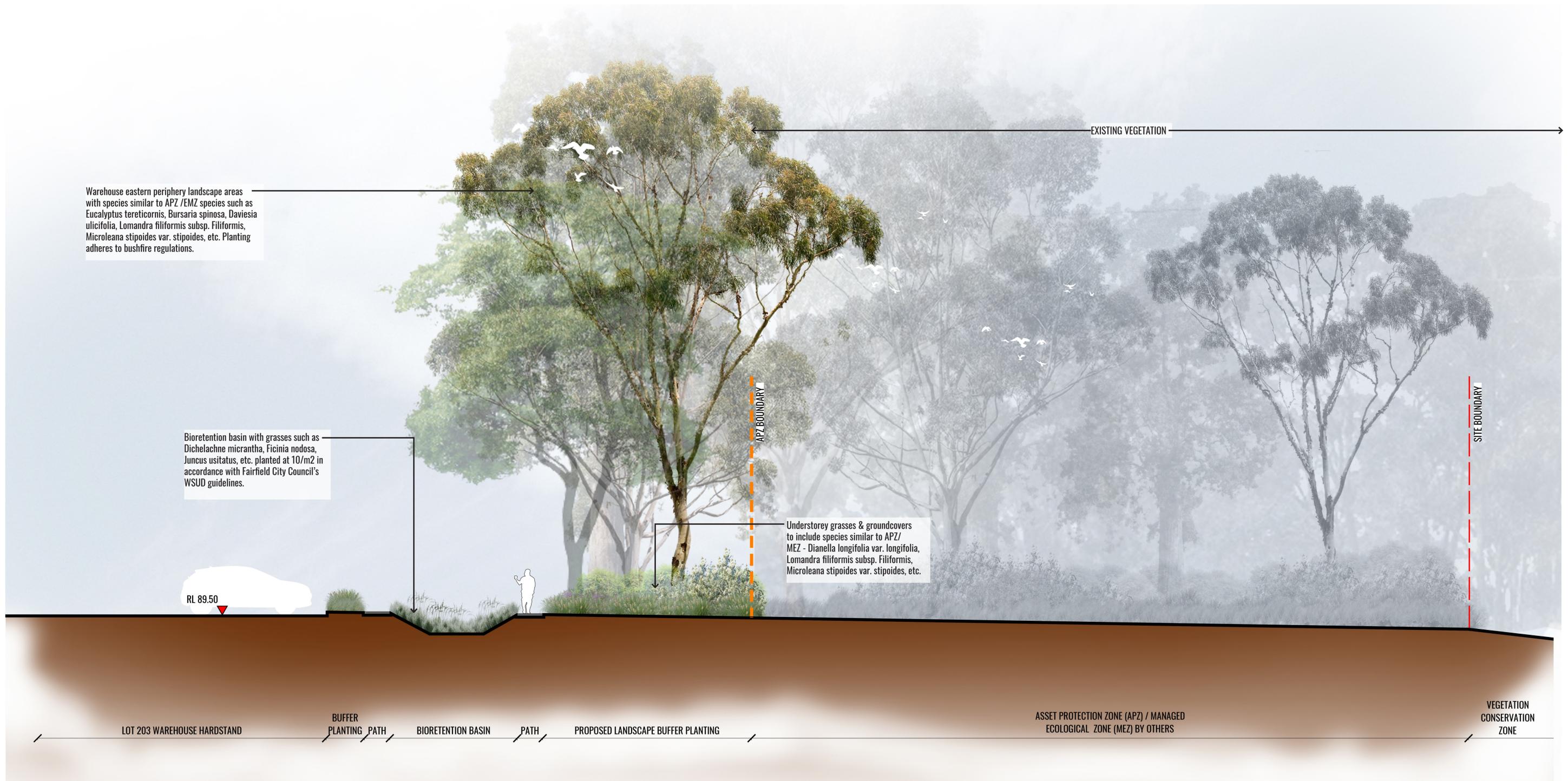
North:

Project:

ESR Horsley Logistics Park
 327-335 Burley Road, NSW 2175

Revision		FOR STATE SIGNIFICANT DEVELOPMENT		
Rev	Date	Description	Drawn	Checked
B	30.03.20	FOR SSD APPLICATION	SB	BG
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E	28.10.20	NOISE WALL ADDED	SB	BG

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SECTION B-B



KEY PLAN - SECTION LOCATION

Drawing Title:
Landscape Sections - Sheet 2
 DWG No:

SSD-13

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Architect:
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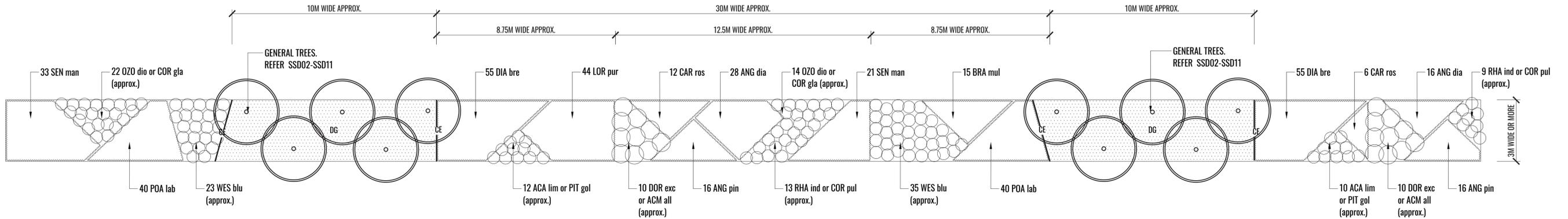
Client:
ESR

Scale: 1:75 @ A1
 1:150 @ A3
 Date: 28.10.20
 Job Number: 200224
 North:
 Project: **ESR Horsley Logistics Park**
 327-335 Burley Road, NSW 2175

Revision		FOR STATE SIGNIFICANT DEVELOPMENT		
Rev	Date	Description	Drawn	Checked
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D	16.10.20	RTS - MASTERPLAN REVISED	SB	BG
E	28.10.20	NOISE WALL ADDED	SB	BG

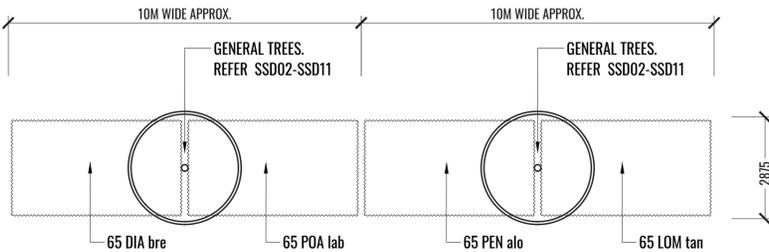
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TYPICAL LANDSCAPE DETAILS

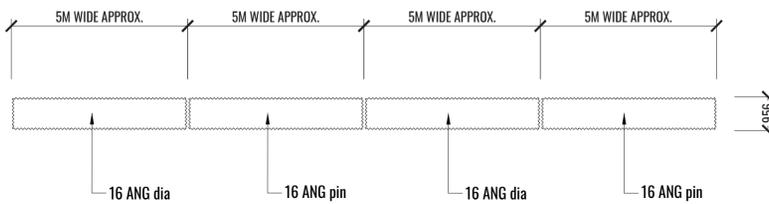


1 PLANTING MATRIX A
TYPICAL LAYOUT SCALE 1:100

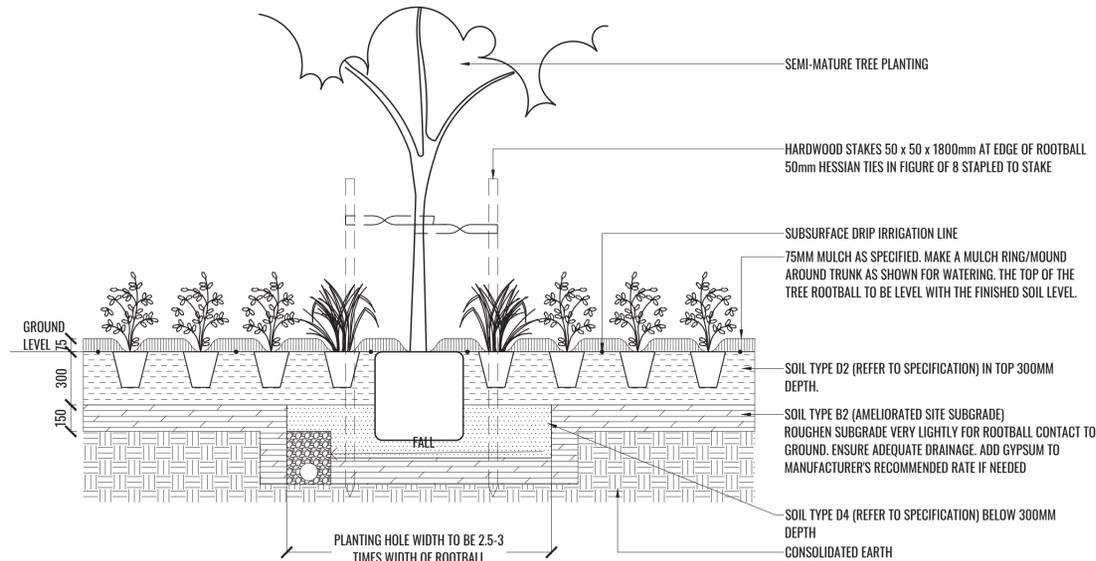
TREE/SHRUB SIZE AND QUALITY TO BE TO NATSPEC STANDARD. SPECIES IS TO BE AS PER PLAN AND PLANT SCHEDULE. ENSURE ONLY HEALTHY AND VIGOROUS, DISEASE FREE, WELL MAINTAINED PLANTS ARE USED. TAKE CARE TO ENSURE FOLIAGE, BRANCHES, TRUNKS AND ROOT CROWNS ARE NOT DAMAGED BEFORE, DURING AND AFTER PLANTING. ENSURE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



2 PLANTING MATRIX B
TYPICAL LAYOUT SCALE 1:100



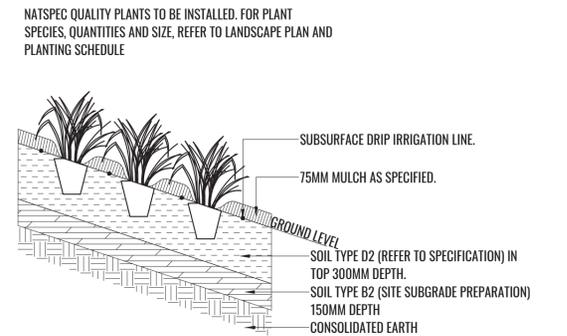
3 PLANTING MATRIX C
TYPICAL LAYOUT SCALE 1:100



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 ROAD 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.

4 MASS PLANTING AND TREE DETAIL
TYPICAL SECTION SCALE 1:20



5 SLOPE PLANTING 1 IN 3 OR FLATTER TYPICAL DETAIL
TYPICAL SECTION SCALE 1:20

Drawing Title:
Typical Landscape Details
DWG No:

SSD-14

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hla architects

Client:
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Scale: As Shown @ A1	Date: 28.10.20	Job Number: 200224	North:	Revision	FOR STATE SIGNIFICANT DEVELOPMENT			
Project: ESR Horsley Logistics Park 327-335 Burley Road, NSW 2175				Rev	Date	Description	Drawn	Checked
				B	30.03.20	FOR SSD APPLICATION	SB	BG
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SPECIFICATIONS & 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. 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

Non-Australian native garden beds to have soil installed consisting of 50% existing site topsoil and 50% new topsoil equal or equivalent to 'Organic Garden Mix' as supplied by Australian Native Landscapes. 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 & Maintenance Plan
 DWG No: **SSD-15**

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Client:


Scale:	Date:	Job Number:	North:	Revision					FOR STATE SIGNIFICANT DEVELOPMENT	
As Shown @ A1	28.10.20	200224		Rev	Date	Description	Drawn	Checked		
Project:	ESR Horsley Logistics Park 327-335 Burley Road, NSW 2175	B	30.03.20	FOR SSD APPLICATION	SB	BG				
		C	15.06.20	FOR SSD APPLICATION	SB	BG				
		D	16.10.20	RTS - MASTERPLAN REVISED	SB	BG				
		E	28.10.20	NOISE WALL ADDED	SB	BG				

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PLANTING SCHEDULE

PLANT CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	NATIVE	POT SIZE	PLANTING DENSITY	QTY**
General trees							
find	<i>Brachychiton populneus</i>	Kurrajong	20m	✓	100L	As Shown	13
EUC MOL	<i>Eucalyptus moluccana</i>	Grey Box	25m	✓	100L	As Shown	6
EUC TER	<i>Eucalyptus tereticornis</i>	Forest Red Gum	20m	✓	100L	As Shown	10
FRA RAY	<i>Fraxinus oxycarpa</i> 'Raywoodii'	Claret Ash	15m		100L	As Shown	6
GLE TRI	<i>Gleditsia tricanthos</i> 'Sunburst'	Golden Honey Locust	9m		100L	As Shown	18
LAG SIO	<i>Lagerstroemia indica</i> x <i>fauriei</i> 'Sioux'	Hot Musk Pink Crepe Myrtle	5m		100L	As Shown	5
MAG GRA	<i>Magnolia grandiflora</i> 'Coolwyn Gloss'	Magnolia	10m		100L	As Shown	15
SYN GLO	<i>Syncarpia glomulifera</i>	Turpentine Tree	30m	✓	100L	As Shown	10
TRI LAU	<i>Tristaniopsis laurina</i> 'Luscious'	Water Gum Tree	15m	✓	100L	As Shown	82
WAT FLO	<i>Waterhousea floribunda</i> 'Green Avenue'	Weeping Lilly Pilly	15m	✓	100L	As Shown	57
Street trees							
TRI LAU	<i>Tristaniopsis laurina</i> 'Luscious'	Water Gum Tree	15m	✓	100L	As Shown	82
Shrubs							
ACA lim	<i>Acacia</i> 'Limelight'	Limelight Acacia	0.5m	✓	200mm	As Shown	468
ACM all	<i>Acmena</i> 'Allyn Magic'	Lilly pilly	0.6m	✓	200mm	As Shown	243
COR gla	<i>Correa glabra</i>	Rock Correa	0.6m	✓	200mm	As Shown	251
COR pul	<i>Correa pulchella</i> 'Crimson Tide'™	Crimson Tide Correa	0.5m	✓	200mm	As Shown	57
DOR exc	<i>Doryanthes excelsa</i>	Gynea Lilly	1.5m	✓	200mm	As Shown	186
OZO dio	<i>Ozothamnus diosmifolius</i> 'Radiance'	Native Rice flower	1.5m	✓	200mm	As Shown	411
PIT gol	<i>Pittosporum</i> 'Golf Ball'	Golf ball Pittosporum	0.5m		200mm	As Shown	178
RHA ind	<i>Rhapheolepis indica</i> 'Cosmic Pink'	Indian Hawthorn	0.5m		200mm	500mm centres	249
WES blu	<i>Westringia</i> 'Blue Gem'	Native Rosemary	1-1.5m	✓	200mm	750mm centres	215
Grasses & groundcovers							
ANG dia	<i>Anigozanthos</i> 'Bush Diamond'	Kangaroo Paw	0.6m	✓	140mm	4/m2	1399
ANG pin	<i>Anigozanthos</i> 'Bush Bush Pearl Pink'	Kangaroo Paw	0.6m	✓	140mm	4/m2	1308
BRA mul	<i>Brachyscome multifida</i> 'White Delight'	Rock Daisy	0.3m	✓	140mm	3/m2	1005
CAR ros	<i>Carpobrotus rossii</i> 'White Hot'	Native Pigface	0.3m	✓	140mm	3/m2	510
DIA bre	<i>Dianella caerulea</i> 'Breeze'™	Native Flax	0.5m	✓	Tubestock	5/m2	3376
DIA lon	<i>Dianella longifolia</i> var. <i>longifolia</i>	Blueberry Lily	0.5m	✓	Tubestock	5/m2	1311
LOR pur	<i>Loropetalum</i> 'Purple Pixie'	Purple Loropetuum	0.5m		140mm	4/m2	1761
LOM tan	<i>Lomandra longifolia</i> 'Tanika'™	Mat-rush	0.5m	✓	Tubestock	5/m2	537
LOM fil	<i>Lomandra filiformis</i> subsp. <i>Filiformis</i>	Wattle Mat-rush	0.5m	✓	Tubestock	5/m2	1058
LOM mul	<i>Lomandra multiflora</i> subsp. <i>multiflora</i>	Mat-rush	0.6m	✓	Tubestock	5/m2	1555
MIC sti	<i>Microleana stipoides</i> var. <i>stipoides</i>	Weeping Grass	0.7m	✓	Tubestock	5/m2	982
PEN alo	<i>Pennisetum alopecuroides</i>	Swamp Fountain Grass	1m	✓	Tubestock	5/m2	537
POA lab	<i>Poa labillardieri</i>	Tussock Grass	1m	✓	Tubestock	5/m2	1592
SEN man	<i>Senecio mandraliscae</i>	Blue Chalksticks	0.3m		140mm	3/m2	912
THE aus	<i>Themeda australis</i>	Kangaroo Grass	0.8m	✓	Tubestock	5/m2	767
Bio-retention planting							
CYM ref	<i>Cymbopogon refractus</i>	Barbed wire grass	1m	✓	Tubestock	10/m2	200
DIC mic	<i>Dichelachne micrantha</i>	Short-hair plumegrass	1.5m	✓	Tubestock	10/m2	200
FIC nod	<i>Ficinia nodosa</i>	Knobby Club Rush	1.5m	✓	Tubestock	10/m2	200
JUN usi	<i>Juncus usitatus</i>	Common Rush	1.2m	✓	Tubestock	10/m2	200
THE tri	<i>Themeda triandra</i>	Kangaroo Grass	1.5m	✓	Tubestock	10/m2	200

**** Approximate numbers based on typical landscape details. Final numbers to be confirmed at CC / Construction stage.**

PLANT IMAGES



Tristaniopsis laurina 'Luscious'



Gleditsia tricanthos 'Sunburst'



Eucalyptus moluccana



Lagerstroemia indica x fauriei 'Sioux'



Bursaria spinosa



Daviesia ulicifolia



Ozothamnus diosmifolius 'Radiance'



Acacia 'Limelight'



Westringia 'Blue Gem'



Rhapheolepis indica 'Cosmic Pink'



Anigozanthos 'Bush Diamond'



Carpobrotus rossii 'White Hot'



Dianella longifolia var. longifolia



Lomandra multiflora subsp. multiflora



Poa labillardieri



Dianella caerulea 'Breeze'

Drawing Title:
Planting Schedule & Imagery
DWG No: **SSD-16**

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