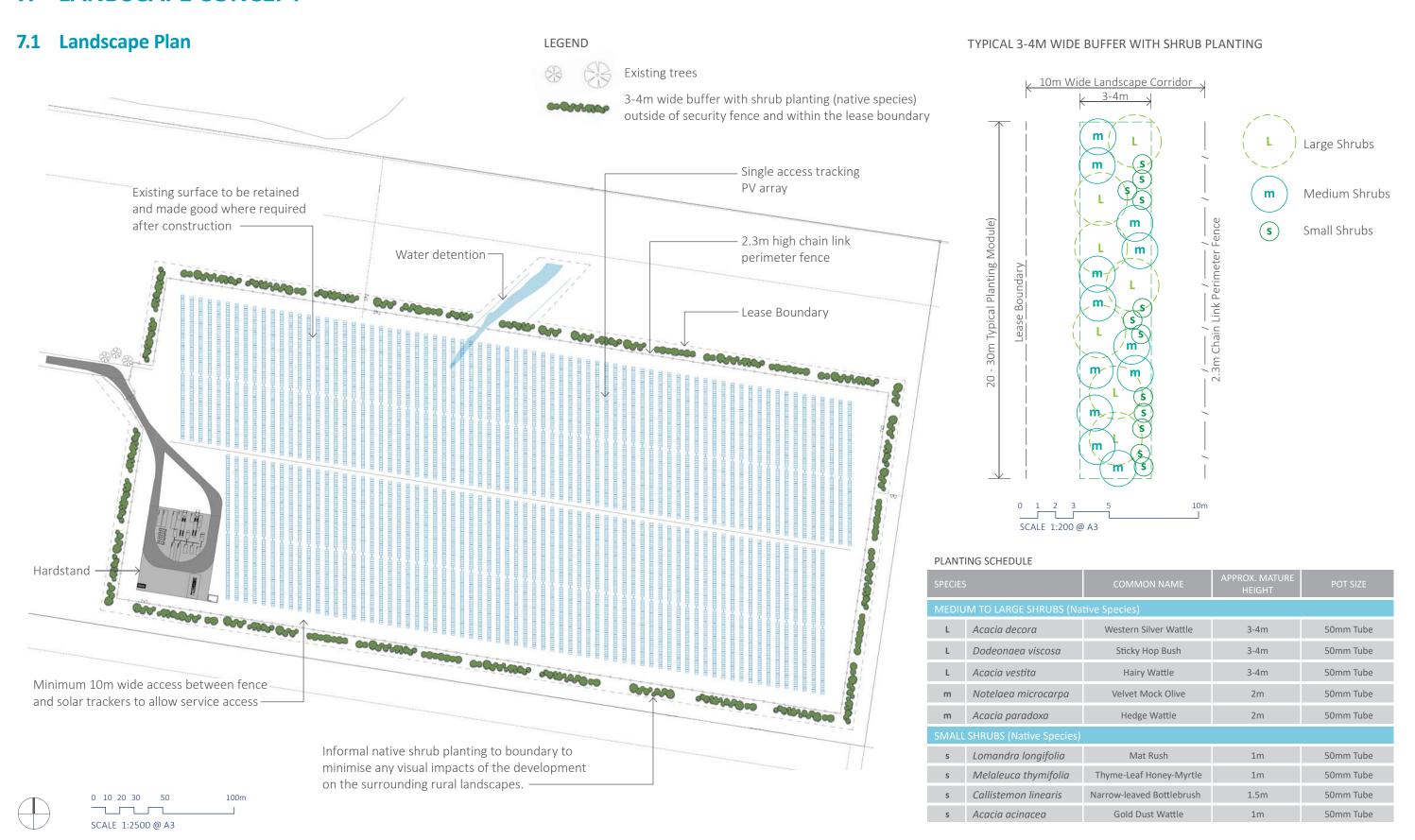


7. LANDSCAPE CONCEPT

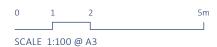


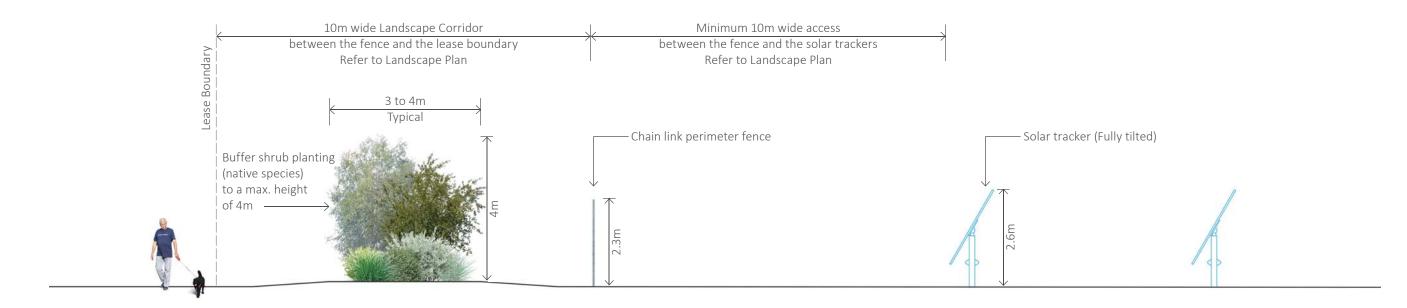


7.2 Landscape Screening

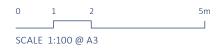


TYPICAL VEGETATION BUFFER (FRONT ELEVATION)





TYPICAL VEGETATION BUFFER SECTION





7.3 Landscape Works Construction Notes

The following outline of Landscape Works to be undertaken by the Landscape Contractor (unless otherwise stated). This will not override future detail documentation that will be undertaken as part of the project works, prior to construction.

7.3.1 Civil Works

The EPC Contractor will ensure the following minimum depths of site topsoil are provided.

- Planting areas to be a minimum 200 mm depth site topsoil.
- Grass/ turf areas to be a minimum of 100mm site topsoil
- Finished level of topsoil to be generally 100-150 mm above surrounding existing ground surface levels to ensure topsoil/planting areas are free from water-logging.

7.3.2 Locate Existing Services

The Landscape Contractor shall locate all existing services prior to commencing works, contacting Dial Before You Dig, the project EPC Contractor and/or the relevant authorities as required. Identify all overhead services prior to commencing works.

7.3.3 Set Out the Works

The Landscape Contractor shall accurately set the works out in accordance with the future detailed documentation set.

7.3.4 Soil Testing

The Landscape Contractor shall undertake soil sampling & testing of the existing topsoil as stripped and stockpiled by the EPC Contractor. An approved agricultural soil testing laboratory shall be used to test and provide amelioration recommendations for the soil shall be in accordance with AS 4419:2018 Soils for landscaping and garden use. Any recommended adjustments must be made for native tree & shrub planting.

7.3.5 Planting Areas Preparation

The Landscape Contractor shall undertake the planting preparation works in line with best practice, consideration of local conditions and timing of the works.

Eradicate broad-leaf, woody and noxious weeds from all planting areas using selective, non-residual herbicides. Manual removal of larger woody weeds may be required. Inspect the site prior to commencement to confirm extent of weed treatment and follow up with secondary treatment if required.

- If the existing soil is heavily compacted, deep rip along planting line to minimum 300 mm depth with tines at a maximum of 750 mm centres to break up/aerate natural subgrade and to relieve compaction, grade & level.
- Apply fertilisers and additives at rates recommended by soil test results.
- Cultivate planting lines to a minimum of 150mm depth to break up soil clods and provide an appropriate planting medium. Re-cultivate planting lines to break up soil clods and provide an appropriate planting medium if required.
- Remove any deleterious material brought to the surface, consolidate soil and grade surface to even grades, free of any depressions or undulations.
- DO NOT WORK WET SOIL.

7.3.6 Plant Supply

All plants shall be healthy, free from any pests or diseases, be attractive, well grown and well-formed plant specimens (typical of the individual species) and shall have a healthy, well-formed root system commensurate in size with the foliage mass (root systems must not be pot bound). Plant container sizes shall be as listed in the detail planting schedule, but shall be min. hiko, ViroTube or 50 mm round/square pot size.

7.3.7 Planting

The Landscape Contractor shall set out plants in accordance with future detailed documentation. Individual holes are to be dug (tree planter, mini-auger, etc.) in the prepared planting areas of sufficient size to easily accommodate the plant's root system and relieve any polishing. Create broad, shallow watering bowl to ALL plants to facilitate effective watering (min. 15 litre capacity). All plants shall be watered-in immediately after planting and at such times during the Contract period as is required to maintain growth free of water stress. Planting medium must be moist - do not plant into dry soil. Handle and plant all plants at all times in accordance with best horticultural practice.

7.3.8 Mulch

The Landscape Contractor shall supply and place 100mm organic mulch to all new planted areas. Preference is for Forest Mulch or local tub-ground mulch where possible. Mulch shall be free of deleterious material such as rubbish, soil, stones and large sticks.

7.3.9 Weed Mats

Where weed matting is to be used, the Landscape Contractor is to supply & install proprietary (TreeMax or similar approved) jute weed mat to each plant. Installation shall be strictly in accordance with manufacturer's recommendations.

7.3.10 Tree / Plant Guides

Where tree/ plant guards are to be used, the Landscape Contractor is to supply & install proprietary tree guards (TreeMax or similar approved) to all nominated plants. Installation shall be strictly in accordance with manufacturer's recommendations.



7.3.11 Grassing (Where Required)

Where grass works are required (grass seeding or turfing), the Landscape Contractor is to supply and install the specific grass treatment.

Do not sow seed in periods of extreme heat, cold or wet, or where wind velocities are excessive unless otherwise approved.

Seeding shall be programmed when there is a period of anticipated weather conditions (i.e. rain) that will provide the best chance for germination of grass seed. Any areas affected by heavy rain, wind removing seed or other cause shall be re-seeded as specified to achieve an even cover of grass.

Slash grass when growth height has reached 100 mm or otherwise as directed by Council. Should all the areas not require cutting at one time, complete all further cuts as necessary until 100% of the area has achieved successful coverage and all areas have received at least first cut.

7.3.12 Landscape Establishment / Maintenance Period

Landscaping Contractor shall be responsible for maintenance of the landscaping from planting until final project completion and handover to the asset owner (approximately 2 years). Following handover, the site O&M contractor shall be responsible for maintenance and replacement for the lifetime of the asset.

Maintenance shall include care of the contract area by accepted horticultural practices, and rectification of any issues which arise during this period.

Maintenance tasks to be carried out as required during the maintenance period shall include (but shall not be limited to) slashing/ mowing, watering, weed control, pest & disease control/ management, tree guard adjustment/ replacement and rubbish removal. Plant establishment at the end of the Maintenance Period is to achieve a minimum 90% success rate.

- WEED CONTROL Planted areas are to be maintained in a weed-free condition.
- GRASS MANAGEMENT Slash all grass areas on a regular basis to maintain grass height to max. 100 mm. Slashing shall comply with all local Council and RFS guidelines with regard to grass heights.
- JUTE MAT & PLANT GUARDS Maintain jute mat and tree guards for first two summers minimum, repair and replace as required during this period.
- PLANT REPLACEMENT Replace any failing, failed, or dead plants during the maintenance period. The Council and the Contractor will inspect the full planting areas at the end of each summer and will identify the number and species of plants that are failing, have failed/died for replacement

- WATERING Ensure all plants planted/maintained under this contract receive adequate (but not excessive) watering to maintain optimum growth and health. Watering shall be localised to each plant, not broad spraying across the entire planting area, to limit weed/grass growth between planting rows.
- FERTILISING All plants shall be fertilised with an approved proprietary fertiliser suitable for native gardens (in particular members of the Proteacea family and plant species and to be applied in strict accordance with the manufacturer's recommended rates. Fertiliser shall be locally spread on soil surface around plants during planting operations. Allow for one fertiliser application in Year 1 and second application in Year 2.
- PESTS & DISEASES Regularly monitor all planted and grassed areas
 maintained under the contract for evidence of pest and/or disease attack.
 Identify and treat any/all problems arising. Identify any predation by
 rabbits, hares and other pests with potential to damage or destroy the
 landscape works under this contract and maintain all tree guards in good
 condition to limit such damage.



