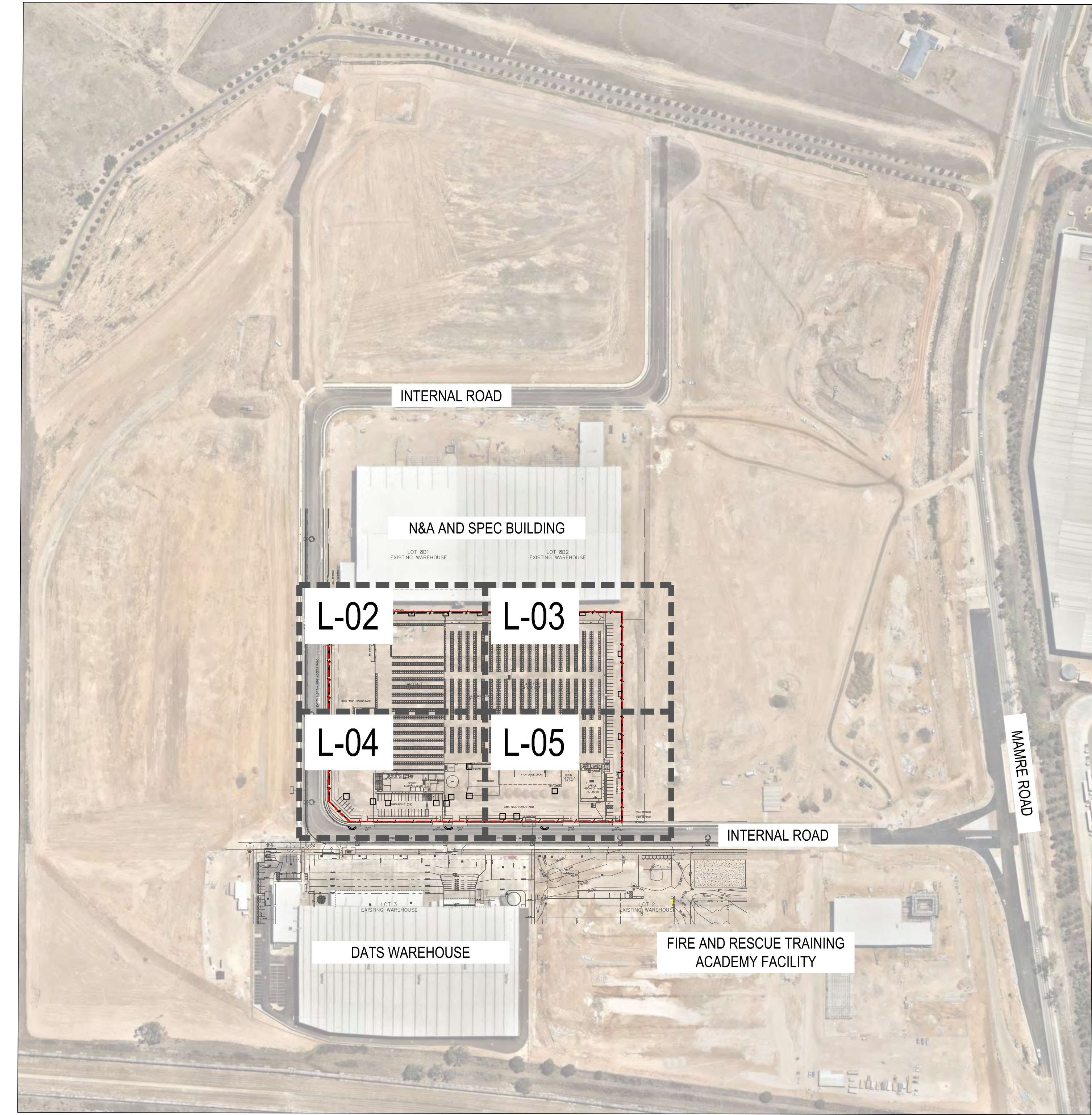


FIRST ESTATE WAREHOUSE 8A1 & 8A2

585-649 MAMRE ROAD, ORCHARD HILLS NSW

LANDSCAPE DOCUMENTATION

DEVELOPMENT APPLICATION



KEY PLAN
1:2000 @ A1 / 1:4000 @ A3

DRAWING REGISTER

- L-00 COVERSHEET
- L-01 SPECIFICATION NOTES
- L-02 DETAILED LANDSCAPE PLAN 1 of 4
- L-03 DETAILED LANDSCAPE PLAN 2 of 4
- L-04 DETAILED LANDSCAPE PLAN 3 of 4
- L-05 DETAILED LANDSCAPE PLAN 4 of 4
- L-06 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 PROCUREMENT
Landscape Architect to approve plant procurement prior to ordering.
- 7.0 SET OUTS
Landscape Architect to approve plant & pebble set out prior to planting.
- 8.0 IRRIGATION
Irrigation extent to be confirmed by builder at tender stage.
- 9.0 HYDRO-MULCH
Hydro-mulch specification & application to be confirmed with Landscape Architect prior to construction.
10. GARDEN BED AT LINES AS PER CIVIL ENGINEERING DRAWINGS

PLANT SCHEDULE

CODE	Botanical Name	Pot Size	Density	Stake	Quantity
TREES					
AC	ANGOPHORA costata	100L	As Shown	2No. Refer Detail	12
CBC	CORYMBIA'Baby Citro'	100L	As Shown	2No. Refer Detail	11
CUP	CUPANIOPSIS anacardioides	100L	As Shown	2No. Refer Detail	2
SHRUBS					
ASM	ACMENA smithii 'Minor'	300mm	As Shown	N/A	78
CC	CALLISTEMON citrinus	200mm	As Shown	N/A	79
CLJ	CALLISTEMON 'Little John'	200mm	As Shown	N/A	251
GRG	GREVILLEA 'Robyn Gordon'	200mm	As Shown	N/A	60
MFF	METROSIDEROS 'Fiji Fire'	300mm	As Shown	N/A	36
MT	METROSIDEROS thomasi	300mm	As Shown	N/A	89
NDB	NANDINA domestica 'Blush'	200mm	As Shown	N/A	540
WFR	WESTRINGIA fruticosa	200mm	As Shown	N/A	185
GROUNDCOVERS					
AA	AGAVE attenuata	150mm	4/m2	N/A	38
CG	CARPOBROTUS glaucescens	150mm	4/m2	N/A	1,650
DTR	DIANELLA tasmanica 'Tasred'	150mm	4/m2	N/A	212
HV	HARDENBERGIA violacea	150mm	4/m2	N/A	212
LT	LOMANDRA longifolia 'Tanika'	150mm	4/m2	N/A	689
MPA	MYOPORUM parviflorum	150mm	4/m2	N/A	
PLANTS SUPPLIED BY HABIT8 - (Contractor to price installation only)					
CODE	Botanical Name	Pot Size	Density	Stake	Quantity
TREES					
ER	ELAEOCARPUS reticulatus	75L	As Shown	2No. Refer Detail	55
MCW	MAGNOLIA 'Cool Wind Gloss'	180L	As Shown	2No. Refer Detail	5
MD	MICHELIA audiae	100L	As Shown	2No. Refer Detail	9
WFL	Waterhousea floribunda	100L	As Shown	2No. Refer Detail	23
SHRUBS					
SSF	SYZYGIUM australe 'Select Form'	300mm	As Shown	N/A	194
CONTACT HABIT8: 9360 7771		NURSERY: 0429 823 201			

PLANTING NOTES:
_LANDSCAPE ARCHITECT TO APPROVE ALL PLANT SETOUT PRIOR TO INSTALLATION

LEGEND

GENERAL

- PROPERTY BOUNDARY
- SHEET JOIN LINE

SOFTSCAPE

- MASS PLANTING BEDS
Refer Notes & Details
- TURF
Refer Notes & Details
- SHRUB
Refer Planting Schedule & Detail
- SEMI MATURE TREE
Refer Plant Schedule, Notes & Details

HARDSCAPE

- EDGING TYPE 1
Refer to Detail
- RIVER PEBBLE BANDS
As specified
- TILING
TO ARCHITECTS SPECIFICATION

ISSUE	DATE	PURPOSE
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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.

TURF UNDERLAY:
Turf Underlay Mix - Supplier SoilCo. or equal
Top soil to be laid at 300mm depth for garden beds and 150mm for turf areas.

GARDEN MIX:
Premium Garden Mix - Supplier SoilCo. or equal

MULCH (BASE OF STREET TREES)
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):Hort Bark by ANL
Pine bark: From mature trees, graded in size from 15mm to 30mm, free from wood slivers. Dark brown in colour and texture.
Type 2 (Feature Areas):
200mm Nepean River Pebble (Lucky Stones). Sample to be approved by Landscape Architect prior to installation.

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

ROOT BARRIER (IF REQUIRED)
600mm deep root barrier installed to manufacturer's specification. To extend along path and back of kerb for 3m with side of trunk.

PLANT MATERIAL
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 prior to delivery to site.

FERTILISER
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. Landscape contractor to determine & implement stabilisation strategies for turf located on batters greater than 1:4 and in swales/overland flow channels.
TURF TYPE: Greenlees Park Couch (Confirm suitability with Penrith City Council).

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. The maintenance period shall commence at practical completion and continue for a period of fifty two (52) weeks.

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 not exceeding two (2) weeks 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
Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made good by the landscape contractor at no cost to the client.


MAINTENANCE PERIOD
The maintenance will be implemented for 6 months (26 weeks)

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A	07.06.2018	DA ISSUE
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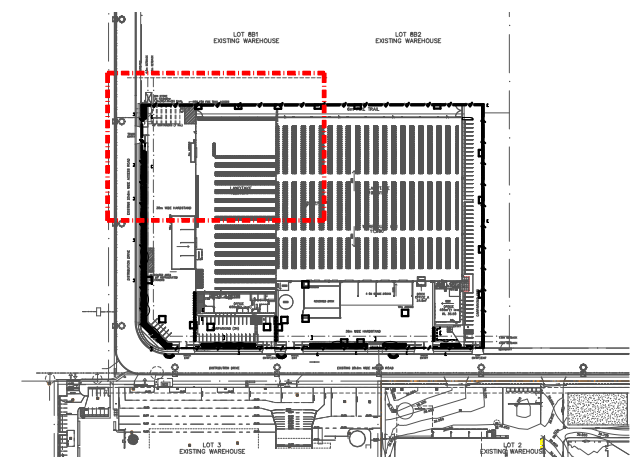
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SPECIFICATION NOTES		
SCALE AS SHOWN		
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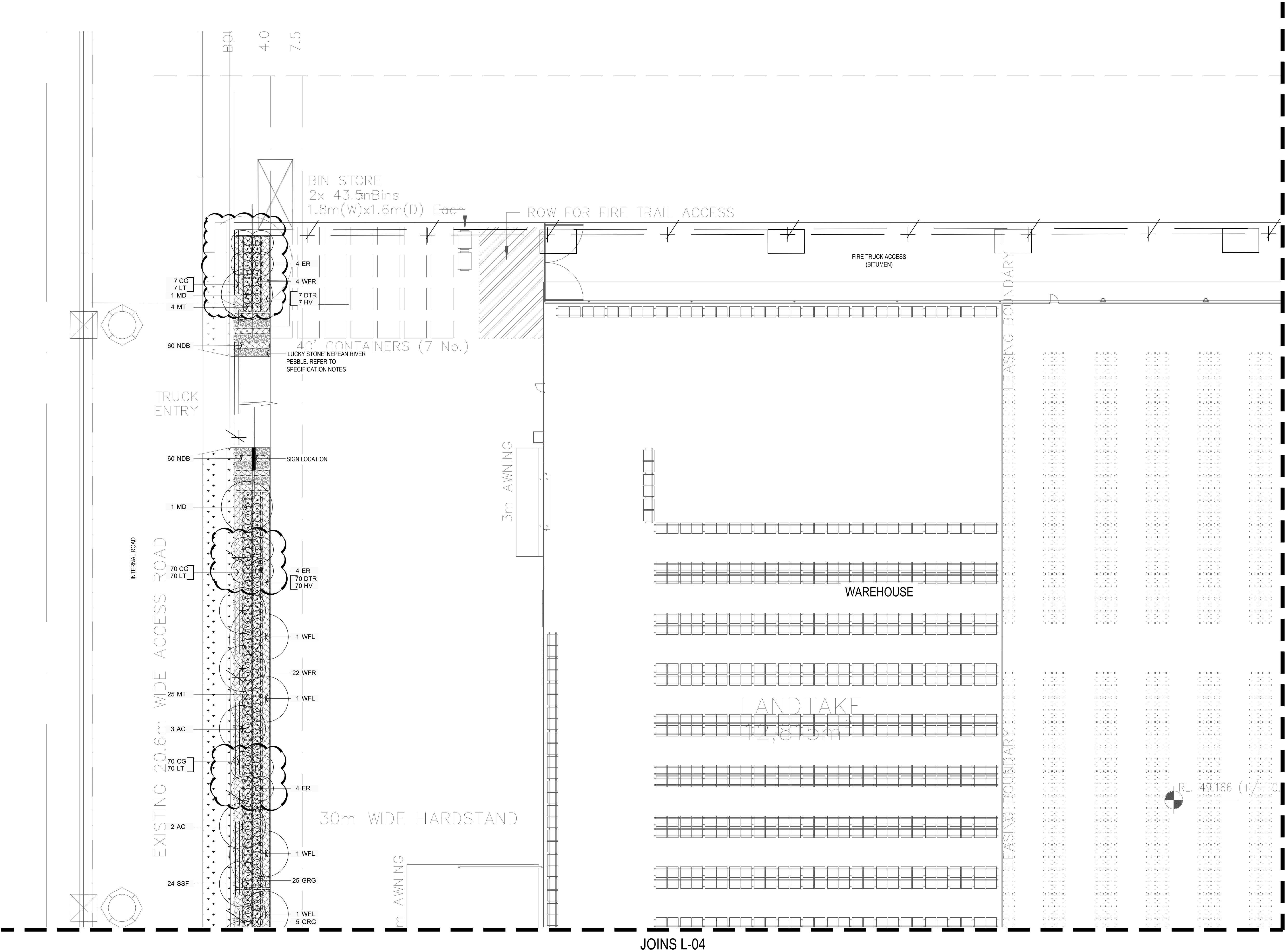
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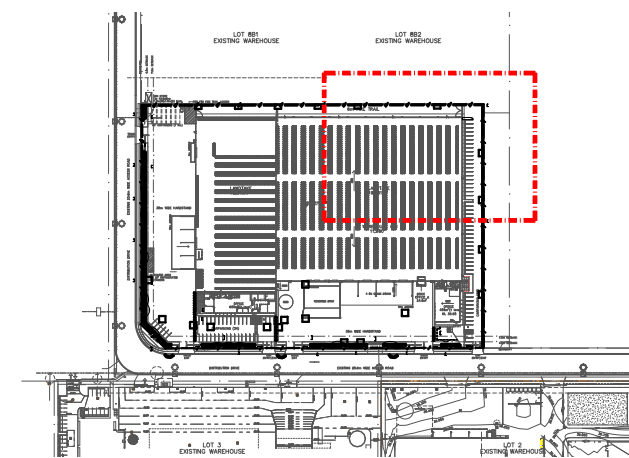
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JOINS L-03

JOINS L-04

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Detail Landscape Plan 02



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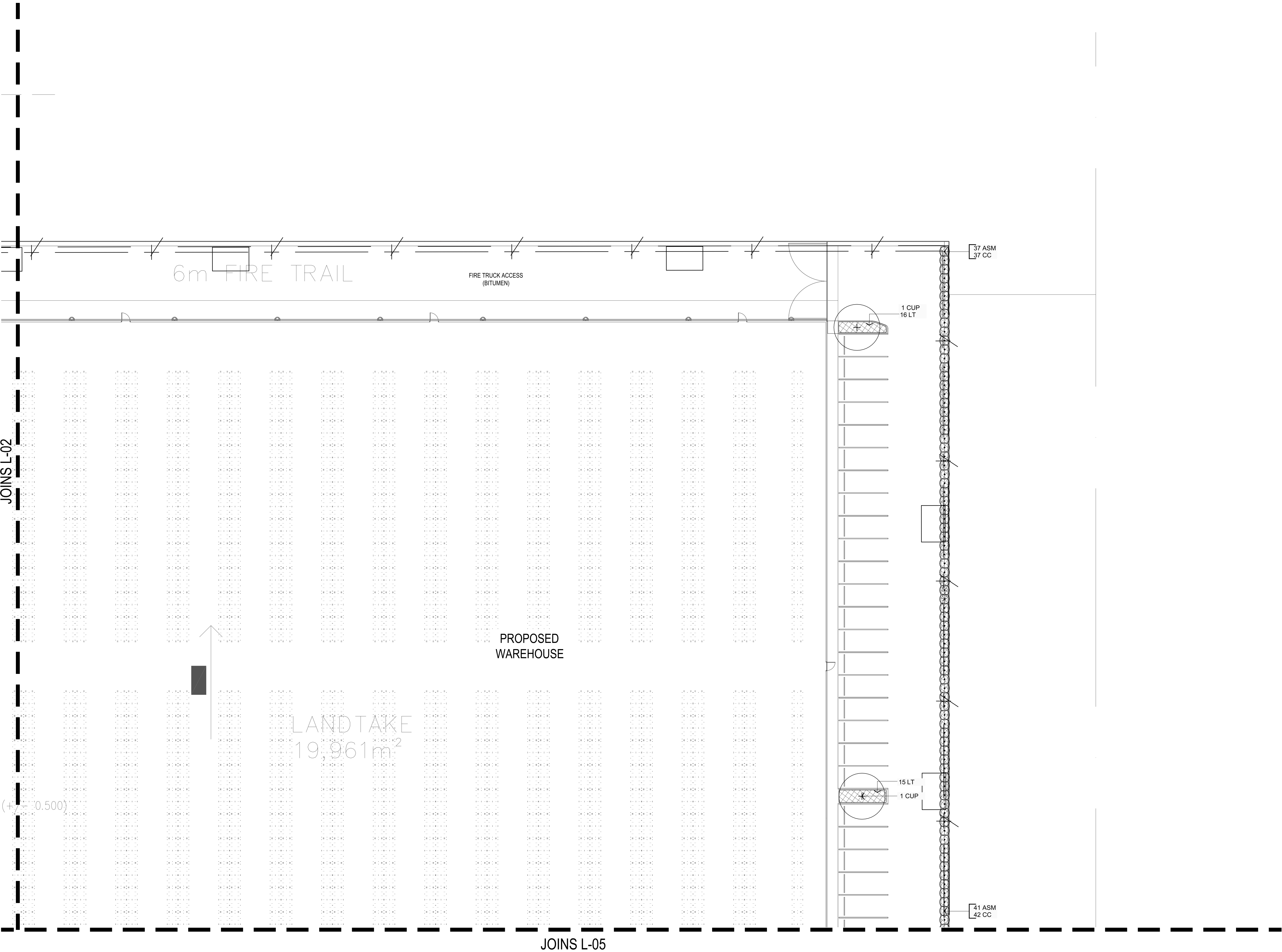
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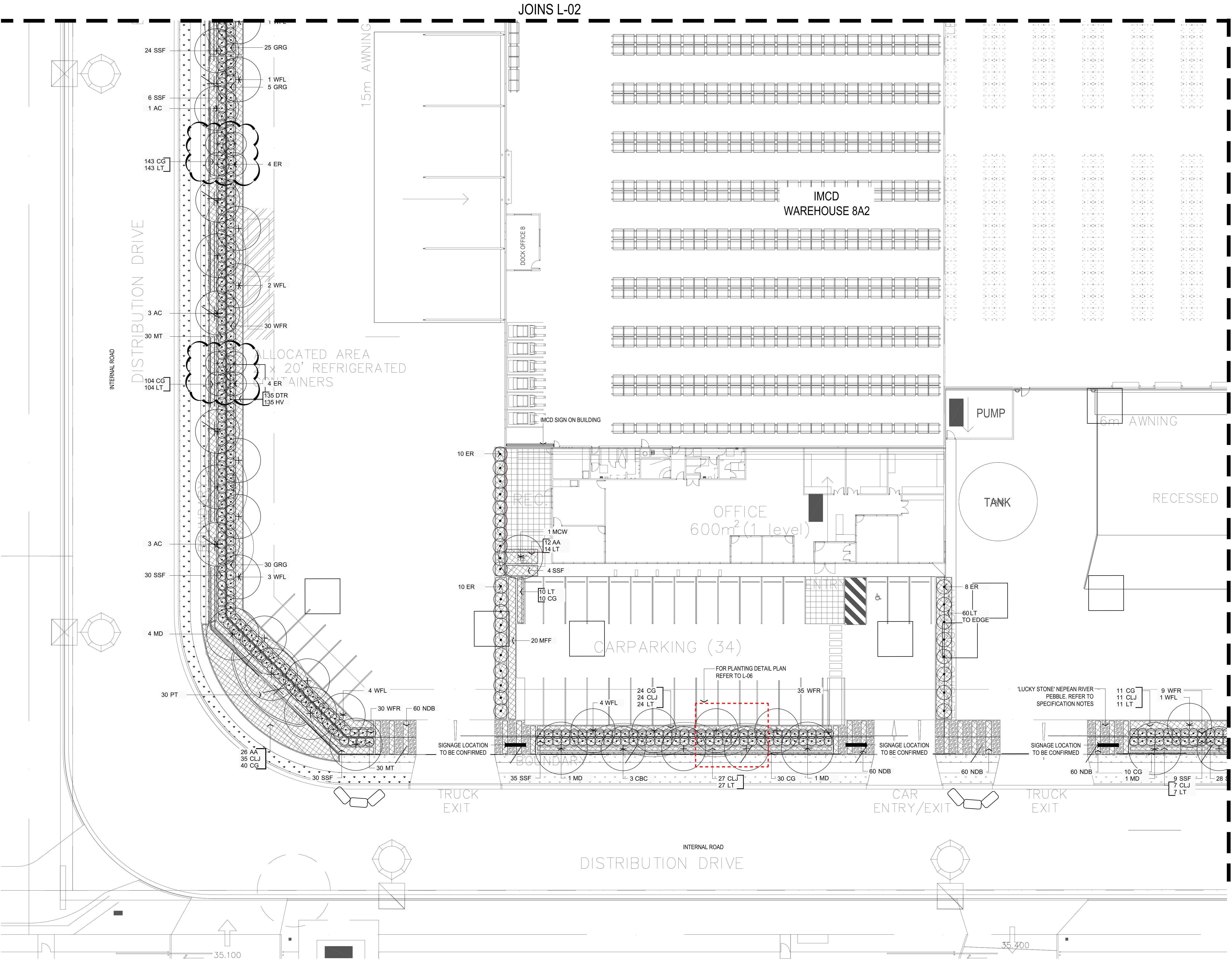


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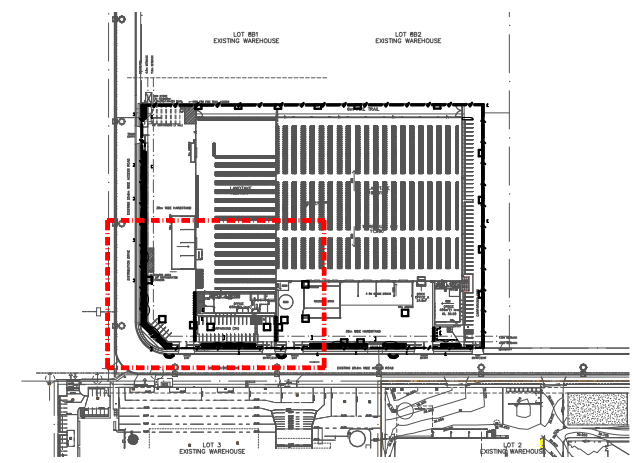
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Detail Landscape Plan 03

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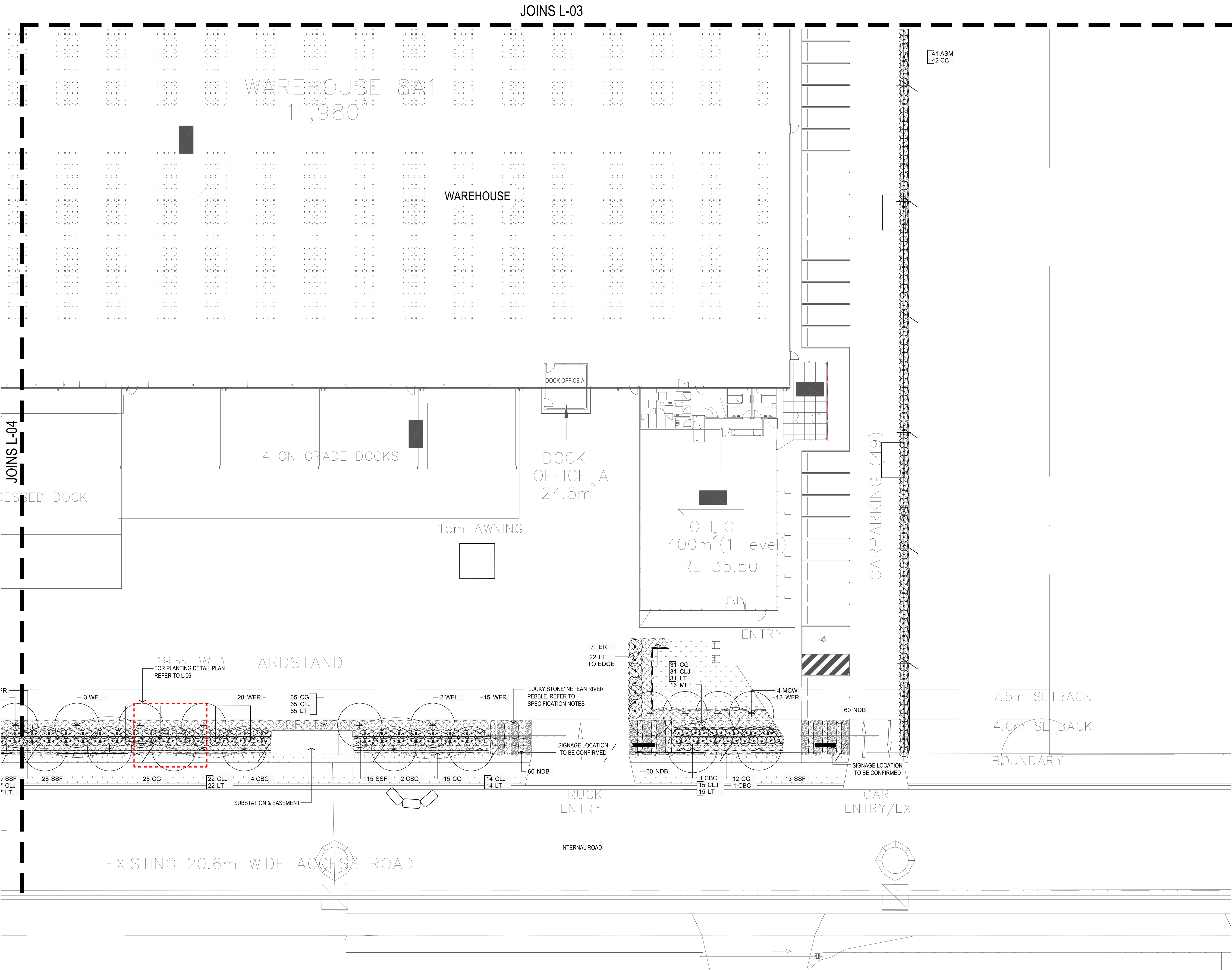
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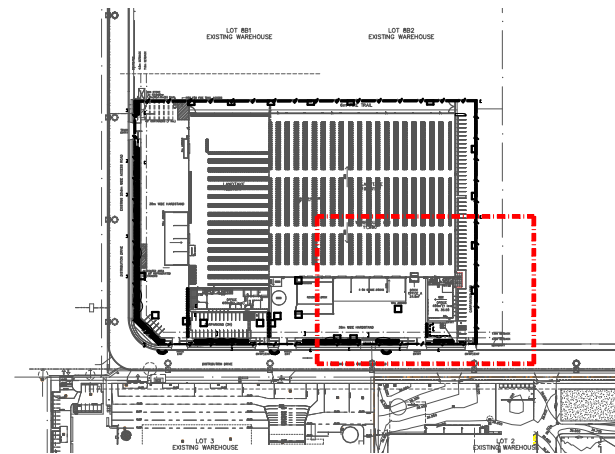
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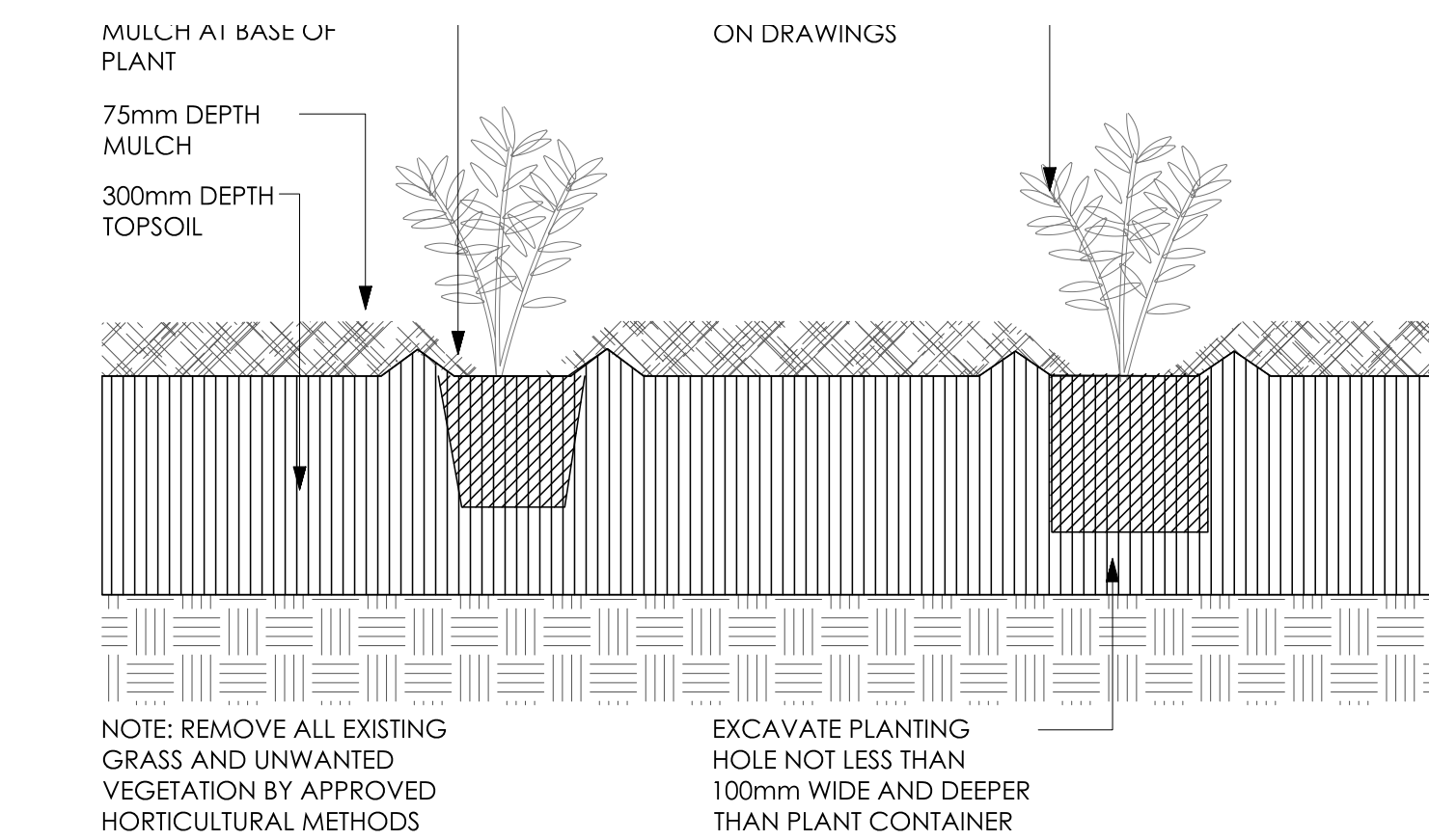
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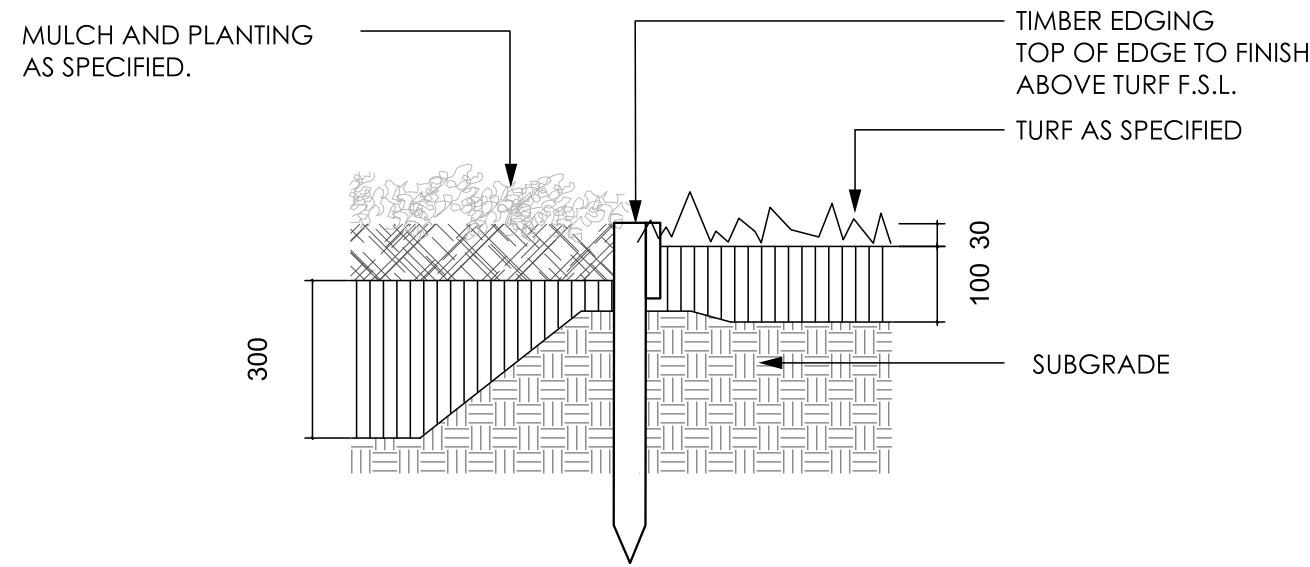
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01 MASS PLANTING

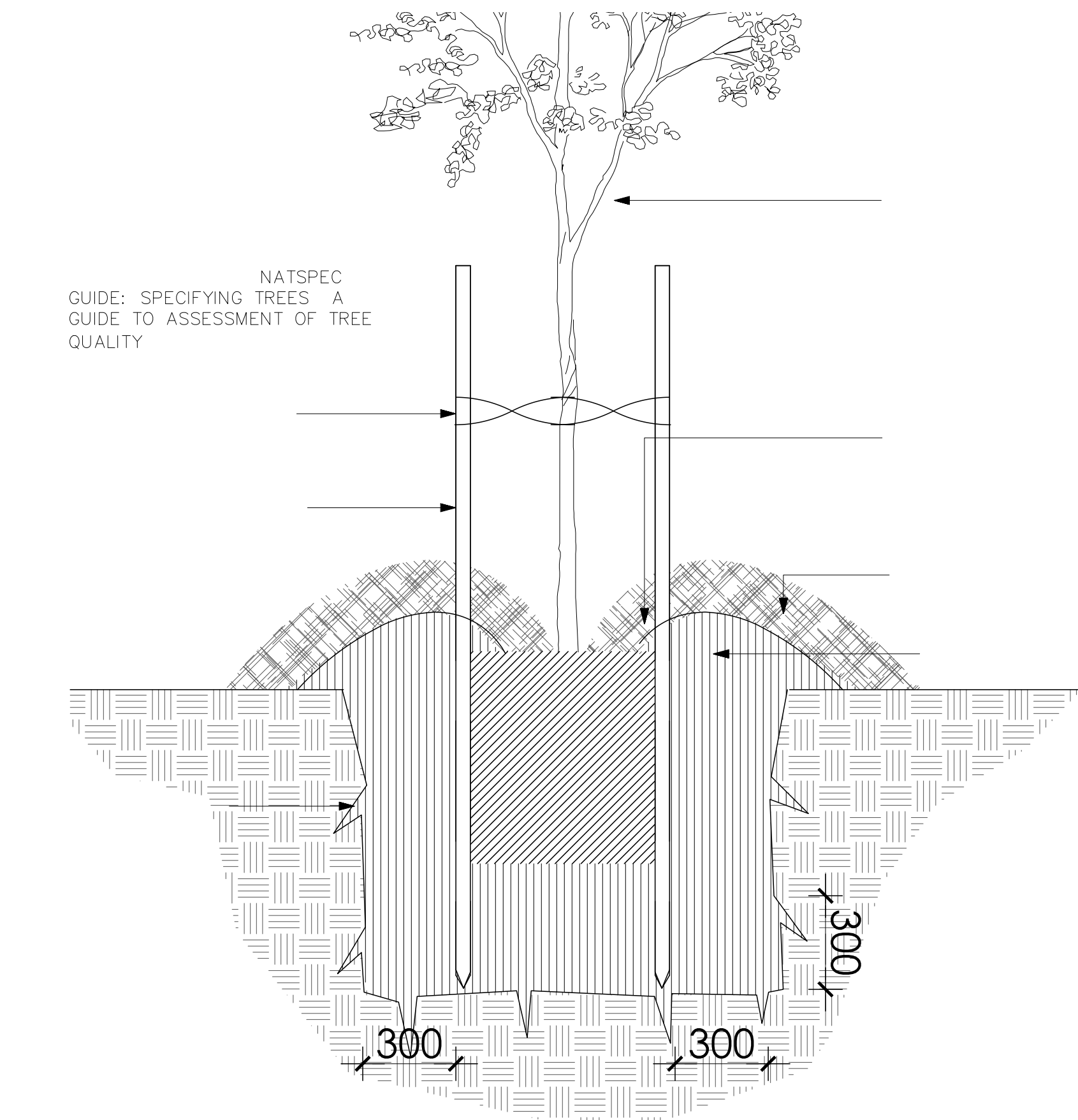
SCALE 1:10

TIMBER SIZING:
STAKES: 42x42x450mm LONG AT 1.5m CENTRES,
LONGITUDINAL EDGE: 100x19mm, FIX TO STAKES WITH 2No.
40mm GAL. NAILS.
JOINER(OVERLAP LONGITUDINAL EDGE MIN 400mm):
75x19x450mm LONG, LOCATE JOINER BETWEEN STAKE
AND LONGITUDINAL EDGE
ALL TIMBER TO BE CCA TREATED WITH GRADE SUITABLE
FOR EXTERNAL IN-GROUND CONTACT.



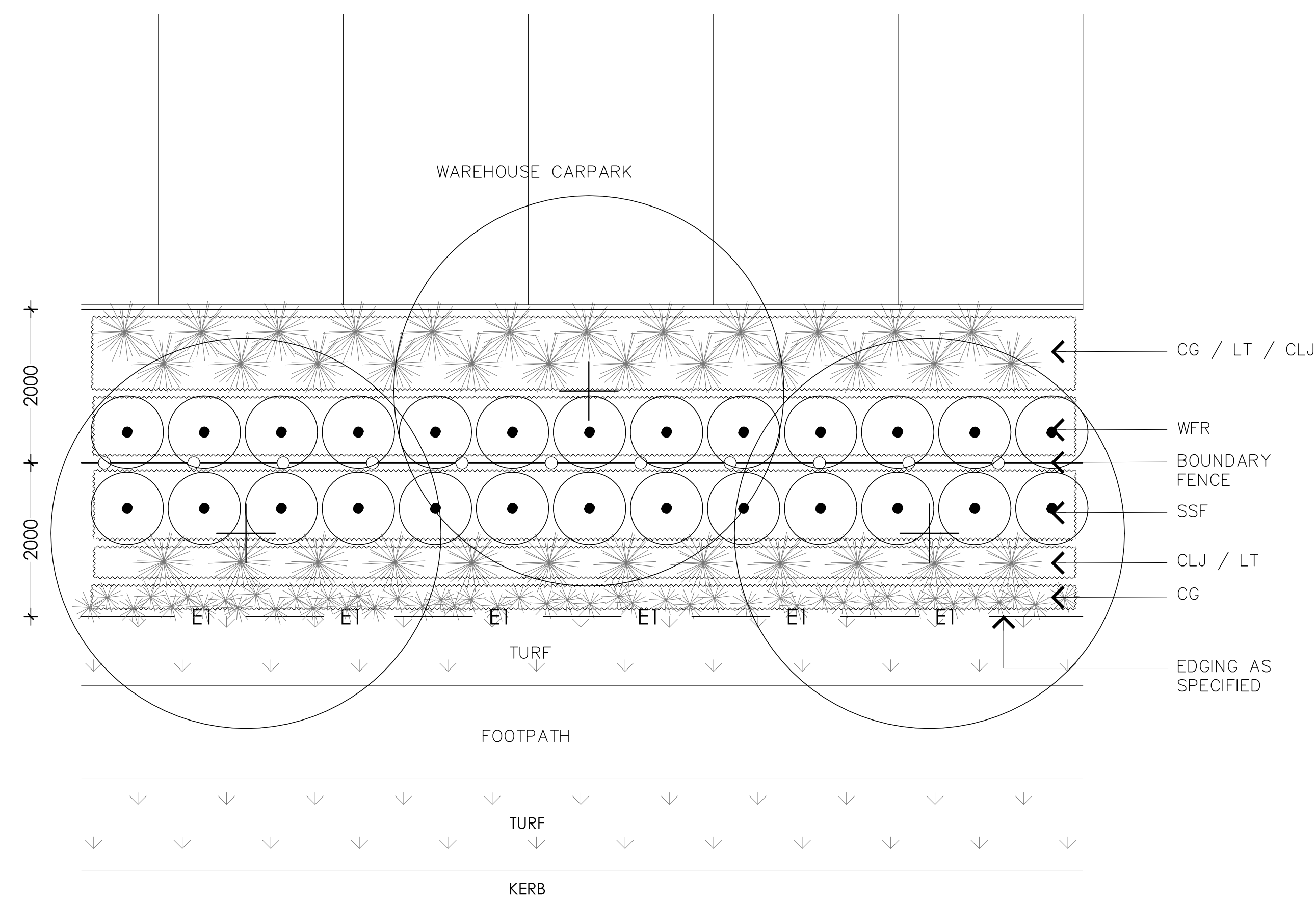
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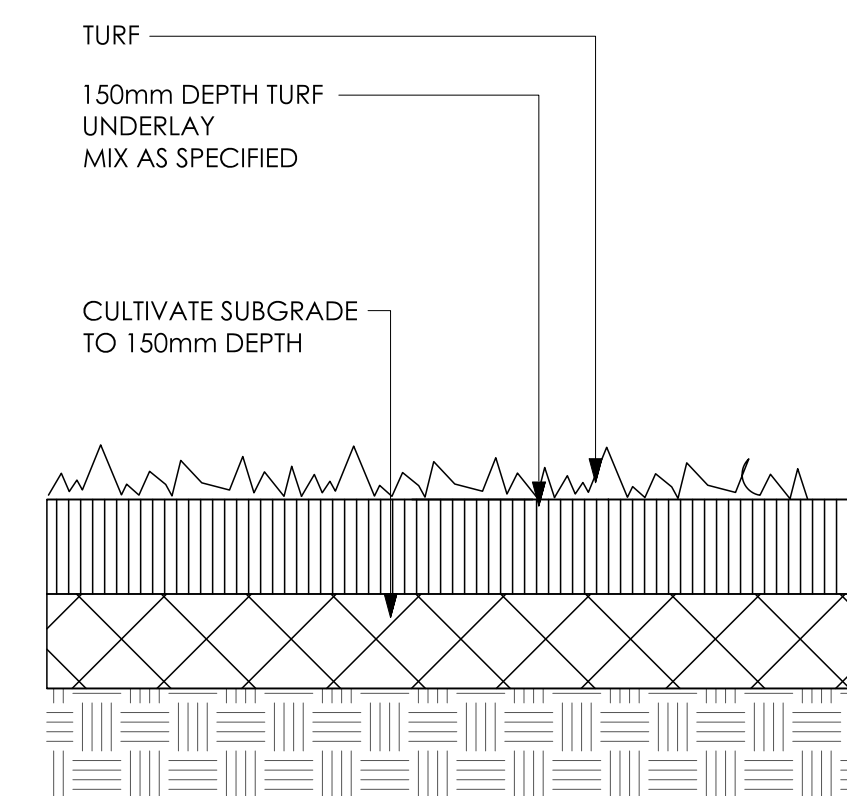
03 TREE IN NATURAL GROUND 75 L

TYPICAL NTS



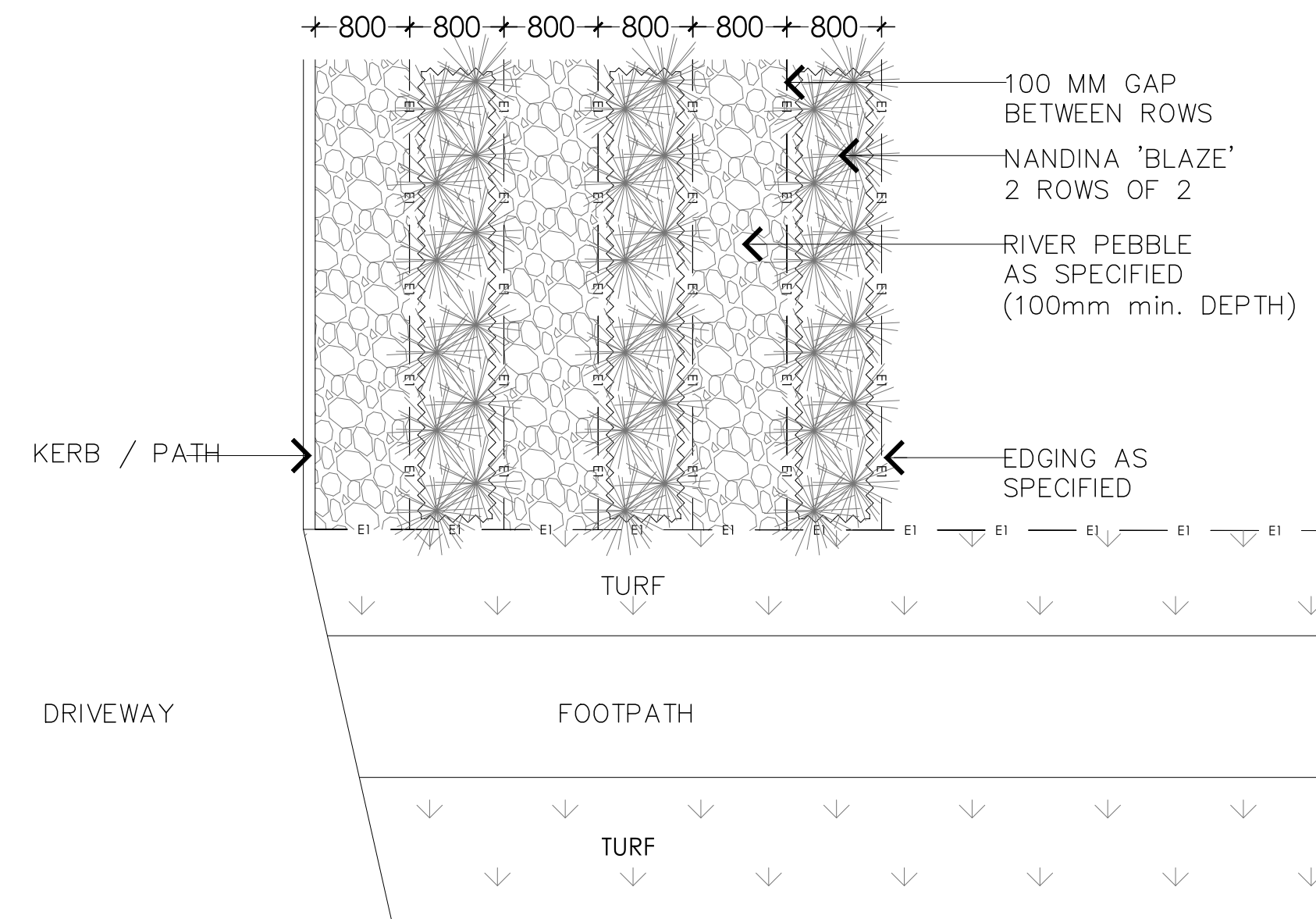
05 FRONT SET BACK DETAIL PLAN

SCALE 1:50



04 TYPICAL TURF DETAIL

SCALE 1:10



06 DRIVEWAY TYPICAL FEATURE PLANTING DETAIL PLAN

SCALE 1:50

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