SYDNEY SCIENCE PARK

LUD 3 Intersection Landscape DA Report



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Report title	Sydney Science Park LUD 3 Intersection Landscape DA Package
Document number	2522114
Prepared for	Celestino
Authors	CW, JC
Revision number	06
Revision issue date	13.12.2023
Approved	TF
Reason for revision	Development Application

Document History & Status

Rev.	Date	Description	Approved by	
01	23.03.2023	Development Application	TF	
02	31.03.2023	Development Application	TF	
03	24.04.2023	Development Application	TF	
04	27.04.2023	Development Application	TF	
05	12.05.2023	Development Application	TF	
06	13.12.2023	Development Application	TF	

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ACKNOWLEDGEMENT OF COUNTRY

In the spirit of reconciliation, Place Design Group acknowledges the Dharug peoples of the D'harwal nation, the traditional custodians of the land in Sydney Science Park.

We pay our respect to all Aboriginal and Torres Strait Islander peoples living in or visiting the Penrith area. We extend this respect to First Nations throughout Australia, past, present and future. Acknowledging their resilience, cultural heritage and continuing connection to land, waters, sky and community.

It is internationally recognised that First Nations peoples have managed land and waterways as living entities since time immemorial. As designers, we accept the responsibility of being custodians of the land and strive to design spaces which celebrate and unite individuals from all walks of life.

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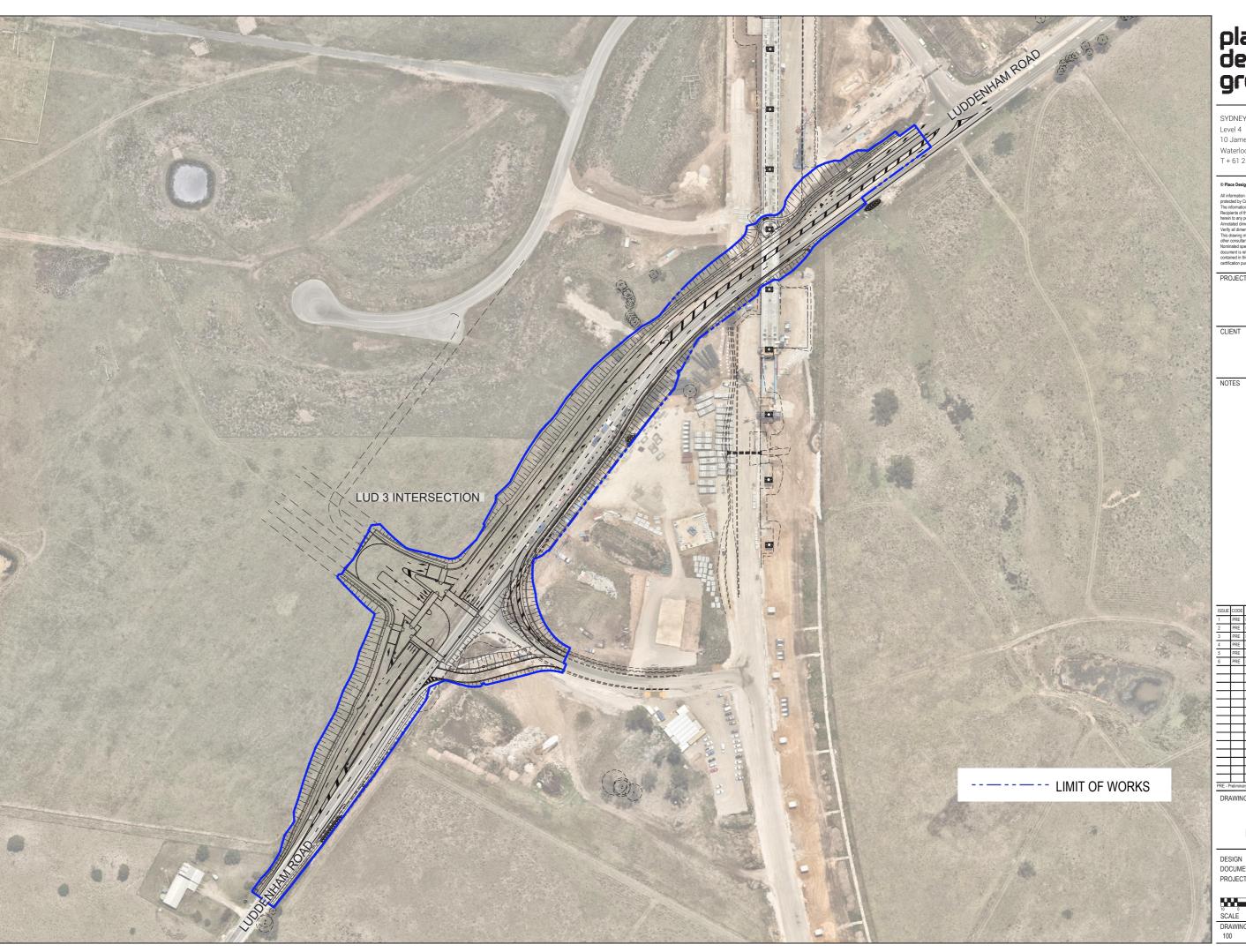
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Planting Palette
Typical Details
Landscape Specifications

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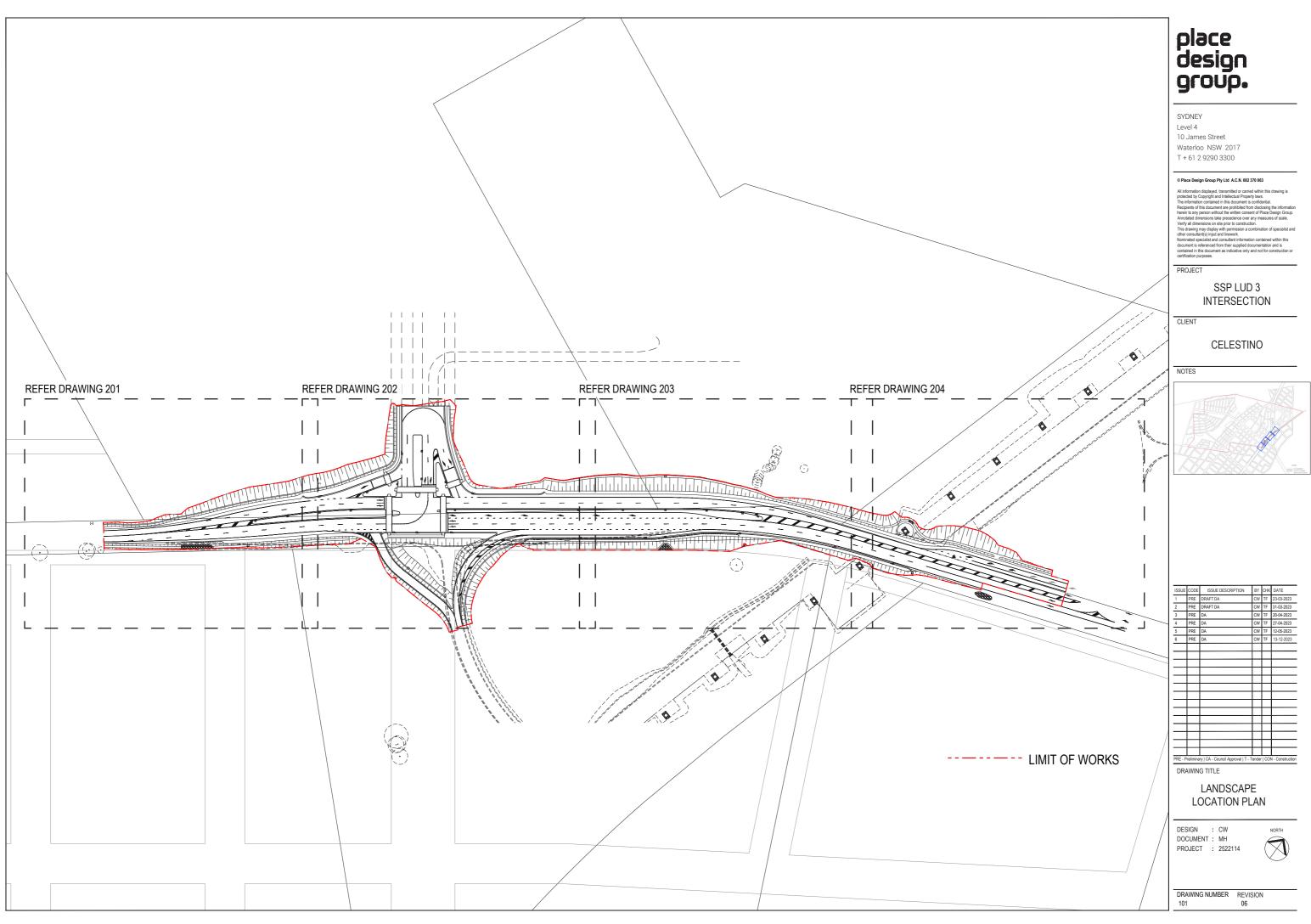
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LANDSCAPE LOCATION PLAN

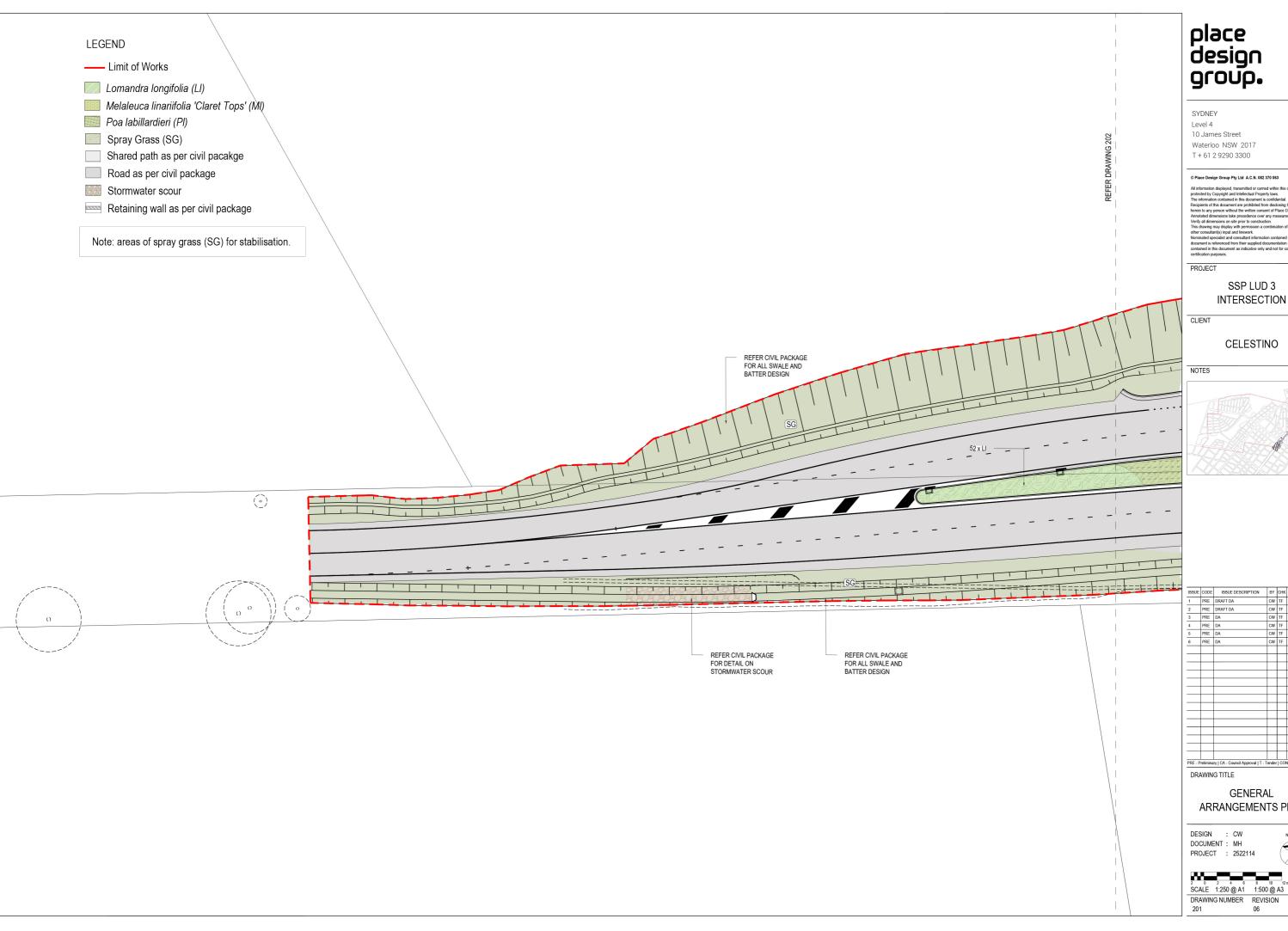
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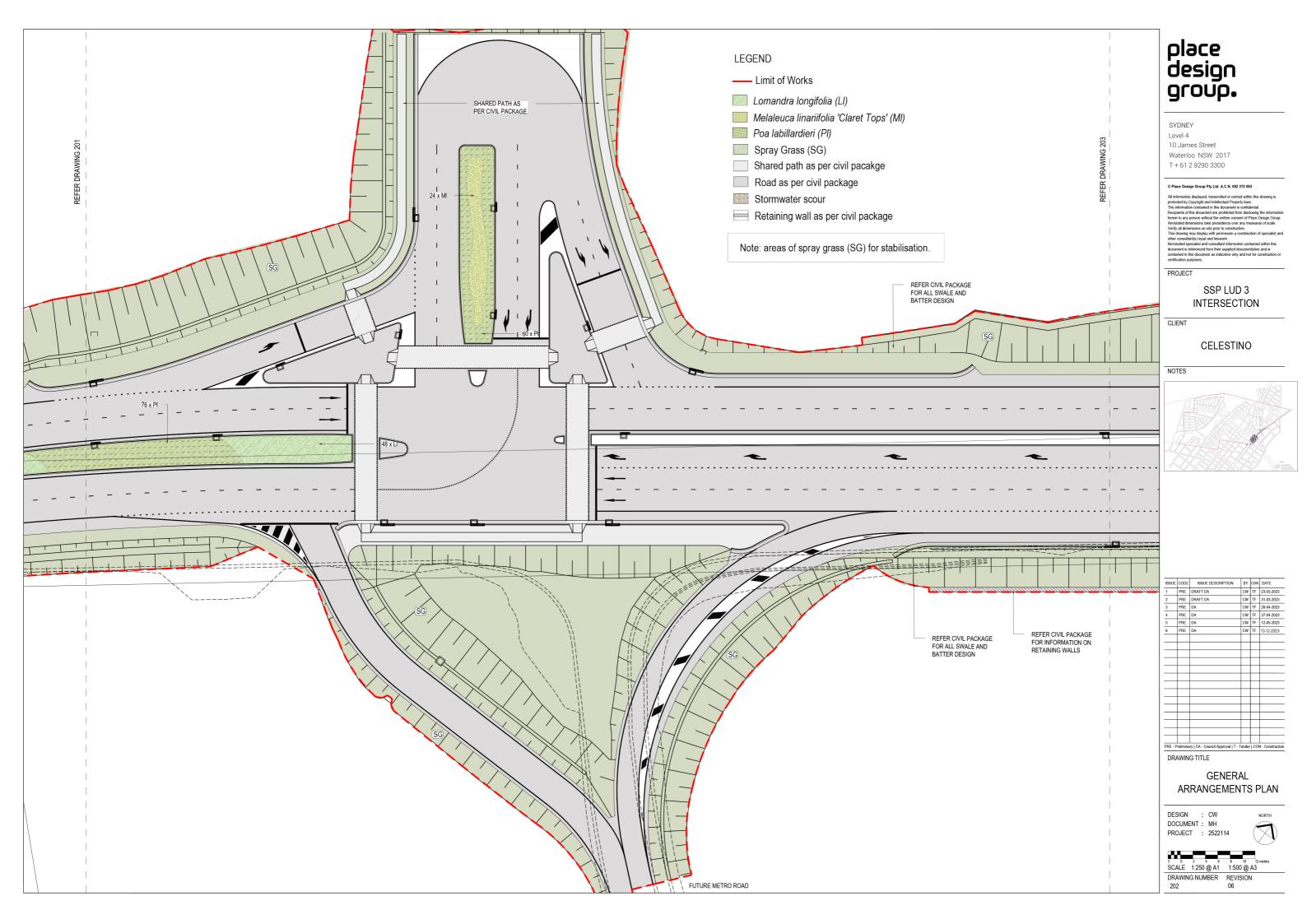


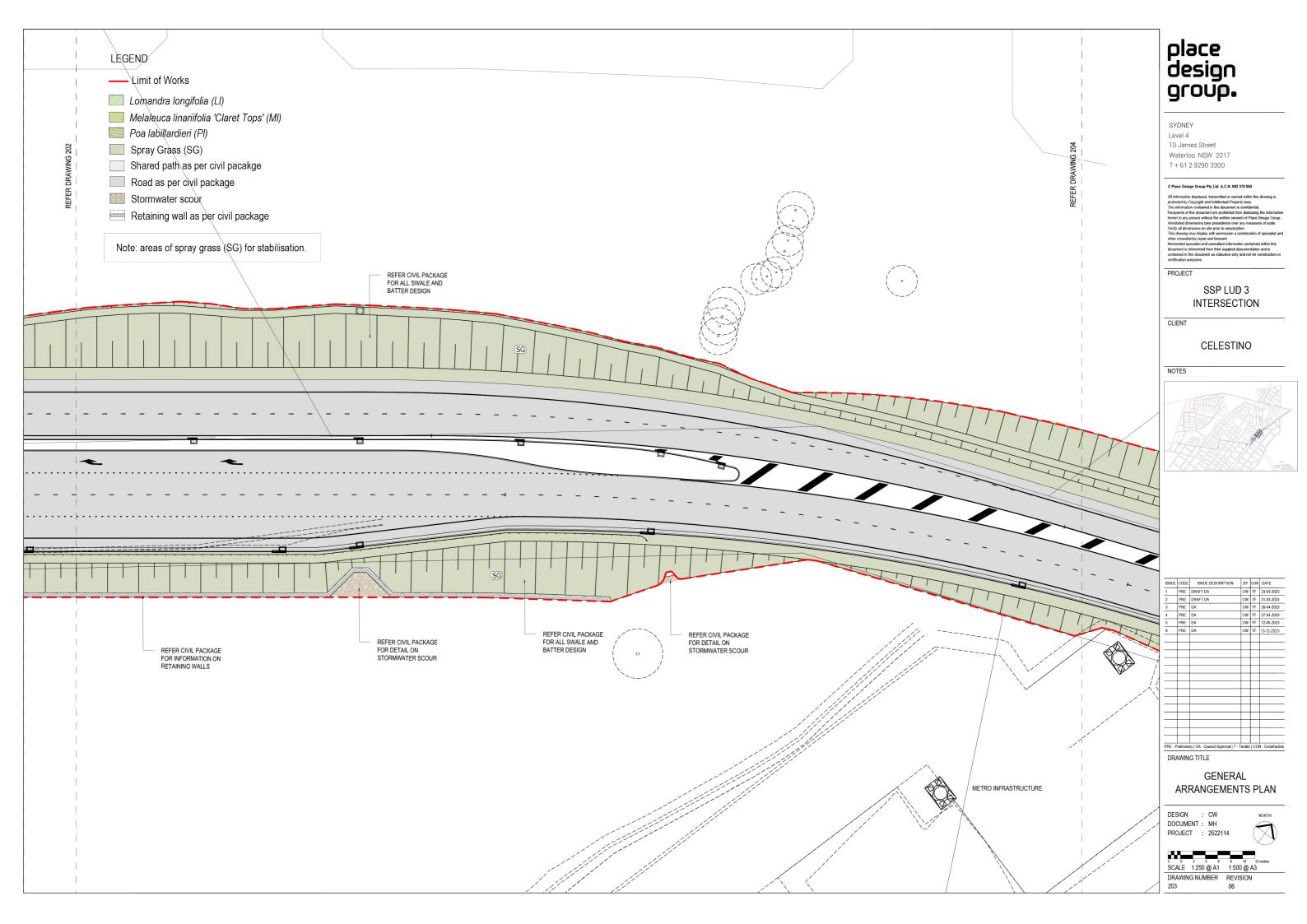


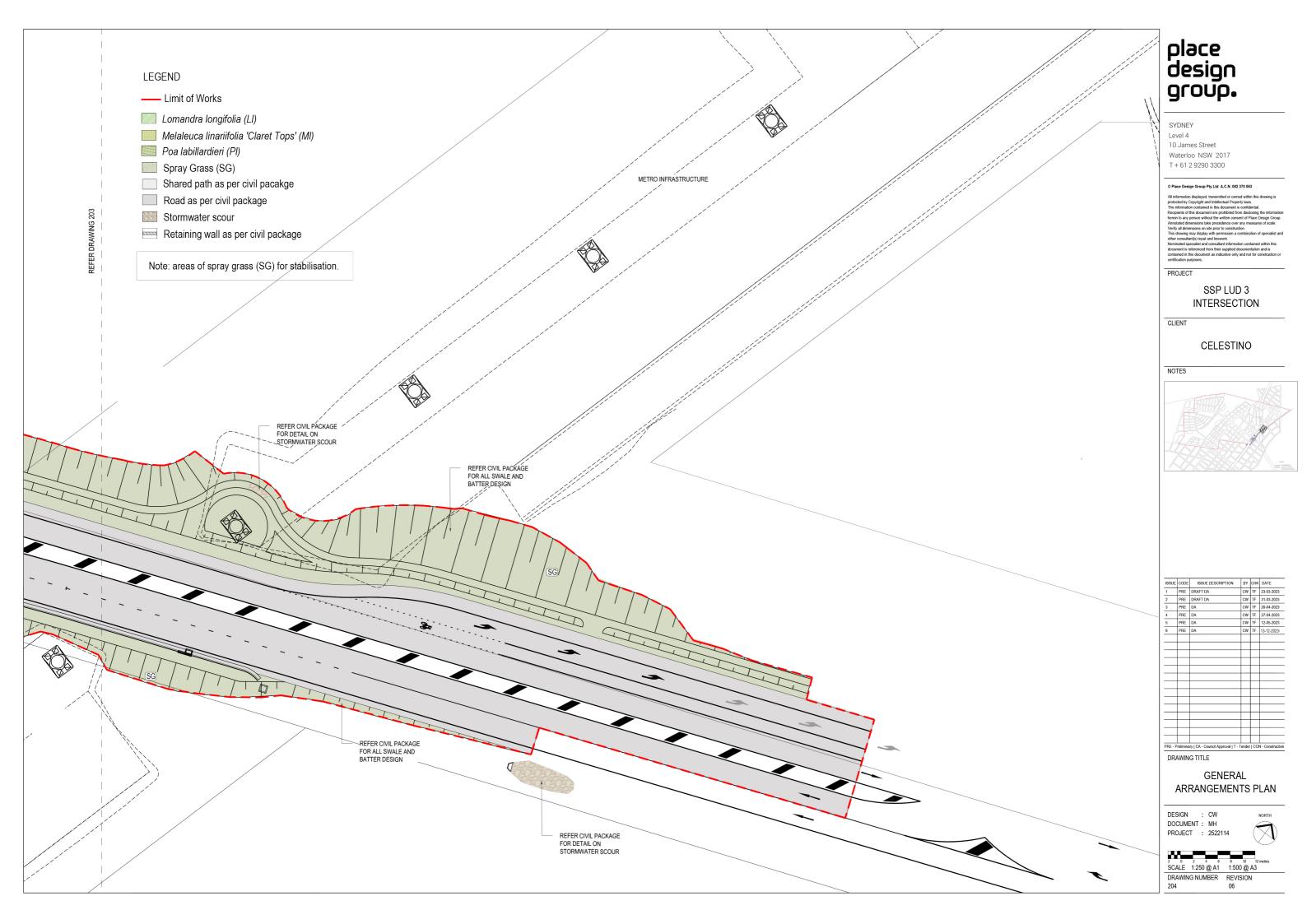


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ARRANGEMENTS PLAN







	Sydney Science Park LUD 3 Intersection Planting Schedule									
SYM	Botanical Name Common name Mature Height (m) Pot size		Centre Spacing	Qty						
GRASSI	GRASSES AND GROUNDCOVER									
LI	Lomandra longifolia 'Tanika'	Mat Rush	0.6	150mm	400mm	136				
MI	Melaleuca linariifolia 'Claret Tops'	Honey Myrtle	1.2m	150mm	500mm	24				
PI	Poa labillardieri	Common Tussock-grass	1.2m	150mm	400mm	100				
SPRAY	GRASS									
	ERIZON Parkor Blend or equivalent	50% Fescue, 10% Kikuyu,			400kg/ha	Approx.				
		40% Rye hydromulch BFM				1.0222ha				

GRASSES AND GROUNDCOVER



Lomandra longifolia 'Tanika' (LI)



Melaleuca linariifolia 'Claret Tops' (MI)



Poa labillardieri (PI)

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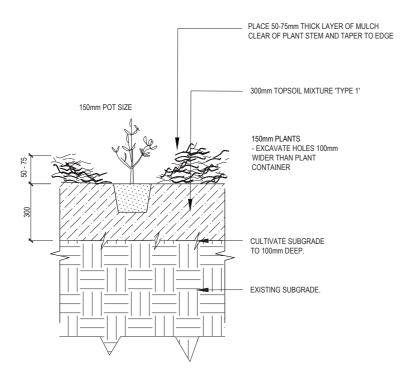
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PLANTING SCHEDULE AND PALETTE

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DRAWING NUMBER REVISION



TYPICAL DETAIL - MASS PLANTING

SCALE 1:20

CODE	DESCRIPTION	NATSPEC	DIMENSIONS	SPECIFICATION	RECOMMENDED SUPPLIER	NOTES	IMAGE
TURFING	AND SOFTFALL			•			•
	SPRAY TURF	0271 PAVEMENT BASE AND SUBBASE	N/A	Type: Parkor Blend Mix: 50% Fescue, 10% Kikuyu, 40% Rye hydromulch BFM	ERIZON or equivalent (02) 9100 0079 info@erizon.com.au Emu Plains NSW 2750	Application as per installer's instruction	
	IMPORTED TOPSOIL	0251 LANDSCAPE - SOILS	NA	Description: Organic Garden Mix Soil type 1 (A Horizon) and soil type 2 (B horizon) Application and depth: As per documentation drawings Product: Refer specification	Benedict (02) 9986 3500 sales@benedict.com.au 11a Narabang Way, Belrose NSW 2085	Imported topsoil to AS 4419	
	GARDEN BED MULCH	0253 LANDSCAPE - PLANTING	NA	Description: Horticulture Grade Pinebark Mulch Size: Fine 15mm mulch particles Depth: 75mm to all garden beds	ANL Landscapes 317 Mona Vale Road, Terrey Hills, NSW 2084 T: (02) 9450 1444		

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LUD 3 INTERSECTION TYPICAL DETAILS

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LANDSCAPE SPECIFICATION NOTES

LANDSCAPE PLANS

These plans identify the required planting layout to be undertaken as part of the works. Planting design layout is identified by different groups of plant species. Each group of plants has a plant label identifying the number of plants required and the abbreviated plant name (for reference to the planting schedule). The plant spacing and required pot size is indicated in the plant schedule. The Landscape Contractor is required to setout the plants in accordance with the planting plans and in accordance with the typical plant spacing diagrams provided.

Whilst all care has been taken to ensure accurate plant numbers in the plant schedule, the Contractor is required to check all plant numbers on the plans at the time of pricing. Plant numbers indicated on the individual plant labels take precedence over the plant numbers indicated in the plant schedule.

GENERAL NOTATION

These plans are to be read in conjunction with all other plans & details, including the building plans as prepared by the building designer. Any discrepancies in the drawings are to be brought to the attention of the Superintendent for clarification and/or direction.

These plans have been prepared using base data as provided to Place Design Group by the Client and/or Consultant Team. Whilst all care has been taken to ensure the accuracy of this base data as compared to the most recent issue of plans or works constructed on site, the Landscape Contractor shall immediately report any discrepancies between the plans and the site to the Superintendent for immediate resolution.

The Landscape Contractor shall undertake the landscape works as documented within these plans and implement any further instruction as issued by the builder on time, and in a first class manner. The Landscape Contractor shall fully coordinate the landscape works with the Builder and all other contractors undertaking concurrent works on site.

On completion, the Landscape Contractor shall ensure that all items of work have been completed in accordance with these plans and to best industry standard. Ensure all paths and surfaces are left clean, swept of any dirt and debris, and hosed down as directed. Completion of the works shall be as approved by the Superintendent.

PROJECT SCOPE

GENERAL - The Landscape Contractor shall be responsible for delivering the highest level of landscape presentation at all times through the safe and efficient execution of the works in accordance with best industry standards, best practices, and current legislative requirements. The Landscape Contractor shall work alongside other trades as required throughout the duration of the works and maintain effective lines of communication with the superintendent at all times regarding program, progress, and any issues likely to affect the works.

LICENCED CONTRACTOR - Landscape works are to be carried out by trade qualified, experienced landscape contractors with the appropriate QBCC licences to cover the scope of works required.

ENVIRONMENTAL MANAGEMENT NOTES

SITE ACCESS - Vehicular movement on site is to be restricted to within 3m of the area of site receiving an amended surface treatment. Contractor is not to drive vehicles or machinery over areas of site not being landscaped. Access and egress onto and within the site for construction activities as outlined within this document should be organised through the appointed Principal Contractor's Site Superintendent.

SITE CONTROL -

- A. Be responsible for activities on the site including providing access for authorised persons and restricting access by unauthorised persons. Take necessary precautions to secure the assets of the Principal.
- B. Except as otherwise provided in the contract, delivery of materials for the works, space for storage of same will be allowed only as directed by the Superintendent.
- C. Do not store waste flammable liquids on site
- D. Take proper precautions to keep poisons and other injurious substances in places secured against access by unauthorised persons.
- E. Provide and maintain required barricades, guards, fencing, footpaths, signs, watching and traffic flagging.
- F. Do not obstruct or damage roadways and footpaths, drains and watercourses and other existing services in use on the site. Determine the location of such services.

H. Any Contractor or sub-contractor working on the site shall not discharge poisonous, noxious or polluting material into any "Controlled Waters", either deliberately or accidentally. Polluting materials include silt, cement, concrete, oil, petroleum spirit, sewage or other debris and waste materials. "Controlled waters" include all watercourses and water contained in underground strata. In planning and carrying out any works, precautions must be taken to secure the complete protection of watercourses and water in underground strata against pollution. If pollution should occur, then the site operator should advise the Superintendent via the Contractor and the relevant Statutory Authority immediately and take prompt action to minimise the effect.

- G. Be responsible for the safety of the Landscape Works. Report to the Principal Contractor / Superintendent the occurrence of any of the following:
- Accidents involving death or personal injury.
- Accidents involving loss of time.
- Incidents with accident potential such as equipment failure, slides and cave-ins.

DISPOSAL OF REFUSE - Be responsible for keeping the landscape and associated works clean and tidy as it proceeds and regularly remove rubbish from the site. Provide covered receptacles for rubbish, garbage and food scraps and have them emptied at regular intervals as necessary. Do not leave rubbish, garbage and food scraps lying about the site and the Works.

WEED INFESTATION - The site area receiving an amended surface treatment is to be sprayed with a non-residual glyphosate herbicide in any of its registered formulae, at the recommended rate. Do not spray within 200mm of tree roots. Weed around tree roots manually. Dispose of weeds off site at registered tip. The Contractor shall spot treat all perennial weeds with a suitable agreed herbicide at the manufacturers' recommended strength and rate. All nut grass to be sprayed with Sempra at manufacturer's recommended rates.

PRE-CONSTRUCTION

EXISTING ELEMENTS - To be verified on site prior to commencing work.

EXISTING SERVICES - Contact Dial Before You Dig on 1100 to locate and verify the existence of all services prior to starting work. Also check with the Main Building Contractor to verify the location of recently installed services.

CHECK DIMENSIONS - Prior to commencing work check dimensions and report any discrepancies. Advise the Superintendent of any necessary changes to setout and obtain approval prior to construction.

SITE SECURITY - The Contractor shall be wholly responsible for the proper and adequate safeguarding of the landscape and irrigation works, and the fixed and unfixed materials on the site during both working and non-working hours.

PARKING - Use only designated parking areas as nominated by the Site Superintendent.

SURVEY MARKS - The term 'survey mark' means a survey peg, bench mark, reference mark, signal, alignment, level mark or any other mark used or intended to be used for the purpose of setting out, checking or measuring the work. Preserve and maintain the survey marks in their true positions. If the survey marks are disturbed or obliterated, the Landscape Contractor is to give immediate notice to the Superintendent. The surveyor is to rectify the disturbance or obliteration of the survey marks at the expense of the Landscape Contractor.

GENERAL PRODUCT COMPLIANCE - Provide products which comply with the requirements, and which are undamaged and unused at time of installation.

RECTIFICATION - The Landscape Contractor is to rectify immediately at their expense, any obstruction or damage to existing civil or building works including but not limited to, roadways, footpaths, walls and drains in use on the site caused by works carried out by the Landscape Contractor. The Civil Contractor at the expense of the Landscape Contractor is to provide temporary services whilst repairs are carried out.

MANUFACTURERS' RECOMMENDATIONS - Use manufactured items in the work in accordance with current published recommendations of the manufacturer relevant to such use. Comply with manufacturer's applicable recommendations for installation, to whatever extent these are more explicit or more stringent than requirements indicated in the Contract Documents.

CONTRACTOR'S QUALITY CONTROL

- A. Inspect each item of material or equipment immediately prior to installation and reject damaged or defective items.
- B. Re-check measurements and dimensions of the Work as an integral step before starting each installation.
- C. Install work during conditions of temperature, humidity, exposure and weather which will ensure the best possible results for each part of the work, or component or treatment as necessary to prevent damage and deterioration.
- D. Co-ordinate with the main contractor and ensure any required excavation is carried out in accordance with the landscape details.
- E. Co-ordinate enclosure and closing-in of work with required inspections and tests, so as to avoid necessity of uncovering work for that purpose.

PROGRESS PHOTOGRAPHS - Take digital progress photographs at least once a week during construction. Take photos of each significant work item for your records. Photos must be made available to the Landscape Architect on occasions where they are unable to make an inspection. Identify the project, date, time, location and orientation

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ISSUE CODE ISSUE DESCRIPTION BY CHK DAT

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LANDSCAPE SPECIFICATION NOTES - SHEET 1

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DRAWING NUMBER

REVISION 6

LANDSCAPE SPECIFICATION NOTES (CONTINUED)

SOFT LANDSCAPE WORKS

SOFT LANDSCAPE WORKS

EXCAVATION - Excavate all areas of new planting beds as required to accommodate the required depths of imported topsoil as required and remove spoil to an approved location. Excavate all planting beds as required, to a maximum offset distance of 200mm from concrete. Ensure no damage is caused to existing concrete.

CULTIVATION - Following excavation, the top 150mm in all planting areas is to be cultivated by approved method to break up the surface to achieve a fine subsoil material. Incorporate Gypsum at a rate of 2Kg/sq.m.

After cultivation, remove stones exceeding 25mm, clods of earth and clay exceeding 50mm and any other deleterious material brought to the surface during cultivation, including roots, sticks, weeds and the like. Any depressions caused by the removal of these materials shall be filled as required with suitable soil.

After cultivation, the surface should be graded smoothly and trimmed to the required levels and/or falls with sufficient allowance for the placement of the specified minimum depth of topsoil to achieve the finish design levels.

TOPSOIL - Imported topsoil blends shall be spread on site to the following typical depths:

Planting Beds: 300mm Medium Organic Landscape Soil to AS4419:2018.

Topsoil shall contain organic matter, be free draining, support plant life, be free from unwanted matter such as stones over 25mm, clay lumps, weeds, tree roots, sticks, rubbish, material toxic to plant growth, and the like. Topsoil to meet the requirements as defined by AS 4419 - Soils for Landscaping and Garden Use - 2018 edition.

ORGANIC MULCH - Shall be 'Fine Mulch' as supplied by Bedrock or approved equal. Mulch shall be free of deleterious and extraneous matter including soil, rocks, weeds, twigs and the like. Provide sample of mulch for approval by the Superintendent prior to delivery to site.

SETOUT - If it appears necessary to vary plant setout to avoid service lines, or to cover the area uniformly, or for other reasons, give notice and obtain advice from the Superintendent.

PLANTS - shall be vigorous, well established, of good form consistent with species or variety, not soft or forced, free from disease and insect pests, with large healthy root systems and no evidence of having root curl or roots having been restricted or damaged. Plant material shall be fully acclimatised, hardened off for Penrith's climate, and shall have been grown in containers of the size specified for a time period to achieve sufficient roots to hold container soil together after removal from containers, without being root bound.

The Superintendent has the right to reject those plants not meeting with the requirements of the plant schedule in terms of the size of the plant in reference to the pot size nominated. All rejected plants shall be replaced with new plants at the landscape contractor's expense.

In the event where specified plants are not available, the landscape contractor shall seek approval for plant substitutions. No substitutions of species or pot sizes shall be made without the approval of the superintendent.

All plants shall be set-out in the positions and numbers as documented on the planting plan. Where rows of plants are required, space plants evenly in accordance with the typical planting set-out detail or as directed.

PLANTING IN MASS PLANTING AREAS - Prior to planting, spread 150g/sq.m of Yates Dynamic Lifter over the spread and levelled imported topsoil. Excavate a hole for each plant large enough to provide not less than 100mm topsoil backfill all-round the root system of the plant. Incorporate evenly around the base of each plant, Nutricote 8-9 month formulation fertiliser suitable for ornamental shrubs at the manufacturer's recommended rates.

For groundcover planting spread Nutricote around the plants at the above rates and rake in lightly.

WATERING - Thoroughly water the plants before planting begins, immediately after planting and thereafter, to maintain growth rates free of stress until the plants become established.

TREES - All trees shall have 2 stakes installed per tree (50x50x1800mm HWD). Each tree shall be tied with an approved tie, such as 50mm wide heavy duty hessian type strapping arranged in a figure "8" about the stake and the plant stem as a minimum. For plants > 2.5 m high: Two strands of 2.5 mm galvanised wire neatly twisted together, passed through reinforced rubber or plastic hose, and installed around stake and stem in a figure of eight pattern. Ties shall not encroach turf or pathway areas. During maintenance period or inspections, remove ties if so directed.

Ensure mulch is not in direct contact with the base of the trunk of the tree.

Undertake any formative pruning as required or as directed to provide a clean trunk (equivalent to 1/3 of the height of the tree). Remove any suckering from the base or lower part of the trees throughout the establishment / maintenance period.

POST CONSTRUCTION WORKS

FINAL CLEANING - Provide final cleaning of the work prior to Practical Completion inspection, consisting of cleaning each surface of unit of work to normal 'clean' condition expected for a first-class cleaning and maintenance programme. Examples of required cleaning are:

- Clean project site, of litter and foreign substances associated with the landscape works;
- Clean paving/roadways/carpark of staining and dirt marks, etc. as a result of the landscape works.
- Clean fencing of staining and dirt marks associated with the landscape works.
- Remove all waste and surplus materials including site soils.

AUTHORITY APPROVALS AND CERTIFICATES

- A. Prior to the issue of Practical Completion Notice for the whole of the work, lodge with the Superintendent relevant certificates issued by Local Authorities.
- B. If applicable produce to the Superintendent a certificate of clearance of reinstatement of damage to footpaths and road, etc. from the appropriate Local Authority before issue of Practical Completion Notice.

AS-BUILT DRAWINGS - During construction and prior to Practical Completion prepare as-built drawings which record accurately and to scale the locations of any adjustments to the documented landscape works.

Provide as-built drawings that record accurately the installed irrigation works.

Consult the CLIENT to obtain their requirements as to numbers, size and form of as-built drawings.

CONTRACTOR'S OWN DEFECTS INSPECTION - The Contractor must undertake his own "defects" inspection, and complete making good of such defects prior to offering the Works for a joint inspection with the Client/Principal Contractor/Superintendent.

The Contractor must submit evidence that he has inspected the Works, prepared a defects list, undertaken and remedied defects, re-inspected and approved same prior to this meeting taking place.

COMPLETION DOCUMENTS AND PROCEDURES - Before application is made for a Certificate of Practical Completion thoroughly check out all installations, equipment, and services to ensure that performance is correct and in order.

Obtain from all Authorities written and signed approval for all installations under their control stating their testing and approval of

Submit to the PRINCIPAL CONTRACTOR, prior to Practical Completion, as required by the contract, the following documents and certificates:

- o Certificates of approval for all irrigation water supply.
- "As Built" Drawings.
- o Maintenance Manuals.
- o Instruction Manuals.
- Warranties.
- Guarantees

PRACTICAL COMPLETION - Practical Completion of the landscape works shall be as determined by the Principal Contractor / Superintendent. On application from the Landscape Contractor, the Principal Contractor / Superintendent will undertake a detailed site inspection of the works and issue a list of defects to be rectified. Any defects identified at the time of the Practical Completion inspection shall be rectified immediately prior to the issue of Practical Completion.

ESTABLISHMENT PERIOD - The Landscape Contractor shall establish and maintain the landscape works for a minimum period of 6 weeks following practical completion (unless agreed otherwise). During this period, the landscape contractor shall maintain the works to a high level of presentation. It is expected that the minimum maintenance tasks to be performed will include but not be limited to the following:

- Check for pest and disease infestation and apply control measures.
- Monitor irrigation system and repair all faults within 24 hours;
- Replace any dead, dying, disfigured or diseased plants;
- Prune plant material to promote healthy dense growth on a monthly basis.
- Spray to control all pests or disease:
- Hand remove all broadleaf weeds and spray other weed as required and as directed throughout all planting areas at all times;
- Top up mulch as required to maintain an even minimum 75mm depth;
- Fertilise all planting beds at least once during establishment;
- Check and adjust irrigation controller operation to suit establishment and ongoing growth of plants.
- Check valve boxes and trench subsidence and make good.
- Check irrigation valves, filters, connections, etc. for correct operation.
- Check dripper operation throughout garden beds.
- Carry out any other work that is deemed necessary to establish the landscape works in a first-class condition, and as directed at any time to maintain a level of presentation acceptable to both the superintendent and the principal / end user.

DEFECTS LIABILITY PERIOD - The landscape contractor shall continue to rectify all defects in the hard landscape works for a period of twelve months from the date of practical completion. This period includes any defect to the irrigation system caused by poor workmanship including trench subsidence.

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ISSUE CODE ISSUE DESCRIPTION BY CHK DATE

DRAWING TITLE

LANDSCAPE SPECIFICATION NOTES - SHEET 2

DESIGN : CW DOCUMENT : MH PROJECT : 2522114

DRAWING NUMBER REVISION 902 06