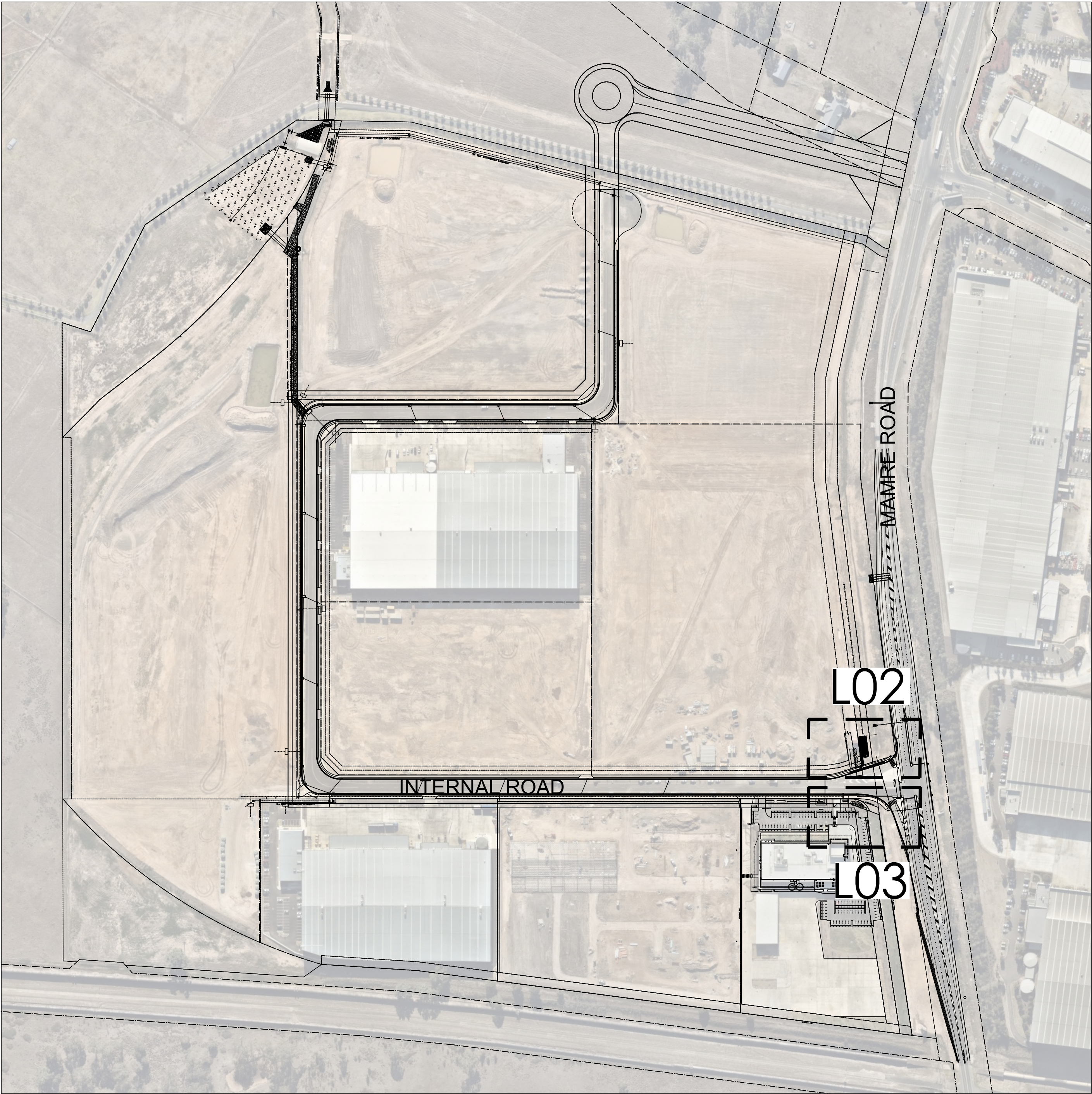


# FIRST ESTATE MAMRE ROAD, ORCHARD HILLS

## ESTATE ENTRY DOCUMENTATION

ISSUE	DATE	PURPOSE
A	15.05.2018	CLIENT APPROVAL
B	18.07.2018	CLIENT APPROVAL
C	25.07.2018	FOR TENDER
D	08.08.2018	CLIENT APPROVAL
E	02.10.2018	TENDER ISSUE



### DRAWING REGISTER

- L-00 COVERSHEET
- L-01 SPECIFICATION NOTES
- L-02 LANDSCAPE PLAN (NORTH)
- L-03 LANDSCAPE PLAN (SOUTH)
- L-04 LANDSCAPE SECTION (NORTH)
- L-05 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.

### PLANT SCHEDULE

TREES - CONTACT DARREN (MOB: 0418 811 142)

CODE	BOTANICAL NAME	MIN HEIGHT & SPREAD	MIN POT SIZE	STAKES	QTY
FMC	FICUS microphylla "Coves"	3500 x 1600mm	EX- GROUND	2No. Refer Detail	9

#### SHRUBS

CODE	BOTANICAL NAME	DENSITY	MIN POT SIZE	QTY
CLJ	CALLISTEMON 'Little John'	4/m2	200mm	90
CRS	CORDYLINE 'Red Sensation'	2/m2	300mm	30
NDB	NANDINA 'Blush'	2/m2	300mm	35

#### GROUNDCOVERS

CODE	BOTANICAL NAME	DENSITY	MIN POT SIZE	QTY
SS	SEDUM spurius	4/m2	200mm	168

NOTE:  
\_PLANT SUPPLY BY HABIT8. CONTRACTOR TO PRICE INSTALLATION ONLY AS INDICATED  
\_CONTACT HABIT8 ON 029360 7771 TO CO-ORDINATE PLANT DELIVERY

### LEGEND

- EXISTING PROPERTY BOUNDARY
- PLANTING AREA  
Refer to Detail
- TURF AREA  
Refer Notes & Details
- STEEL EDGING  
Refer to Detail
- TREES AS SPECIFIED  
Refer Plant Schedule, Notes & Details
- 1200 DEPTH CENTURION ROOT BARRIER
- NEW BOUNDARY + FENCE

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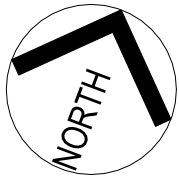
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CLIENT

PROJECT  
FIRST ESTATE ENTRY WALL

MAMRE ROAD, ORCHARD HILLS

DRAWING TITLE  
COVERSHEET



SCALE  
AS SHOWN

DRAWN	CHECKED
DU	DV

PROJECT NO.	DRAWING NO.	REVISION
18-0085L	L-01	E

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DRAWING LAYOUT PLAN  
N.T.S.



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.

TOPSOIL  
Where possible existing topsoil in landscape areas is to be used if it can meet performance standards. Existing topsoil is to be tested by SESL Australia (1 300 30 40 80) or similar. Existing topsoil may be reused if it meets the performance standards set forth in AS 4419 and is free from: Stones >25mm diameter; Clay lumps >75mm diameter;weeds and tree roots; sticks and rubbish; material toxic to plants. If existing topsoil does not meet performance standards, contractors are to allow for reconditioning of existing topsoil to meet the performance standards or import new topsoil that meets AS 4419 requirements and meets Planting Mixture specifications.  
Top soil to be laid at 300mm depth for garden beds and 150mm for turf areas.

PLANTING MIXTURE -  
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.

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

ROOT BARRIER  
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  
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: Greenlees Park Couch

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  
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.

IRRIGATION NOTES

IRRIGATION OVERVIEW - Confirm with irrigation contractor at tender stage

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  
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 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.

DEFECTS LIABILITY PERIOD  
The irrigation system shall be subject to a 12month defects and liability period.

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.

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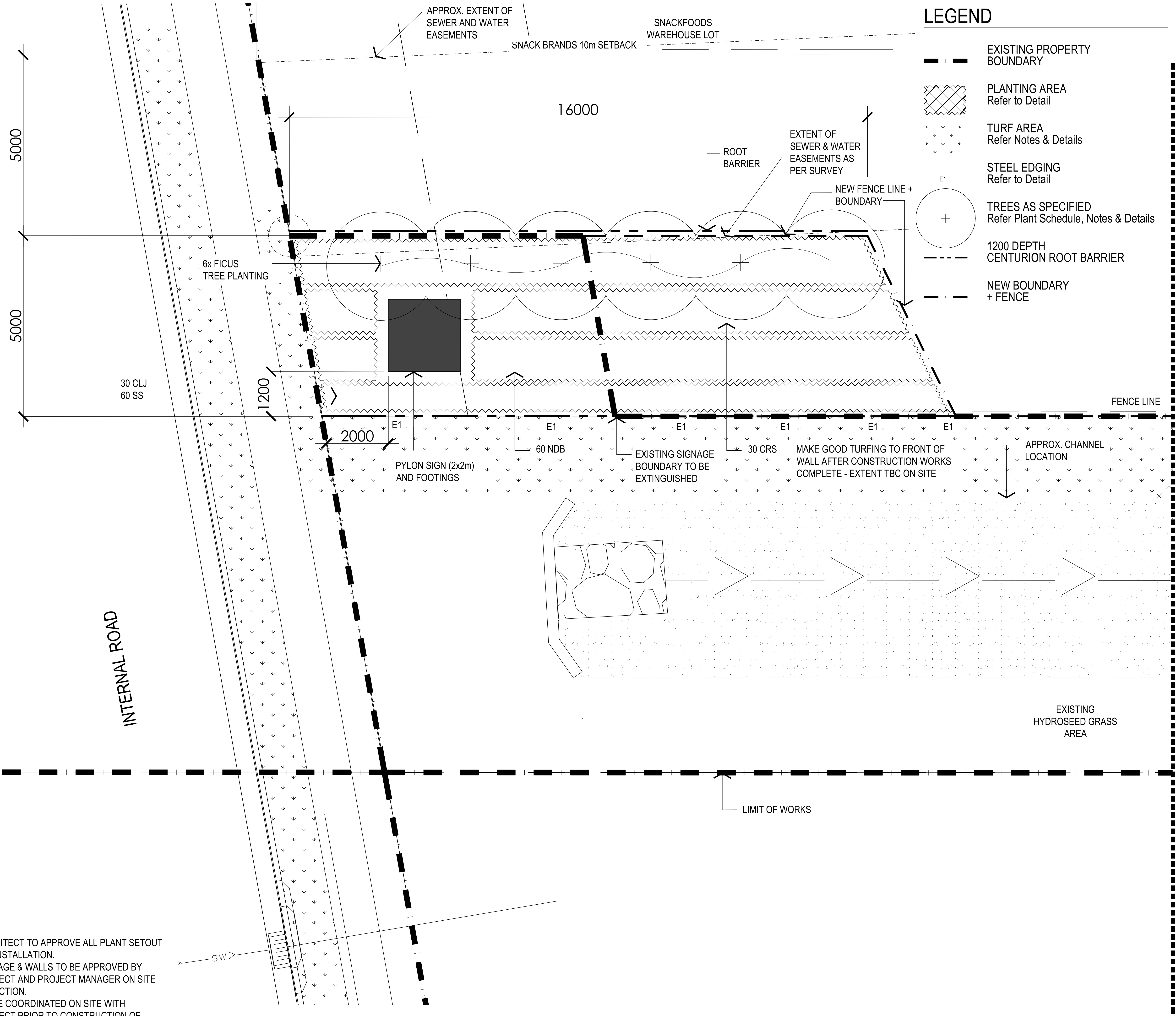
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CLIENT		
PROJECT		
FIRST ESTATE ENTRY WALL		
MAMRE ROAD, ORCHARD HILLS		
DRAWING TITLE		
SPECIFICATION NOTES		
SCALE		
AS SHOWN		
DRAWN IB	CHECKED DV	
PROJECT NO.	DRAWING NO.	REVISION
18-0085L	L-01	E

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NOTES:  
1. LANDSCAPE ARCHITECT TO APPROVE ALL PLANT SETOUT ON SITE PRIOR TO INSTALLATION.  
2. SET OUT OF SIGNAGE & WALLS TO BE APPROVED BY LANDSCAPE ARCHITECT AND PROJECT MANAGER ON SITE PRIOR TO CONSTRUCTION.  
3. LEVELS ARE TO BE COORDINATED ON SITE WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION OF MOUND.

LEGEND

- EXISTING PROPERTY BOUNDARY
- PLANTING AREA  
Refer to Detail
- TURF AREA  
Refer Notes & Details
- STEEL EDGING  
Refer to Detail
- TREES AS SPECIFIED  
Refer Plant Schedule, Notes & Details
- 1200 DEPTH CENTURION ROOT BARRIER
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FIRST ESTATE ENTRY WALL

MAMRE ROAD, ORCHARD HILLS

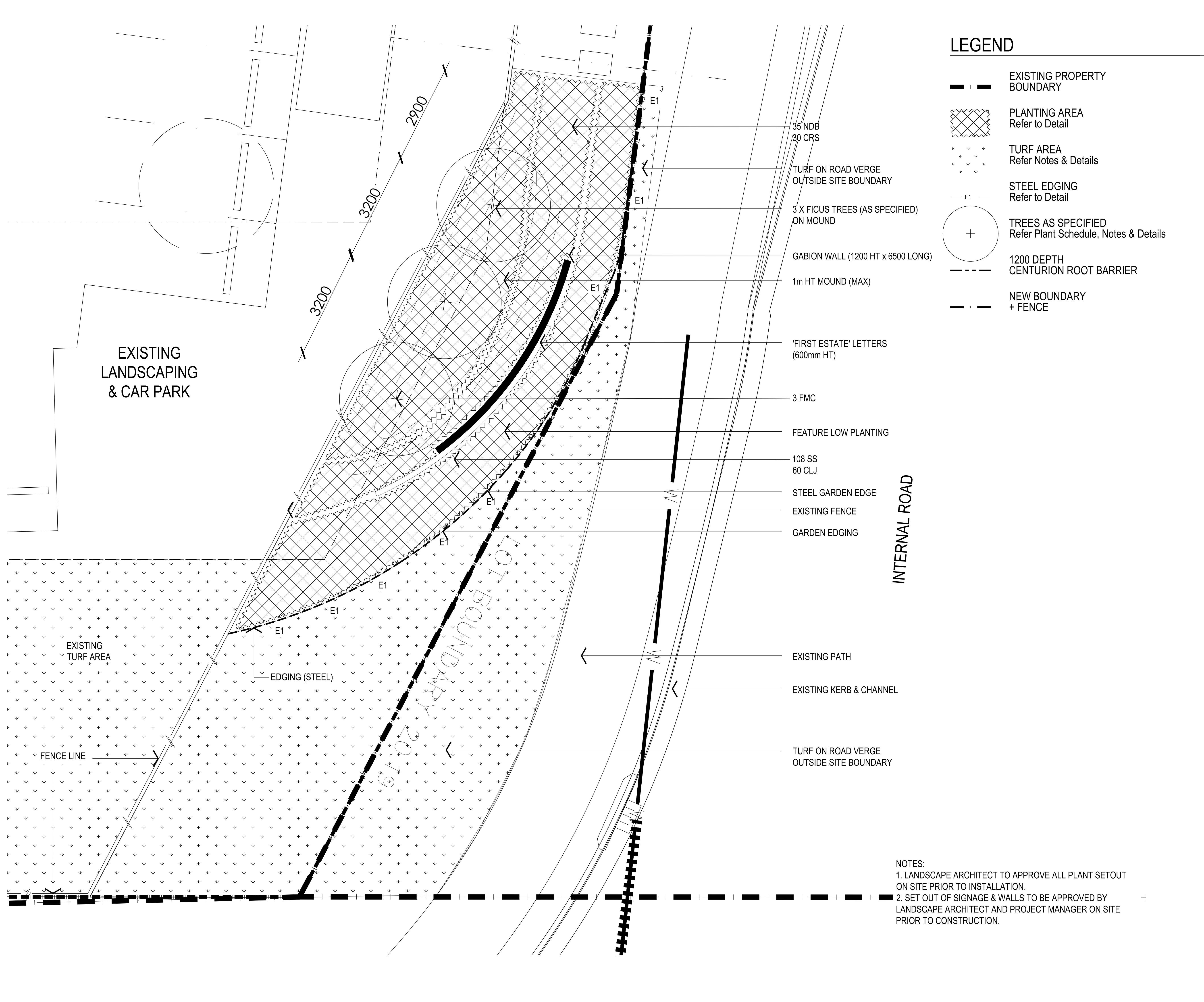
DRAWING TITLE  
LANDSCAPE PLAN  
(NORTHERN ENTRY FEATURE)

SCALE  
1:50 @ A1 / 1:100 @ A3

DRAWN  
IB  
CHECKED  
DV

PROJECT NO.  
18-0085L  
DRAWING NO.  
L-02  
REVISION  
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CLIENT		
PROJECT FIRST ESTATE ENTRY WALL MAMRE ROAD, ORCHARD HILLS		
DRAWING TITLE LANDSCAPE PLAN & PLANTING PLAN (SOUTHERN ENTRY FEATURE)		
SCALE 1:100 @ A3		
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PROJECT NO. 18-0085L	DRAWING NO. L-03	REVISION E

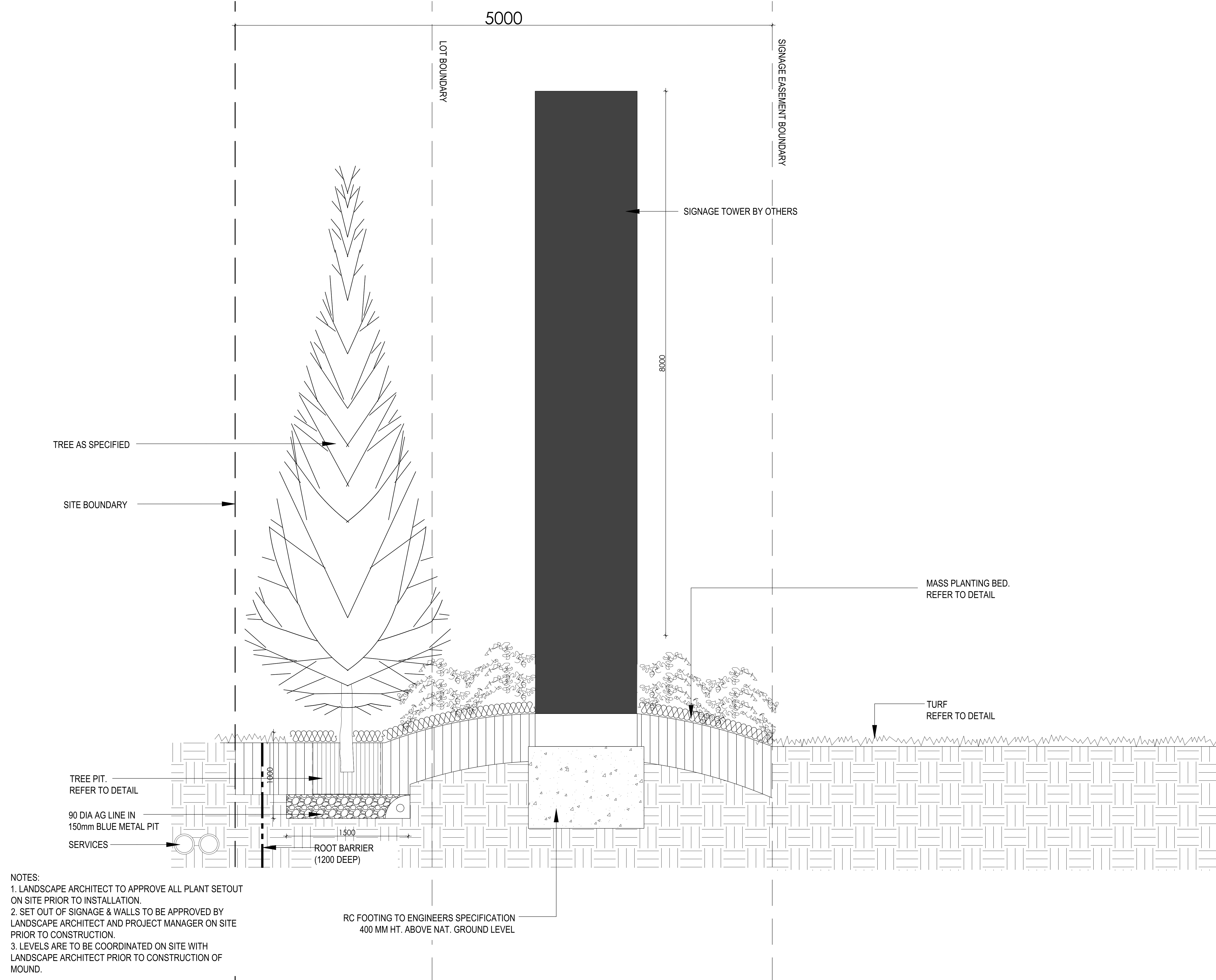


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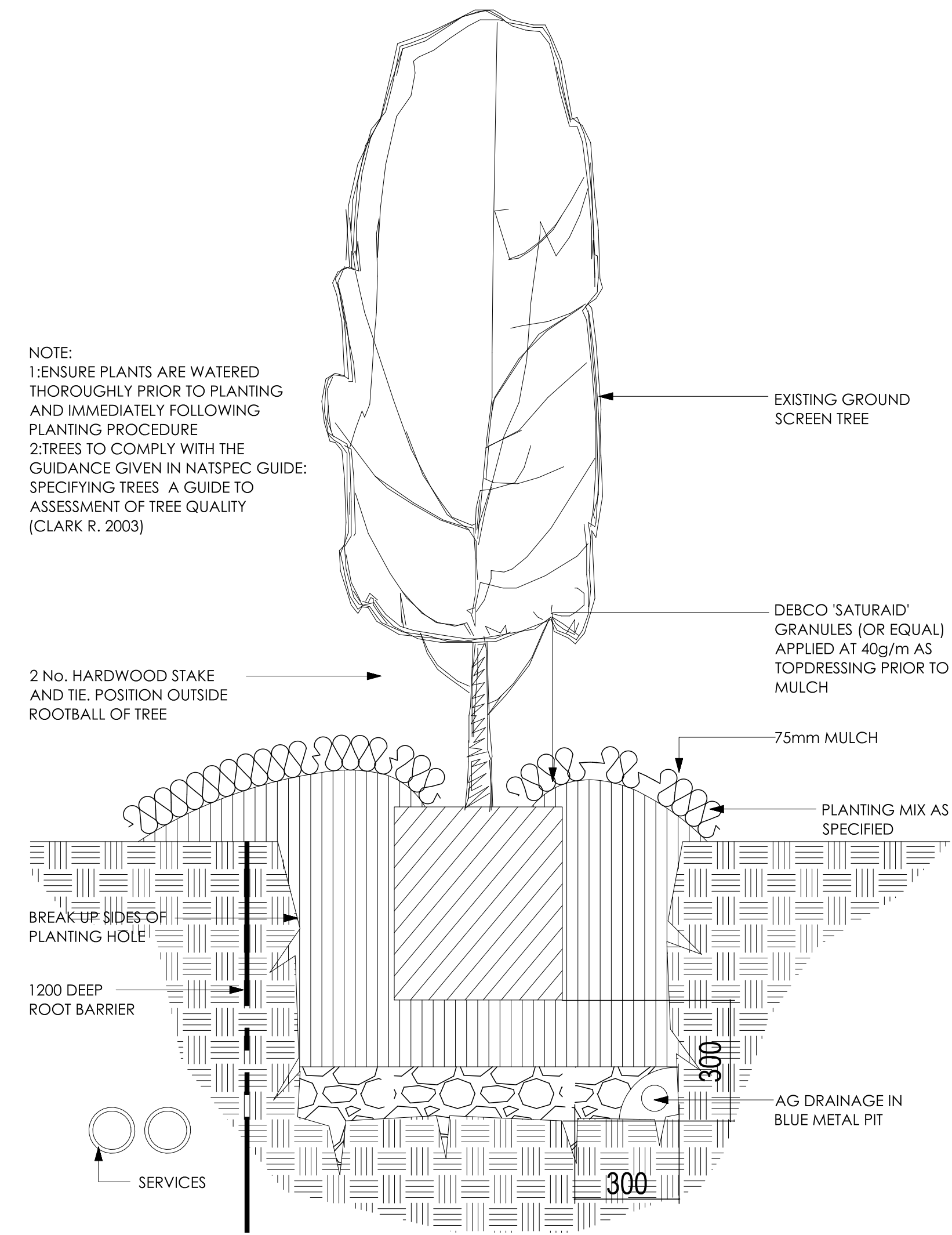
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PROJECT		
FIRST ESTATE ENTRY WALL		
MAMRE ROAD, ORCHARD HILLS		
DRAWING TITLE		
LANDSCAPE SECTION		
(NORTHERN ENRTY FETURE MOUND & WALL)		
SCALE		
1:25 @ A1 / 1:50 @ A3		
DRAWN	CHECKED	
IB	DV	
PROJECT NO.	DRAWING NO.	REVISION
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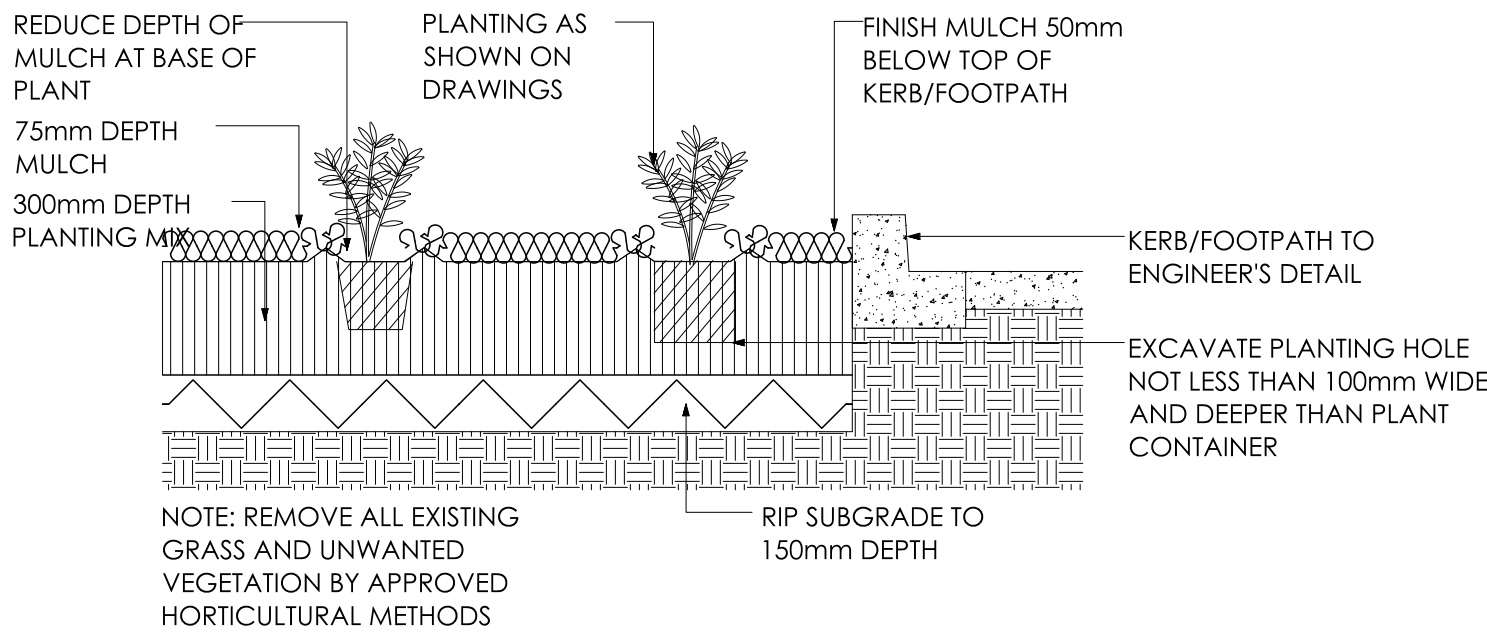
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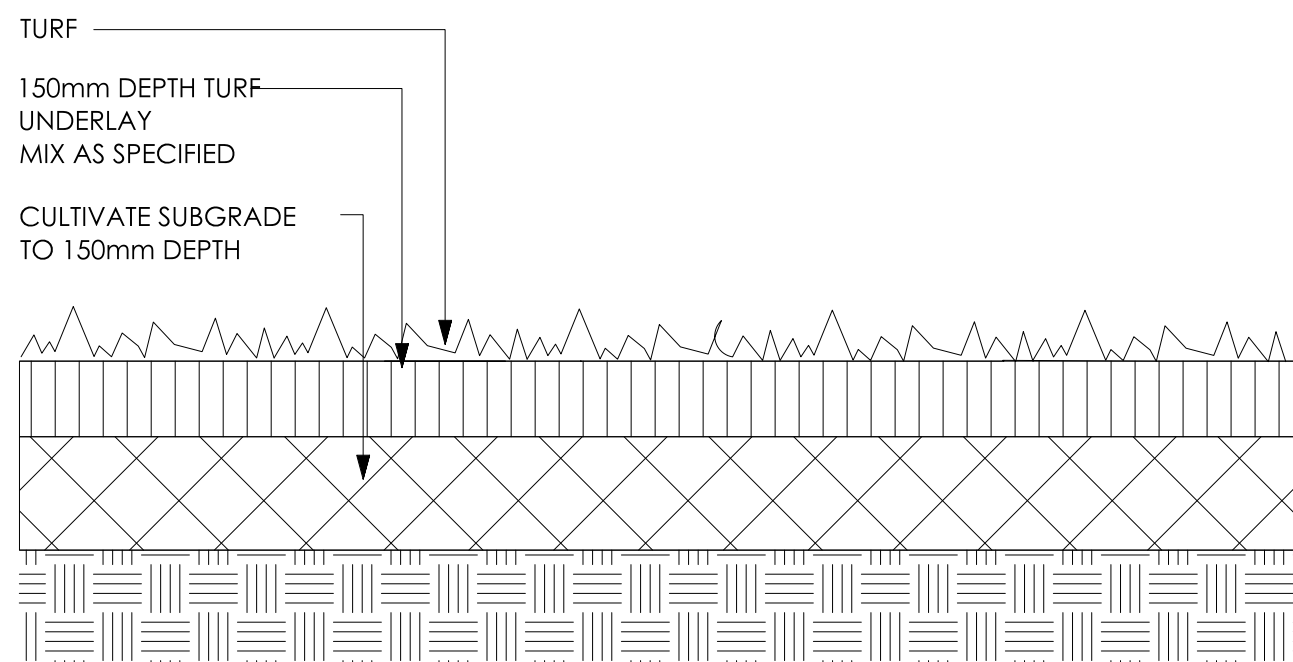




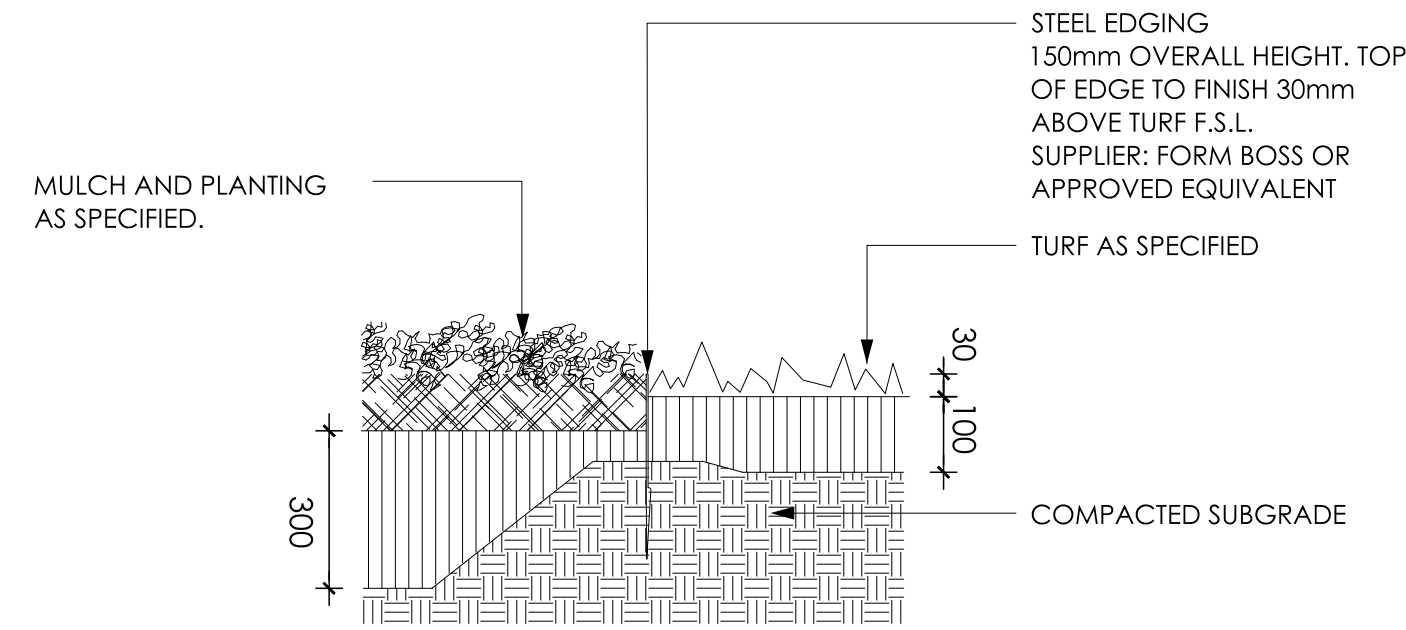
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SCALE 1:10



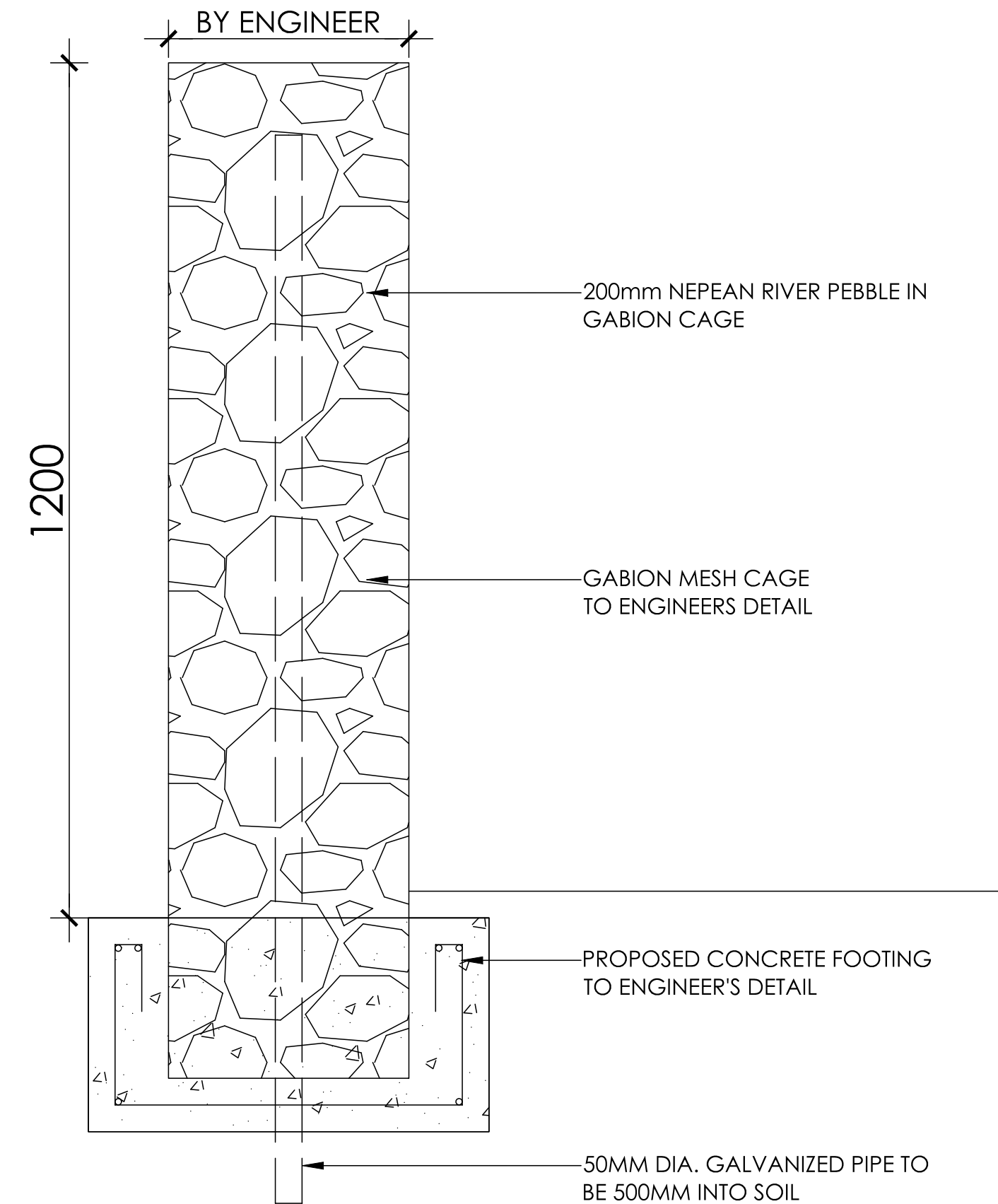
02 TYPICAL PLANTING DETAIL  
SCALE 1:20



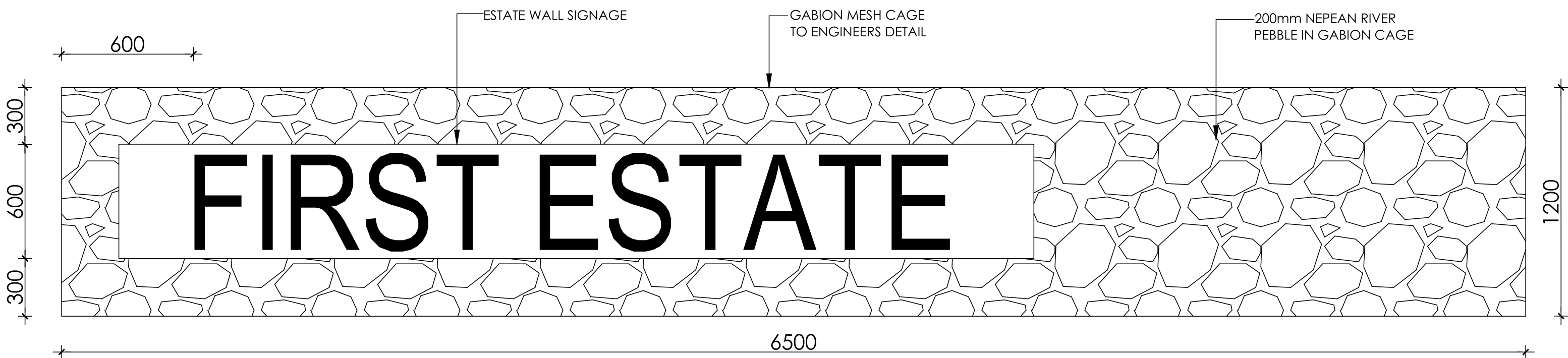
03 TYPICAL TURF DETAIL  
SCALE 1:10



04 STEEL EDGE  
SCALE 1:10



05 GABION WALL  
SECTION 1:10



06 GABION WALL ELEVATION  
SCALE 1:20

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CLIENT

PROJECT  
FIRST ESTATE ENTRY WALL

MAMRE ROAD, ORCHARD HILLS

DRAWING TITLE  
LANDSCAPE DETAILS

SCALE  
AS SHOWN

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