LAKE MACQUARIE FAIR

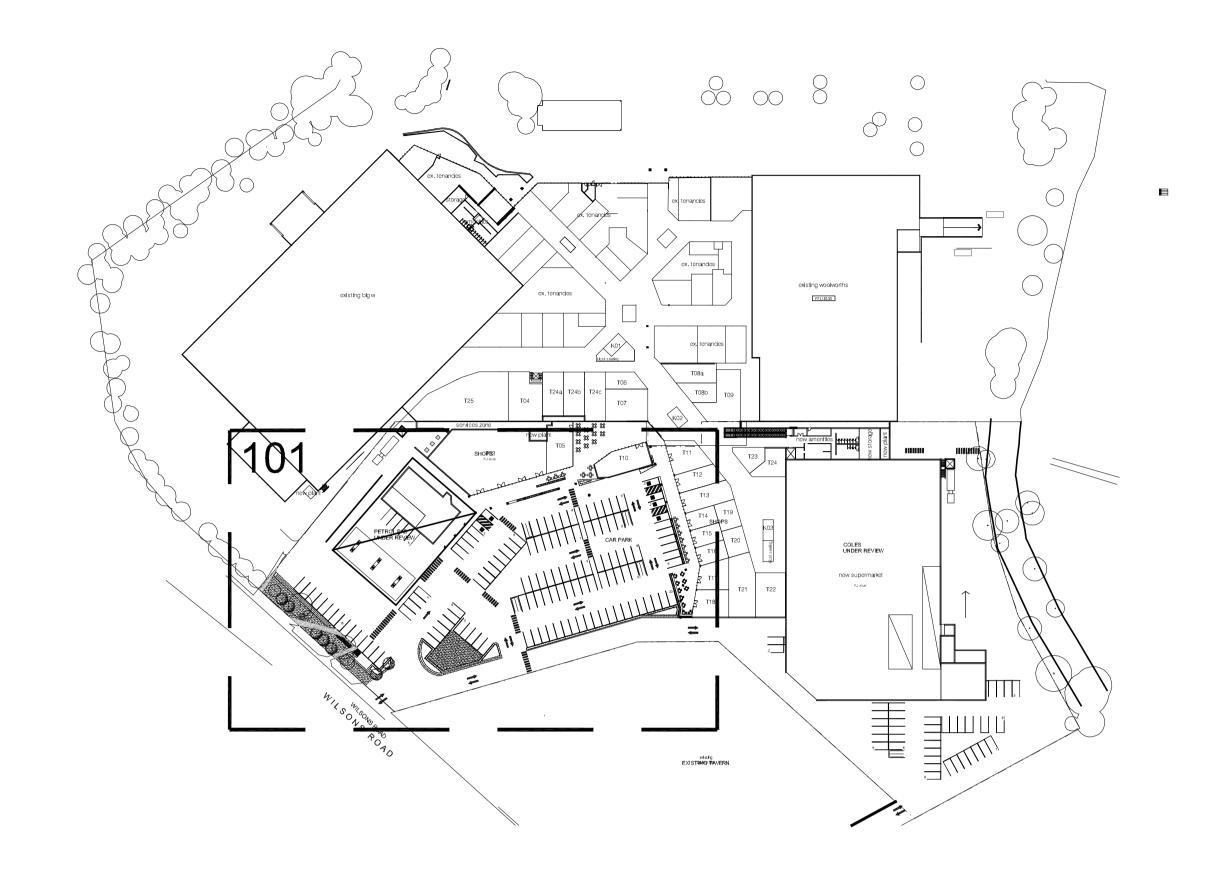
Wilsons Rd, Mt Hutton, NSW

LANDSCAPE

DRAWINGS

DWG NO.	DRAWING TITLE	SCALE
000	COVERSHEET	N/A
101	LANDSCAPE PLAN	1:200
501	LANDSCAPE DETAILS	AS SHOWN

LANI	SCHEDULE					
Symbol	Botanic Name	Common Name	Height x Width	Pot Size	Spacing	Qty
_			(Metres)			
	Trees					
TI	Tristaniopsis laurina 'Luscious'	Water Gum	10 x 8	75L	As Shown	7
	Shrubs / Accents					
AsM	Acmena smithii 'Minor'	Lillypilly	3 x 2	300mm	As Shown	101
De	Doryanthus excelsa	Gymea Lily	2 x 2	300mm	As Shown	21
	Groundcovers/ Grasses					
Cg	Carpobrotus glaucascens	Pig Face	0.2 x 1	150mm	5m2	153
DB	Dianella caerula 'Breeze'	Breeze	0.6 x 0.6	150mm	5m2	171
PN	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail 'Nafray'	0.8 x 0.5	150mm	5m2	299
Tj	Trachleospermum jasminoides	Star Jasmine	0.8 x 0.5	150mm	5m2	410





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The contractor shall check and verify all work on site (including work by others) before commencing the landscape installation. Any discrepancies are to be reported to the Project Manager or Landscape Architect prior to commencing work. Do not scale this drawing. Any required dimensions not shown shall be referred to the Landscape Architect for confirmation.

Architectural Coordination B Landscape Amendments A For Comment

JW NM 19.04.2016 JW NM 07.04.2016 JW NM 05.04.2016 Issue Revision Description Drawn Check Date

LEGEND

Key Plan:

SITE IMAGE Client: Landscape Architects Level 1, 3-5 Baptist Street Redfern NSW 2016 Australia

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Wilsons Rd, Mt Hutton

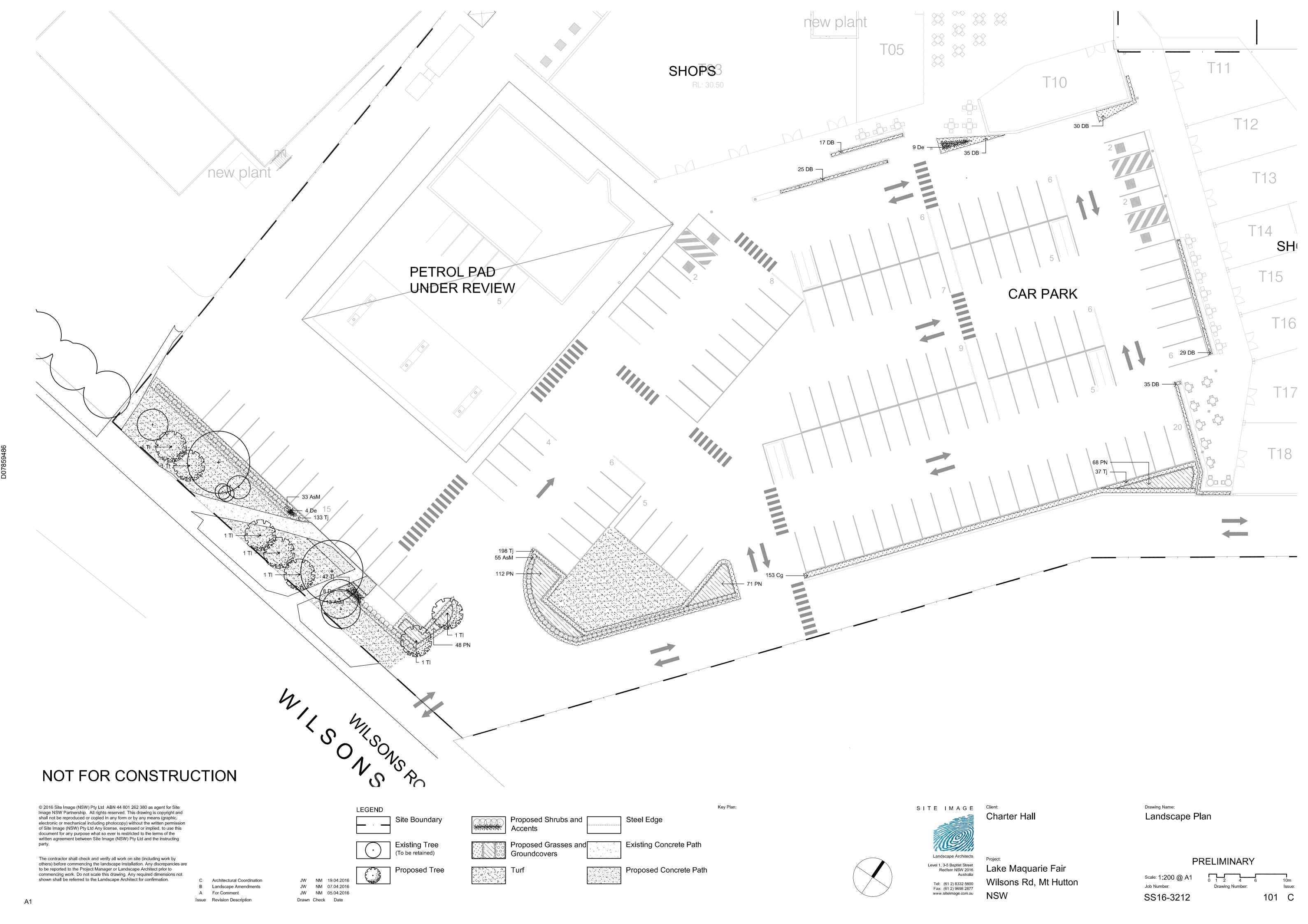
Charter Hall

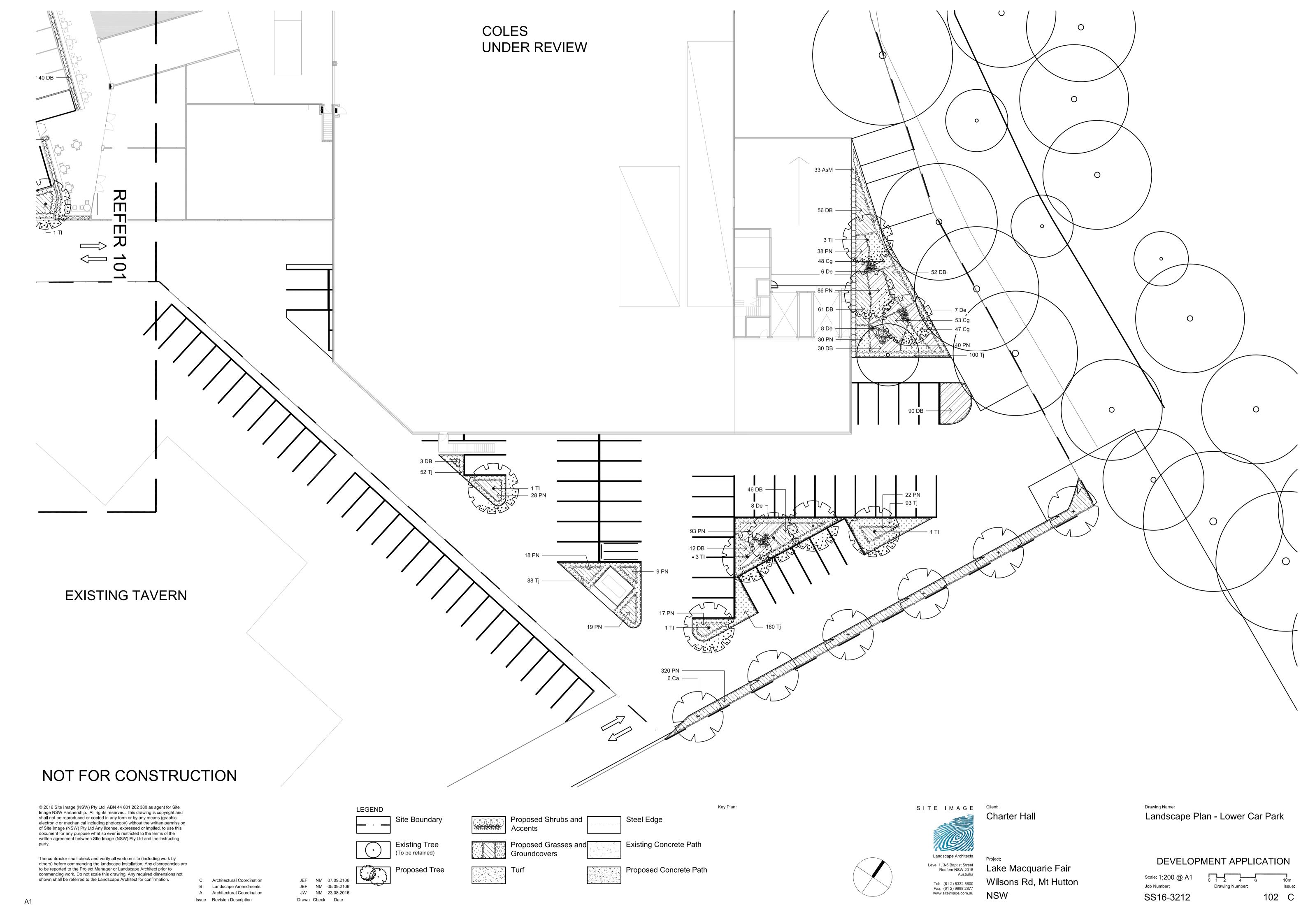
Drawing Name: Coversheet

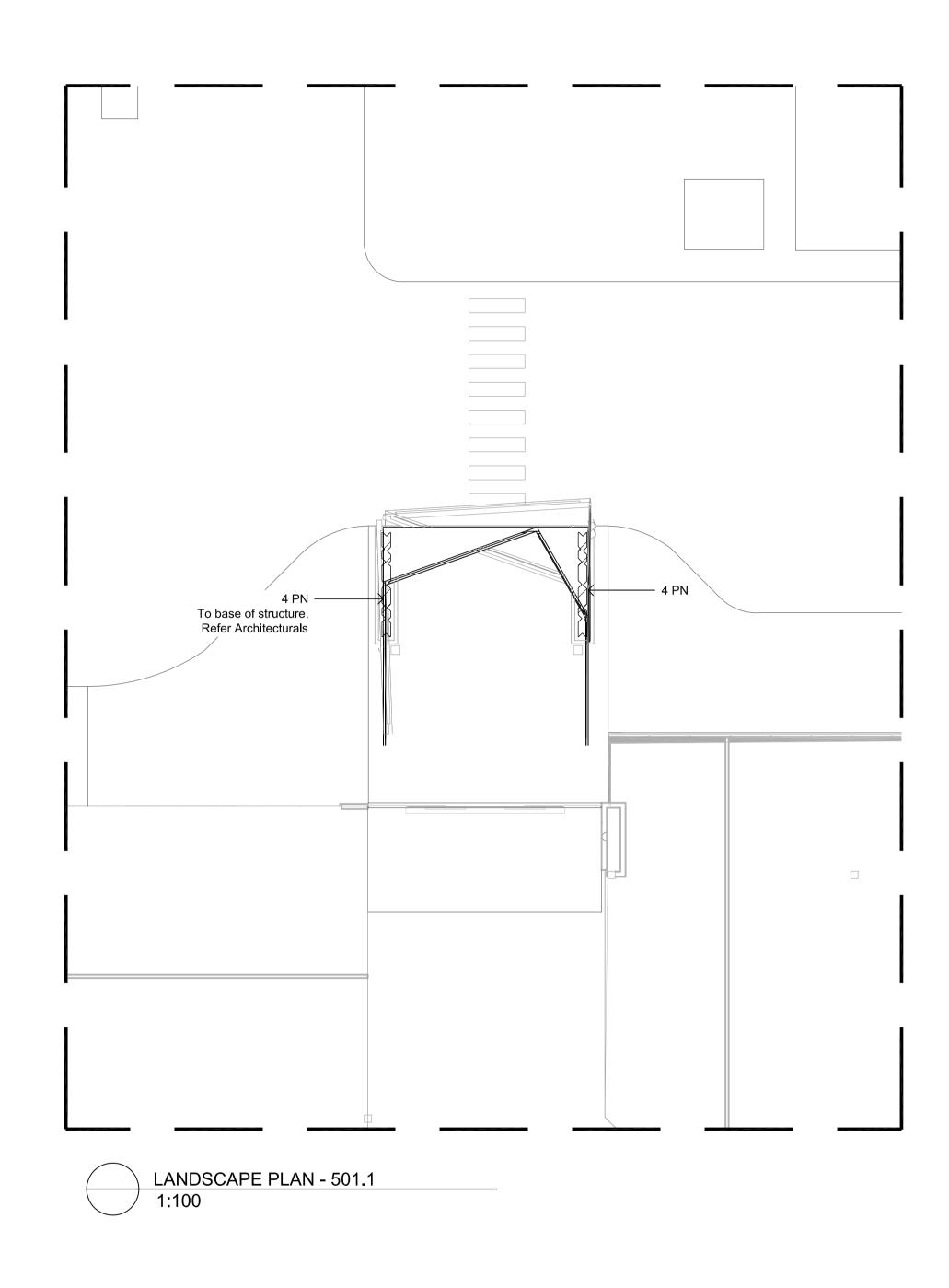
Job Number:

PRELIMINARY

Drawing Number: SS16-3212 000 C







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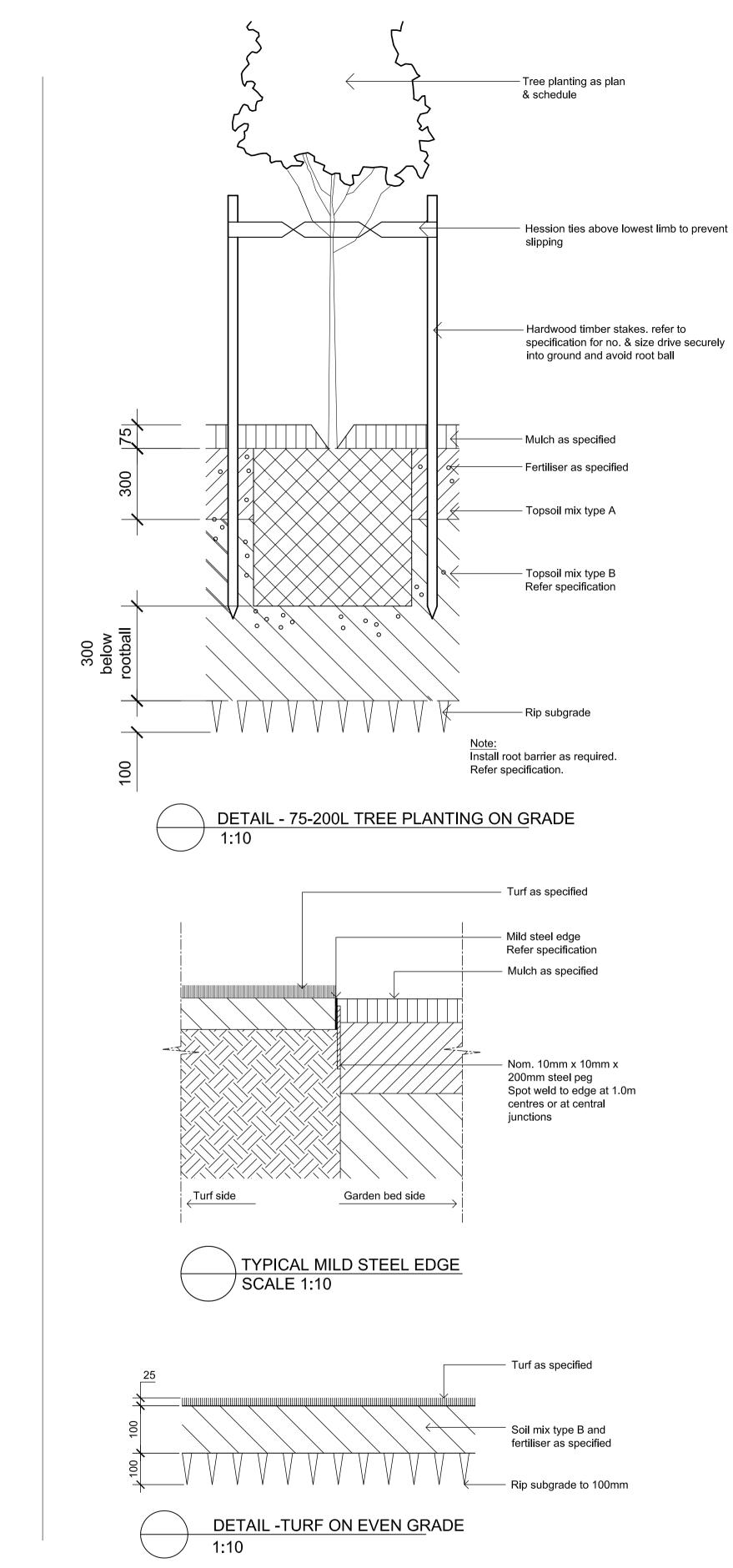
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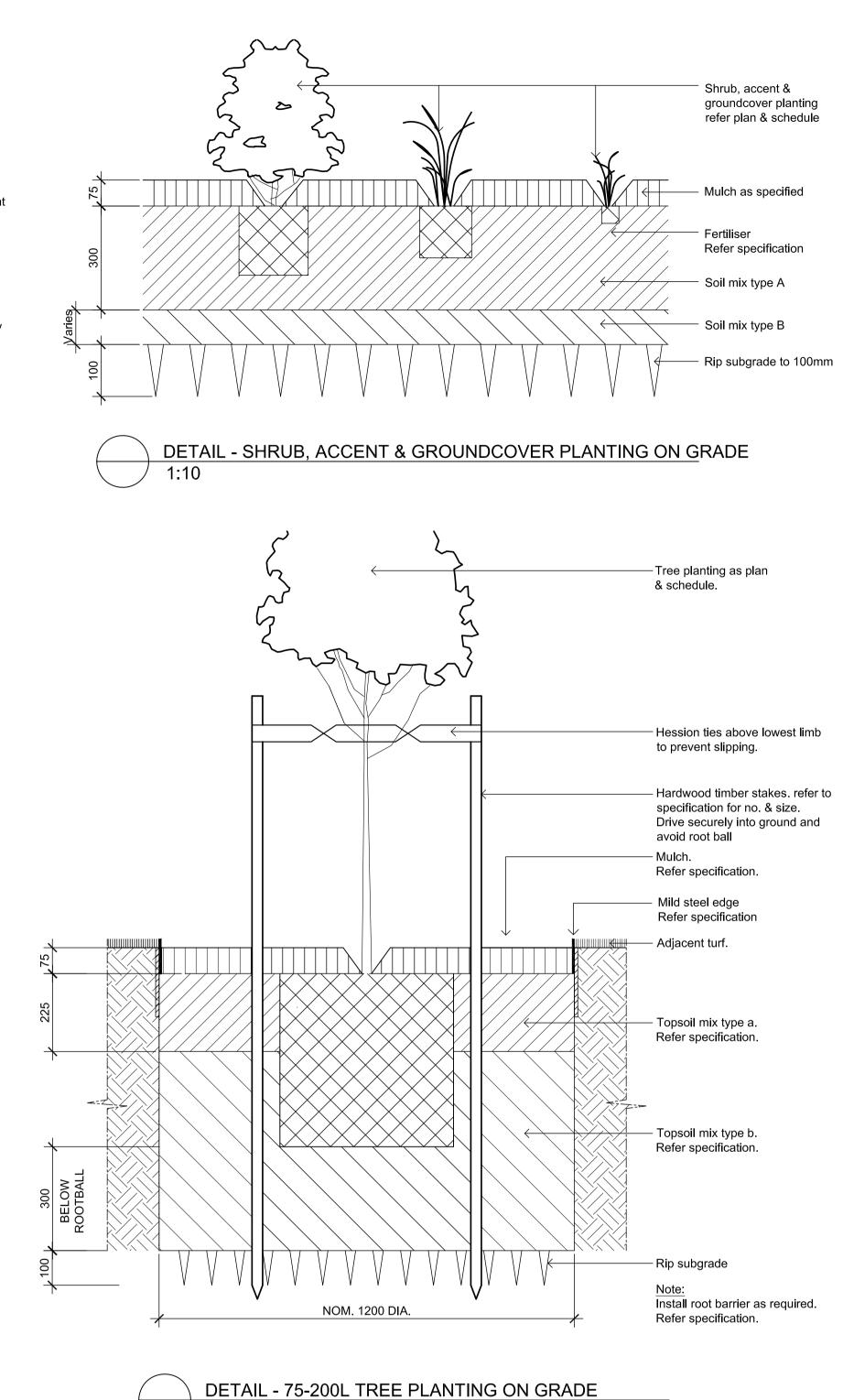
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Architectural Coordination
Landscape Amendments
Architectural Coordination
Landscape Amendments
For Comment

JEF NM 07.09.2106
JEF NM 05.09.2106
JW NM 19.04.2016
JW NM 07.04.2016
JW NM 05.04.2016
Drawn Check Date

LEGEND





Key Plan:

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Charter Hall

NSW

Lake Macquarie Fair

Wilsons Rd, Mt Hutton

Landscape Plan & Details

TURF WITH STEEL EDGE

DEVELOPMENT APPLICATION

Scale:
Job Number:

Job Number: Drawing Number: Issue: SS16-3212 501 E

B Landscape Amendments
A For Comment
Issue Revision Description

A1

SPECIFICATION

References

All plans and details included in the project documents shall be read in • Vigorous, well established, free from disease and pests, of good conjunction with this specification. All structural and civil works components of the landscape design shall be referenced to engineers' • Hardened off, not soft or forced, and suitable for planting in the details and specifications. Read this specification in conjunction with the plant and materials schedule on this drawing. If in doubt about any detail or if conflicts are found in the documents, seek advice.

Workmanship and Materials

The whole of the landscape works shall be carried out by a competent, trained and qualified landscape contractor who is experienced in horticultural practices, landscape construction and planting techniques. The landscape contractor shall hold a current Building Contractors License and/or be a financial member of LNA Landscape Association NSW & ACT or equivalent organisations in other states.

EXISTING TREES

Trees to be Retained and Protected

Identify and mark trees and shrubs to be retained using a suitable non-injurious, easily visible and removable means of identification. Protect from damage the trees and shrubs to be retained, including those beyond the site area, both above and below the ground. If a tree becomes damaged during the works or it is proposed to perform work on a tree, give written notice immediately and obtain instructions.

Keep the area of the drip-line free from construction material and debris. Do not place bulk materials and harmful materials under or near polymer mesh. Lay mesh from top to bottom of slope. Install in Do not remove topsoil from, or add topsoil to, the area within the drip-line of trees.

EARTHWORKS

Excavation, Trimming and Filling

Except as otherwise note in the contract, bulk excavation is excluded from the landscape works. Trim and fill the excavated ground surfaces proximity poses a threat to the stability of the infrastructure. Install in to achieve design levels to accommodate finish materials as detailed. accordance with manufacturer's recommendations. Compact the finished surface as required for the finished ground treatment.

Sub-soil Drainage

Keep the excavated works drained and free of standing water. Allow to are installed. Keep mulch clear of all plant stems and rake to an even supply and install sub-soil drainage pipes as required for the new works to ensure that all gardens are well drained. Connect the sub-soil design surface levels. Over fill to allow mulch to settle to the specified • Erosion control - Where necessary, maintain the erosion drainage pipes to the nearest downstream stormwater pits. Include pipe filter socks.

HARDWORKS

Furniture, Handrails, Balustrades

Supply and install the scheduled items in accordance the manufacturer's recommendations, as detailed and in the locations shown on plan. Provide all footings and fixings required for the items to be stable and in accordance with applicable codes and standards.

Garden Walls, Fences, Steps, TGSI and Edging Construct garden walls as shown on plan, as detailed and of the material scheduled. Provide footings, step nosings, tactile surfaces to comply with standards and applicable legislation.

Continuous, Unit and Loose Pavement

Install the scheduled material pavement to the locations shown on plan. • In stretcher pattern, joints staggered and close butted; Ensure that all subgrade/subsurface works are complete prior to commencing paving. Confer with the engineer to ensure the structural • To finish flush, after tamping, with adjacent finished surfaces of integrity of the installation.

SOFTWORKS

Undertake at least two (2) soil tests, in locations as advised by Project Manager, and provide results and recommendations for the improvement of plant growth and to adjust the soil to achieve appropriate planting medium (including pit levels) for successful plant

Excavate all garden beds to bring the subsoil to at least 300mm below growth. The irrigation system shall be such that, component theft, finished design levels. Shape the subsoil to fall to subsoil drains where vandalism, over-spray and wetting of paths shall be reduced to a finished design levels. Shape the subsoil to fall to subsoil drains where emitters that provide a drifting mist that may wet paths and the applicable. Do not excavate within the drip line of trees to be retained. buildings. Cultivate the subsoil to a further depth of 100mm. Remove stones exceeding 25mm, clods of earth exceeding 50mm, and weeds, rubbish LANDSCAPE MAINTENANCE or other deleterious material brought to the surface during cultivation. incorporated into the subsoil, as recommended in the soil testing results and to manufacturer's recommendations. Trim the surface to design levels after cultivation.

Import topsoil for the garden and turf areas, unless the topsoil can be Pruning; provided from material recovered from the site, as recommended in the • Insect and pest control; soil testing results. Spread the topsoil on the prepared subsoil and • Fertilising; grade evenly, compact lightly and uniformly in 150mm layers. Avoid • Stakes and ties; differential subsidence and excess compaction and produce a finished • Maintaining mulch; topsoil surface which has the following characteristics:

- flush with adjoining hard surfaces such as paths and edge;
- Smooth and free from stones or lumps of soil; Graded to drain freely, without ponding, to catchment points;
- Graded evenly to adjoining surfaces; and

Ready for planting.

Provide, in accordance with AS 4454, well rotted vegetative material or the landscape always looking its best. animal manure, free from harmful chemicals, grass and weed growth.

Provide proprietary fertilisers, delivered to the site in sealed bags marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, recommended uses and application rates.

Supply plants in accordance with the landscape drawings and

schedules, which have the following characteristics:

- Large healthy root systems, with no evidence of root curl, restriction or damage:
- form consistent with the species or variety;
- natural climatic conditions prevailing at the site, and in particular shade conditions,
- Grown in final containers for not less than twelve weeks; Trees, unless required to be multi-stemmed, shall have a single
- leading shoot, and • Containers shall be free from weeds and of appropriate size in relation to their container.

Plant Installation

Following excavation of the planting hole place and spread 15gms of wetting agent pre-mixed with one (1) litre of water. Place the plant correctly orientated to north or for best presentation. Backfill the planting holes with specified topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure the topsoil is not placed over the top of O Chemical / product name, the rootball. Keep the plant stem at the same height above the ground o as it was above the soil in the container. Apply fertiliser, as recommended in the soil testing results or in accordance with the manufacturer's recommendations around the plants in the soil at the

Embankment Stabilisation

Where necessary to prevent soil erosion or soil movement, stabilise embankments. As a minimum this should be on slopes >1:3. Stabilise embankments using biodegradable fibre reinforced with heavy weight trees. Do not place spoil from excavations against tree trunks. Prevent accordance with manufacturer's specification, including 300 x 300 mm wind-blown materials such as cement from harming trees and plants. anchor trenches at top and bottom, backfilled with soil over the mesh and compacted, and U-shaped galvanised steel pegs at 1000 mm

• Stakes and ties - Adjust and replace as required to ensure centres and 250mm centres at edge overlaps. Plant after matting is

Root Barrier

Supply and install root control barriers to all new tree plantings adjacent to walls, paths and all trunk service trenches, where their

Mulch shall be approved recycled wood fibre or pine bark mulch. Place • Irrigation and watering - Maintain the irrigation system to sure mulch in all garden beds to a depth of 75mm, after all specified plants surface flush with the surrounding surfaces evenly graded between

Stakes shall be durable hardwood, straight, free of knots and twists, various plant pot sizes: • Plants (>25 lt): 1 off 38 x 38 x 1200mm;

 Semi-advanced plants (>75 lt): 2 off 50x50x 1800mm; Advanced (>100 lt): 3 off 50 x 50 x 2400mm.

Turf shall be delivered to site as 25mm minimum thick cut rolls. Obtain turf from a specialist grower of cultivated turf. Provide turf of even thickness, free from weeds and other foreign matter. Deliver turf to the site within 24 hours of being cut, and lay it within 24 hours of delivery. Prevent it form drying out between cutting and laying. Lay the turf in the

Parallel long sides of level areas, with contours on slopes; &

IRRIGATION

All proposed landscape areas shall be irrigated.

The irrigation system shall be an automatic fixed drip system, with an irrigation controller self operated via a soil moisture sensor. The system shall be compatible to the type of plant material and rates of water required. Where appropriate adjustable and fully serviceable. The layout of the entire irrigation is to ensure that each individual plant receives the required amount of water to maintain healthy and vigorous applicable. Do not excavate within the drip line of trees to be retained. minimum or completely eliminated by the use of drip, pop-up sprinklers Excavate all turf areas to bring the subsoil to at least 100mm below and judiciously placed fixed spray emitters. Do not use fine mist type

Do not disturb services or tree roots, if necessary cultivate these areas The Landscape Contractor shall rectify defects during installation and by hand. During cultivation, thoroughly mix in materials required to be that become apparent in the works under normal use for the duration of the contract Defects Liability Period. The Landscape Contractor shall maintain the contract areas by the implementation of industry accepted horticultural practices for 52 weeks. The landscape maintenance works shall include, but not be limited to, the following: Replacing failed plants;

- Mowing and top dressing; • Finished to design levels, allowing for mulch or turf, which is to finish • Irrigation and watering;
 - Erosion control, and • Weeding and rubbish removal.

Maintenance Log Book

Implement and keep a maintenance log book recording when and what maintenance work has been undertaken and what materials, actions and decisions have been used, implemented and concluded to keep

Maintenance Activities Schedule the following activities to occur on a timely basis.

Plant replacement - Replace plants that have failed to mature, die or are damaged. Replacement plants shall be in a similar size and quality and identical species or variety to the plant that has failed. Replacement of plants shall be at the cost of the landscape contractor unless advised otherwise. If the cause of the failure is due to a

controllable situation then correct the situation prior to replacing

- **Pruning -** Prune dead wood, broken limbs, dead or infected foliage and as needed to develop strong, healthy plants to achieve the shape and form expected of the plant type.
- Insect and pest control Avoid spraying: if ever possible; in wet weather or if wet weather is imminent;
- if target plants are still wet after rain; in windy weather, and
- if non-target species are too close.

Immediately report to the Project Manager any evidence of intensive weed infestation, insect attack or disease amongst plant material. Submit all proposals to apply chemicals and obtain approval before starting this work. When approved, spray with herbicide, insecticide, fungicide as appropriate in accordance with the manufacturers' recommendations. Record in the logbook all relevant details of spraying activities including:

Product brand / manufacturer's name,

Chemical contents,

- Application quantity and rate
- Date of application and location,
- Results of application, and Use approval authority.
- Fertilising Fertilise gardens with a proprietary slow release fertiliser applied in accordance with the manufacturer's directions and recommendations. Record in the logbook all relevant details of
- Product brand / manufacturer's name. Fertiliser / product name,
- Application quantity and rate, and Date of application and location.
- plants remain correctly staked. Remove those not required at the end
- of the planting establishment period (Defects Liability Period). • Maintaining mulch - Maintain the surface in a clean, tidy and weed free condition and reinstate the mulch as necessary to ensure correct depth as specified.
- Mowing and top dressing Mow the turf to maintain a grass height of between 30-50mm. Do not remove more than one third of the grass height at any one time. Remove grass clippings from the site after each mowing. Top dress to a maximum of 10mm to fill
- depressions and hollows in the surface. that each individual plant receives the required amount of water to maintain healthy and vigorous growth, adjust and rectify as required.
- Provide additional watering, if necessary. control devices in a tidy and weed free condition and reinstate as necessary to ensure control measures are effective where deemed
- Weeding and rubbish removal During the plant establishment pointed at one end, in the following quantities and sizes for each of the period remove by hand, rubbish and weed growth that may occur or re-occur throughout all planted, mulched and paved areas. The contractor shall target weeds that are capable of producing a major infestation of unwanted plants by seed distribution. Whenever possible, time weed removal to precede flowering and seed set.

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LEGEND

B Architectural Coordination JEF NM 07.09.2106 JEF NM 05.09.2106 A Landscape Amendments

Maintenance Program

Activity			Frequency						Action	
		D	W	2W	3W	М	ЗМ	6M		
1	Logbook	+		+		+			Complete a logbook entry every day at site and at least every two weeks. All actions listed below require a logbook entry. Upon request, make the logbook available for inspection. Submit copies of new entries in the logbook to the Contract Administrator on a monthly basis. Please note that more frequent, short, occasional inspection should result in less maintenance work when problems are observed earlier than they might otherwise have been seen.	
2	Plant Replacement			+		+			Inspect and replace failed plants within 2 weeks of observation of failure. Match species, size (original) and location of new with old.	
3	Mulch			+		+			Inspect and replace mulch deficiencies within 2 weeks of observation. Prior to placing new mulch aerate the soil by fork turning to a depth of at least 100mm, roughly level the soil and then place mulch. Do not disturb major plant roots while aerating soil.	
4	Erosion Control			+					Inspect every two weeks and repair ground, soil and mulch immediately. Maintain erosion control device as necessary.	
5	Stakes and ties			+					Inspect every two weeks, adjust and/or replace as necessary but remove as plants mature and are able to support themselves.	
6	Weed and Rubbish removal			+					Inspect and remove immediately upon observation. Leave no waste on site. Dispose of waste material at a designated waste disposal site	
7	Pruning			+					Inspect every 2 weeks and prune as necessary to remove dead wood, improve plant shape and promote healthy vigorous new growth.	
8	Spraying			+					Inspect every 2 weeks and action as necessary. Do not spray if other non-chemical methods will satisfy the need to remove insects. Spray for disease control only when absolutely necessary.	
9	Urgent Works		+						Complete within 1 week (7 days) of notification. Inspect and clear drains.	
10	Planting and fertilising			+			+		Inspect every 2 weeks and remove spent flowers and dead stalks as they become apparent. Fertilise gardens every 3 months or other frequency in accordance with fertiliser manufacturer's directions.	
11	Watering	+		+					Water when and where necessary every day at site and at least every 2 weeks generally. Do not allow soil and plants to dehydrate. Allow for prolonged rain, windy and dry periods. Water in the early morning or late afternoon to avoid excessive evaporation during the heat of the day.	
12	Mowing, top dressing and edging			+		+		+	Summer fortnightly. Winter monthly. Top-dress 6 monthly.	

Key Plan:



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SITE IMAGE Client:

Charter Hall

Lake Macquarie Fair Wilsons Rd, Mt Hutton Landscape Specification

DEVELOPMENT APPLICATION

Job Number: Drawing Number: SS16-3212 502 B

Issue Revision Description Drawn Check Date