



LEGEND

Existing (proposed)

Existing (unproposed)

Notes

IMPORTANT NOTE RE CLARIFICATION:
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This plan shall be read in conjunction with the ACenergy Pty Ltd solar farm drawings.

Rev	Date	Revision Note	By
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1	18/8/21	APPROVAL ISSUE	CW
Issue	Date	Issue Note	By

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Consulting Engineer

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Other:

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Proprietor

Project

Coleambally Solar Farm

1207 Donald Ross Drive Coleambally NSW

Drawing

Overview Plan

(incl. adjoining properties)

Sheet 1 of 4

Local Authority Murumbidgee Council

0 100 200 300 400 500 m

Scale 1:6,500 @ A1; 1:13,000 @ A3

Drawn CW	Date 16 Aug 2021
Project # 21524	Drawing # 01

North

groundcontrol

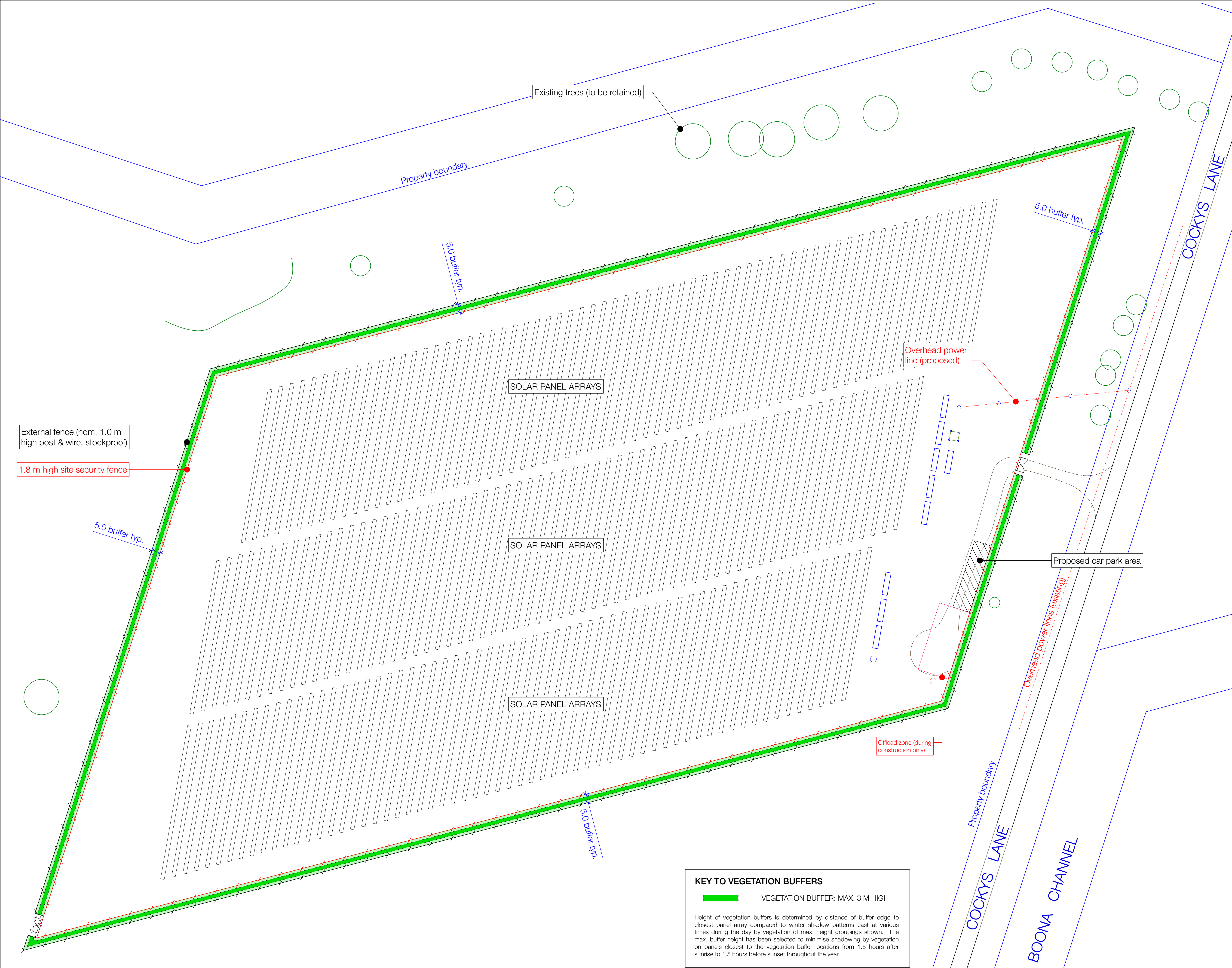
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KEY TO VEGETATION BUFFERS

VEGETATION BUFFER: MAX. 3 M HIGH

Height of vegetation buffers is determined by distance of buffer edge to closest panel array compared to winter shadow patterns cast at various times during the day by vegetation of max. height groupings shown. The max. buffer height has been selected to minimise shadowing by vegetation on panels closest to the vegetation buffer locations from 1.5 hours after sunrise to 1.5 hours before sunset throughout the year.

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Project
Coleambally Solar Farm
1207 Donald Ross Drive Coleambally NSW

Drawing
Landscape Screening Plan

Sheet **2** of **4**

Local Authority **Murrumbidgee Council**

0 20 40 60 80 m

Scale **1:1,000 @ A1; 1:2,000 @ A3**

Drawn **CW** Date **16 Aug 2021**

Project # **21524** Drawing # **02**

North


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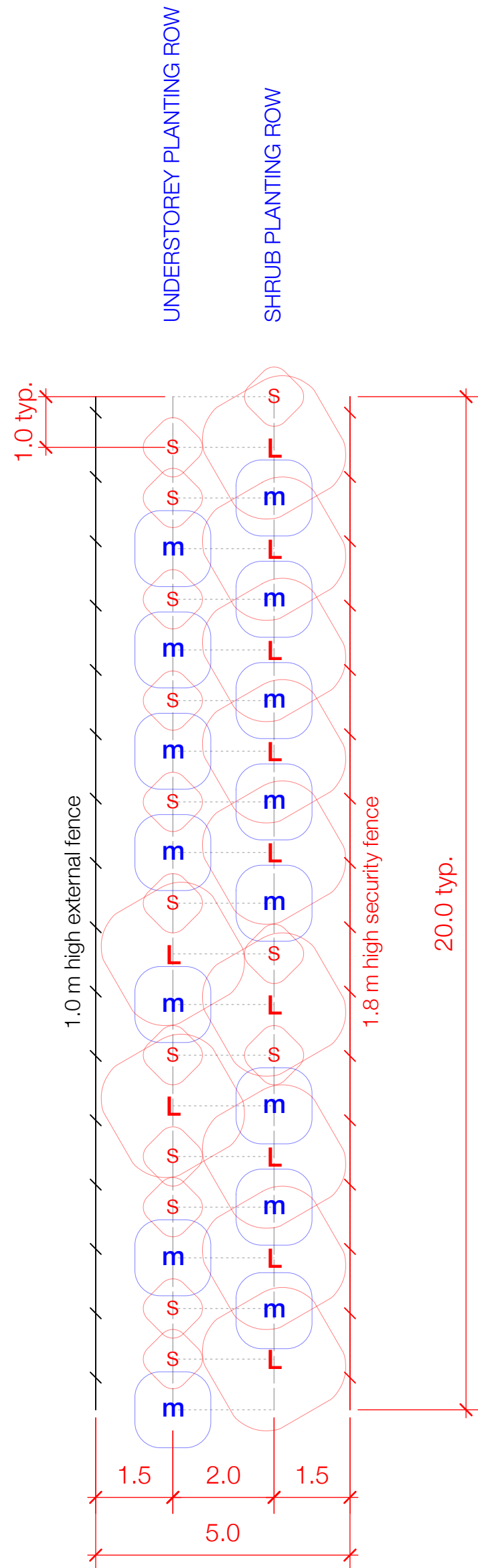
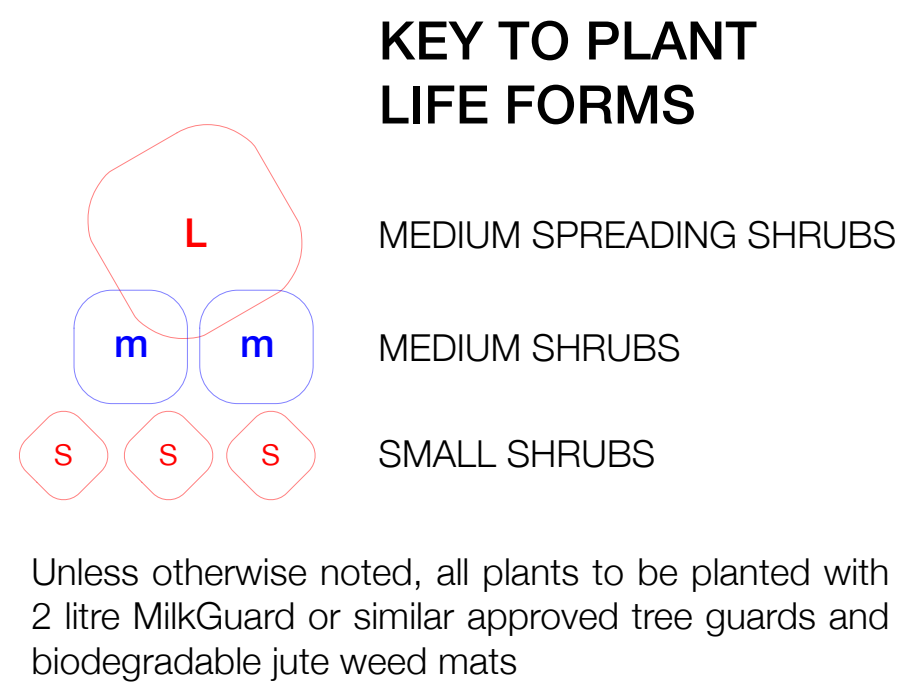
APPROVAL ISSUE - 18 August 2021

LIFE FORM	INDIGENOUS	SPECIES NAME	COMMON NAME	EST. MATURE HEIGHT	EST. MATURE SPREAD	POT SIZE	QUANTITY
MEDIUM SPREADING SHRUBS							
L	●	<i>Acacia oswaldii</i>	Milljee	3.0	3.0	Hiko	150
L	●	<i>Acacia brachybotria</i>	Grey Wattle	3.0	4.0	Hiko	200
L	●	<i>Acacia hakeoides</i>	Hakea Wattle	3.0	3.0	Hiko	200
L		<i>Callistemon 'Kings Park Special'</i>	Bottlebrush (variety)	2.5	3.0	Hiko	120
L	●	<i>Hakea tephrosperma</i>	Hooked Needlewood	3.0	3.0	Hiko	200
L		<i>Melaleuca decussata</i>	Totem Poles	3.0	2.5	Hiko	120

MEDIUM SHRUBS							
M	●	<i>Acacia cardiophylla</i>	Wyalong Wattle	2.5	2.5	Hiko	200
M	●	<i>Acacia montana</i>	Mallee Wattle	2.0	2.0	Hiko	200
M	●	<i>Atriplex nummularia</i>	Old Man Saltbush	2.0	3.0	Hiko	150
M	●	<i>Bursaria spinosa</i>	Native Blackthorn	2.5	2.0	Hiko	120
M	●	<i>Callistemon brachyandrus</i>	Pink Bottlebrush	2.5	2.0	Hiko	200
M	●	<i>Chenopodium nitrariaceum</i>	Nitre Goosefoot	2.0	1.5	Hiko	120
M	●	<i>Dodonaea viscosa subsp. angustissima</i>	Wedge-leaf Hop-bush	3.0	2.0	Hiko	160
M	●	<i>Senna artemisioides subsp. circinnata</i>	Spring Pod Senna	2.5	2.0	Hiko	200

SMALL SHRUBS							
S	●	<i>Acacia decora</i>	Western Golden Wattle	1.5	2.0	Hiko	200
S	●	<i>Acacia lineata</i>	Streaked Wattle	1.5	1.5	Hiko	150
S	●	<i>Correa glabra</i>	Rock Correa	1.5	1.5	Hiko	150
S	●	<i>Enchylaena tomentosa</i>	Ruby Saltbush	0.8	1.5	Hiko	200
S	●	<i>Eremophila glabra</i>	Tar Bush	1.2	1.0	Hiko	200
S	●	<i>Indigofera australis</i>	Australian Indigo	1.2	1.5	Hiko	120
S	●	<i>Maireana brevifolia</i>	Yanga Bush	1.0	1.0	Hiko	120
S	●	<i>Philotheca myoporoides</i>	Long-leaf Waxflower	1.5	1.5	Hiko	120

TOTAL PLANTS QUANTITY 3,600



PLANTING SCREEN HEIGHT:
Mature design height of vegetation
buffer to est. max. 3.0 m high

External fence (nom. 1.0 m
high post & wire, stockproof)

Planting areas -- finished level of topsoil to be
generally 100-150 mm above surrounding existing
ground surface levels to ensure topsoil/planting areas
are free from waterlogging during wet periods.

Solar panel arrays (offset to boundary
fence varies — refer plan)

1.8 m high site security fence

2 TYPICAL VEGETATION BUFFER (SECTION)
Scale: 1:50

UNDERSTOREY
PLANTING ROW

SHRUB
PLANTING ROW

PLANTING SCREEN HEIGHT:
Mature design height of vegetation
buffer to nom. est. max. 3.0 m high

External fence (nom. 1.0 m
high post & wire, stockproof)

Solar panel arrays behind (offset to
boundary fence varies — refer plan)

1.8 m high site security fence (behind)

3 TYPICAL VEGETATION BUFFER (EXTERNAL ELEVATION)
Scale: 1:50

Notes

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Consulting Engineer
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Mob: 0407 514 353 eMail: danny.will@acenergy.com.au
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Proprietor



Project

Coleambally Solar Farm
1207 Donald Ross Drive Coleambally NSW

Drawing

**Landscape Screening
Plant Schedule & Sections**

Sheet 3 of 4

Local Authority Murrumbidgee Council

Scale As shown @ A1
Drawn CW Date 16 Aug 2021
Project # 21524 Drawing # 03
North



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LANDSCAPE WORKS CONSTRUCTION NOTES:

1 WORKS BY CIVIL/OTHERS

All construction & civil works incl. demolition, building works, bulk earthworks, drainage infrastructure, road pavements, solar panel arrays & associated infrastructure, fencing and other related works.

The civil contractor will ensure the following minimum depths of site topsoil are provided for the landscape works:

- Planting areas -- min. 150 mm depth 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 waterlogging during wet periods.

2 INSURANCES

Provide certificates of currency for Public Liability Insurance (min. \$20M) and Workcover insurance (min. \$10M) to the Superintendent prior to commencing works. Each certificate of currency shall note the Proprietor as an interested party.

3 ROAD OPENING PERMIT

Apply to the responsible authority for a road opening permit (if required), incl. the payment of all fees and charges re same. An approved copy of the approved road opening permit shall also be provided to the Superintendent prior to works commencing on site.

4 LANDSCAPE PRE-COMMENCEMENT MEETING

The Contractor shall Initiate, coordinate and attend a pre-commencement meeting with Council, Proprietor & Superintendent, incl. achieving compliance with all Council & specified requirements, checklists, insurances, approvals, etc.

5 TRAFFIC MANAGEMENT

If required, prepare and submit to the responsible authority a traffic management plan to their satisfaction, incl. the payment of all fees and charges re same. An approved copy of this plan shall also be provided to the Superintendent prior to works commencing on site. Implement approved traffic management plan during the duration of the Works on site.

6 LOCATE EXISTING SERVICES

Locate all existing services prior to commencing works, contacting Dial Before You Dig, the project civil engineers/contractor and/or the relevant authorities re same as required. Identify all overhead services prior to commencing works.

7 SET OUT THE WORKS

Accurately set the works out as per the documentation set.

8 SOIL TESTING

Undertake soil sampling & testing from an approved ag. soil testing laboratory, incl. seeking recommendations for fertilising planting zone to improve soil NPK balance, trace elements, etc. Any recommended adjustments must be made to improve the soil conditions for native tree & shrub planting.

9 PLANTING AREAS PREPARATION -- INITIAL

These works to be done ideally in LATE FEBRUARY/MARCH of the planting year:

- Eradicate broadleaf, woody and noxious weeds from all planting areas using selective, non-residual herbicides. Manual removal of larger woody weeds may be required -- inspect site to confirm extent.
- Rip along planting line to 2.0 m wide to min. 300 mm depth with a Yeomans/Keyline plough with tynes at max. 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 break up soil clods and provide an appropriate planting medium.
- DO NOT WORK WET SOIL. Remove any deleterious material brought to the surface, consolidate soil and grade surface to even grades, free of any depressions or undulations.

10 PLANTING AREAS PREPARATION -- SECONDARY

These works to be done ideally in APRIL/MAY of the planting year:

- Eradicate broadleaf, woody and noxious weeds from all planting areas using selective, non-residual herbicides. Manual removal of larger woody weeds may be required.
- Re-cultivate planting lines to break up soil clods and provide an appropriate planting medium.
- DO NOT WORK WET SOIL. Remove any deleterious material brought to the surface, consolidate soil and grade surface to even grades, free of any depressions or undulations.

11 PLANT SUPPLY

All plants shall be healthy, free from any pests or diseases, be attractive, well grown and well formed plant specimens 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.

The planting contractor shall inspect all plants on delivery to site and shall certify in writing to the Superintendent that all plants supplied are as described above and are accepted by the planting contractor for planting in this project.

12 PLANTING

Set out plants as documented. 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.

13 FERTILISING

Refer maintenance section.

14 WEED MATS

Supply & install to each plant a 600 x 600 mm TreeMax or similar approved jute weed mat. Installation strictly to manufacturer's recommendations.

15 MILK CARTON GUARDS

Supply & install to nominated plant species TreeMax 300 x 95 x 95 mm 2 litre MilkGuard or similar approved plastic coated high density cardboard tree guard, incl. 2 no. x 600 x 8-10 mmØ securing stakes per guard, to all plants. Installation strictly to manufacturer's recommendations.

16 GRASSING (IF REQUIRED)

Some areas of grass seeding may be required and will be directed and quantified by the Superintendent.

Do not sow seed in periods of extreme heat, cold or wet, or where wind velocities are excessive unless otherwise approved. Seed mix shall be as follows:

- TURF-TYPE REGENERATING PERENNIAL RYEGRASS 95% by count
- TURF-TYPE TALL FESCUE 3% by count
- SUB CLOVER 1% by count
- WHITE CLOVER 1% by count

Seeding rate shall be min. 30 gms per m2. Apply seed evenly -- seed application shall be via direct drilling or by other approved methods. 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 Superintendent. 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.

17 PRACTICAL COMPLETION COORDINATION

The Contractor shall Initiate, coordinate and attend a Practical Completion meeting with Council, Proprietor & Superintendent, incl. achieving compliance with all Council & specified requirements, checklists, insurances, approvals, etc. NOTE: Min. 3 no. working days notice is required for a Practical Completion meeting.

18 LANDSCAPE ESTABLISHMENT MAINTENANCE PERIOD

Maintain the contract works from the Date of Practical Completion to the Date of Final Completion/hand-over.

Maintenance shall include care of the contract area by accepted horticultural practices, and rectification of any defects that become apparent during this period. Maintenance tasks to be carried out during the maintenance period shall include, but shall not be limited to, slashing, watering as required, weed control, pest & disease control & management, tree guard adjustment/replacement as required, rubbish removal.

WEED CONTROL -- PLANTED AREAS:

In planted areas, poison all broadleaf, noxious & woody weeds as they appear. Slashable grasses are to be retained generally between planting rows. Selective herbicides shall be nominated by the Contractor and approved by the Superintendent prior to use. Non-selective herbicide shall be Monsanto 'Roundup BIACTIVE' glyphosate-based herbicide -- standard 'Roundup' is NOT to be used. NO OTHER HERBICIDE SHALL BE USED WITHOUT PRIOR APPROVAL. All herbicide applications shall use NuFarm 'Spraymate or similar approved marker dye admixture and shall be handled and applied strictly according to manufacturer's recommendations, recommended rates and directions.

GRASS MANAGEMENT -- PLANTED AREAS:

Slash all areas between plants in rows and min. 1.5 m along all outside edges of all planting zones on a regular basis to maintain grass height to max. 100 mm. Slashing shall comply with all local Council and RFS guidelines re grass heights.

JUTE MAT & MILK CARTON GUARDS:

Maintain jute mat and milk carton 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 Superintendent 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. The Contractor shall replace all such plants identified.

WATERING:

The Contractor shall 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 (excluding Proteacea family) shall be fertilised with Scotts 'Osmocote® Plus Trace Elements: Native Gardens' (NPK 21.8 : 0.7 : 7.2) or similar approved at the manufacturer's recommended rates. Fertiliser shall be locally spread on soil surface around plants during planting operations. If unsure which plants are in the Proteacea family -- ASK.

Allow for one fertiliser application in Year 1 and second application in Year 2.

PESTS & DISEASES:

Regularly monitor all plants grasses planted/maintained under this contract for evidence of pest and/or disease attack -- identify and treat any/all problems arising.

RABBITS, HARES, KANGAROOS, ETC.:

Identify any predation by rabbits, hares and other pests with potential to damage or destroy the landscape works under this contract. Take all necessary steps, within local authority regulations and/or guidelines, to limit or eradicate predation. Maintain all tree guards in good condition to limit rabbit/hare/kangaroo/other damage to plants with installed guards.

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Project Managers

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Proprietor



Project

Coleambally Solar Farm

1207 Donald Ross Drive Coleambally NSW

Drawing

Landscape Specification Notes

Sheet 4 of 4

Local Authority Murrumbidgee Council

Scale N.T.S.

Drawn CW Date 16 Aug 2021

Project #	Drawing #	Rev
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21524	04	
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North



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