OVERALL LANDSCAPE CONCEPT PLAN



KEY

Site Boundary

dexus

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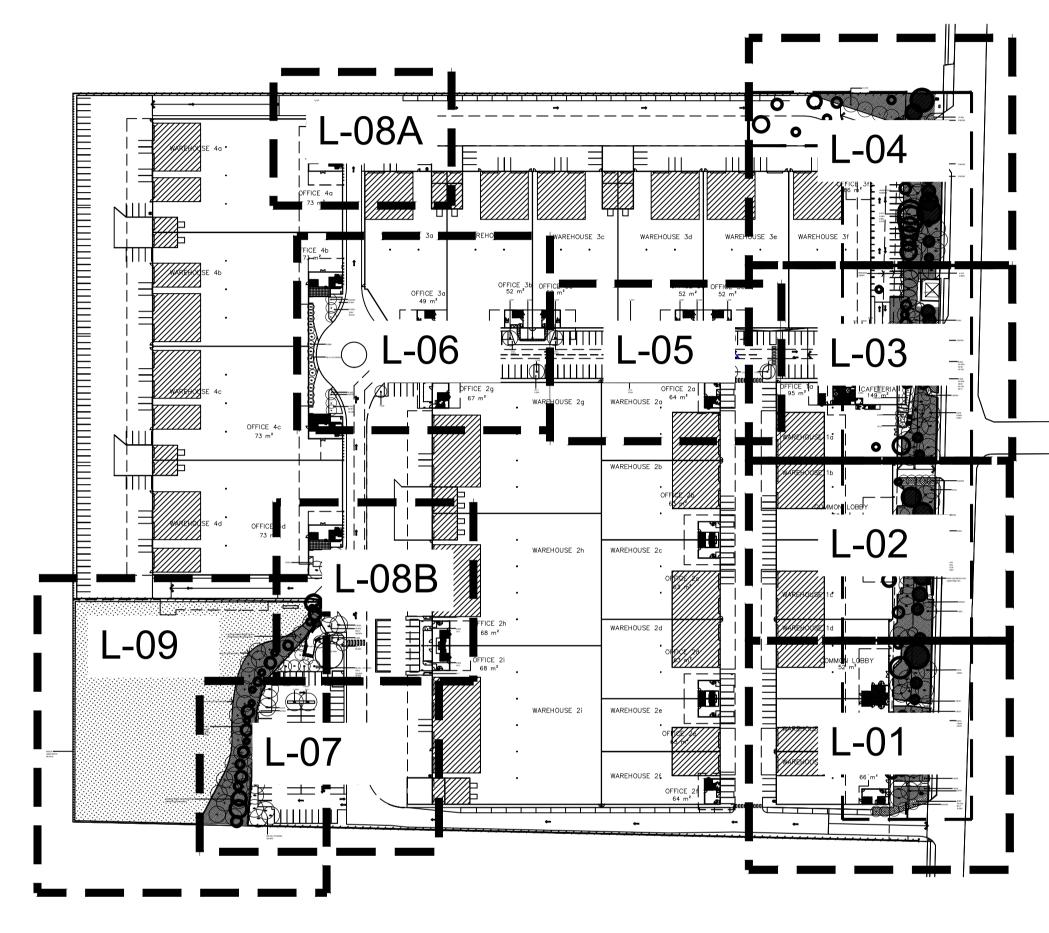






DEXUS GRANVILLE 54-70 FERNDELL STREET, SOUTH GRANVILLE, NSW

LANDSCAPE DOCUMENTATION CONSTRUCTION ISSUE 28.05.2019



DRAWING LAYOUT PLAN 1:1500@A1

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BUSH REGENERATION / BIODIVERSITY PLANT SCHEDULE SOUTHWEST CORNER (912m2)

CODE	BOTANICAL NAME	MIN POT SIZE	DENSITY	QTY
Ecr	Eucalyptus crebra	200mm	As shown	7
Eeu	Eucalyptus eugenioides	200mm	As shown	9
Emo	Eucalyptus moluccana	200mm	As shown	9
Ete	Eucalyptus tereticornis	200mm	As shown	9
BSP	Bursaria spinosa	Tube Stock	1/1.5m²	270
Dsi	Dyllwynia sieberi	Tube Stock	1/1.5m²	270
Dcu	Dodonaea viscosa "cuneata"	Tube Stock	1/1.5m²	270
Hse	Hackea sericea	Tube Stock	1/1.5m²	270
lau	Indigofera australis	Tube Stock	1/1.5m²	270
DLo	Dianella longifolia	Tube Stock	3/m²	450
Lmu	Lomandra multiflora	Tube Stock	3/m²	450
Pla	Poa labilladieri	Tube Stock	3/m²	450
Hvi	Hardenbergia violacea	Tube Stock	3/m²	450
Mst	Microlaena stipoides	Tube Stock	3/m²	450
VH	Viola hederacea	Tube Stock	3/m²	450

PLANTING NOTES:

_LANDSCAPE ARCHITECT TO APPROVE ALL PLANT SETOUT PRIOR TO INSTALLATION

GENERAL PLANT SCHEDULE

TREES

	CODE	BOTANICAL NAME	MIN POT SIZE	QTY
	BE	Banksi ericifolia	45L	30
	CUP	Cupianiopsis anarcadoides	100L	18
*	ERE	Elaeocarpus reticulatus	75L	42
*	LOC	Angophora costata	75L	5
	MCW	Magnolia		7
*	MCWG	Magnolia "Coolwyn Gloss"	180L	52
*	WAFL	Waterhousea floribunda	75L	30

PLANTING NOTES:

_LANDSCAPE ARCHITECT TO APPROVE ALL PLANT SETOUT PRIOR TO INSTALLATION _CONTACT HABIT8 OR ROBERT DONATO NURSERY FOR PLANTS (TREE ON HOLD)

PH: 93607771 OR 0429823201

SHRUBS

	CODE	BOTANICAL NAME	MIN POT SIZE	QTY	
	DEX	Doryanthes excelsa	300mm	226	
*	SAS	Syzygium "Aussie Southern"	300mm	338	
	WFR	Westringia fruticosa	200mm	140	

PLANTING NOTES:

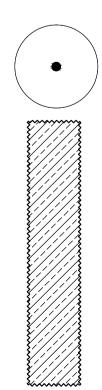
LANDSCAPE ARCHITECT TO APPROVE ALL PLANT SETOUT PRIOR TO INSTALLATION * CONTACT HABIT8 OR ROBERT DONATO NURSERY FOR PLANTS (TREE ON HOLD)

PH: 93607771 OR 0429823201

GROUNDCOVERS, CLIMBERS AND GRASSES

CODE	BOTANICAL NAME	MIN POT SIZE	QTY	
BY	Beschorneria yuccoides	200mm	319	
CGL	Carprobrotus glaucescens	150mm	500	
LT	Lomandra tanika	150mm	902	
MPA	Myoporum parviflorum	150mm	1502	

BUSH REGENERATION / BIODIVERSITY PLANT SCHEDULE FRONT SETBACK (3,135m2)



CODE	BOTANICAL NAME	MIN POT SIZE	DENSITY	QTY
Ecr	Eucalyptus crebra	200mm	As shown	17
Eeu	Eucalyptus eugenioides	200mm	As shown	29
Emo	Eucalyptus moluccana	200mm	As shown	26
Ete	Eucalyptus tereticornis	200mm	As shown	20
BSP	Bursaria spinosa	Tube Stock	1/1.5m²	940
Dsi	Dyllwynia sieberi	Tube Stock	1/1.5m²	940
Dcu	Dodonaea viscosa "cuneata"	Tube Stock	1/1.5m²	940
Hse	Hackea sericea	Tube Stock	1/1.5m²	940
lau	Indigofera australis	Tube Stock	1/1.5m²	940
DLo	Dianella longifolia	Tube Stock	3/m²	1500
Lmu	Lomandra multiflora	Tube Stock	3/m²	1500
Pla	Poa labilladieri	Tube Stock	3/m²	1500
Hvi	Hardenbergia violacea	Tube Stock	3/m²	1500
Mst	Microlaena stipoides	Tube Stock	3/m²	1500
VH	Viola hederacea	Tube Stock	3/m²	1500

DRAWING REGISTER

L-00 COVERSHEET

L-01	LANDSCAPE PLAN
L-02	LANDSCAPE PLAN
L-03	LANDSCAPE PLAN
L-04	LANDSCAPE PLAN
L-05	LANDSCAPE PLAN
L-06	LANDSCAPE PLAN
L-07	LANDSCAPE PLAN
L-08	LANDSCAPE PLAN
L-09	BUSH REGENERAT

L-10 SPECIFICATION NOTES AND LANDSCAPE DETAILS

GENERAL NOTES

1.0 These drawings must be read in conjunction with the drawing package from the consultant team including all engineering drawings.

2.0 Do not scale from these drawings - use figured dimensions. 3.0 SERVICES

Verify the 'as built' location of all existing services before excavation works are started. Services shown are indicative only. 4.0 FALLS

All pavement, planting & turf areas to be graded evenly. Ponding is unacceptable.

5.0 SURFACE LEVELS Bulk surface levels to be verified on site post Civil Contractor works. All adjacent surfaces are to be level and flush unless stated or documented otherwise.

6.0 PLANT LIST

7.0 PLANT STOCK Landscape Architect to approve plant stock prior to delivery on site.

8.0 PLANT SET OUT

LEGEND

GENERAL

+

TREE Refer Plant Schedule, Notes & Details

Planting refer to Plant chedule + Details FEATURE ENTRY PLANTING AREA Planting refer to General Plant Schedule & Details

EXISTING TREES TO BE REMOVED * REFER TO "ARBORIST IMPACT ASSESSMENT 2018" REPORT

PLANTING NOTES:

_LANDSCAPE ARCHITECT TO APPROVE ALL PLANT SETOUT PRIOR TO INSTALLATION

CC AND TENDER PURPOSES ONLY

ISSUE	DATE	PURPOSE
А	04.03.2019	CONSTRUCTION CERT.
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С	31.05.2019	CONSTRUCTION ISSUE

01

L-09 BUSH REGENERATION LANDSCAPE PLAN

Landscape Architect to order & secure planting list prior to tendering.

Landscape Architect to approve plant set out on site prior to planting.

PROPERTY BOUNDARY

SHEET JOIN LINE

PLANTING AREA Refer to Detail

BUSH REGENERATION / BIODIVERITY AREA

EXISTING TREES TO BE RETAINED * REFER TO "ARBORIST IMPACT ASSESSMENT 2018" REPORT

SECURITY FENCE LOCATION TO ARCHITECTS DETAIL

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NEVER scale off drawings, use figured dimensions only. Drawings indicate scope of works and general setout. These are not shop drawings.



CLIENT

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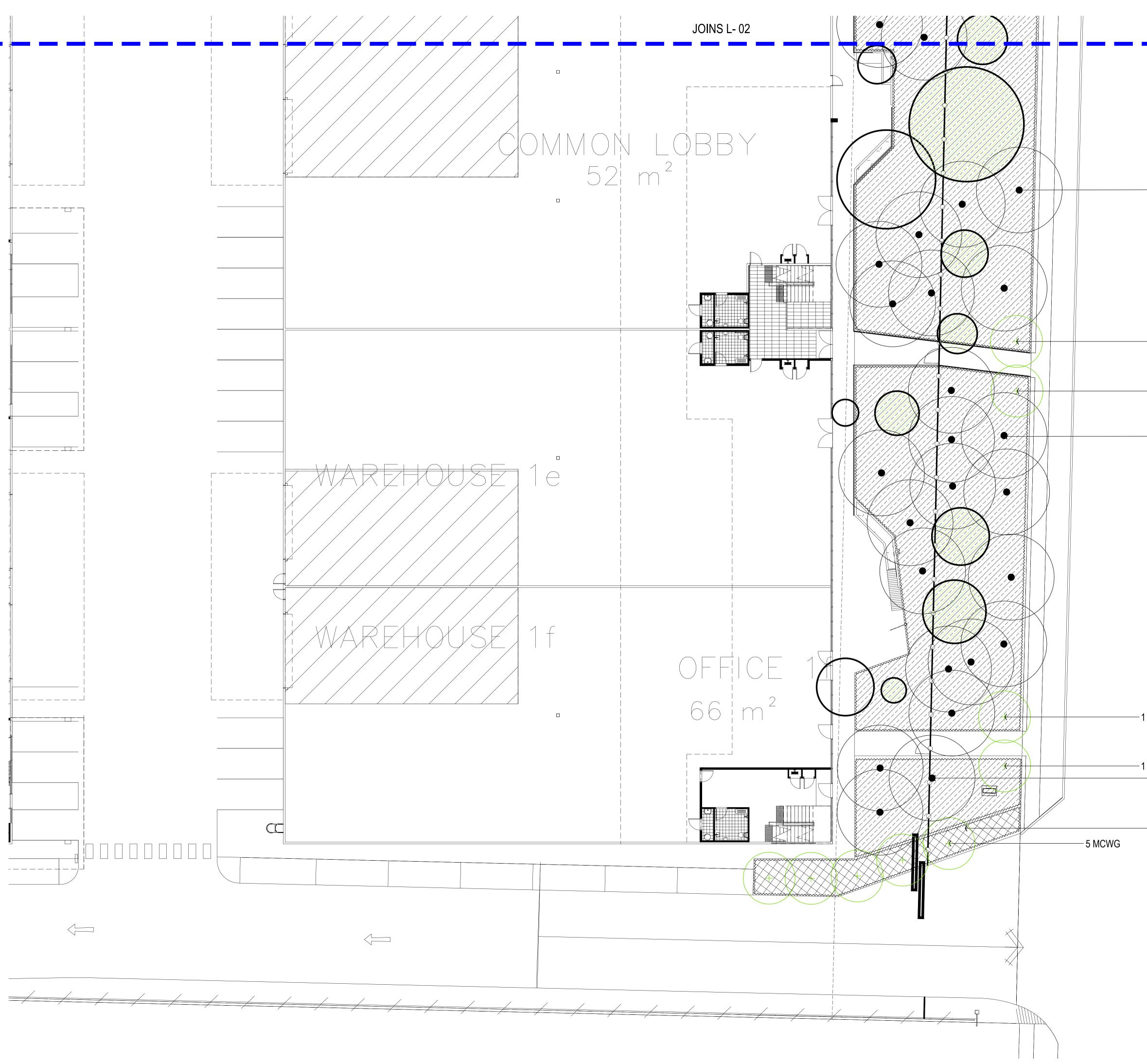
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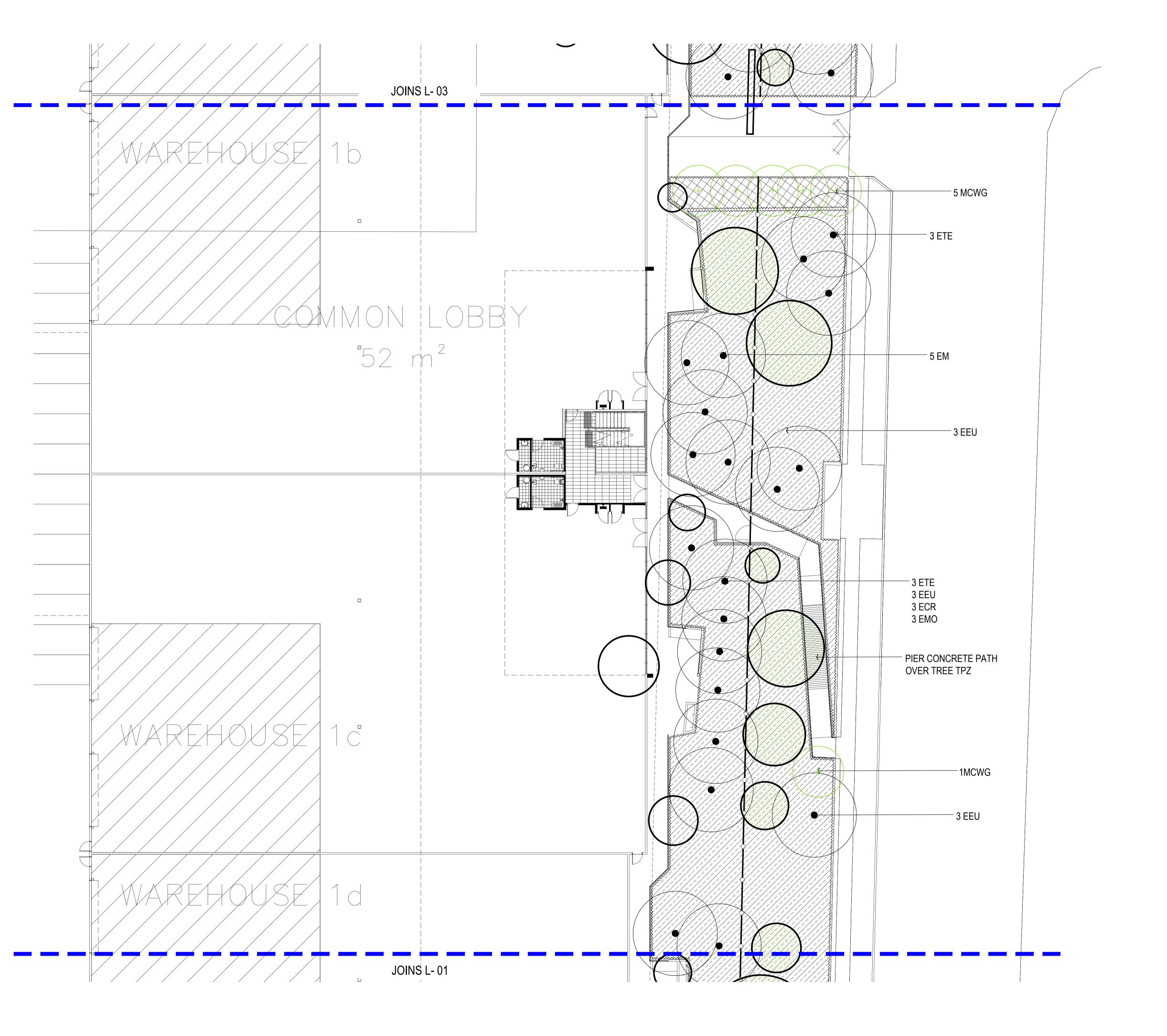
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(02) 9360 7771



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	Planting refer to General Plant Schedule & Details EXISTING TREES TO BE REMOVED * REFER TO "ARBORIST IMPACT ASSESSMENT
—1 MCW	EXISTING TREES TO BE RETAINED * REFER TO "ARBORIST IMPACT ASSESSMENT
4 ETC	2018" REPORT
4 EMO 4 ECR	Landscape Architect's work is subject to Copyright. Documents should not be used contray to the purpose of the issue without written permission from Habit8.
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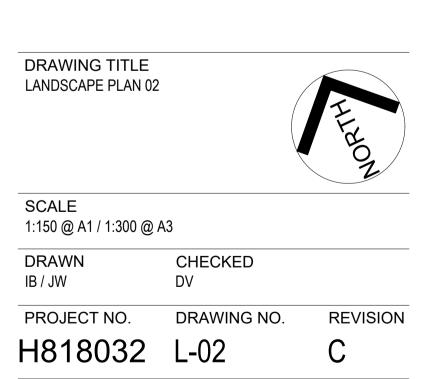
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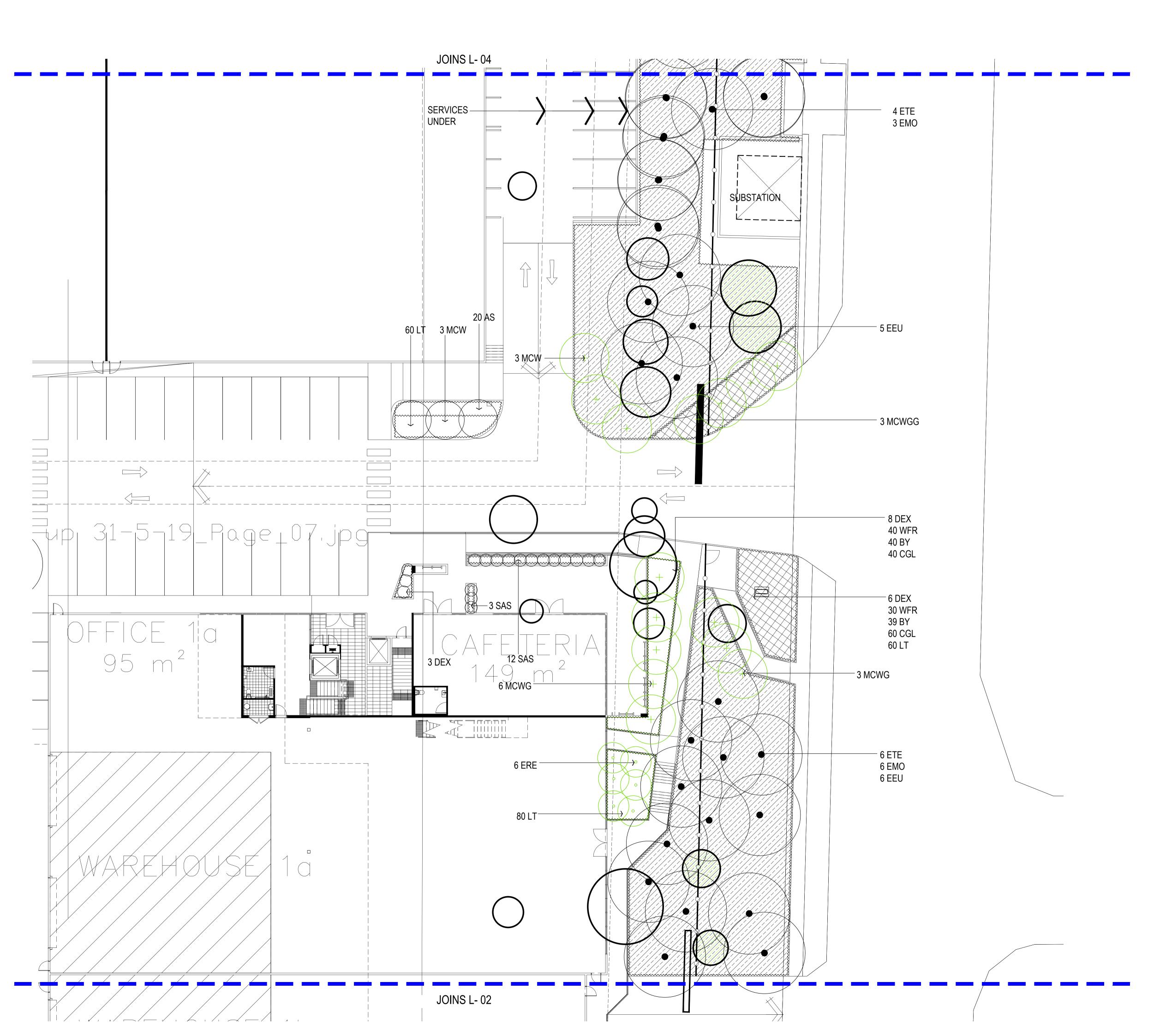
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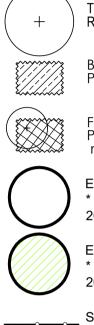




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LEGEND:



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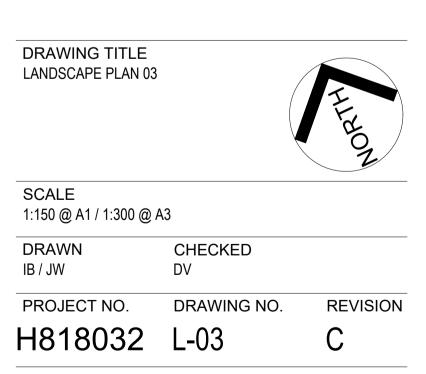
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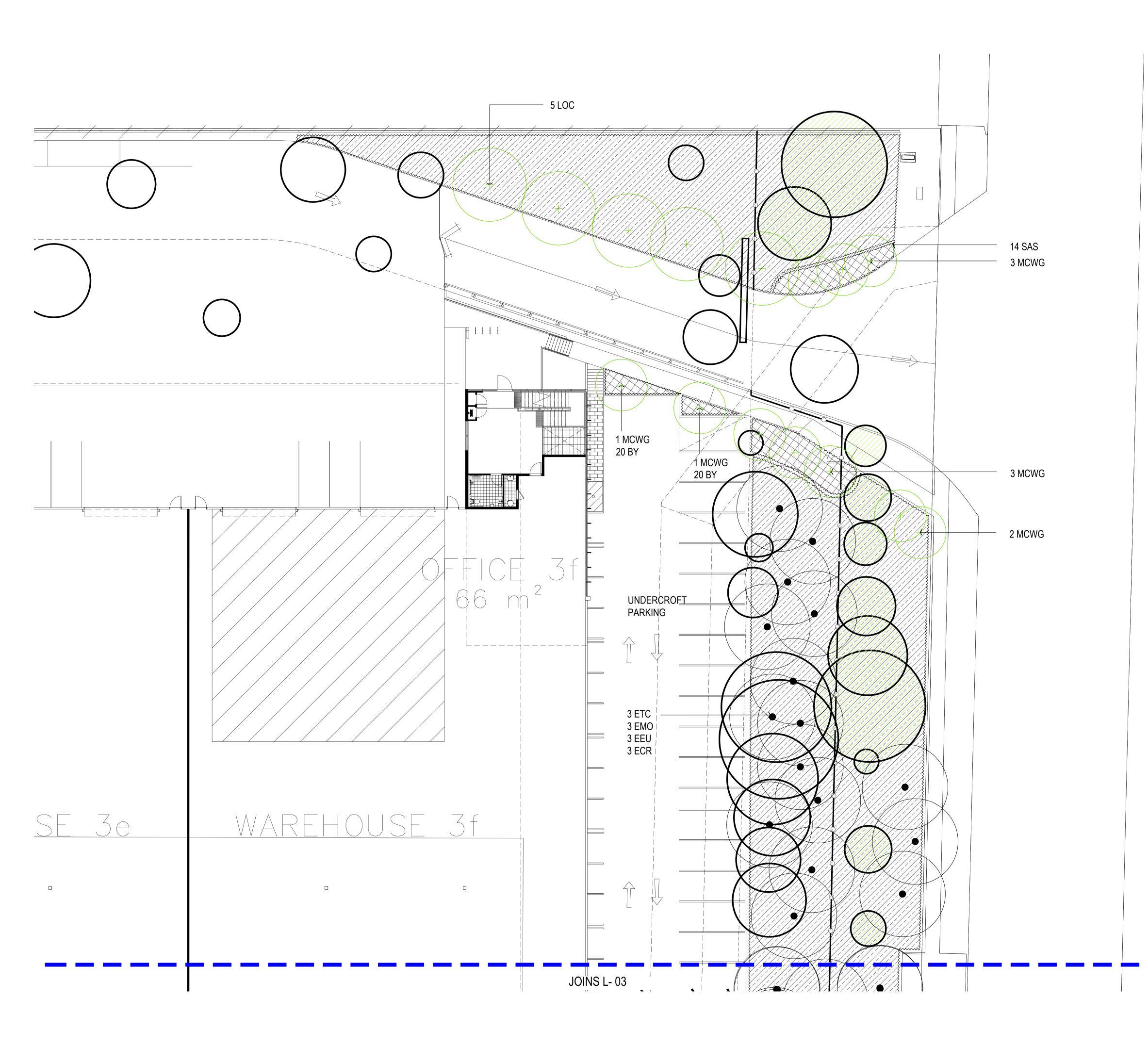


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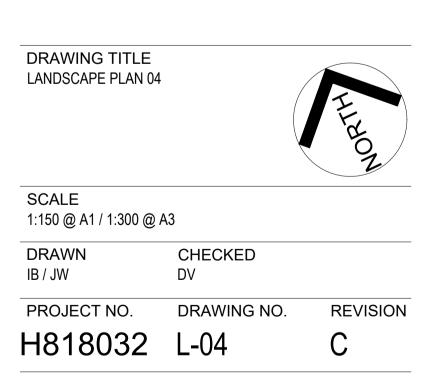
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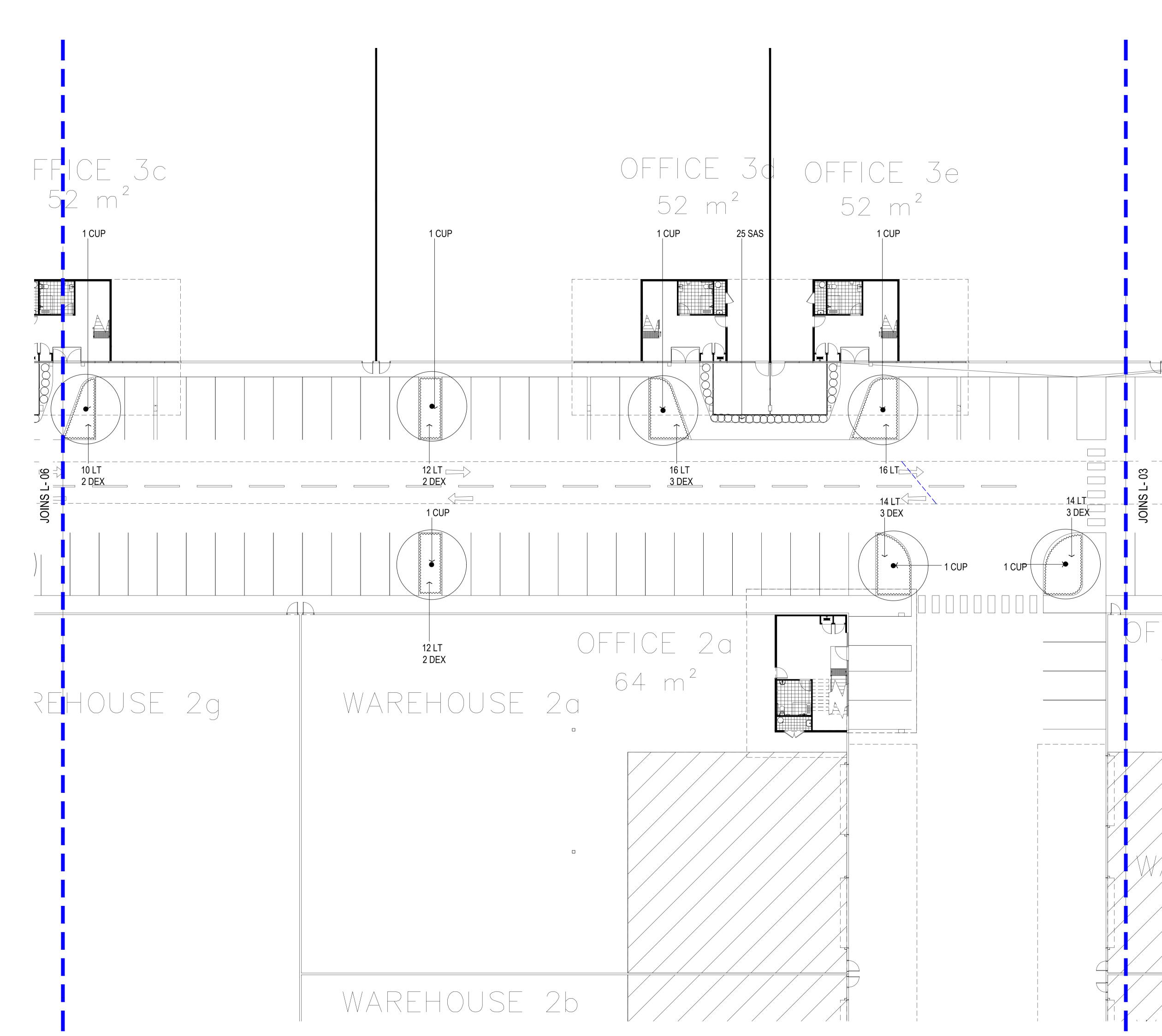
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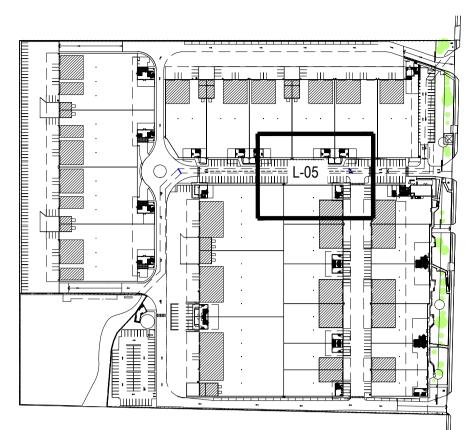
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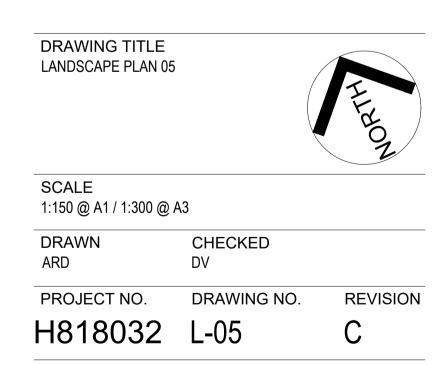
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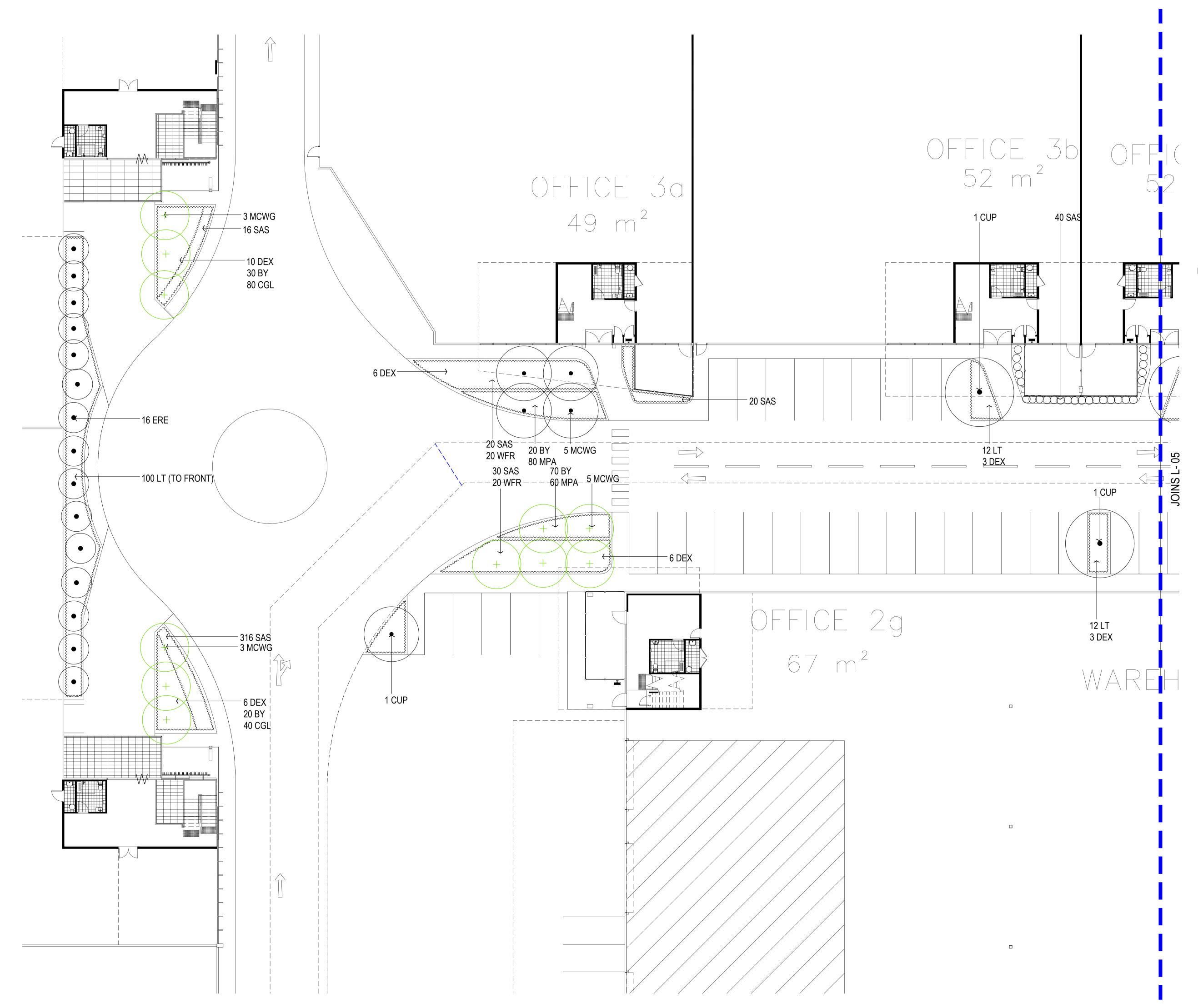


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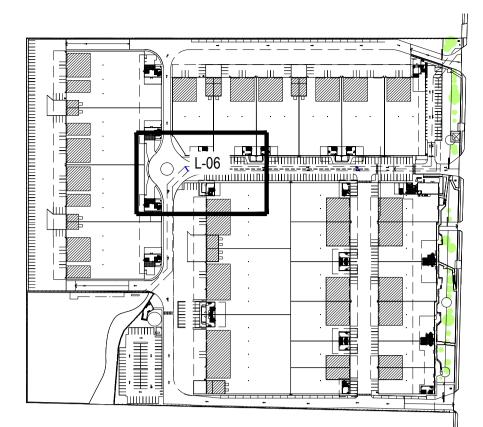
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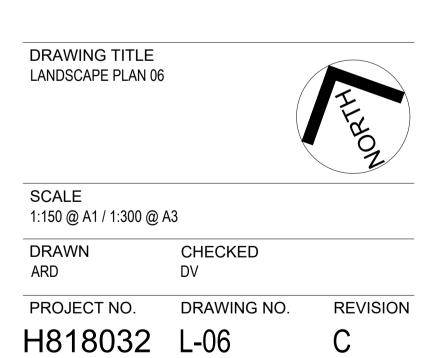


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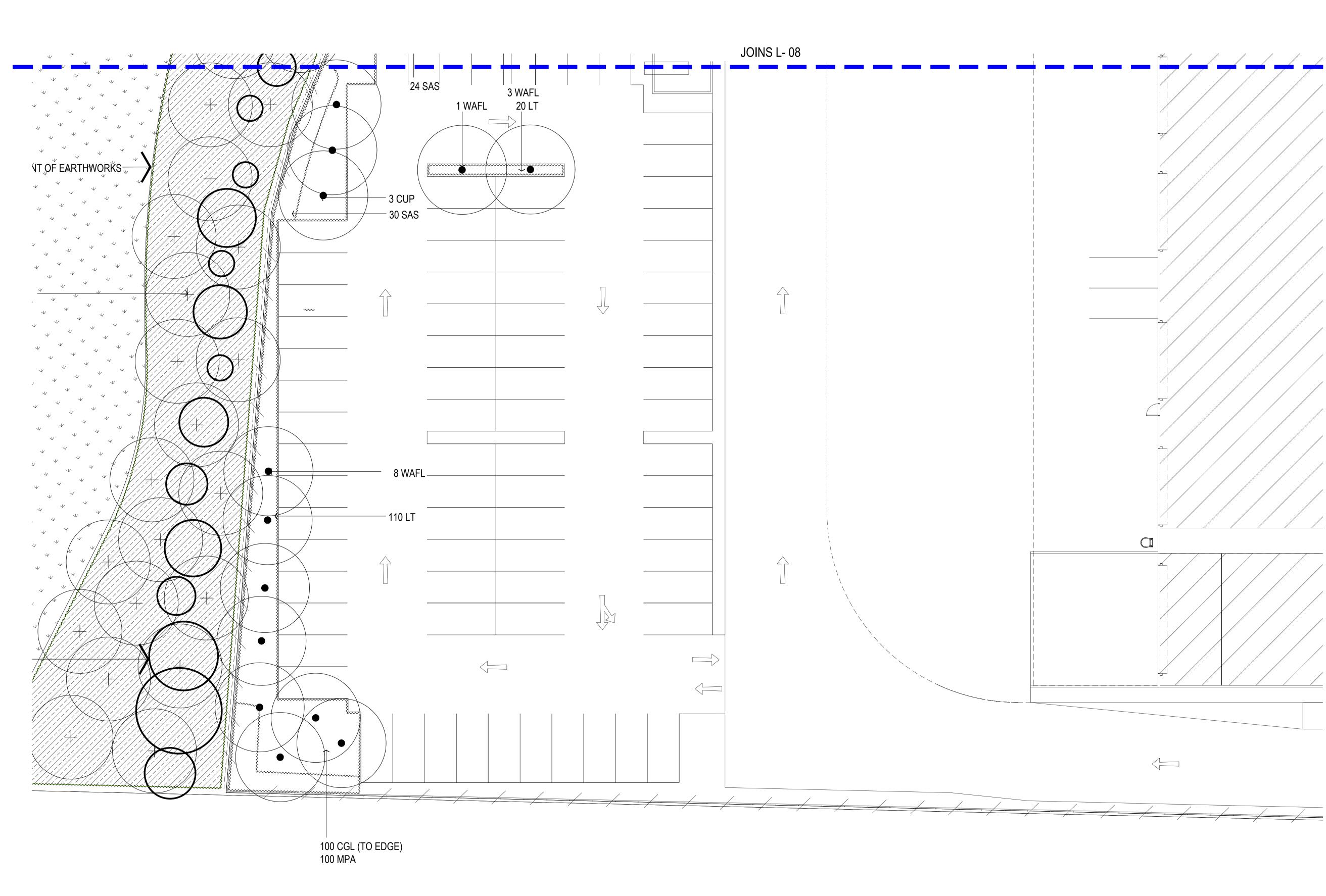
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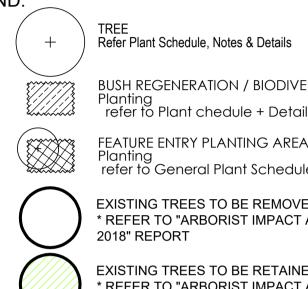


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FEATURE ENTRY PLANTING AREA Planting refer to General Plant Schedule & Details EXISTING TREES TO BE REMOVED * REFER TO "ARBORIST IMPACT ASSESSMENT 2018" REPORT

BUSH REGENERATION / BIODIVERITY AREA

Planting refer to Plant chedule + Details

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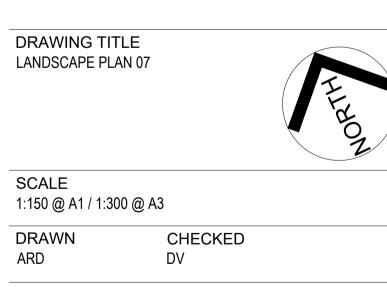
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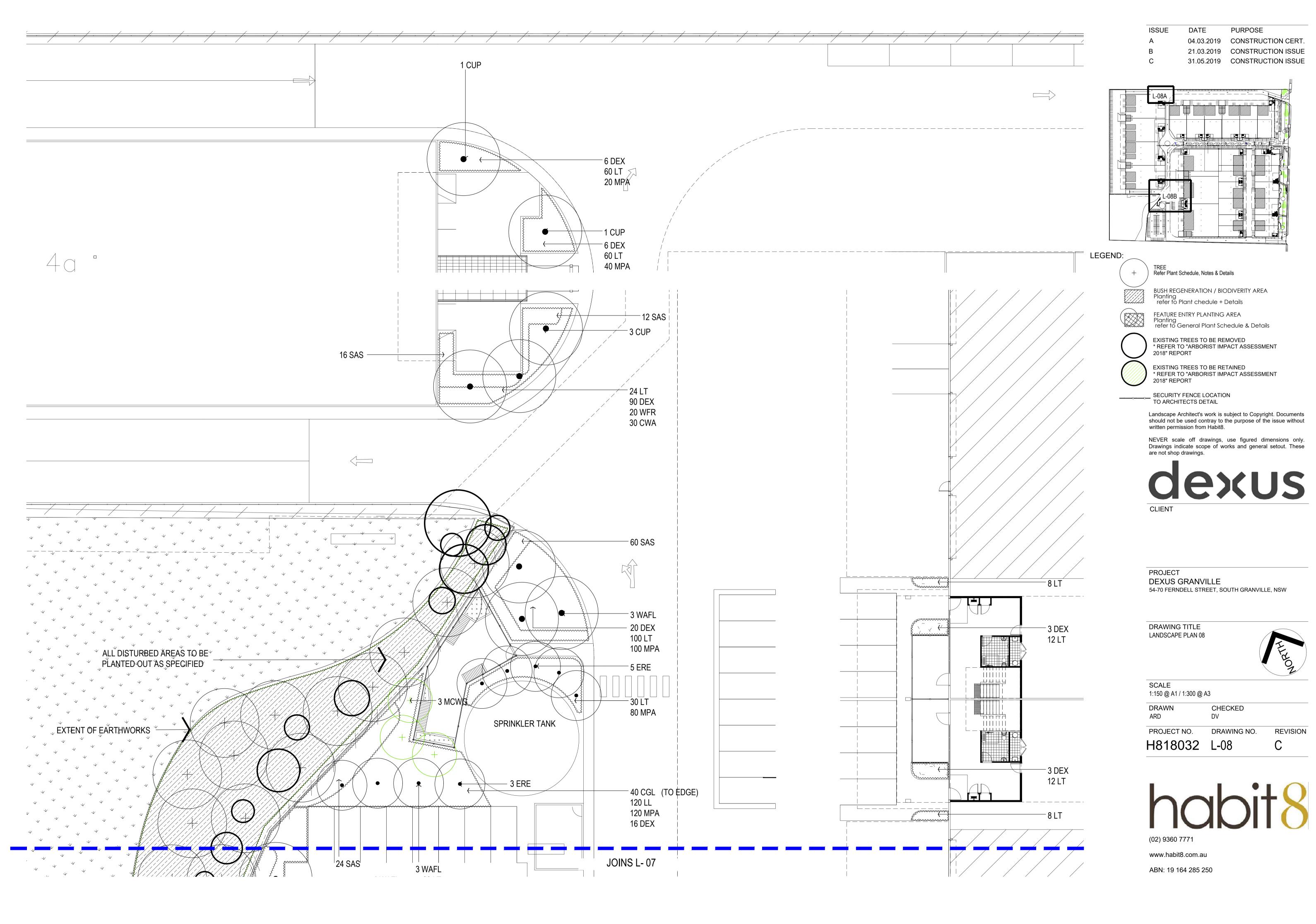


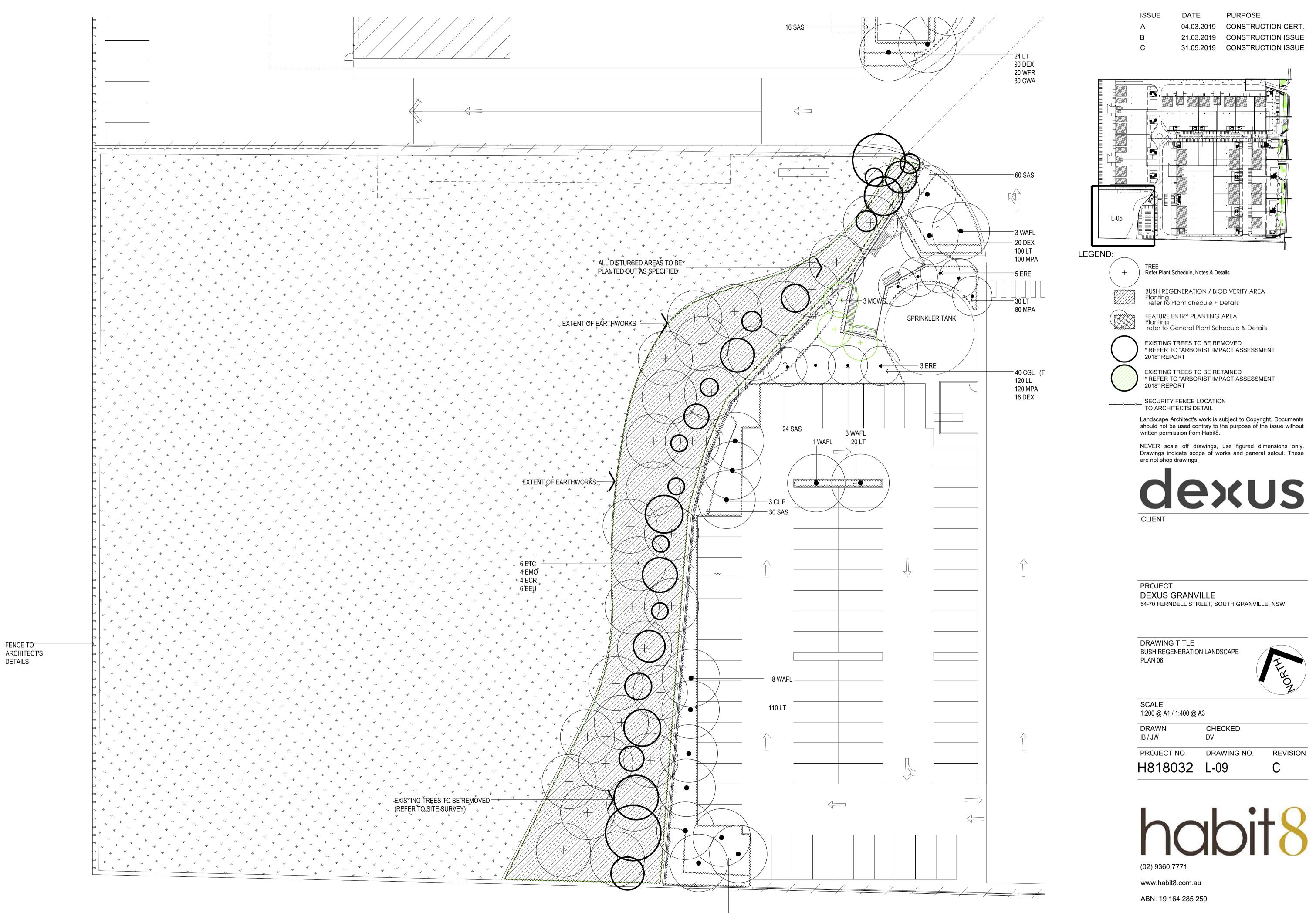
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SPECIFICATION NOTES

SERVICES

Before landscape work is commenced the Landscape Contractor is to establish the position of all service lines and ensure tree planting is 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.

PLANTING MIXTURE - OPTION B (Confirm with Project Manager)

Imported Garden Mix. Type: Premium

Available: Australian Native Landscapes (ANL)

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: Type 1 (Mass planting):

Pine bark: From mature trees, graded in size from 15mm to 30mm, free from wood slivers. Dark brown in colour and texture. Biodiversity areas: Re-veg mulch (To Be Approved by Landscape Architect)

COMPOST

Shall be "GO Compost" as available from Soilco or approved equal.

PLANT MATERIAL

prior to delivery to site.

All plants supplied are to conform with those species listed in the Plant Schedule on the drawings. Generally plants shall be vigorous, well established, hardened off, of good form consistent with species or variety, not soft or forced, free from disease or insect pests with large healthy root systems and no evidence of having been restricted or damaged. Trees shall have a leading shoot. Immediately reject dried out, damaged or unhealthy plant material before planting. All stock is to be container grown for a minimum of six (6) months

FERTILISER

MASS PLANTING AREAS: Fertiliser shall be 'Nutricote' or approved equivalent in granule form intended for slow release of plant nutrients over a period of approximately nine months. Thoroughly mix fertiliser with planting mixture at the recommended rate, prior to installing plants.

TURF: Shall be Shirleys No. 17 or approved equal thoroughly mixed into the topsoil prior to placing turf. TREES IN GRASS AND SUPER ADVANCED TREES: Pellets shall be in the form intended to uniformly release plant food elements for a period of approximately nine months equal to Shirleys Kokei pellets, analysis 6.3:1.8:2.9. Kokei pellets shall be placed at the time of planting to the base of the plant, 50mm minimum from the root ball at a rate of two pellets per 300mm of top growth to a maximum of 8 pellets per tree.

STAKING AND TYING

Stakes shall be straight hardwood, free from knots and twists, pointed at one end and sized according to size

- of plants to be staked.
- a. 5-15 litre size plant 1x(1200x25x25mm)
- b. 35-75 litre size plant 2x(1500x38x38mm)
- c. 100-greater than 200litre 3x(1800x50x50mm)

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.

TURF

Obtain turf from a specialist grower of cultivated turf. turf shall be of even thickness, free from weeds and other foreign matter; lay in stretcher pattern with joints staggered and close butted, perpendicular to gradient of FSL. Water immediately after laying.

TURF TYPE: Sir Walter Soft Leaf Buffalo

LANDSCAPE 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, re-seeding, returfing, weeding, pest and disease control, staking and tying, replanting, cultivation, pruning, aerating, renovating, top dressing, maintaining the site in a neat and tidy condition as follows:-

GENERAL

The landscape contractor shall maintain the landscape works for the term of the maintenance (or Plant establishment) period to the satisfaction of the council. The landscape contractor shall attend to the site on a weekly basis. Landlord to maintain all landscape areas in perpetuity (life of the development).

WATERING

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

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.

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 after the plant has died or is seen to be missing.

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 directed.

PRUNING

General: Prune to reflect the natural growth flowering and regrowth habit of the individual species. Shrubs: Prune after flowering - Spring and Summer and on a spot basis as required.

Hedge trimming: Schedule trimming at times which will maintain the character and design of hedges. Allow up to three times per season.

Tip pruning: To encourage development of new shoots during the active growing season. Do not remove buds before the flowering season in those plants that have terminal flowers.

Radical pruning: To maintain a hedge or formal shape or when a particular problem, growth habit, damage, or disease requires branch removal.

Trees: Prune to eliminate diseased or damaged growth, avoid inter-branch contact and thin out crowns in a natural manner, maintain sight lines to signs and lights, or maintain visibility for personal security. Tree branch removal to AS 4373. Give notice and engage a suitably qualified 'arborist'.

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. Remove all mulching materials off lawn or paved areas and maintain a clean and tidy appearance when viewed on a weekly basis.

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.

GRASS AND TURF AREAS

The landscape contractor shall maintain all grass and turf areas by watering, weeding, re-seeding, rolling, mowing, trimming or other operations as necessary. Seed and turf species shall be the same as the original specified mixture. 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. Irregularities in the grass and turf shall be watered in immediately after application.

Grass and turf areas shall be kept mown to maintain a healthy and vigorous sward. Mowing height: 30-50mm.

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 750mm diameter around the base of trees in grassed areas. Continue eradication throughout the course of the works and during the maintenance period.

SOIL SUBSIDENCE landscape contractor at no cost to the client.

MAITENANCE PERIOD: 8 Months (26 Weeks)

IRRIGATION NOTES

EXTENT All mass planting landscape areas and trees are to have full coverage by a fully automatic irrigation system. The design, materials and installation are to be in accordance with Sydney Water Codes and all relevant Australian Standards.

1. An automatic irrigation system is to be installed to all turf and garden bed areas. 2. The irrigation system shall be designed and installed by a licensed contractor to relevant Australian standards and Sydney water guidelines.

3. The irrigation system shall be connected into the rainwater tank system and pump

DRIPLINE with u-shaped stakes. Dripline pattern to suit planting.

CONTROL VALVES

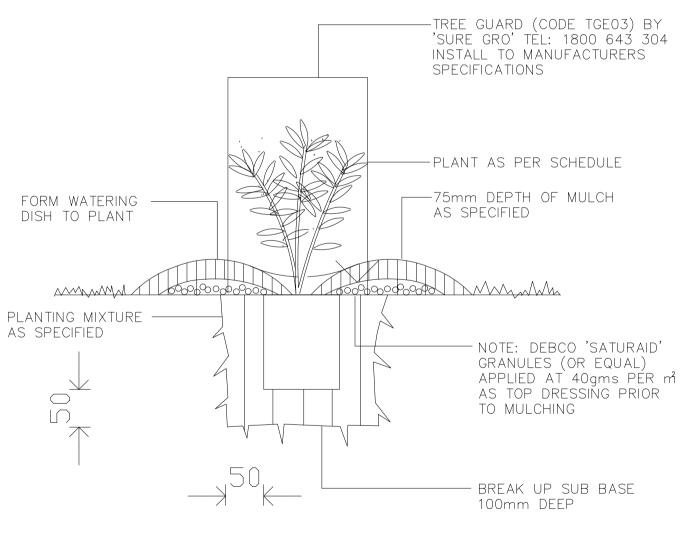
24v solenoid actuated hydraulic valve with flow control. Control valves to be Toro ezflow series solenoids 25mm or approved equal. Provide a gate valve of the same size immediately upstream of each valve. House both valves in a high impact plastic valve box with a high impact plastic cover at finished ground level. Support the box with bricks on each side. Controller to be Toro greenkeeper or approved equal with a rain switch. Install a master valve/pressure regulating valve equal to Toro p220 with exreg pressure regulation valve. Filter to be installed equal to Toro y filter 75mm screen filter.

CONTROL WIRES

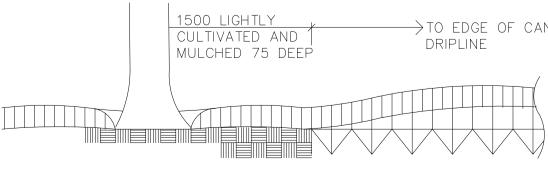
Connect the control valves and soil moisture sensor to the controller with double insulated underground cables laid alongside piping where possible. Lay intertwined for their full length without joints except at the valves and branches off common wires. Provide waterproof connectors.

Provide a backflow prevention device to Sydney water standards AS 3500.

RELEVANT AUSTRALIAN STANDARDS Soil: AS4419, AS3743, AS4454. Mulch: AS4454. Tree Stock: AS2303. Pruning: AS4373. Tree Protection: AS4970. Contractors to comply with the above Australian Standards.





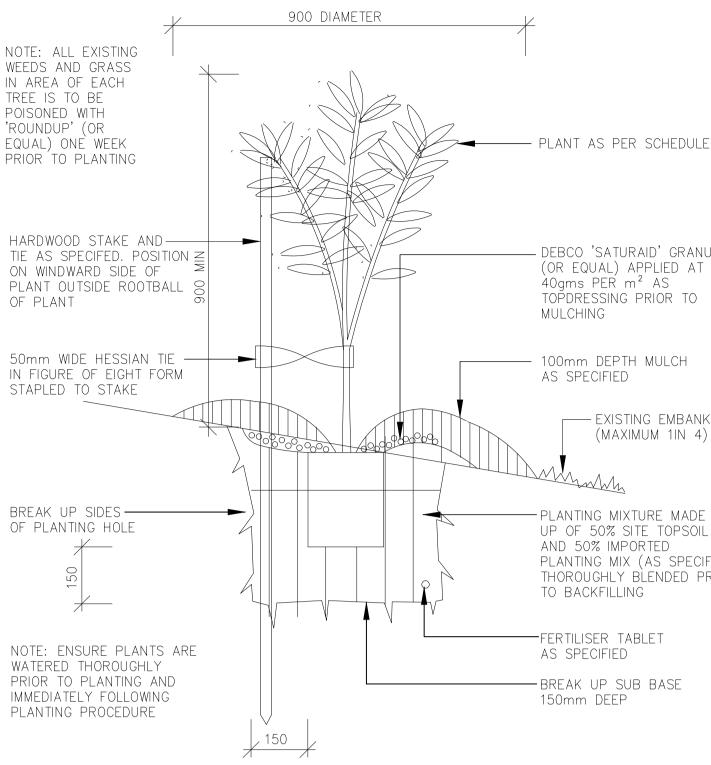


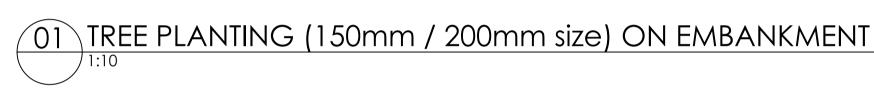


Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made good by the

IRRIGATION OVERVIEW - Confirm with irrigation contractor at tender stage

Provide 13mm dripline to all garden bed areas with appropriate 13mm joiners. Dripline to be Toro drip or similar with 400mm centre drippers. Install line at 500mm spacings with the first line to be 150mm in from edge. Install dripline after planting and prior to mulching to allow for an adequate mulch cover. Anchor at 1.5m maximum intervals



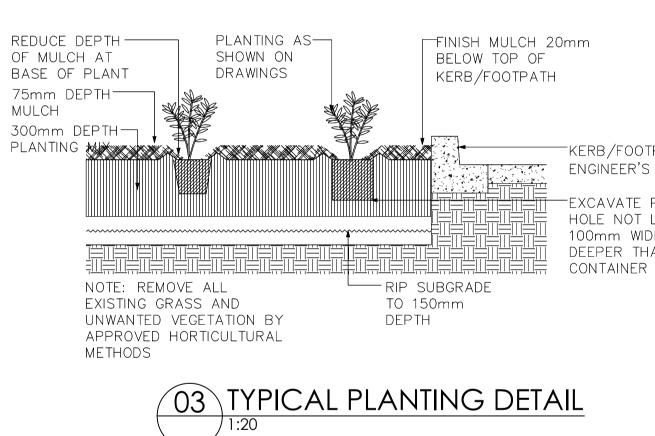


TUBE STOCK PLANTING DETAIL

- 1. REMOVE ALL WEEDS AND RUBBISH 2. CULIVATE (BY HAND) TO 150 DEEP
- 3. INSTALL 100mm PLANTING MIX AND
- THOROUGHLY TURN INTO CULTIVATED TOPSOIL 4. INSTALL 75mm MULCH AS SPECIFIED

 \rightarrow TO EDGE OF CANOPY

MASS PLANTING UNDER EXISTING TREE



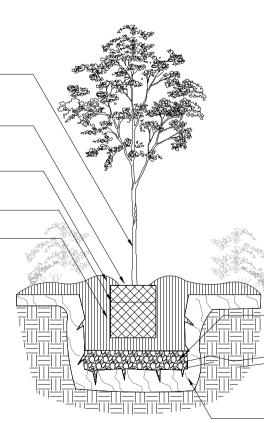
FROM WATERING DISH AROUND BASE OF TREE TRUNK 100 MM DEPTH PINE BARK MULCH (20 MM) AVAILABLE FROM BENEDICTS MIN 500MM PREMIUM GARDEN MIX AROUND ROOTBALL AVAILABLE FROM BENEDICTS REMOVE TOP 200MM OF STEEL PLANTING CAGE -RETREE ROOTBALL LEFT IN PLANTING CAGE -

NOTE: DETAIL TO BE APPROVED BY ANDREASENS NURSERY AND CONTRACTOR PRIOR TO CONSTRUCTION

1. 🐕 SOIL MIX USED IN LIEU OR PREMIUM GARDEN MIX TOP 200MM IS A 3:1 MIX. 1 PART ORGANIC, 3 PARTS 器

2. USE OSMOCOTE AT TOP OF TREE IN LIEU 3. FOR TREE SUPPORT. USE 3 HESSIAW STRAPS TIED TO TREE AT 2M HEIGHT, TIED TO WELL PLACED STAR PICKETS. 4. IRRIGATION - ALL EXISTING GROUND TREES

TO BE ON INDIVIDUAL 20VES TO ISOLATE THE WATER OUTPUT TO THE TREES WATERED A WEEK FOR FIRST MONTH ADDING SEAOL EVERY 2 WEEKS





ISSUE	DATE	PURPOSE
А	04.03.2019	CONSTRUCTION CERT.
В	21.03.2019	CONSTRUCTION ISSUE
С	31.05.2019	CONSTRUCTION ISSUE

DEBCO 'SATURAID' GRANULES

(MAXIMUM 1IN 4)

PLANTING MIX (AS SPECIFIED) THOROUGHLY BLENDED PRIOR

KERB/FOOTPATH TO ENGINEER'S DETAIL

EXCAVATE PLANTING HOLE NOT LESS THAN 100mm WIDE AND DEEPER THAN PLANT

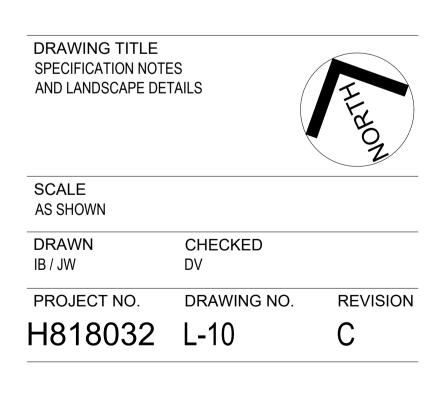
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PROJECT DEXUS GRANVILLE

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90MM DIA. AG LINE IN 100MM DEPTH BLUR METAL CONNECT AG LINE TO SITE DRAINAGE

RIP SUBGRADE TO MIN 150MM