This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987.

The document must not be used for any purpose which may breach any copyright

ADVERTISED PLAN

Meadow Creek Solar Farm Landscape Strategy

June 2024



Final

Prepared by Horizon Studio
For Meadow Creek Solar Farm Pty Ltd

Prepared for Meadow Creek Solar Farm Pty Ltd.

Revision	Status	Date		
1	Draft for comment	31.05.2024		
2	Final for planning approval	04.06.2024		

Disclaimer

This report is for the use only of the client only, for the specific purposes to which it refers. Horizon Studio disclaims any responsibility to any third party acting upon or using the whole or part of its contents or reference there to that may be published in any document, statement or circular or in any communication with third parties without prior written approval of the form and content in which it will appear.

In preparing this report we have relied upon information concerning the subject property and/or study area provided by the client in preparing this report and have not independently verified this information except where noted. All images in this document are the property of Horizon Studio or public domain with credit provided unless otherwise noted. Every effort has been made to ensure the images contained in this document have been referenced to their respective owners.

Acknowledgment

Horizon Studio acknowledges the Traditional Owners of the land and waters considered in this report, their connection to Country and their on going contribution to the improving the environment and the health and well-being of all people.





143 Feathertop Track, Harrietville, Victoria, 3741

www.horizonstudio.com.au

ABN: 49329614760

Principal - Simon Jones, Registered Landscape Architect, (AILA)

simon@horizonstudio.com.au

0418306225

Introduction

Horizon Studio Landscape Architecture, (Horizon Studio), has been engaged by Meadow Creek Solar Farm Pty Ltd to prepare a Landscape strategy for the proposed Meadow Creek Solar Farm and associated transmission lines and infrastructure. The Landscape Strategy is required for the Planning Permit application, for the development of a solar energy facility. The proposed solar farm will be located at 1033 Oxley - Meadow Creek Road, Meadow Creek, will have a peak capacity of 332 Megawatts, (MW), and will cover an area of approximately 566 Hectares. The transmission infrastructure includes towers dispersed over approximately two kilometres and a substation to be located at the connection with the existing transmission lines running parallel with the Whorouly - Bobinawarrah road.

Landscape Strategy Intent

The purpose of this landscape strategy is to provide guidance for integrating the proposed solar farm infrastructure into the landscape with consideration of environmental, cultural and visual values, through on site planting.

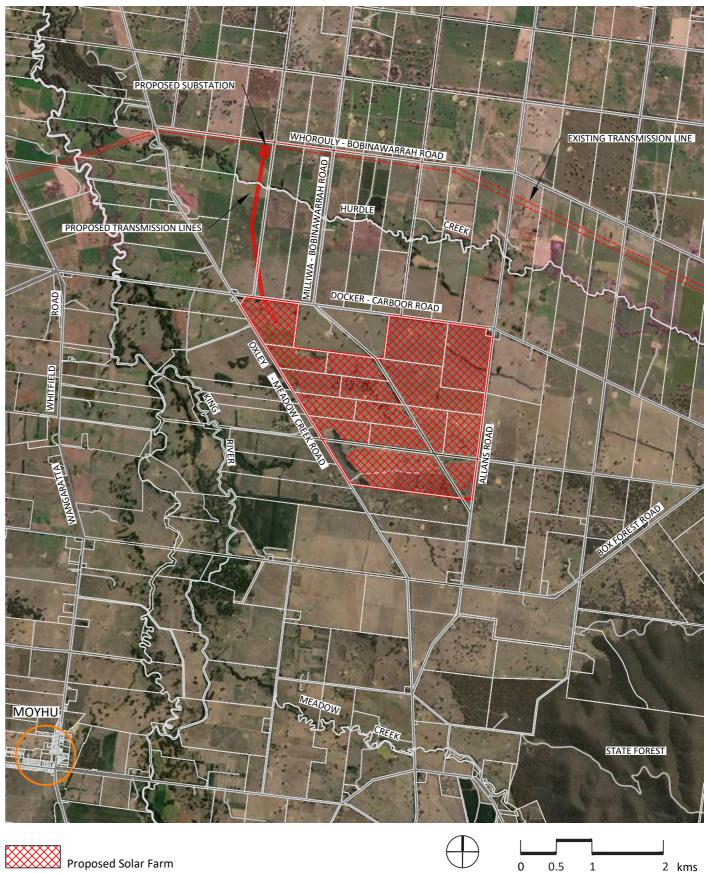
The key objectives of this landscape strategy are to:

- Mitigate the visual impact from the solar farm and transmission infrastructure.
- Recommend a landscape treatment that acknowledges the existing local character and visual quality.
- Recommend a landscape treatment that acknowledges the local ecology and climatic conditions.
- Provide guidance for the proper implementation and maintenance of the landscape treatment to ensure success.

Site context

Meadow Creek is located in the Upper King Valley, north east Victoria, and is approximately 27 kilometers south east of Wangaratta, the closest regional centre. Agriculture is the primary activity in the region with tourism also being a significant contributor to the regional economy. Nearby settlements include Moyhu, Oxley and Whitfield with clusters of dwellings scattered throughout the surrounding rural landscape. The King valley is also home to a number of renowned wineries and food producers and the natural environment supports a range of activities including bush walking, cycling, horse riding, paddling and other activities. Notable features in the Meadow Creek area include the King River and the Carboor State forest with Moyhu being the closest settlement. The location of the proposed solar farm, transmission lines and substation are shown in Figure 1. Local context.





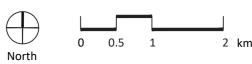


Figure 1. Local context

4. Existing site conditions

The site is comprised of a number of properties that have historically been used for cattle grazing and livestock feed pasture. While the majority of the land has been cleared for agriculture there are scattered trees across much of the site and two significant corridors of native trees that bisect much of the site. The scattered trees and those that make the tree corridors are primarily Red Gum, (Eucalyptus camaldulensis), or Yellow Box, (Eucalyptus melliodora), both of which are typical of the dominant Ecological Vegetation Class, (EVC 55) of the site area. The majority of the scattered trees are to be retained as are all of the significant tree corridors with the PV arrays arranged to avoid these.

There are a two minor waterways that cross parts of the PV array site, notably Sheep Station creek in the south-west corner, which has been protected from cattle grazing and partially revegetated with Blue Gum in recent times. The other unnamed waterway, in the north-west corner of the site has been impacted by grazing over the years however it feeds into a dam that supports a significant stand of mixed gum species, Red Gum and Yellow Box. Both of these waterways and the associated native vegetation has been avoided in the arrangement of the PV modules.

Similarly the site for the transmission lines and substation is primarily pasture with a lesser number of scattered trees than the PV array site. Hurdle Creek which is lined with Red Gum and Yellow Box bisects the transmission line corridor south of the proposed substation on the Whorouly Bobinawarrah Road. The substation site is completely pasture grass.

The roads in the local area have wide verges up to 10 metres which are lined with native trees along some sections, typically Red Gum, Yellow Box and Peppermint.

The Docker Carboor road immediately north of the PV array site has scattered stands of native trees along both verges as well as stretches of significant openings up to 400 metres long. Similarly the Oxley Meadow Creek road immediately west of the PV array site also has scattered stands of native trees along both verges and significant open stretches of grass. Allans Road which runs along the eastern boundary of the PV array site is heavily treed along both verges with openings only at property access points.

ADVERTISED PLAN



5. Landscape design rationale

The key objective of the landscape treatment is to mitigate impacts on landscape character and views associated with the proposed solar farm and transmission infrastructure. The relatively flat terrain combined with the scattered trees assist to limit potential impacts to the immediate surrounds. For the PV array the potential for impacts is limited to the immediately adjacent roadways and neighbouring properties. The extents for potential impacts from the substation and transmission infrastructure is limited to the immediately adjacent Whorouly Bobinawarrah road and nearby residences.

Taking into consideration the findings of the Landscape Visual Impact Assessment, Flora and Fauna report and Bushfires mitigation measures the following landscape treatment has been determined:

PV array site

- Implement a 5 metre wide vegetative screen around the perimeter of the PV array site with a 10 metre wide firebreak before the PV array.
- Screen vegetation to be primarily a mix of medium to large shrubs with a small percentage of medium to large trees reflecting the existing landscape character including scattered trees and wide open sky views.
- · The screening vegetation to be positioned in front, (outward facing), of the proposed 2.2 metre tall wire mesh security fence.
- No screening in front, (outward facing), of Sheep Station Creek area or the stand of trees on the banks of the dam at the end of the unnamed waterway in the north-west corner.
- Implement a temporary screen structure along a section of the Docker Carboor road to mitigate the potential impacts from glint and glare until the vegetation reaches an effective screening height, estimated to be 3 to 5 years from planting.

Substation site

- Implement a 5 metre wide vegetative screen along the eastern property boundary using a mix of medium to large shrubs with a small percentage of medium to large trees reflecting the existing landscape character including scattered trees and wide open sky views.
- Implement a vegetative screen along the north property boundary and within the transmission line easement using only small to medium shrubs with a maximum height of 3 metres.
- Implement a partial vegetative screen along the west boundary using stands of scattered trees to reflect the existing landscape character and views.

6. Plant selection

Plant species have been selected from the dominant Ecological Vegetation Class, EVC 55 - Plains Grassy Woodland, EVC47 Valley Grassy Forest, and EVC 68 Creekline Grassy Woodland, taking into account the site conditions and suitability for planting and establishment. Additional native shrub species suited to soil type and local climatic conditions have also been selected to provide a healthy mix of plants and to ensure an effective screen is achieved.

Refer to Sheet 6 for plant species and descriptions.

7. Planting size

It is recommended to use tubestock, (typically 50x50mm wide x 100mm deep) the advantage being the young plants will be able to adapt to the local conditions more quickly than larger more advanced plant stock. Additionally tubestock is easier to plant than potted stock, particularly where required in large numbers, and can be prepared by local suppliers.

8. Site preparation

- Prior to the commencement of any works the site must be cleared of any debris, stockpiles and any detritus including dead vegetation, e.g., logs or branches.
- Areas to be planted shall be eradicated of weeds and any existing vegetative growth (excluding native vegetation to be retained), shall be slashed to a height of 150 mm.
- Trash build-up and cut material shall be removed from the area prior to spraying with an approved knockdown herbicide incorporating a herbicide marker. Bi-active herbicide shall be used around wetlands and waterways. The herbicide shall be used according to the manufacturer's recommended rates and any off-target damage shall be rectified by the Contractor.
- · All areas for planting must be clearly delineated so that no vehicles can unintentionally enter.

9. Planting

- All plants are to be in good health, not bound in their containers and with adequate moisture in the planting medium. If stored the plants must be sufficiently watered to prevent drying out. Roots must be moist and contained in a moist medium at the time of planting.
- All plantings to be arranged in clusters in accordance with the Typical planting arrangement, Sheet 5.
- Planting must be in accordance with the Typical Planting detail, Sheet 5
- Each plant is to be watered thoroughly after planting, ensuring that the moisture has penetrated to the full depth of the roots.
- Each plant must be planted with a slow release fertilizer.
- Each plant must be mulched with an approved organic mulch, which must be placed in accordance with the Typical Planting detail.

10. Plant protection

Each plant must be protected from vermin and or unfavorable weather using a plant guard as per the Typical planting detail or other approved protection measure.

11. Plant management

- All planted areas are to be regularly monitored to ensure the soil around the plants remains moist for a nominal period of twelve weeks. The period of 'watering in' may vary according to the final site conditions and the time of planting.
- Planted areas are to be regularly monitored for weeds with spot spraying or hand removal the preferred method.
- Any plants which do not take and survive must be replaced.
- The planting must be monitored regularly with any unsuccessful plants replaced as soon as practical, to ensure an effective vegetative screen is achieved.









Legend

Property Boundary

2.2m high black mesh security fencing

5m wide screen planting

On site retained vegetation

On site vegetation to be removed

10m wide fire break

Internal roads

Solar Panel arrays

NOT FOR CONSTRUCTION



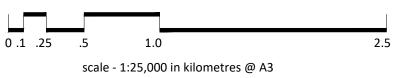
HORIZON STUDIO LANDSCAPE ARCHITECTURE e: simon@horizonstudio.com.au ph: 0418306225 Feathertop Track, Harrietville, Victoria, 3741.

This work is copyright and is owned by Horizon Studio andscape Architecture. Apart from any use permitted by the Copyright Act, 1968, no part may be copied, reproduced, published, modified or stored electronically without the prior ermission of Horizon Studio Landscape Architecture. This work is solely for the purpose and site in which it has been prepared by Horizon Studio Landscape Architecture. Any other use without the express permission of Horizon Studio Landscape Architecture is strictly prohibited.

Proposed transmission

line corridor

SHEET 2



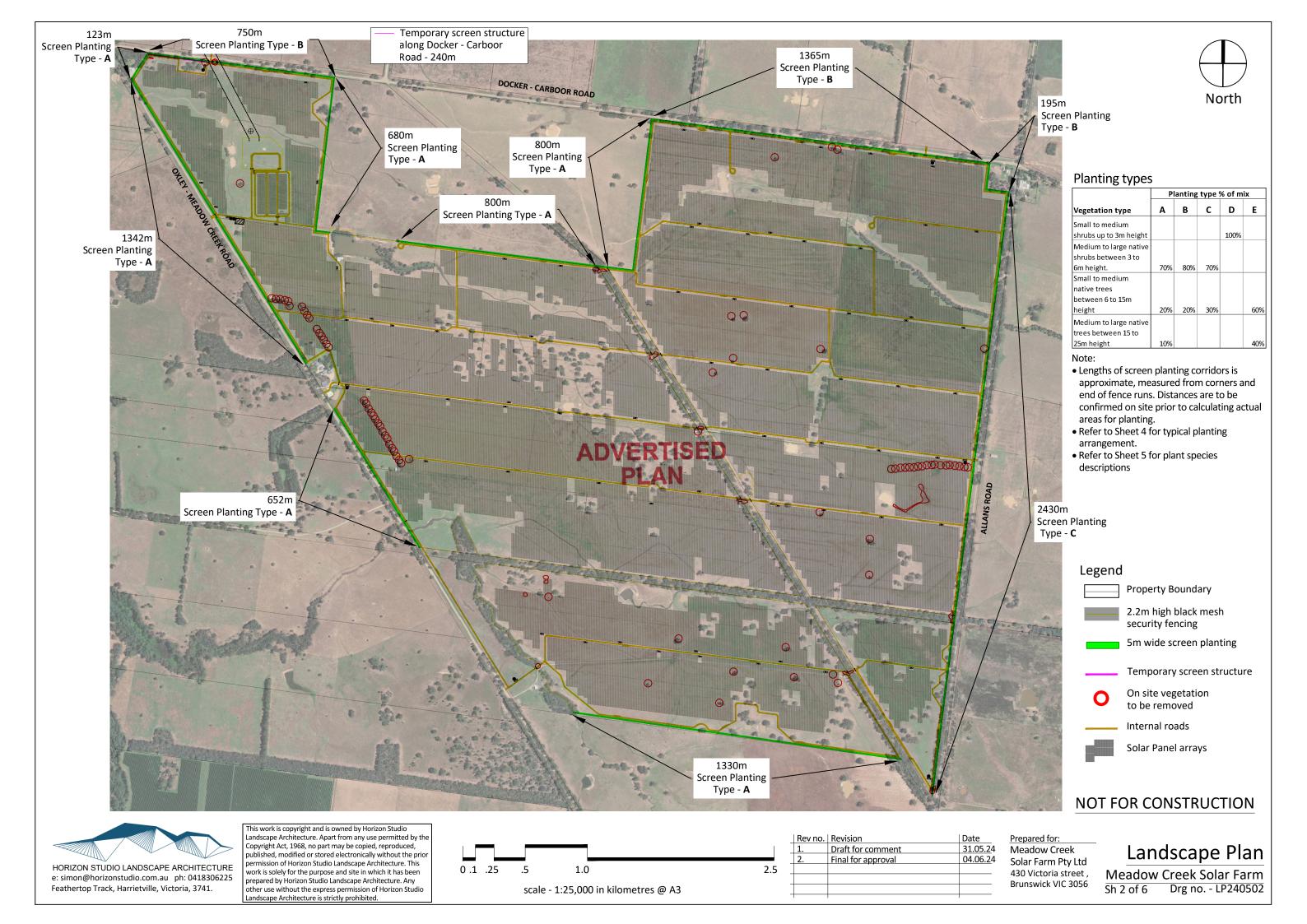
DOCKER - CARBOOR ROAD

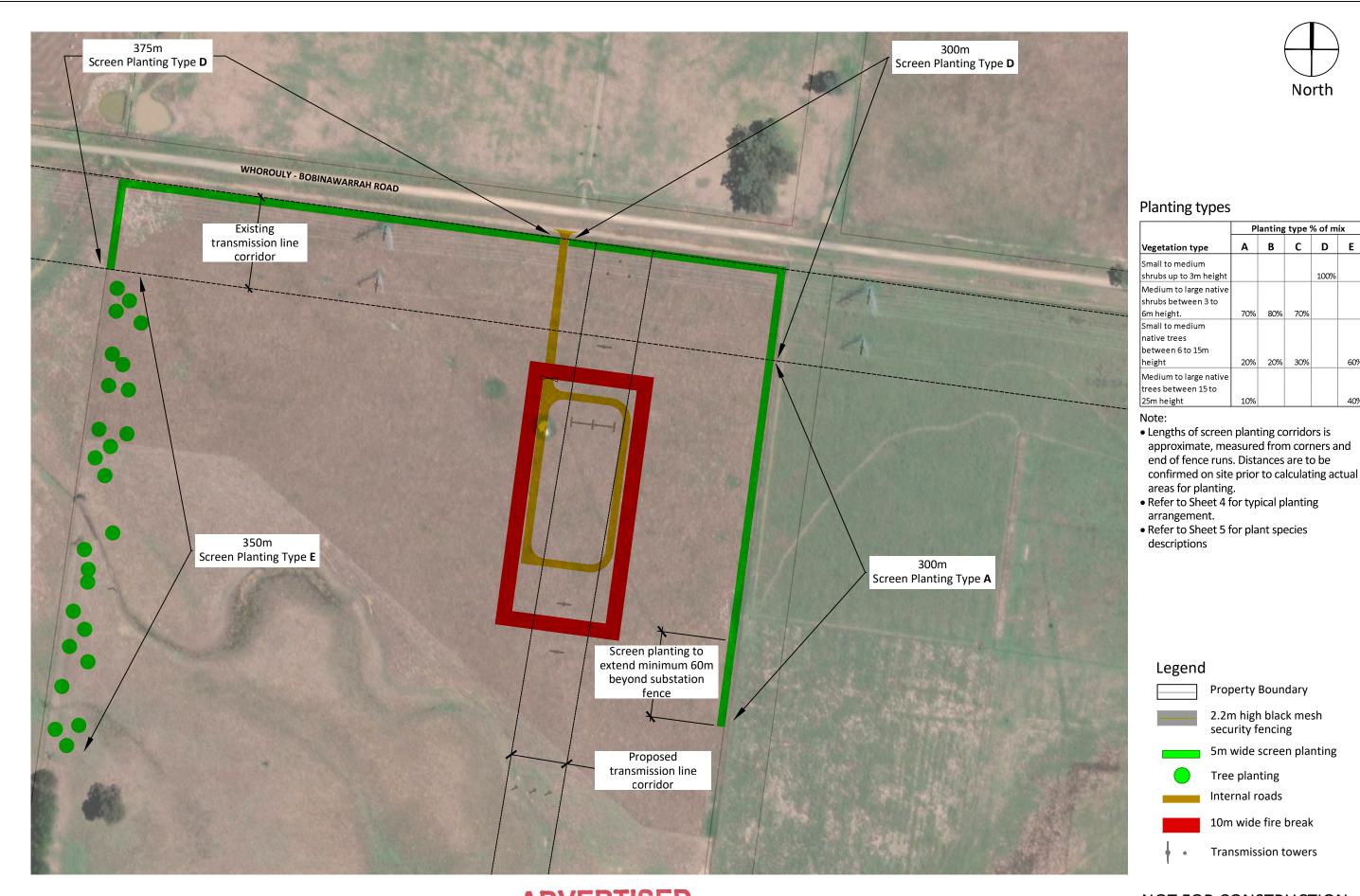
	Rev no.	Revision	Date		
	1.	Draft for comment	31.05.24		
	2.	Final for approval	04.06.24		
,		•			
			T		

Prepared for: Meadow Creek Solar Farm Pty Ltd 430 Victoria street , Brunswick VIC 3056

Landscape Plan

Meadow Creek Solar Farm Sh 1 of 6 Drg no. - LP240501



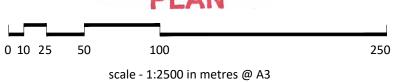




HORIZON STUDIO LANDSCAPE ARCHITECTURE e: simon@horizonstudio.com.au ph: 0418306225 Feathertop Track, Harrietville, Victoria, 3741.

This work is copyright and is owned by Horizon Studio andscape Architecture. Apart from any use permitted by the Copyright Act, 1968, no part may be copied, reproduced, published, modified or stored electronically without the prior ermission of Horizon Studio Landscape Architecture. This work is solely for the purpose and site in which it has been prepared by Horizon Studio Landscape Architecture. Any other use without the express permission of Horizon Studio Landscape Architecture is strictly prohibited.

ADVERTISED



∐Re	ev no.	Revision	Date
1.		Draft for comment	31.05.24
2.		Final for approval	04.06.24
		•	

NOT FOR CONSTRUCTION

Tree planting

Internal roads

10m wide fire break

Transmission towers

Sh 3 of 6 Drg no. - LP240503

Property Boundary

2.2m high black mesh security fencing

5m wide screen planting

North

Planting type % of mix

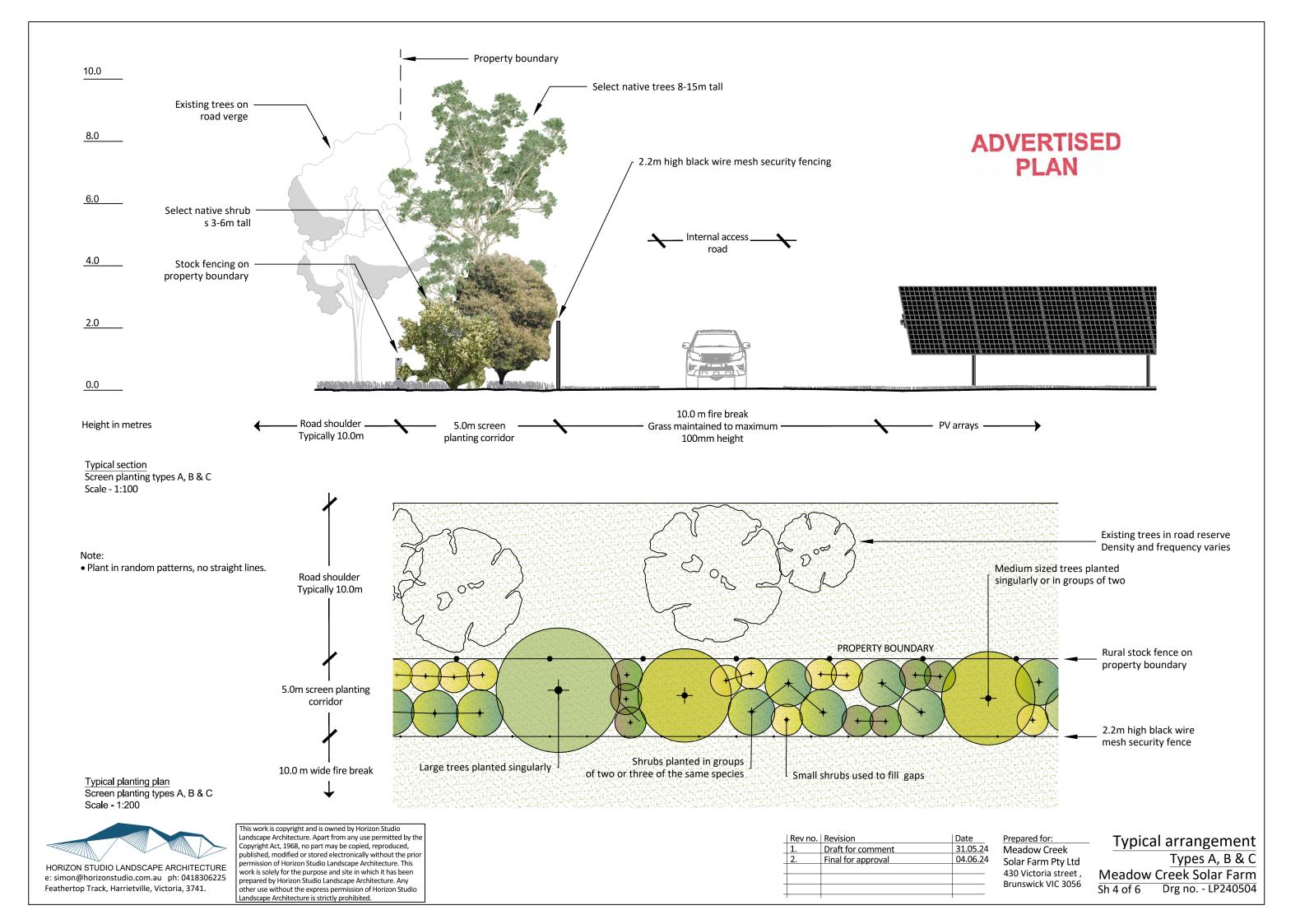
A B C D E

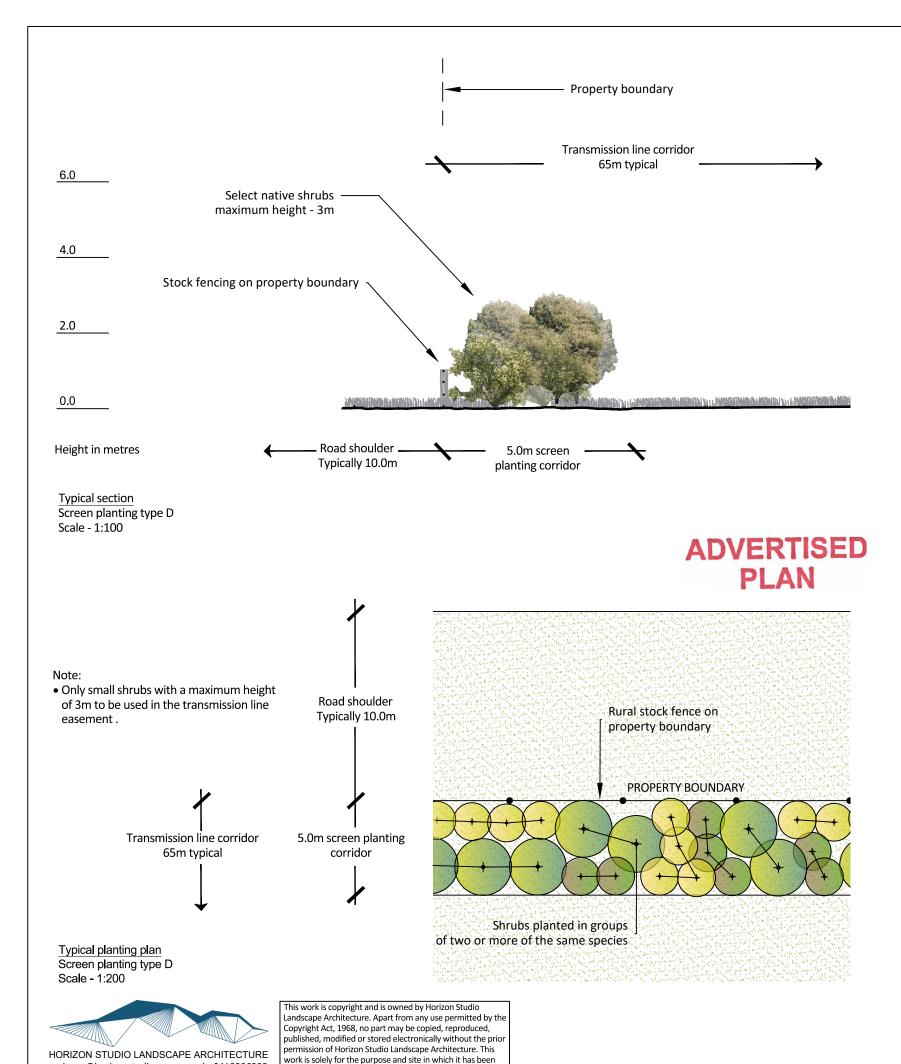
70% 80% 70%

20% 20% 30%

Prepared for: Landscape Plan Meadow Creek Solar Farm Pty Ltd 430 Victoria street, Meadow Creek Solar Farm

Brunswick VIC 3056





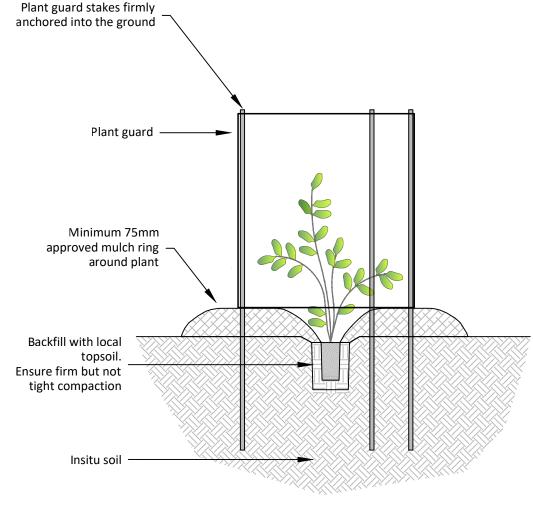
prepared by Horizon Studio Landscape Architecture. Any

Landscape Architecture is strictly prohibited.

other use without the express permission of Horizon Studio

e: simon@horizonstudio.com.au ph: 0418306225

Feathertop Track, Harrietville, Victoria, 3741.



Typical planting detail
Tubestock

Scale - 1:10

Note:

- Tubestock to be planted slightly below surrounding ground level, 20-30 mm.
- Ensure no soil containing roots is exposed to air after planting.
- Pull mulch away from stem and plant base to create a well.
- Ensure the plant foliage is free from the tree not guard, (not stuck underneath).
- Plant guard must be adequately secured by stakes or pins.

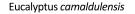
Prepared for:
Meadow Creek
Solar Farm Pty Ltd
430 Victoria street ,
Brunswick VIC 3056

Typical arrangement

Type D

Meadow Creek Solar Farm
Sh 5 of 6 Drg no. - LP240505

	Rev no.	Revision	Date		
	1.	Draft for comment	31.05.24		
	2.	Final for approval	04.06.24		
_					





Eucalyptus dives

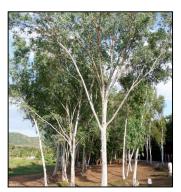


Eucalyptus radiata

Small to medium trees, 8 - 20 metres height



Acacia melanoxylon



Eucalyptus melliodora

ADVERTISED PLAN

Medium to large shrubs, 5 - 8 metres height



Acacia acinacea



Acacia obliquinervia



Acacia pycantha



Acacia pravissima



Small to medium height shrubs, to 3 metres height

Acacia paradoxa



Banksia marginata



Bursaria spinosa



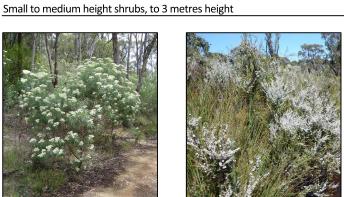
Cassinia aculeata

Botanical name	Common name	Size at maturity 20 years (height by width in metres)		Planting spacing		Pla	nting schen	ne		Ecological Vegetation Class, (EVC)
Tree species					Type A	Туре В	Type C	Type D	Type E	
Acacia melanoxylon	Blackwood	15x5	50mm Tube	1 per 4m2	✓	✓	✓		✓	47
Eucalyptus camaldulensis	River Red Gum	25x15	50mm Tube	1 per 8m2	✓				✓	55
Eucalyptus dives	Broad-Leaved Peppermint	20x10	50mm Tube	1 per 6m2	✓	✓	✓		✓	
Eucalyptus melliodora	Yellow Box	10x8	50mm Tube	1 per 4m2	✓	✓	✓		✓	55
Eucalyptus radiata	Narrow leaf Peppermint	20x10	50mm Tube	1 per 6m2	✓	✓	✓		✓	47
Shrub species										
Acacia acinacea	Gold-dust Wattle	5x3	50mm Tube	1 per 2m2	✓	✓	✓			55
Acacia obliquinervia	Mountain Hickory Wattle	8x6	50mm Tube	1 per 3m2	✓	✓	✓			
Acacia paradoxa	Hedge Wattle	4x3	50mm Tube	1 per 2m2	✓	✓	✓			55
Acacia pycnantha	Golden Wattle	8x5	50mm Tube	1 per 3m2	✓	✓	✓			55
Acacia pravissima	Ovens Wattle	5x3	50mm Tube	1 per 3m2	✓	✓	✓			
Banksia <i>marginata</i>	Silver Banksia	3x3	50mm Tube	1 per 2m2	✓	✓	✓	✓		
Bursaria spinosa var macrophylla	Sweet Bursaria	3x3	50mm Tube	1 per 2m2	✓	✓	✓			55
Cassinia aculeata	Common Cassinia	3x3	50mm Tube	1 per 2m2	✓	✓	✓	✓		47
Cassinia longifolia	Shiny Cassinia	3x3	50mm Tube	1 per 2m2	✓	✓	✓	✓		
Leptospermum continentale	Prickly Tea-Tree	2x2	50mm Tube	1 per 2m2				✓		47
Me la le uca parvistaminea	Rough Barked Honey Myrtle	3x2	50mm Tube	1 per 2m2				✓		

This work is copyright and is owned by Horizon Studio



Cassinia longifolia



Leptospermum continentale





Landscape Architecture. Apart from any use permitted by the Copyright Act, 1968, no part may be copied, reproduced, published, modified or stored electronically without the prior ermission of Horizon Studio Landscape Architecture. This HORIZON STUDIO LANDSCAPE ARCHITECTURE work is solely for the purpose and site in which it has been prepared by Horizon Studio Landscape Architecture. Any e: simon@horizonstudio.com.au ph: 0418306225 Feathertop Track, Harrietville, Victoria, 3741. other use without the express permission of Horizon Studio Landscape Architecture is strictly prohibited.

Rev no.	Revision	Date
1.	Draft for comment	31.05.24
2.	Final for approval	04.06.24

Prepared for: Meadow Creek Solar Farm Pty Ltd 430 Victoria street , Brunswick VIC 3056

Landscape Plan Meadow Creek Solar Farm Sh 6 of 6 Drg no. - LP240506