



Landscape and Visual Impact - Preliminary Assessment Report — FINAL

17th January 2025

THIS REPORT HAS BEEN PREPARED FOR COGENCY ON BEHALF OF SCC



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Quality Assurance

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1 INTRODUCTION

The Proponent, Syncline Energy, plan to submit applications for planning and environmental approvals for the development of the Syncline Community Cable (the Project) between Melbourne and Jeffcott, Victoria, a length of approximately 265 kilometres (km) (refer to *Figure 1*).

The Project proposes an underground, up to 525kV HVDC transmission line, buried in a trench approximately 1.6 metres (m) deep, and with a potential construction disturbance area approximately 20-30m wide. Converter stations are proposed at the ends of the project alignment at Melbourne and Jeffcott.

The preliminary assessment phase considers a 200m wide study corridor.

This report has been prepared by Peter Haack Consulting to provide a preliminary landscape and visual impact assessment (LVIA) for inclusion in the planning applications.

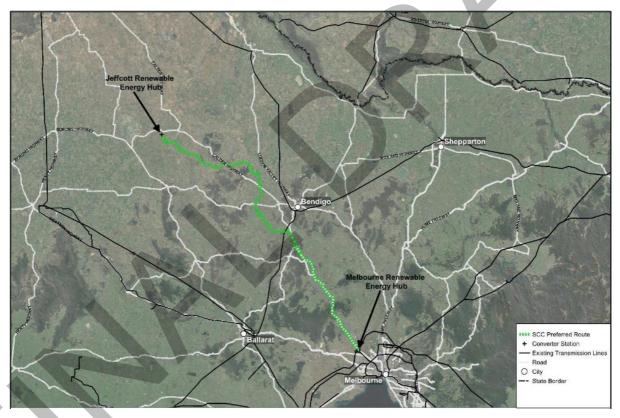


Figure 1 - Site location (Source: Cogency).



2 METHODOLOGY

This preliminary assessment report considers how the proposed components of the Project may impact on the landscape of the setting and surrounding visually sensitive receptors. Additionally, it provides guidance on the potential location of the of Project components, and the construction process, to reduce potential visual impacts.

The methodology as outlined below is undertaken at a higher level at the preliminary assessment phase than at a final assessment phase. However, the approach and principles are the same.

2.1 Approach

While there are no specific legislative requirements for the methodology of an assessment such as this in Victoria, the profession typically refers to the guidance offered by:

- Guidance for Landscape and Visual Impact Assessment (GLVIA), Third Edition, Landscape Institute and Institute of Environmental Management & Assessment (2013).
- Guidance Note for Landscape and Visual Assessment, Australian Institute of Landscape Architects (AILA) (2018).

The methodology used for this Project, described below, conforms generally to the direction offered by the above guidelines as well as other proven assessment methodologies.

This preliminary and final assessment reports assess the landscape and visual impact of the Project, that is the day-to-day visual effects on people's views.

The method to measure visual impacts is based on the combination of the sensitivity of viewers to the proposed change and the magnitude of the Project on that visual setting or view.

The following study components were included as part of this assessment:

- Review the Project with regard to potential visual impacts.
- Characterisation of the existing landscape and visual setting.
- Qualitatively assess:
 - Visual modification at key viewpoints How would the Project contrast with the landscape character of the surrounding setting?
 - Visual sensitivity at key viewpoints How sensitive would viewers be to the Project?
 - Potential night-lighting impacts.
 - Potential glare or glint impacts.
- Propose visual impact mitigation and management measures.

2.2 Assessment of landscape and visual impacts

The landscape and visual impact assessment is based on a detailed analysis of the landscape and visual setting and an assessment of the potential impacts of the Project on its viewshed.

The critical issues considered for this LVIA were:

• The number and location of sensitive viewing locations;



- The duration of the view either static (generally long term > 1 hour) and mobile (generally short term continually moving and static for no longer than 5 minutes);
- The degree to which the proposed works would be visible;
- The duration of the construction period for the underground cable and the length of time prior to re-establishment of a ground surface or removed vegetation;
- The quality of the landscape setting; and
- The degree to which the Project contrasts or is compatible with the visual character of the setting the visual modification level.

The assessment method assumed that if the Project would not be seen, there is no impact (refer to *Table 1*).

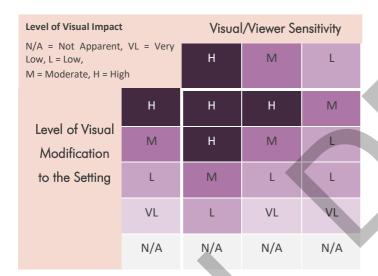
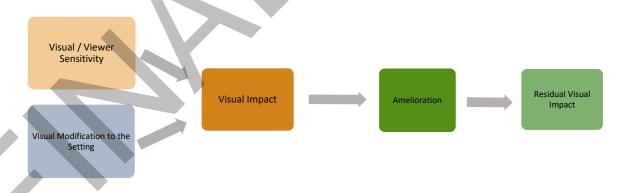


Table 1 - Visual impact determination matrix.



 ${\it Diagram~1-Visual~impact~assessment~process.}$



2.2.1 Visual sensitivity

In this report, the approach to the visual sensitivity is consistent with the USDAFS visual management system¹.

The visual sensitivity of development depends on a range of viewer characteristics. The primary characteristics used in this report include:

- Land use:
- Distance of the development from viewers; and
- Visibility from sensitive land use areas.

Visual sensitivity is a measure of how critically a change to the existing environment would be viewed from various land uses (refer to *Table 2*). Different activities have different sensitivity levels. For example, tourists on holiday would generally view changes to a landscape more critically than industrial workers in the same area. Similarly, individuals would view changes to the visual setting of their homes more critically than changes to the broader area in which they travel or work.

The next critical component to rating the visual sensitivity is the distance of the development from the identified visual use area. There are three viewing situations to consider:

- foreground (0 1 km);
- middleground (1 km 4 km); and
- background (> 4 km).

As the distance increases from a proposed development to a sensitive land use area, the level of viewer sensitivity decreases based on a perceptual dis-association based on a reduction in relative proximity. This is also influenced by the vertical visual prominence of the Project components, that is, the effect that height has on a component being visually conspicuous in the setting (refer to **Section 2.2.3 - Occupied field of view – Visual prominence**).

For the collector substations, the sensitivity threshold distances in *Table 2* are relevant.

In the case of the underground cable, with an overall very low height of soil stockpiles during construction, and no height following construction the sensitivity threshold distances will be significantly reduced with the extent of interest being confined to 500m from the construction corridor.

¹ Landscape Aesthetics – A Handbook for Scenery Management, Agricultural Handbook No. 701. United States Department of Agriculture Forest Service (1995).



	Foreground		Middleground		Background
Visual Use Area	Local Setting		Sub–Regional Setting		Regional Setting
	0 – 0.5 km	0.5 – 1 km	1 – 2 km	2 – 4 km	> 4 km
National/State Park*	Н	Н	Н	Н	M
Residences/Townships	Н	Н	Н	М	L
Recreation/Tourism	Н	Н	Н	М	L
Highways – "M" and "A"	Н	M	M	L	L
category/Tourist Routes					
Cemeteries	Н	M	M	L	L
Passenger Rail	M	M	L	L	V
Secondary Roads – "B" and	M	L	L	L	VL
"C" category					
Local Roads	L	L	L	VL	VL
Agricultural Areas	L	L	L	VL	VL
Industrial/Utility Areas	VL	VL	VL	VL	VL

Legend - H = High, M = Moderate, L = Low, VL = Very Low *Sensitivity reduces to low in distances greater than 10kms

Table 2 - Typical Viewer (visual) Sensitivity.

2.2.2 Visual modification to the existing setting

The level of visual modification resulting to a setting from a proposed development, or the degree to which the setting is modified, can be best measured as an expression of the visual interaction, or the level of visual contrast between the project and the existing visual environment.

A high level of magnitude, or a high degree of visual modification, will result if the major components of the project contrast strongly with the existing landscape.

A low level of magnitude, or a low degree of visual modification, will occur if there is little or minimal visual contrast and a high level of integration of form, line, shape, pattern, colour or texture values between the proposed development and the environment in which it sits. In this situation, the proposed development may be noticeable, but does not markedly contrast with the existing, already modified landscape (refer to *Table 3*).

The degree of magnitude or modification would generally decrease as the distance from the Project to various viewing locations increases.



Modification Level	Description
High	The proposal is highly visible and intrusive regarding the size, scale and geographical extent, and would disrupt views currently experienced from sensitive land use areas and/or strongly contrasts with the existing landscape setting which has limited capacity for change.
Moderate	The proposal partially intrudes regarding the size, scale and geographical extent or somewhat obstructs current views from sensitive land use areas and/or a noticeable compositional change to the existing landscape setting in which there is moderate capacity for change.
Low	The proposal is barely perceptible resulting in minor deterioration to the view currently experienced from sensitive land use areas; and/or results in a small change to the existing landscape setting in which change is possible without harm.
Very Low	There is minimal compositional contrast and a high level of integration of form, line, shape, pattern, colour or texture values between the proposal and the environment in which it sits. In this situation, the proposal may be noticeable but does not markedly contrast with the existing landscape setting.
Not Visible	There are no views of the proposal components and as such, there is no impact.

Table 3 - Typical scenarios for determining the visual modification level.

2.2.3 Occupied field of view – Visual prominence

To assist with the assessment of visual prominence, this report defines several viewsheds which are based on distance from the project. The methodology is based on the reduction of impact with an increase in distance between a given viewpoint and the project. The potential visual impact of the project will also, to a large extent, depend on how much of the central field of vision it occupies (refer to *Table 4*, *Table 5* and *Figure 2*).

Throughout the visual catchment, the degree of visual prominence will generally decrease as the distance from the development site to various viewing locations increases.

The quantitative assessment of visual prominence, i.e., how much is potentially visible, is intertwined with the distribution, height and density of vegetation as well as topography throughout the visual catchment, elements which can screen views of a development from a particular viewpoint. Visual prominence helps inform the process of determining the visual modification level, as well as the visual sensitivity threshold distance, as previously outlined in the above sections.

In areas of flat topography, the vertical field of view of the tallest soil stockpile, the subsoil stockpile, with a height of approximately 2m, will be less than 0.5 degrees, or of low visual prominence in distances beyond approximately 230m, and less than 0.25 degrees, or of very low visual prominence in distances beyond 450m.



Degrees of Field of View Occupied	Potential Visual Prominence – Horizontal Field of View
Less than 5°	Insignificant – Low Visual Prominence The development may not be highly visible in the view unless it contrasts strongly with the background.
5° – 30°	Potentially Noticeable – Moderate Visual Prominence The development may be noticeable. The degree that it intrudes on the view will be dependent on how well it integrates with the landscape setting.
Greater than 30°	Potentially Dominant – High Visual Prominence The development will be highly noticeable.

Table 4 - Horizontal line of sight – Visual impact / visual prominence.

Degrees of Field of View Occupied	Potential Visual Prominence – Vertical Field of View
0 ° - 0.25 °	Barely Discernible – Very Low Visual Prominence A very thin line in the landscape.
0.25 ° - 0.5 °	Insignificant - Low Visual Prominence A thin line in the landscape.
0.5° – 2.5°	Potentially Noticeable – Moderate Visual Prominence The development may be noticeable. The degree that it intrudes on the view will be dependent on how well it integrates with the landscape setting.
Greater than 2.5°	Potentially Dominant – High Visual Prominence The development will be highly noticeable, although the degree of visual intrusion will depend on the landscape setting and the width/spread of the object.

Table 5 - Vertical line of sight – Visual impact / visual prominence.

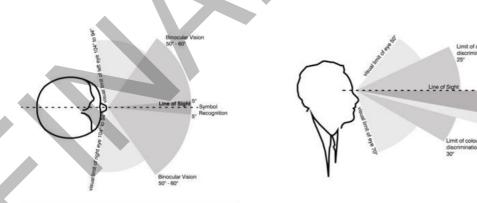


Figure 2 – Horizontal and vertical field of view.



2.2.4 Residual impacts

The effectiveness of the measures proposed in mitigating the landscape and visual impacts resulting from the Project is demonstrated by comparing the visual impact during initial operation with the residual impact when the proposed landscape measures have mostly matured, which is typically ten (10) years following initial establishment.

Generally, residual impacts would be reduced by at least one level where landscape measures have been proposed and matured due to filtering or inhibiting views to the Project.

2.3 Lighting impacts

AS-NZS-4282-2019 Control of the Obtrusive Effects of Outdoor Lighting provides standards for the assessment and limitation of lighting impacts. The standard identifies four environmental zones for exterior lighting which are categorised by the degree of artificial lighting within an area. For example, national parks would be categorised as an intrinsically dark landscape (Category A1), whereas a city centre with high levels of night-time activity would be categorised as a high district brightness area (Category A4).

The standard is aimed at the minimisation of light spill. Regardless of the existing brightness of a particular setting, it is a widely accepted principle that light spill, particularly upward light spill, be minimised wherever possible.

2.3.1 Lighting impact scenarios

Glow

Light glow is typically an upward projection of light that results in illumination of the night sky above a lighting source. It is intensified, or more visually apparent when foggy or cloudy as the light reflects or disperses of water droplets in the atmosphere. Glow is visible over significant distances.

Spill

Spill is light that falls on adjacent sensitive surfaces, both vertical and horizontal, and is most intrusive where it illuminates private open spaces or spills through windows.

Hot spots

Hot spots relate to concentrated areas of bright light in an otherwise less well illuminated setting. Hot spots will be most visible where are elevated.

Kinetic / movement

Lights that change colour or flash can draw the attention of a viewer. As the speed of the colour change or blink increases in speed, so too will its prominence of ability to draw attention.

2.4 Limitations of the assessment

There are these following limitations associated with this assessment:

The LVIA process aims to be objective and, as such, seeks to describe any changes factually.
 Potential changes resulting from the project have been defined. However, the significance of
 these changes requires qualitative (subjective) judgements to be made. Therefore, the
 conclusions to this assessment combine both objective measurement and subjective
 professional interpretation. This assessment has attempted to be objective, however, it is
 recognised that visual assessment can be highly subjective, and individuals are likely to
 associate different visual experiences to the study area;



- The impact assessment is focused on the current land uses and zoning; and
- Methodology of the construction works are currently unknown and dependent upon
 planning approvals. However, we have assumed that the impacts during construction would
 result in a similar degree of visual impact to that of the operational phase assessment
 findings, pre-amelioration.





3 COMPONENTS OF THE PROJECT

At this preliminary assessment phase, a resolved design is not assessed. Rather, this assessment considers how the proposed components of the Project, located over the Project area, may impact on surrounding visually sensitive receptors. Additionally, it provides guidance on the placement of Project components and the cable construction methodology in order to reduce potential visual impacts.

The Project proposes an underground electricity transmission line that will start at the Melbourne Renewable Energy Hub (MREH), run approximately 102km in the median strip of the Calder Freeway, including a section diverted though Harcourt, to Ravenswood, then run approximately 162km on private land to its terminus at the Jeffcott Renewable Energy Hub (JREH) (refer to *Figure 3*).

The section beyond the Calder Freeway median generally follows broad acre grazing and cropping farms, which are conducive to trenching. The Project also includes two converter stations - one at the Melbourne end and one at Jeffcott.

The transmission line will be an up to 525 kV HVDC underground line, which comprises three cables buried in a trench, approximately 1.6m deep. The impact area for the trenched sections will be approximately 20-30m wide, with a 200m wide study corridor to allow for micro siting of the cable. Where trenching is not suitable, such as at water crossings, the transmission line will be bored underneath using horizontal directional drilling (HDD).

The construction process will take approximately 4 years to complete.

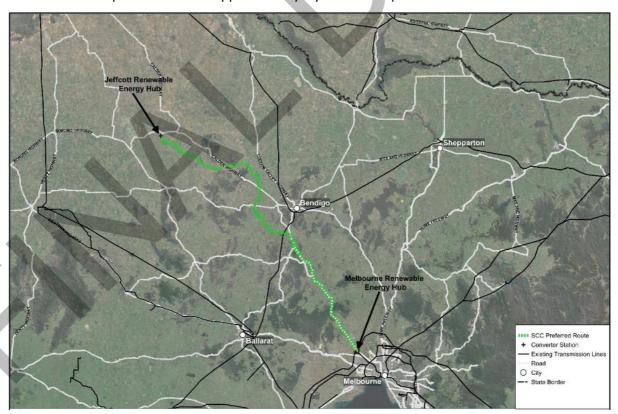


Figure 3 – Project route and convertor station locations.



3.1 Key features

The works and components associated with the Project include:

- Convertor stations at Calder Park (MREH) and Jeffcott (JREH) comprised of:
 - A large shed, housing DC convertors and operations and maintenance activities.
 - An AC yard comprising convertor coolers, transformers, filters and oil handling tanks.
 - Security fencing and monitoring systems.
 - Security and maintenance lighting.
 - Earthworks that will be required during construction.
 - Noise attenuation walls.
 - Landscaping / screening.
- The 525 kV HVDC underground line, including a cable to cable transmission station, underground joint bays and communication cabinets, with progressive reinstatement of grassing and removed trees and shrubs.

The most visible components of the Project that may result in visual impacts to surrounding sensitive receptors are outlined below.

3.1.1 Convertor Stations

A convertor station will be constructed at Calder Park adjacent to the existing, under construction MREH (refer to *Figure 4*, and at Jeffcott, where the JREH will be located in a rural setting (refer to *Figure 5*).

The convertor stations will have footprints of approximately 290m x 220m and a maximum height of approximately 18m (refer to *Figure 6*). They will comprise a large shed-like structure containing the DC hall, and an open AC yard (refer to *Figure 7*).



Figure 4 - SCC convertor station location adjacent to under construction MREH at Calder Park.





Figure 5 - SCC convertor station (JREH) located in rural setting near Wooroonook (Source: Google Earth).

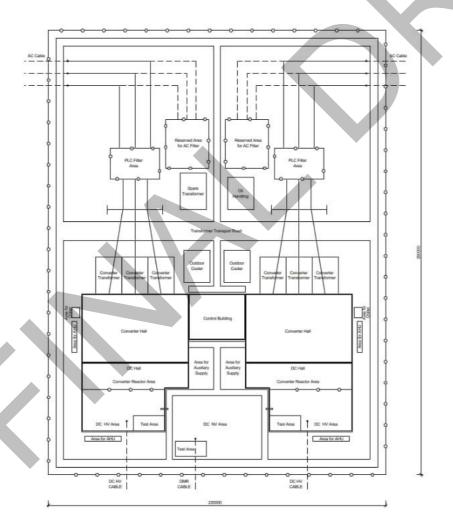


Figure 6 - Proposed layout of convertor station.





Figure 7 - Typical convertor station arrangement (Source: Siemens).

3.1.2 525 kV HVDC underground line

The following section describes the main physical components of the underground line, with the proposed route shown in *Figure 8*. The construction methodology varies depending on the environmental conditions and spatial parameters of the setting. These are described in *Section 3.2*.





Figure 8 - Proposed underground line route (Source: Google Earth).

3.1.2.1 Trenched areas

The underground cables will be laid in a 1.6m (width) x 1.6m (depth) trench. Three conduits containing cables will be laid in the base of the trench and it will be backfilled to ensure a level ground surface that can be reinstated to the original condition (refer to *Figure 9*).

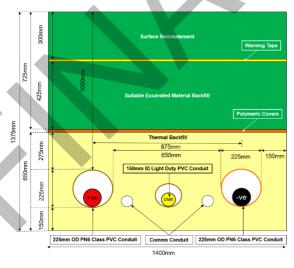


Figure 9 – Typical trenching arrangement (Source: Syncline Energy).



3.1.2.2 Waterways and dense vegetation

Where the alignment traverse's areas of dense vegetation, or is required to cross significant waterways, Horizontal Directionally Drilling (HDD) will be utilised. This construction technique allows for cable installation without trenching.

3.1.2.3 Freeway bridges

Throughout the Calder Freeway median section there are several locations where the alignment crosses minor drainage lines, roads and rail lines. In these instances, conduits will be attached to the underside of the bridge decks.

3.1.2.4 Cable-cable intermediate transition station

A cable-cable intermediate transition station would be located in the median strip of the Calder Freeway at Ravenswood where the cable heads west on its overland route.

It would be located on benching approximately $30m \times 50m$ and would consist of 2×40 foot shipping containers placed side by side, as well as one $\times 20$ foot shipping container for the storage of spare parts (refer to *Figure 10*).



Figure 10 – Typical Cable-cable intermediate transition station.

3.1.2.5 Communications cabinets

Small steel-clad cabinets will be located at approximately 10km intervals along the alignment. These will be approximately 1m (width) x 1.5m (length) x 1.7m (height). They will be coloured pale grey green and surrounded by a black, chainmesh security fence to 2m in height. A tilted solar panel with frame will be attached to the roof (refer to *Figure 11*).





Figure 11 – Typical form of proposed communications cabinet.

3.2 Underground cable construction process

The construction methodology is of direct relevance to the potential impacts of the underground cable.

3.2.1 Construction corridor

The corridors required for construction to accommodate trenching, stockpiles, construction activities and corridor access are defined as two widths:

- 20m wide corridor areas of constrained width and existing vegetation, primarily the Calder Freeway median.
- 30m wide corridor unconstrained parts of the Calder Highway median and overland areas.

3.2.2 Open trench size

The finished trench is 1.6m x 1.6m with the top 0.4m replaced as topsoil.

3.2.3 Topsoil and subsoil stockpiles

Topsoil stockpiles will be up to 1.2m in height.

Typical subsoil stockpiles will be less than 1.5m in height.

Stockpiles will be approximately 100m in length at any one time as progressive backfilling occurs.

3.2.4 Rate of advance

The typical rate of advance of the construction works will be 500m per day. Assuming that trenching is a six day per week operation, the rate of advance would be 3km per week.

The maximum rate of advance where the alignment is unconstrainted would be 700m per day.

3.2.5 Extent of construction activities at any one time.

The typical length of preconstruction clearing, trenching and installation and backfilling and regrading at any one time is:

Rural areas - 5km sections in operation at any one time.



 Calder Freeway median strip - 10km sections (including traffic management and access slip lanes).

For some specific sections we can drop to a 12m wide works area for, say, a 100m length of trenching.

3.2.6 Avoidance of vegetation.

For locations where vegetation exists, including along the freeway median, the approach to the retention is:

- 'thread the needle' between significant trees in the Calder Freeway median strip;
- to Horizontal Directionally Drill (HDD) where that's not possible; and
- to remove and replant minor trees and scattered shrubs plants.





4 PROJECT CONTEXT AND SETTING APPRAISAL

4.1 Project context – underground cable

The Project is comprised of three very different contexts, which are outlined following.

4.1.1 Calder Freeway median

The southern Calder Freeway median section extends from Holden Road at Calder Park to Harmony Way at Faraday, a distance of approximately 88km.

Over this extent, the median varies in width, as well as vegetation cover.

Rejoining the freeway after the Harcourt diversion, outlined below, the northern section of the alignment traverses a very wide median for approximately 4km until Ravenswood South, where it diverges from the freeway to head overland (refer to *Figure 12*).

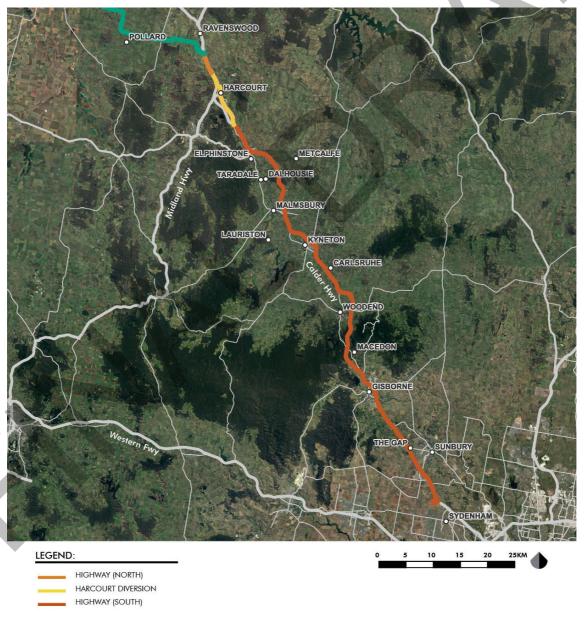


Figure 12 - Extent of Calder Freeway section – Calder Park to Ravenswood South (Source: Google Earth).



4.1.2 Harcourt diversion

The Harcourt diversion section extends approximately 11km from Harmony Way at Faraday to a location approximately 1km south Fogarty's Gap Road, where it once again joins the Freeway and is located within the median.

The alignment follows Harmony Way, though the centre of Harcourt, to Gaasch's Road, where it traverses a strip of land located between the Bendigo Rail line and the Calder Freeway (refer to *Figure 13*).



Figure 13 - Extent of Harcourt diversion (Source: Google Earth).

4.1.3 Overland corridor

The overland corridor section extends in a roughly southeast to northwest direction from the Calder Freeway at Ravenswood South to Wooroonook, a distance of approximately 137km.

Over this distance, the alignment traverses primarily rural land, skirting a number of small townships (refer to *Figure 14*).



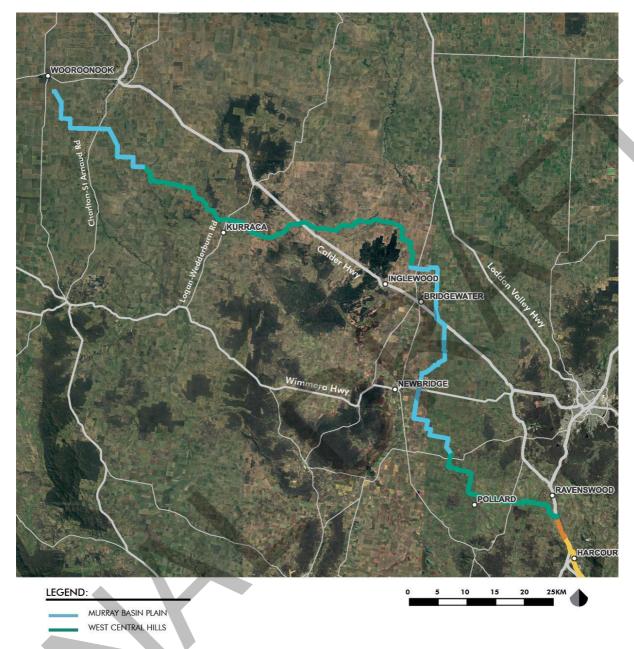


Figure 14 – Extent of Overland corridor and traversed landscape units (refer to Section 4.7) – Ravenswood South to Wooroonook (Source: Google Earth).

4.2 Project context – JREH and MREH convertor stations

The convertors are relatively discrete components of the project with small footprints.

4.2.1 MREH converter station

The MREH convertor station is located immediately adjacent to the northeast of the currently under construction MREH at Calder Park. It is located approximately 370m south of Holden Road, a currently unsealed road and approximately 680m west of the Melbourne-Bendigo railway line.



4.2.2 JREH converter station

The JREH convertor station is located on rural cropping and grazing land at Wooroonook, approximately 1.8km south of Borung Highway and 1.1km east of Wycheproof-St Arnaud Road.

4.3 Zoning and land use – underground cable

The common zones that the entire Project corridor traverses are:

- Transport Zones TRZ 1 and 2.
- Farming Zones FZ.

Overlays are of particular relevance to landscape and visual matters, and these are:

- ESO Environmental Significance Overlays.
- SLO Significant Landscape Overlays.
- VPO Vegetation Protection Overlays.

4.3.1 Zoning

4.3.1.1 Calder Freeway median

The Calder Freeway traverses the following municipalities:

- City of Hume where the freeway forms the western boundary;
- Shire of Macedon Ranges; and
- Mount Alexander Shire Council.

4.3.1.1.1 Transport Zone 2 (TRZ2)

Within all municipalities, the Calder Freeway is located within Transport Zone 2 (TRZ2) - Principal Road Network

The purpose of the zone relates primarily to the provision of transport and does not mention any requirements relating to landscape or visual values to be maintained. The purpose is:

- To provide for an integrated and sustainable transport system.
- To identify transport land use and land required for transport services and facilities.
- To provide for the use and development of land that complements, or is consistent with, the transport system or public land reservation.
- To ensure the efficient and safe use of transport infrastructure and land comprising the transport system.

4.3.1.1.2 Macedon Ranges Shire Council

Environmental Significance Overlay - Schedule 5 (ESO5)

The freeway is subject to an extensive overlay relating to the protection of the water supply catchment.

Vegetation Protection Overlay - Schedule 1 (VPO1) - Black Gum Areas



The Shire has a significant stand of remnant Black Gums (Eucalyptus aggregata) that exist in close proximity to the Woodend Township. Some of these remnant Black Gum areas are located along roadsides, and the overlay aims to protect, maintain and enhance these habitat and corridor requirements for indigenous fauna.

As the remnant trees are located in roadsides, the Project will not have any impact on them.

Summary

The only control of relevance to landscape and visual values is VPO1. However, as the protected Black Gum areas are along the roadsides, the Project's location within the central median will result in them not being disturbed.

4.3.1.2 Harcourt diversion

4.3.1.2.1 Mount Alexander Shire Council

Transport Zone 2 - Principal Road Network (TRZ2).

Harmony Way, which the corridor follows for much of the length of the diversion, is zoned TRZ2.

Farming Zone (FZ)

The relatively short section of the diversion that runs along the verge of Gaasch's Road is within FZ land.

Transport Zone 1 - State Transport Infrastructure (TRZ1)

North of Gaasch's Road, the corridor runs through a lineal parcel of land located between the TRZ2 land of the freeway and TRZ1 land of the railway line.

The purpose of this zone relates to the provision of transport services.

Environmental Significance Overlay - Schedule 5 (ESO5)

A very narrow strip of ESO5 land crosses the corridor a number of times. The purpose of this overlay is the protection of watercourses, including Bullock Creek.

Summary

There are no zones or overlays that specifically relate to the protection of landscape and visual values.

4.3.1.3 Overland corridor

The overland corridor section of the Project traverses local planning authority areas in the following order, from southeast to northwest:

- Shire of Mt Alexander.
- City of Greater Bendigo.
- Shire of Mt Alexander.
- City of Greater Bendigo.
- Loddon Shire Council.
- Buloke Shire Council.



4.3.1.3.1 Shire of Mt Alexander

Farming Zone – Schedule 1 (FZ1)

The Project corridor is primarily FZ1 land.

Rural Living Zone – Schedule 3 (RLZ3)

An area of RLZ3 is located within the 200m study corridor, to the northwest of Bendigo-Maldon Road and Hokins Road.

4.3.1.3.2 City of Greater Bendigo

Farming Zone (FZ)

The Project mostly traverses FZ land.

Environmental Significance Overlay (ESO) and Vegetation Protection Overlay (VPO)

ESO's or VPO's apply to numerous waterways/drainage lines, including Comins Channel (ESO) and Murphy Creek (VPO), which the corridor crosses a number of times.

4.3.1.3.3 Loddon Shire Council

Farming Zone (FZ)

The Project mostly traverses FZ land.

Transport Zone 2 - Principal Road Network (TRZ2)

The Calder Highway and B and C class roads that the Project crosses are zoned TRZ2.

Public Conservation and Resource Zone (PCRZ)

The Loddon River and its banks are zoned PCRZ.

Hope Creek is zoned PCRZ.

Both designations define these waterways as having attributes that contribute to landscape values.

Vegetation Protection Overlay (VPO)

A VPO applies to the vegetation lining the Calder Highway at Glenalbyn.

A VPO applies to the vegetation lining the Calder Highway between Bridgewater on Loddon and Derby.

4.3.1.3.4 Buloke Shire Council

Farming Zone (FZ)

The corridor is almost entirely FZ.

Transport Zone 2 - Principal Road Network (TRZ2)

C class roads that the Project crosses are zoned TRZ2.

Environmental Significance Overlay (ESO1)

The Avoca River and its banks are zoned ESO1, defining this waterway as having attributes that contribute to landscape values.



4.3.2 Land use

The land use of the overland corridor is predominately cropping and grazing,

4.3.2.1 Calder Freeway

The freeway is an "M" category road, the highest possible designation relating to the level of usage and significance to the State.

Although the freeway traverses a range of land uses, its land use is solely focused on the provision of transport. The Project is located centrally within this land use.

4.3.2.2 Harcourt diversion

The diversion follows Harmony way, a "C" category road that also supports tourist access to the vineyards and other attractions in the area.

Harmony Way traverses highly productive land uses, including orchards, as well as the central part of the Harcourt township.

The northern section of the diversion is located midway between the Calder Freeway reservation and the Melbourne to Bendigo rail line, a commuter, freight and tourism line.

4.3.2.3 Overland corridor

The overland corridor primarily traverses farmland, primarily cropping and grazing, with the intensity of operation reducing from the south to the north.

The corridor skirts a number of conservation reserves, such as:

- Inglewood State Forest Nature Conservation Reserve 870m west of the alignment centreline.
- Powlett Plains Recreation Reserve 1.4km north of the alignment centreline.
- Mt Korong Nature Conservation Reserve 700m north from the alignment centreline.
- Sunday Morning Hills State Forest 1.1km southeast of the alignment centreline.
- Kurraca I110 Bushland Reserve 20m north from the alignment centreline.
- Wychitella Nature Conservation Reserve 75m north from the alignment centreline.
- Nine Mile H.a 80m south from the alignment centreline.
- Coonooer East 1159 Bushland Reserve 610m north from the alignment centreline.

4.4 Zoning and Land use – JREH and MREH convertor stations

The convertors are relatively discrete components of the Project with small footprints.

4.4.1 MREH converter station

4.4.1.1 Zoning

The land is located in the Melton Council area and is zoned Green Wedge Zone – Schedule 3 (GWZ3).

There are no overlays in place that might be of relevance to landscape and visual matters.

4.4.1.2 Land use

The land use of the Project area and surrounds is open grassland.



Calder Park raceway is located approximately 1km to the east southeast, between the railway line and the Calder Freeway and a freeway service centre is located 780m to the east (refer to *Figure* 15).

A rail stabling facility is located to the west of the rail line, approximately 600m from the Project area.

The residential edge of Hillside is located 960m to the south. The MREH, when completed, will be directly located between the Project area and the residences.

4.4.2 JREH converter station

4.4.2.1 Zoning

The land is located in the Buloke Shire area and is zoned Farming Zone (FZ).

There are no overlays in place on the Project area or immediate surrounds that might be of relevance to landscape and visual matters.

4.4.2.2 Land use

The land use of the Project area and wider surrounding area is predominantly cropping and grazing (refer to *Figure 16*).

Wooroonook Lakes Wildlife Reserve, with a small camping area, is located approximately 1.3km to the northeast.

Borung Highway to the north is a "C" category road and Wycheproof-St Arnaud Road to the west a "C" category road.







Figure 15 – MREH convertor station setting (Source: Google Earth).



Figure 16 -JREH convertor station setting (Source: Google Earth).



4.5 Landscape form and vegetation – underground cable

The topography of the freeway corridor is highly modified because of its intended function as a high standard transport corridor. The elevation steadily increases to the freeway's high point in the Great Dividing Range, before gradually reducing in elevation to the north (refer to *Figure 17*, *Figure 18* and *Figure 19*).

Outside of the freeway, the underground cable corridor also continues to decrease in elevation as it progresses northwards. However, there is a slight increase in elevation in the vicinity of Mount Korong.

The overland section of the underground cable is located within a mostly flat to slightly undulating landscape comprised primarily of open pasture or crop land. Dense areas of trees and tall shrubs are confined to narrow strips lining sections of the surrounding road network and some paddock boundaries.

Occasional rises and undulating topography are found in areas near significantly elevated forms, such as Mount Korong.

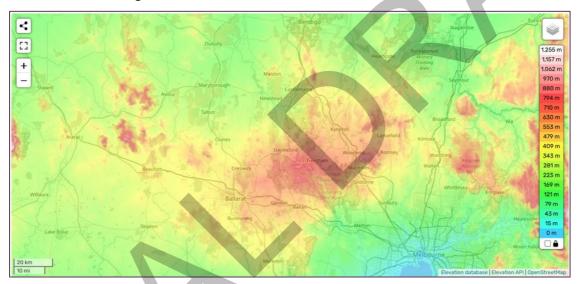


Figure 17 – Elevation of the southern part of Project area (Source: Open Street Map.

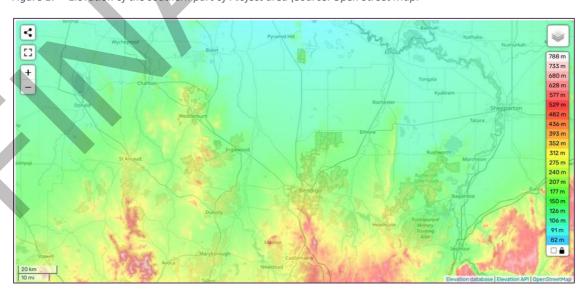


Figure 18 – Elevation of the northern part of Project area (Source: Open Street Map.





Figure 19 - Elevation profile of the project corridor (Source: Google Earth).

4.6 Landscape form and vegetation – MREH and JREH convertor stations

4.6.1 MREH

The topography of the Project area and surrounds are flat, with vegetation confined to open pasture with few trees to the west, but bands of vegetation along paddock boundaries to the east.

4.6.2 JREH

The topography of the Project area and surrounds are flat, with vegetation confined to seasonal crops. Trees are sparse and limited to roadsides.

The Wooroonook Lakes Wildlife Reserve to the northwest is heavily treed.

4.7 Landscape character - underground cable

Although the freeway traverses landscapes with significant natural attributes, this assessment does not consider these relevant for a number of reasons:

- The applicable zoning the freeway reservation is located in a Transport Zone (TRZ), with the purpose of this to facilitate transport movement.
- Overlays relevant to landscape and visual matters are located typically outside of the reservation.
- The modified character of the road corridor, particular the internalised median strip, and its ability to absorb change, particularly short-term change as evidenced in the more recent installation of wire rope safety barriers (WRSBs).
- The role of the road corridors in infrastructure collocation, including gas mains, water mains and HV overhead powerlines.

Where the Project alignment leaves the freeway reservation, at both the Harcourt Route option and Ravenswood, matters relating to landscape and scenic quality are relevant and are considered in the assessment.

4.7.1 Landscape Character Units

The Calder Freeway road reservation section of the Project alignment traverses the following landscape units:

Western Plains



- Foothills
- West Central Hills

Where the Project alignment leaves the freeway reservation at Ravenswood South, it alternately traverses the following landscape units (refer to *Figure 20* and *Figure 21*):

- West Central Hills
- Murray Basin Plains (type a) Northern District Plains Subtype
- West Central Hills; and
- Murray Basin Plains (type a)- Northern District Plains Subtype

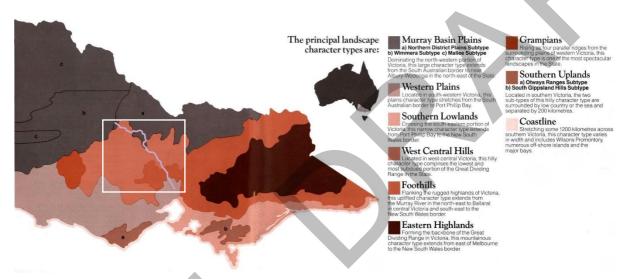


Figure 20 — Landscape Character Types of Victoria Map (Leonard and Hammond, 1984, pgs. 6 and 7).

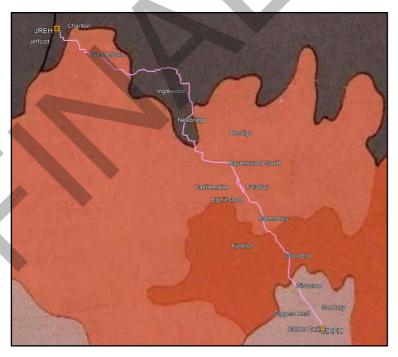


Figure 21 – Extract of Figure 35 - Landscape Character Types of Victoria Map.



4.7.1.1 West Central Hills

The landscape type sits between the Seymour- Murchison area and the eastern edge of The Grampians, running east-west for 210 kilometres, including the districts of Bendigo, Maryborough, St Arnaud and Avoca and to the country to the south of Ballarat.

The landscape type to the north is the "Murray Basin Plains" (Northern District Plains and Wimmera), to the south "Western Plains", to the west "Grampians" and to east/south-east it wraps around the "Foothills" landscape type.

This area contains a portion of the Great Dividing Range and features a range of elevations with occasional peaks and gentle to moderate slopes. There are wide belts of low country tending north-south bounded by hills. Climate variation and elevation differences result in considerable variation in vegetation types. Steeper slopes on hills retain native vegetation while areas that were subject to goldmining during early settlement have experienced significant loss of forests.

Agriculture (crops and pastoral) remain the most significant land use with some areas of forestry and pine plantations. There are many population centres within this landscape type with hobby farms a feature around the fringes of the larger population centres.

4.7.1.1.1 West Central Hills – southeastern part of Project corridor

The southeastern part of this landscape unit This unit extends from Ravenswood South on the Calder Highway in the southeast, to the locale of Shelbourne in the northwest.

- The topography is slightly undulating, with some exposed granite outcrops on upper slopes.
- There is dense rectilinear banding of vegetation along roads and property boundaries, with areas of scattered vegetation and regular blocks of dense vegetation.
- The regularly occurring, meandering watercourses, are lined with vegetation.



Figure 22 - Western Central Hills (southeast) – Typical landscape character between Bendigo and Maldon.



4.7.1.1.2 West Central Hills – northwestern part of Project corridor

This unit extends from the locality of Salisbury West in the southeast, to the locality of Yeungroon in the northwest.

- The topography is flat to slightly undulating, with the greatest topographic variation occurring between the elevated hills at Mount Korong and Kooyoora State Park.
- Dense rectilinear banding of vegetation lines roads and property boundaries, with areas of scattered vegetation, as well as large blocks of dense vegetation within the State Parks.
- Exposed granite outcrops occur on upper slopes of rising topography.
- The regularly occurring meandering watercourses are typically lined with vegetation.



Figure 23 - West Central Hills (northwest) - Landscape character in central part of unit, south of Mt Korong.

4.7.1.2 Murray Basin Plains (type a) – Northern District Plains Subtype

The landscape type extends about 320 kilometres from Wodonga to the Avoca River. It sits to the north of "West Central Hills" and "Foothills" landscape types and to the west of "Wimmera" landscape type. The Murray River border with New South Wales creates the northern edge of this landscape type.

To the east of this sub type the land surface is virtually flat with the flood plains of a complex stream network that experience seasonal volume variations flowing into the Murray River. To the west the topography remains flat, and the streams are less complex.

The mostly agricultural landscape contains very small pockets of remnant native grassland and woodland in roadside reserves and on steeper slopes. The agricultural areas of fruit and vegetable growing are under irrigation and there are few retained trees (red gum and grey box eucalytpts).



4.7.1.2.1 Murray Basin Plains - southeastern part of Project corridor

This part of the landscape unit extends from the locale of Woodstock West in the southeast to the locale of Bridgewater North in the northwest.

- The topography is mostly flat to slightly undulating.
- It is very sparsely treed, with any taller vegetation mostly confined to roadsides. However, there are occasional blocks of dense vegetation.



Figure 24 - Murray Basin Plains (southeast) - Landscape character of the unit, east of Newbridge.

4.7.1.2.2 Murray Basin Plains – northwestern part of Project corridor

This relatively short section of the landscape unit extends from the locality of Yeungroon in the southeast, to the locality of Wooroonook in the northwest.

- It is mostly flat and treeless with limited vegetation lining roads and paddock boundaries.
- Dense vegetation surrounds the lakes at Wooroonook Lakes Reserve.
- There are few waterways, but most are lined with a thin band of vegetation. However, the Avoca River is lined with a dense band of vegetation.





Figure 25 - Murray Basin Plains (northwest) - Landscape character in central part of unit, near the north westerly extent of the Project.

4.7.2 MREH and JREH Convertor Station

4.7.2.1 MREH

The MREH convertor station is located within the Western Plains landscape unit and the landscape character is typical of the that commonly occurring in the unit.

4.7.2.2 JREH

The JREH convertor station is located with the Murray Basin Plains (type a) – Northern District Plains Subtype and the landscape character is typical of the unit.

4.8 Scenic Quality

Scenic quality is somewhat subjective, but typically is a combination of a range of factors that have been found to contribute to the human appreciation of landscape. These factors are:

- Topographic variation and ruggedness;
- Strong patterning of vegetation; and
- The presence of water.

Agricultural landscapes are particularly subject to divergent opinions as to what constitutes scenic values. However, basic principles relating to diversity of topography, patterning of vegetation and the presence of water remain contributing factors to a higher level of scenic quality.



4.8.1.1 West Central Hills

Leonard and Hammond describe the scenic quality of the West Central Hills landscape character type as occurring within the Project area, as outlined below in *Table 6*.

Description	Moderate Scenic Quality	Low Scenic Quality
Landforms	Rounded hills, ridges and peaks that are not visually dominant. Broad shallow valleys.	Large expanses of indistinctly dissected landform that provide few landmarks with which to orient.
Vegetation	Predominately open forest of woodland combined with some natural openings that offer some visual relief, Vegetative stands that exhibit and range of size, form, colour, texture and spacing.	Extensive areas of similar vegetation and limited variation in colour and texture.
Waterforms	Prominent waterforms absent	Prominent waterforms absent

Table 6 – Scenic quality of the West Central Hills (Source: Leonard and Hammond).

4.8.1.2 Murray Basin Plains (type a) – Northern District Plains Subtype

Leonard and Hammond describe the scenic quality of the Murray Basin Plains (type a) – Northern District Plains Subtype landscape character type, as found within the Project area and its immediate surrounds, as outlined below in *Table 7*.

However, it should be noted that major permanent, treelined watercourses, such as the Loddon and Avoca rivers have attributes of high scenic quality.

Description	Low Scenic Quality
Landforms	Vast expanses of indistinctly dissected landforms that provide little illusion of spatial definition or landmarks with which to orient.
Vegetation	Extensive areas of similar vegetation. Few, if any trees. Very limited variation in colour and texture.
Waterforms	Waterforms mostly absent

Table 7 – Scenic quality of the Murray Basin Plains (type a) – Northern District Plains (Source: Leonard and Hammond).



4.9 Freeway reservation landscape / vegetation typologies

While varying typologies exist for construction within the central median of the freeway based on available width and the presence of vegetation, the LVIA methodology primarily considers the characteristics of the existing vegetation and the effect of its removal or retention on landscape and visual impacts.

4.9.1 Wide median – 30 – 40m

4.9.1.1 Scattered groups - large shrubs/small trees

In this scenario, the spacing of the plants in groups allows trenching to "thread the needle" between the groups of plants. Vegetation losses will be minimal and confined to a limited number of plants.



Figure 26 – Aerial view of example of scattered groups of large shrubs and small trees (Source: Google Earth).



Figure 27 - Road view of example of scattered groups of large shrubs and small trees.

4.9.1.2 Immature alternating low density large shrubs/small trees

In this scenario, the spacing of the plants in alternating groups allows trenching to "thread the needle". Vegetation losses will be minimal and confined to a limited number of plants. However,



given the relative immaturity of the existing plants, replacement plants will be able to achieve a similar size to the removed plants in a relatively short period of time.



Figure 28 - Aerial view of example of alternating groups of immature large shrubs and small trees (Source: Google Earth).



Figure 29 - Road view of example of alternating groups of immature large shrubs and small trees.

4.9.1.3 Dense offset large shrubs/trees

The spacing of the plants in alternating of offset groups allows trenching to "thread the needle" between the groups of plants. Vegetation losses will be minimal and confined to a limited number of plants.





Figure 30 - Aerial view of example of offset groups of dense large shrubs and trees (Source: Google Earth).



Figure 31 - Road view of example of offset groups of dense large shrubs and trees.



4.9.1.4 Deciduous trees – formal rows

The offset of the row of trees to one side of the median will allow for trenching to occur on the unvegetated side. Tree removal should be very limited.



Figure 32 - Aerial view of example of formal rows of deciduous trees (Source: Google Earth).



Figure 33 - Road view of example of formal rows of deciduous trees.



4.9.1.5 Dense large shrubs and trees – full median width

In this scenario, where the plants cover the full width of the median, an assessment will be undertaken to determine their landscape value. Where determined to be of value, the construction methodology will involve directional drilling under the vegetation, where there is inadequate trending width.



Figure 34 - Aerial view of example of dense informal large shrubs and small trees across full median width (Source: Google Earth).



Figure 35 - Road view of example of dense informal large shrubs and small trees.



4.9.1.6 Grassed only

Trenching will be employed in grassed sections, which constitute the majority of median conditions. The backfilled area will be seeded and a grass cover re-established.



Figure 36 – Road view example of the most commonly occurring landscape typologies along the freeway corridor – grass only.

4.9.2 Narrow median - 10 - 30m

4.9.2.1 Grass only

Refer to Section 4.6.1.6 above.

4.9.2.2 Asymmetrical dense linear banding – small trees and large shrubs.

The offset of the row of shrubs to one side of the median will allow for trenching to occur on the unvegetated side. Plant removal should be very limited.



Figure 37 - Aerial view of example of asymmetrical linear banding of large shrubs and small trees (Source: Google Earth).





Figure 38 – Road view of example of asymmetrical linear banding of large shrubs and small trees.

4.9.3 Very Narrow median - <10m

4.9.3.1 Grassed only

The section of very narrow median between Faraday and Harcourt North is the reason for the Harcourt diversion, as the width is insufficient to allow for construction activities, without significant disruption to road traffic.



Figure 39 – Road view of example of narrow, grassed median.



4.9.4 Waterway Crossings

4.9.4.1 Major river valleys

Major waterways, such as Deep Creek near Gisborne, will be directionally drilled to reduce impacts on riparian vegetation, as well as landscape impacts (refer to *Figure 40*).



Figure 40 – Deep Creek near Gisborne (Source: Google Earth).

4.9.4.2 Minor waterways

Minor waterways, such as Slaty Creek near Woodend that are not overly wide, will most likely be crossed via a conduit attached to the underside of the existing road bridge (refer to *Figure 41*).



Figure 41 – Road view of Slaty Creek near Woodend.



Where vegetation is lacking, trenching may be appropriate (refer to *Figure 42*).



Figure 42 – Example of an unvegetated waterway crossing that may be suitable for trenching.

4.9.5 Road/rail Overpass

4.9.5.1 Heavy vegetation

Overpasses with longer spans may require directional drilling to minimise impacts on existing vegetation. Where spans are shorter, a conduit attached to the underside of the existing road bridge may be possible (refer to *Figure 43*).



Figure 43 - Example of a crossing of a well vegation road/rail overpass (Source: Google Earth).



4.9.6 Harcourt Option

4.9.6.1 Treed roadsides

This typology occurs along Harmony Way, either side of the township. Directional drilling will be required to minimise landscape and visual impacts (refer to *Figure 44*).



Figure 44 – Aerial view of the treed roadside of Harmony Way (Source: Google Earth).



Figure 45 – Road view along Harmony Way of the well treed roadside setting.

4.9.6.2 Harcourt township

Through the township of Harcourt, the roadside vegation is less dense and established than that along Harmony Way. Construction techniques may include a combination of trenching and directional drilling (refer to *Figure 46*).





Figure 46 – Aerial view of the Harcourt township landscape typology (Source: Google Earth).



Figure 47 – Road view of Harmony Way in the centre of the township.

4.9.6.3 Scattered trees in grassland

North of Gaasch's Road, the corridor traverses a narrow land parcel between the Calder Freeway and the Melbourne-Bendigo railway line. The land is covered in often dense small to medium sized trees, primarily eucalypts (refer to *Figure 48*).

The random spacing of the plants will allow for the trenching to "thread the needle" between the groups of plants. Vegetation losses will be minimal and confined to a limited number of plants.





Figure 48 - Aerial view of the scattered vegation cover of the narrow parcel of land between the Calder Freeway and the Melbourne-Bendigo railway line (Source: Google Earth).



Figure 49 – Road view of the scattered vegation cover of the narrow parcel of land between the Calder Freeway and the Melbourne-Bendigo railway line.



5 PRELIMINARY VISUAL IMPACT ASSESSMENT

5.1 Visibility of the proposal

The visual catchment or viewshed is the area from which a proposed development may be visible. *Figure 50* and *Figure 51* indicate the theoretical visual catchment of the Project, or theoretical zone of visual influence (TZVI).

Given the early stage of the Project's design development, the TZVI has been generated based on a typical component height of 10m for the tallest convertor station components.

The extent of the TZVI is 5km radius from each location. This is due to the overall vertical field of view occupied by a 10m high component being less than 0.25 degrees, or of very low visual prominence, in distances beyond 2.5km. The approach taken is conservative.

It should be noted that the TZVI is based on topography only and does not consider the screening effects of vegetation or built form throughout the landscape. As a result, it is essentially demonstrating a theoretical or worst-case scenario.



Figure 50 – Preliminary TZVI of the MREH.





Figure 51 - Preliminary TZVI of the JREH.

5.2 Sensitive land uses

Due to the typically very low vertical profile of the Project components, the assessment is confined to sensitive locations within 2 km of the MREH and JREH and 500m of the underground cable component of the Project, the areas within which they will be most visible.

The land uses of relevance to this assessment are those considered to be of higher visual sensitivity, such as:

- Residences.
- Accommodation.
- Tourist roads and major routes.
- Recreation areas.
- National and State parks.

Table 2 shows the visual sensitivity levels of uses within the visual catchment of the project.

5.3 Preliminary visual assessment – underground cable

This section comprises a preliminary visual assessment of the Project from higher sensitivity viewpoints.

For assessment purposes, the Project alignment, or corridor, is broken into the following sections

- Calder Freeway;
- · Harcourt diversion; and
- Overland corridor. The overland corridor is then further broken into sections that relate to the landscape units (refer to *Figure 52*):
 - West Central Hills southeast;



- Murray Basin Plains (type a) southeast;
- West Central Hills northwest; and
- Murray Basin Plains (type a) northwest.

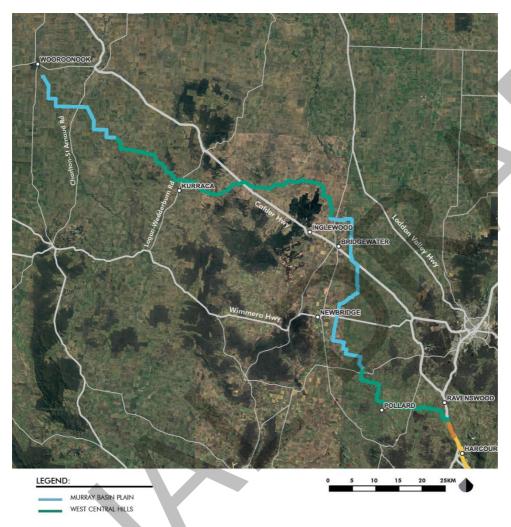


Figure 52 – Overland corridor landscape units.

5.3.1 Calder Freeway

The Calder Freeway median section extends from Holden Road at Calder Park to Harmony Way at Faraday, where it then diverts through Harcourt due to the constraints of constructing within a narrow freeway median, before commencing again near Harcourt North.

5.3.1.1 The landscape setting

The landscape setting of the Freeway reservation traverses a variety of landscapes, from the mostly flat and featureless Western Plains landscape type, to the moderate to high scenic quality Foothills landscape type, which includes the Macedon Ranges.



However, while the adjacent landscape types can be viewed from the freeway, its form and function results in it creating its own transport corridor landscape type, which includes all the typical infrastructure components that one would expect for a major road corridor.

The freeway median in particular is utilitarian and functional in nature, with landscaping limited and the safety of road user's paramount, as evidenced by the more recent introduction of wire rope safety barriers (WRSB) along its length.

5.3.1.2 Potential visual impact

Visual sensitivity levels

Within this setting, the highest visually sensitive uses are the road users of the "M" category freeway, which is a major commuter, transport and tourist route, as well as adjacent townships and residential uses. Within 2km of the Project, these uses would of high visual sensitivity.

The freeway passes through the following towns and settlements:

- Gisborne South.
- Gisborne.
- Woodend.
- Kyneton.
- Ravenswood South.

The freeway passes adjacent to the following towns and settlements:

- Calder Park.
- Sunbury.
- Diggers Rest.
- Macedon.
- Carlsruhe.
- Malmsbury.
- Elphinstone.
- Ravenswood South.

Visual fit and visual prominence

The freeway has been designed to ensure that visual and acoustic impacts are minimised for adjacent residential uses. As a result, the carriageways are well screened by acoustic mounds and fences as well as ameliorative screen planting.

As a result, the project is unlikely to be visible from impacts on adjacent residences are expected to be negligible.

The project construction process will be highly visible to road users resulting in a short term, high visual modification level. However, the works will be no more visually disruptive than the construction of the WRSB, with a limited extent of works visible at any one time.



The Project construction methodology will minimise the loss of median vegetation and the reinstatement of the ground surface and reseeding with grasses will result in a very short period of initial impact and a reduction in residual impact over a period of a few weeks.

Areas with a grass surface cover occupy 80% of the length of the Calder Highway corridor, with varying types of trees and shrubs occupying 20% (refer to *Table 8*).

As a result, when considering the proposed construction methodology that seeks to minimise tree loss, any vegetation impacts will be confined to a very small number of plants.





Vegetation Type (Highway)	Length (m)
Rows of deciduous trees	1,914
Offset loose rows trees + shrubs	6,785
Informal dense deciduous	90
Dense offset trees + shrubs	6,283
Dense full median trees + shrubs	1,866
Alternating rows, immature	1,654
Grass	72,658
TOTAL	91,250

Table 8 – Lengths of vegetation typologies.

The relatively small communications cabinets will be located every 10km and will be no different to other service cabinets in the median or verges, but can potentially be screened with vegetation, in coordination with the DTP.

The cable to cable connection will be visible within the wide median, but can be screened with vegetation given the available space.

Potential visual impact

Due to the lack of visibility, the impacts on adjacent residences are expected to be negligible.

While being visible to road users, the type of construction activities will not be visually inconsistent with regularly occurring works and maintenance in the freeway reservation.

The most visible changes would have been the removal of extensive areas of vegetation. However, the construction methodology is flexible enough to avoid existing vegetation.

The visual impacts will be restricted to the disturbance of the grass cover, which comprises most of the median. Its rapid reinstatement will result in a return to a condition very much like the existing in a very short period.

The construction visual impact is expected to be moderate to high, but of a very short duration, as the Project progresses from north to south, and with a very low impact expected following the reinstatement of the grassing.

5.3.1.3 Project design amelioration considerations

Directional drilling or boring under dense areas of existing vegetation and vegetation lined waterways and roads that traverse the corridor.

5.3.2 Harcourt diversion

This section of the corridor extends approximately 11km from Harmony Way at Faraday to Gaasch's Road, where it traverses a strip of land located between the Bendigo Rail line and the Calder Freeway.



5.3.2.1 The landscape setting

The surrounding landscape setting is comprised of undulating topography with exposed granite outcrops on the upper slopes.

Dense rectilinear banding of canopy vegetation occurs along property boundaries roads, particularly Harmony Way, which is the main entry to the township (refer to *Figure 53*).

Irregular but extensive areas of vegation line waterways and cover many hilltops and orchards, vineyards and pasture infill the areas between the tree cover.

The residential area of Harcourt varies in its vegetation cover with trees typically more sparse and lower in height than the surrounding areas (refer to *Figure 54*).



Figure 53 – Harmony Way to the south of Harcourt.





Figure 54 – Harmony Way in the Harcourt township.

5.3.2.1 Potential visual impact

5.3.2.1.1 Visual sensitivity levels

Within this setting, the highest visual sensitivity uses are the rural residences and residences in the township. Additionally, Harcourt has a tourism market relating to the orchards, vineyards and the nearby mountain bike track at La Larr Ba Gauwa Park, for which Harcourt is a hub. Therefore, the commercial and retail centre will also have a degree of sensitivity to change.

Within this section, high visual sensitivity uses include:

Townships/Settlements

- Harcourt township.
- Rural residences.

Within this section, moderate visual sensitivity uses include:

"C" Category Roads

Harmony Way

5.3.2.1.2 Visual fit and visual prominence

The Project will be highly visible to road users and residents abutting Harmony Way, resulting in a high visual modification level of a short duration. However, the works will be visually similar to other infrastructure works, such a roadworks and underground service installation in that they are short term, progress at a rapid rate, and result in minimal apparent change at the end of construction.

The Project construction methodology will minimise the loss of vegetation, including roadside trees along Harmony Way, and the reinstatement of pavement and ground surface, followed by reseeding with grasses where appropriate, will result in a very short period of initial impact and a reduction in residual impact over a period of a few weeks.

5.3.2.1.3 Potential visual impact

The key considerations influencing the level of visual impact in this section will be the ability to avoid trees through the use of directional drilling.

The Project will be highly visible to road users and residents abutting Harmony Way. However, the works will be visually similar to other infrastructure works, such a roadworks and underground service installation in that they are short term, progress at a rapid rate, and result in minimal apparent change at the end of construction.

The Project construction methodology will minimise the loss of vegetation, including roadside trees along Harmony Way, and the reinstatement of pavement and ground surface, followed by reseeding with grasses where appropriate, will result in a very short period of high initial impact and a reduction in residual impact to low over a period of a few weeks.

For the section located between the Calder Freeway and the Melbourne-Bendigo railway line, the visual impact during construction will be low due to the screening provide by the scattered vegetation and the limited views. The residual impact will quickly reduce to very low after the establishment of grassing.



5.3.2.2 Project design considerations

For the Harmony Way and Gaasch's Road sections, directional drilling or boring under existing roadside vegetation, as well as vegetation lined waterways will significantly reduce visual and landscape impacts.

For the section located between the Calder Freeway and the Melbourne-Bendigo railway line, the scattered arrangement of the existing vegetation will allow for the alignment to be fine-tuned to minimise tree removal.

5.3.3 Overland corridor - West Central Hills - southeast

This section extends from Ravenswood South on the Calder Highway in the southeast, to the locale of Shelbourne in the northwest.

5.3.3.1 The landscape setting

The landscape setting is comprised of slightly undulating topography with exposed granite outcrops on upper slopes.

Dense rectilinear banding of tall, often remnant vegetation occurs along roads and property boundaries. Lightly scattered vegetation occurs on pasture areas and there are only occasional areas of more extensive dense vegetation.

Within the landscape setting, waterways provide the most visual relief and attributes of landscape character. Waterways include:

- Comins Channel.
- Bradford Creek.
- Murphy Creek.

5.3.3.1 Potential visual impact

5.3.3.1.1 Visual sensitivity levels

Within this section, high visual sensitivity uses include:

Townships/Settlements

- Ravenswood South mostly located to the east of the Calder Highway.
- A rural living zone (RLZ3) to the northwest of Maldon-Bendigo Road and Hokins Road 60m to the north of the alignment centreline (refer to *Figure 56*).

Individual rural residences within 500m

This section of the overland corridor contains the greatest number of residences - 36 residences in total, of which 5 are located to the east of the Calder Highway at Ravenswood South and 15 are located in the rural living zone to the south of Lockwood South. Of the total number, 16 residences are located within 500m in the rural FZ land in this unit (refer to *Figure 55*).





Figure 55-Location of residences-West Central Hills-southeast.

Within this section, moderate visual sensitivity uses include:

Adjacent Reserves - PCRZ

• Eastville Bushland Reserve (850m to the southwest of the alignment centreline).

"C" Category Roads:

- Bendigo-Maldon Road (C283) (refer to Figure 57).
- Bendigo-Maryborough Road (C277) (refer to Figure 58).





 $\textit{Figure 56-Landscape setting of the proposed alignment 135m south of the \textit{RLZ3 land}.}$

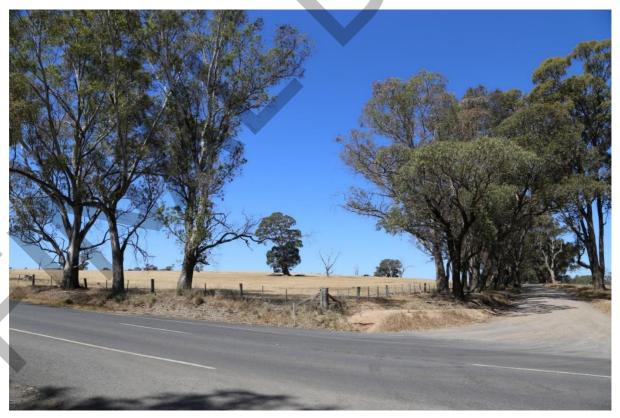


Figure 57 - Landscape setting of proposed road crossing at Bendigo-Maldon Road (C283).





Figure 58 - Landscape setting of proposed road crossing at Bendigo-Maryborough Road (C277).

5.3.3.1.2 Visual fit and visual prominence

Many of the landholdings that the Project will traverse are subject to seasonal variations in the condition of the ground plane, ranging from lush green pasture or crops during the cool season, to browned off pasture and tilled soils in the warmer seasons.

The Project will directionally drill under roads, waterways and areas of significant vegetation. The trenching construction process will be confined to a relatively small area and length of corridor at any one time, with the disturbed ground plane appearing like a tilled section of a paddock until reseeded grasses establish in a matter of weeks.

5.3.3.1.3 Potential visual impact

Potential visual impacts will be confined to the residences within 500m and the immediate area of major road crossings.

Residences

Apart from the residences in the RLZ area south of Lockwood South, most of the rural residences within the FZ areas are set within often dense surrounding vegetation, as well as a numerous outbuildings. As a result, views out from the external living space of the residence are often either blocked or heavily screened. As a result, views of the Project will be limited.

The residences in the RLZ area are typically surrounded by more open vegetation, allowing views out. However, scattered trees between the overland corridor and the residences results in filtered views of the construction process and completed works.



Given the construction process is short term, with the works progressing at a rapid rate, the visual impact during construction will be low to moderate, resulting in a low to very low impact after the establishment of surface grassing.

Road crossings

For the two major roads that the project crosses, road users will experience the Project at speed, typically 100kmh, and for a very short period of time.

The corridor avoids trees, or directionally drills under them when required. As a result, impacts will be limited to the construction process and the short period of time that the ground surface remains unvegetated

The impact during the construction process will be low to moderate, reducing to very low following establishment of surface grassing.

Reserves

Given its primary use as a conservation resource, rather than recreation, the impacts on Eastville Bushland Reserve will be very low.

5.3.3.2 Project design considerations

Key considerations to mitigate impacts on views include:

- Micro siting of the corridor to avoid trees.
- Direction drilling where micro siting is not possible.

5.3.4 Overland corridor - Murray Basin Plains (type a) - southeast

This section extends from the locale of Woodstock West in the southeast to the locale of Bridgewater North in the northwest.

5.3.4.1 The landscape setting

The landscape setting is sparsely treed, with those present mainly confined to roadsides and waterways. Dense vegetation lines the Loddon Riover and dense areas of vegation can be found in bushland or conservation reserves.

The topography is mostly flat to slightly undulating.

Within the landscape setting there are occasional lightly incised or defined waterway waterways that provide some visual relief and contribute to landscape character. These include:

- Little Creek mostly treeless at the crossing point.
- Loddon River densely treed (refer to *Figure 59* and *Figure 60*).





Figure 59 – Aerial view of proposed crossing of the Loddon River that will be directionally drilled (Source: Google Earth – 2023).



Figure 60 - The setting of the proposed Loddon River crossing as viewed from Bridgwater Serpentine Road.



5.3.4.1 Potential visual impact

5.3.4.1.1 Visual sensitivity levels

Within this area, high visual sensitivity uses include:

Townships/Settlements

- Newbridge 3.1km west of the alignment centreline.
- Bridgewater on Loddon 2.3km west of the alignment centreline.

Individual rural residences within 500m

11 residences, of which 2 are potentially abandoned (refer to *Figure 61*).

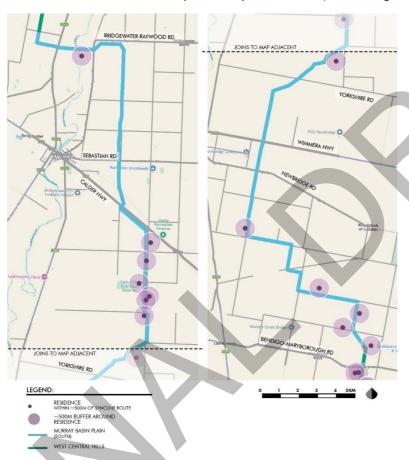


Figure 61 - Location of residences - Murray Basin Plains (type a) – southeast.

"A" Category Roads

• Calder Highway (A79) (refer to Figure 62).

Within this section, moderate visual sensitivity uses include:

Reserves

- Newbridge Cemetery 575m west of the alignment centreline.
- Derby I124 Bushland Reserve 690m west of the alignment centreline.
- Derby Recreation Reserve 630m west of the alignment centreline.



"B" category Roads

• Wimmera Highway (B240) (refer to *Figure 63*).

"C" Category Roads

• Bridgwater Serpentine Road (C274) (refer to Figure 64).



Figure 62 - Landscape setting of proposed road crossing at Calder Highway (A79).





Figure 63 - Landscape setting of proposed road crossing at Wimmera Highway (B240).



Figure 64 - Landscape setting of proposed road crossing at Bridgwater Serpentine Road (C274).



5.3.4.1.2 Visual fit and visual prominence

Many of the landholdings that the Project will traverse are subject to seasonal variations in the condition of the ground plane, ranging from lush green pasture or crops during the cool season, to browned off pasture and tilled soils in the warmer seasons.

The Project will directionally drill under roads, waterways and areas of significant vegetation. The trenching construction process will be confined to a relatively small area and length of corridor at any one time, with the disturbed ground plane appearing like a tilled section of a paddock until reseeded grasses establish in a matter of weeks.

5.3.4.1.3 Potential visual impact

Potential visual impacts will be confined to the residences within 500m and the immediate area of major road crossings.

Residences

The rural residences within the FZ areas are set within often dense surrounding vegetation, as well as a numerous outbuildings. As a result, views out from the external living space of the residence are often either blocked or heavily screened. As a result, views of the Project will be limited.

Given the construction process is short term, with the works progressing at a rapid rate, the visual impact during construction will be low to moderate, resulting in a low to very low impact after the establishment of surface grassing.

Road crossings

Major road users will experience the Project at speed, typically 100kmh, and for a very short period of time.

The area of vegetation lining the Calder Highway is subject to a VPO and the corridor will avoid these trees by directionally drilling under them.

For other major road crossings, micro siting or directional drilling will minimise tree removal.

As a result, impacts for all major roads will be limited to the construction process and the short period of time that the ground surface remains unvegetated

The impact during the construction process will be low to moderate, reducing to very low following establishment of surface grassing.

Reserves

Newbridge Cemetery and Derby Recreation Reserve are offset from the Project corridor and will experience a short-term moderate impact during construction, reducing to very low following ground surface restoration.

Given its primary use as a conservation resource, rather than recreation, the impacts on Derby I124 Bushland Reserve be very low.

Loddon River

The Loddon River is subject to a PCRZ.

The crossing location is not readily visible from adjacent sensitive land uses, therefore visual impacts will be very low. Given the Project will directionally drill under the Loddon River, there will be no long-term impacts to landscape character.



5.3.4.2 Project design considerations

Key considerations to mitigate impacts on views include:

- Micro siting of the corridor to avoid trees.
- Direction drilling where micro siting is not possible.

5.3.5 Overland corridor - West Central Hills - northwest

This section extends from the locality of Salisbury West in the southeast, to the locality of Yeungroon in the northwest.

5.3.5.1 The landscape setting

The landscape setting is comprised of flat to slightly undulating topography with the greatest topographic variation occurring between the elevated hills at Mount Korong and Kooyoora State Park. Exposed granite outcrops occur on upper slopes of rising topography.

Dense rectilinear banding of vegetation lines roads and property boundaries, with areas of scattered vegetation, as well as large blocks of dense vegetation within the expansive State Parks.

Within the landscape setting, the often well treed waterways provide the most visual relief and attributes of landscape character. Waterways include:

- Hope Creek.
- Ryan Creek (refer to *Figure 65*).



Figure 65-Typical landscape of a braided section of Ryan Creek near the project alignment.



5.3.5.2 Potential visual impact

5.3.5.2.1 Visual sensitivity levels

Within this area, high visual sensitivity uses include:

Townships/Settlements

There are no settlements within 2km of the alignment centreline. However, towns or settlements in the broader region include:

- Wedderburn 7km to the north northeast.
- Inglewood 5.2km to the southwest.

Individual rural residences within 500m

• 6 residences, of which 1 is potentially abandoned (refer to *Figure 66*).

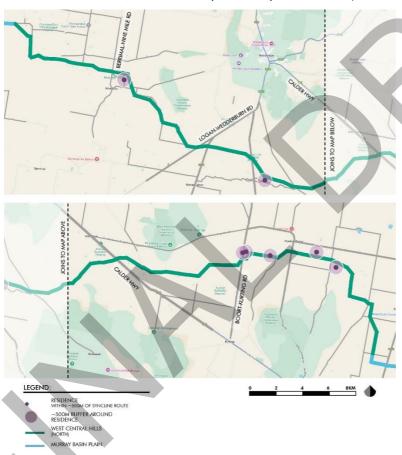


Figure 66 - Location of residences - West Central Hills – northwest.

"A" Category Roads

• Calder Highway (A79) (refer to *Figure 67*).





Figure 67 - Landscape setting of proposed road crossing at the Calder Highway (A79)

Within this section, moderate visual sensitivity uses include:

Reserves - PCRZ

- Inglewood State Forest Nature Conservation Reserve 870m west of the alignment centreline.
- Powlett Plains Recreation Reserve 1.4km north of the alignment centreline.
- Mt Korong Nature Conservation Reserve 700m north from the alignment centreline (refer to *Figure 68*).
- Sunday Morning Hills State Forest 1.1km southeast of the alignment centreline.
- Kurraca I110 Bushland Reserve 20m north from the alignment centreline (refer to Figure 69).
- Wychitella Nature Conservation Reserve 75m north from the alignment centreline.
- Nine Mile H.a 80m south from the alignment centreline.
- Coonooer East I159 Bushland Reserve 610m north from the alignment centreline.

Lookouts within Reserves

Formal or informal lookout points exist at the following elevated locations in public reserves:

- Mt Korong Summit Track (2.5km to the north).
- Melville Caves Campground and lookout Kooyoora State Park 12km south southwest.





Figure 68 - Mt Korong is a prominent feature with the landscape setting. The proposed alignment is located approximately 1.8km from its base.



Figure 69 - Proposed corridor crossing adjacent to Kurraca I110 Bushland Reserve.



"C" Category Roads

• Logan Wedderburn Road (C273).

Within this section, low sensitivity uses include:

Townships/Settlements

Towns or settlements in the broader region beyond 5km distance include:

- Wedderburn 7km to the north northeast.
- Inglewood 5.2km to the southwest.

5.3.5.2.2 Visual fit and visual prominence

Many of the landholdings that the Project will traverse are subject to seasonal variations in the condition of the ground plane, ranging from lush green pasture or crops during the cool season, to browned off pasture and tilled soils in the warmer seasons.

The Project will directionally drill under roads, waterways and areas of significant vegetation. The trenching construction process will be confined to a relatively small area and length of corridor at any one time, with the disturbed ground plane appearing like a tilled section of a paddock until reseeded grasses establish in a matter of weeks.

5.3.5.2.3 Potential visual impact

Potential visual impacts will be confined to the residences within 500m and the immediate area of major road crossings.

Residences

The rural residences within the FZ areas are set within often dense surrounding vegetation, as well as a numerous outbuildings. As a result, views out from the external living space of the residence are often either blocked or heavily screened. As a result, views of the Project will be limited.

Given the construction process is short term, with the works progressing at a rapid rate, the visual impact during construction will be low to moderate, resulting in a low to very low impact after the establishment of surface grassing.

Road crossings

Major road users will experience the Project at speed, typically 100kmh, and for a very short period of time.

Micro siting or directional drilling will minimise tree removal.

As a result, impacts for both major roads will be limited to the construction process and the short period of time that the ground surface remains unvegetated

The impact during the construction process will be low to moderate, reducing to very low following establishment of surface grassing.

Reserves

Most reserves are offset from the Project corridor and will experience a short-term low moderate impact during construction, reducing to very low following ground surface restoration.

Although its primary use is as a conservation resource Mt Korong Nature Conservation Reserve has a Summit Track that allows for expansive views over the landscape, including project corridor. Given



the extent of views, impacts for this viewpoint during construction will range from low to moderate during construction, to very low following establishment of surface grassing.

5.3.5.3 Project design considerations

Key considerations to mitigate impacts on views include:

- Micro siting of the corridor to avoid trees.
- Direction drilling where micro siting is not possible.

5.3.6 Overland corridor - Murray Basin Plains (type a) - northwest

This short section extends from the locality of Yeungroon in the southeast, to the locality of Wooroonook in the northwest.

5.3.6.1 The landscape setting

The landscape of the setting is mostly flat with occasional broad undulations. It is mostly treeless apart from some scattered vegetation lining roads and paddock boundaries

However, dense vegetation surrounds the lakes at Wooroonook Lakes Wildlife Reserve.

There are few waterways but those present are mostly lined with a thin band of vegetation. However, the Avoca River is lined with a dense band of vegetation.

Within the landscape setting there are occasional lightly incised or defined waterway waterways that provide some visual relief and contribute to landscape character. These include:

• Avoca River (refer to *Figure 70* and *Figure 71*).







Figure 70 - View to the crossing location on the Avoca River from Charlton – St Arnaud Road, 1.2km to the east.



Figure 71 - Aerial view of the proposed crossing point on the Avoca River that will be directionally drilled (Source: Google Earth - 2023).

5.3.6.2 Potential visual impact

5.3.6.2.1 Visual sensitivity levels

Within this area, high visual sensitivity uses include:

Individual rural residences within 500m

One residence within 500m of the corridor (refer to *Figure 72*).





Figure 72 - Location of residences - Murray Basin Plains (type a) - northwest.

Within this section, moderate visual sensitivity uses include:

Reserves

Western Wooroonook Lake Reserve/Wooroonook Lakes (Middle and East) Wildlife Reserve -1.5km west of the alignment centreline and Northern Convertor Station (refer to *Figure 73*).



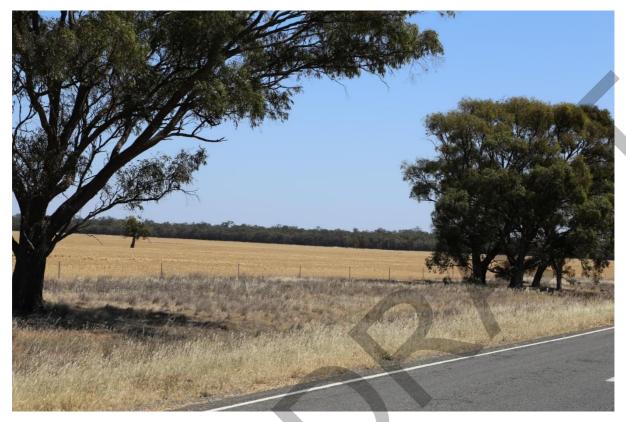


Figure 73 View northwest from St Arnaud-Whycheproof Road, opposite the proposed Northern Convertor Station site, of the dense vegation surrounding the Wooroonook Lakes Wildlife Reserve.

"C" Category Roads

• Charlton - St Arnaud Road (C272) (refer Figure 74).





Figure 74 - Landscape setting of proposed road crossing at Charlton - St Arnaud Road (C272).

Within this section, low sensitivity uses include:

Townships/Settlements

Towns or settlements in the broader region beyond 5km distance include:

• Charlton – 7.3km to the northeast.

5.3.6.2.2 Visual fit and visual prominence

Many of the landholdings that the Project will traverse are subject to seasonal variations in the condition of the ground plane, ranging from lush green pasture or crops during the cool season, to browned off pasture and tilled soils in the warmer seasons.

The Project will directionally drill under roads, waterways and areas of significant vegetation. The trenching construction process will be confined to a relatively small area and length of corridor at any one time, with the disturbed ground plane appearing like a tilled section of a paddock until reseeded grasses establish in a matter of weeks.

Potential visual impacts will be confined to the residences within 500m and the immediate area of major road crossings.

Residences

The single rural residence within 500m is set within dense surrounding vegetation. As a result, views of the Project will be limited.



Given the construction process is short term, with the works progressing at a rapid rate, the visual impact during construction will be low to moderate, resulting in a low to very low impact after the establishment of surface grassing.

Road crossings

Users of Charlton - St Arnaud Road will experience the Project at speed, typically 100kmh, and for a very short period of time.

The area of vegetation lining the road will be avoided by either micro siting or by directionally drilling under them. As a result, impacts will be limited to the construction process and the short period of time that the ground surface remains unvegetated

The impact during the construction process will be low to moderate, reducing to very low following establishment of surface grassing.

Reserves

Western Wooroonook Lake Reserve/Wooroonook Lakes (Middle and East) Wildlife Reserve is well offset to the north of the Project corridor. The campground to the north of the reserve will be screened from the project by dense vegetation covering the reserve. As a result, the Project will not be visible and there will be no impact on users of the camping area.

Avoca River

The Avoca River is subject to ESO1.

The crossing is not readily visible from adjacent sensitive land uses, therefore visual impacts will be very low. Given the Project will directionally drill under the river, there will be no long-term impacts to landscape character.

5.3.6.3 Project design considerations

Key considerations to mitigate impacts on views include:

- Micro siting of the corridor to avoid trees.
- Direction drilling where micro siting is not possible.

5.4 Preliminary visual assessment – MREH and JREH convertor stations

5.4.1 MREH convertor station

5.4.1.1 The landscape setting

The setting is highly modified, and the topography of the Project area and surrounds are flat, with vegetation confined to open pasture with few trees to the west, but bands of vegetation along paddock boundaries to the east.

5.4.1.2 Potential visual impact

5.4.1.2.1 Visual fit and visual prominence

The Project will be viewed in the context of existing infrastructure, with the proposed MREH to the south and west, the stabling yard and service centre to the west and the elevated form of Calder Park Raceway to the south. Although visible, the Project is visually consistent with the existing form and uses of the setting and will have a low visual modification level (refer to *Figure 75*).



5.4.1.2.2 Visual sensitivity levels

Highest sensitivity uses are confined to the normal density residential area at Hillside to the south, and the rural residence to the north and west of the Project site. Thes residential uses within 2.5km of the Project are of high sensitivity (refer to *Figure 76*).

Residences to the east of the Calder Freeway will have views to the Project screened by the acoustic fence lining the freeway's eastern edge. Therefore, these have not been considered.

5.4.1.2.3 Potential visual impact

Most of the rural residences are set within often dense surrounding vegetation, as well as a numerous outbuildings (refer to *Figure 77*). This results in views out from the external living space of the residence being either blocked or heavily screened. As a result, views of the Project will be limited.

Where the Project is visible, it will be viewed in the context of the extensive existing and proposed infrastructure (refer to *Figure 78* and *Appendix A*).

Given the lack of visibility from residences, the presence of the existing infrastructure in a heavily modified and a low scenic quality setting, landscape and visual impacts are expected to be low.

5.4.1.3 Project design considerations

The Project is effectively collocated with existing and approved infrastructure of a larger scale, but similar character, reflecting best practice.

Despite this, infrastructure at the urban rural interface should still aim for integration within the setting. Therefore, landscape amelioration to the Project's north and west boundaries is recommended to ameliorate views that may be possible from future sensitive uses (refer to *Figure 79*).







Figure 75 - View from Holden Road to the Project site showing works for the adjacent MREH underway.



Figure 76 - Location of photo location and sensitive residential viewpoints, to west of the Calder Freeway, within 2.5km.





Figure 77 - Example of a residence to the north of the Project site set within dense vegetation that screens view outward.



Figure 78 - Photo simulation view from Holden Road to the Project at the completion of construction.





Figure 79 - Photo simulation view from Holden Road to the Project with establishing vegetation at 5-7 years post construction.

5.4.2 JREH convertor station

5.4.2.1 The landscape setting

The topography of the Project area and surrounds are flat with occasional gentle undulations. The agricultural landscape comprises seasonal crops and trees are sparse and limited to roadsides.

By contrast, the Wooroonook Lakes Wildlife Reserve to the northwest is heavily treed.

5.4.2.2 Potential visual impact

5.4.2.2.1 Visual fit and visual prominence

The Project will be highly visible within its setting and will result in a high visual modification level (refer to *Figure 83* and *Appendix A*).

However, the DC convertor hall building will appear similar to a large rural shed.

5.4.2.2.2 Visual sensitivity levels

Highest sensitivity uses are confined to the three rural residences to the north of the Project site and the camping area to the north of Wooroonook Lakes Wildlife Reserve.

The residential uses within 2.5km of the Project are of high sensitivity (refer to Figure 80).

As "C" category roads located more than 1km from the Project site, Borung Highway and St Arnuad-Wycheproof Road are of low visual sensitivity.



5.4.2.2.3 Potential visual impact

Most of the rural residences are set within often dense surrounding vegetation, as well as a numerous outbuildings (refer to *Figure 81*). This results in views out from the external living space of the residence being either blocked or heavily screened. As a result, views of the Project will be reduced.

Scattered vegetation lining the Borung Highway will further screen views from the residences (refer to *Figure 82*).

Given the lack of visibility from residences, the visual impact is expected to be low to moderate.

5.4.2.3 Project design considerations

Despite the relative lack of visibility from the residences to the north, , infrastructure in rural interface should still aim for integration within the setting. Therefore, landscape amelioration to the Project's north and west boundaries is recommended to ameliorate views from residences and adjacent roads (refer to **Figure 84**).



Figure 80 - Location of residences and photo location.





Figure 81 - Example of a residence to the north of the Project site set within dense vegetation that filters views outward.



Figure 82 - View of scattered vegetation along the Borung Highway adjacent to the Project site.





Figure 83 - Photo simulation view from Borung Highway to the Project at the completion of construction.



Figure 84 - Photo simulation view from Borung Highway to the Project with establishing vegetation at 5-7 years post construction.



5.5 Lighting impacts

5.5.1 Underground cable

It is not expected that any operations associated with the underground cable component of the Project will require lighting, apart from emergency repairs to the cable to cable station and the communication cabinets.

5.5.2 MREH Convertor Station

The applicable environmental lighting zone for the MREH Project site, based on AS-NZS-4282-2019 is Category A3 – Medium District Brightness lighting area, which applies to inhabited urban interface, freeway and industrial areas.

Within the Category A3 area the Project does not result in a significant increase in the amount of visible light due to lighting being limited to areas of higher security and through the use of directional luminaries.

5.5.3 JREH Convertor Station

The applicable environmental lighting zone for the Project area based on AS-NZS-4282-2019 is Category A2 – Low District Brightness lighting area, which applies to inhabited rural areas.

Within the Category A2 area the Project does not result in an increased lighting impact due to there being no requirement for extensive operational lighting. However, some lighting will be required in secure areas.

Some components may have external lights which are only likely to be used for urgent maintenance works during hours of darkness and would not be permanently illuminated.

Lighting would be directional, and movement activated wherever possible.

Hot spots will be limited and would be ameliorated through screen planting. Upward glow would be reduced through limiting the number of lights, as well as through the use of directional luminaires.

5.6 Assessment against EES referral criteria

5.6.1 Individual referral criteria.

There are no criteria of relevance.

5.6.2 Combined referral criteria

5.6.2.1 Effects on landscape values of regional importance

Potential for extensive or major effects on landscape values of regional importance, especially:

- Where recognised by a planning scheme overlay.
 - The above ground components of the Project are not located on land subject to any overlay of relevance to landscape or visual matters.
 - The underground cable component of the Project will be bored (HDD) under vegetated areas subject to relevant overlays, thereby avoiding any vegetation removal.
- Declared as a distinctive area and landscape (DAL) under the Planning and Environment Act 1987

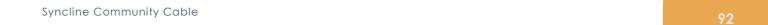


- A section of the underground cable along the Calder Freeway median is located within the Macedon Ranges DAL. However, it is located within land zoned TZ2, which allows for, and has previously been subject to, significant modification for infrastructure purposes.
- Within or adjoining land reserved under the National Parks Act 1975.
 - No Project components are within such land.
 - The Project does not adjoin such land.

5.6.2.2 Amenity impacts

Potential for significant effects on the amenity of a substantial number of residents, due to extensive or major, long-term changes in visual, noise and traffic conditions.

- The above ground components of the project will result in a very low to low landscape and visual impact on a limited number of adjacent residences.
- The underground component of the Project will have a very short-term impact prior to reinstatement of the ground surface. Following reinstatement, there will be no landscape and visual impact in areas of existing pasture/cropping, to a very low level of impact for the limited locations where small numbers of trees may be removed.





6 PRELIMINARY AMELIORATION STRATEGIES

Actions exist to potentially ameliorate the landscape and visual impacts of the Project. These are outlined in the following sections.

6.1 On-Site Actions

On-site actions relate to initiatives which can be undertaken within the boundaries of the Project area.

6.1.1 Perimeter screen planting

The most effective way to ameliorate views from high sensitivity viewpoints is to establish screen planting around the perimeter of the Project where existing vegetation is lacking. The proposed screen planting will comprise perimeters of varying densities, utilising a mixture of:

- shrubs to 2m in height;
- tall shrubs to 4m in height; and
- trees ranging in height from 6m-20m in height.

Both the MREH and JREH convertor stations have exposed boundaries which should be planted to ensure that the Project is well integrated with the landscape of the setting.

6.1.2 Material selection

For the DC Converter Halls, non-reflective cladding materials, finished in natural or neutral colours, as found in the landscape of the setting, should be used. A gradation from darker shades at ground level to lighter shades on upper facades is recommended.

The more slender and articulated form of the components of the switching substation do not require amelioration through the use of non-standard colours, as the standard "grey" finish is visually recessive against sky backdrops and is readily integrated though the use of tall, sparse planting.

6.2 Off-Site Actions

These actions relate to initiatives which can be undertaken outside of the project area and would require the consent of relevant landowners, utilities or authorities. However, given the extensive size of the Project area, it is apparent that all required amelioration can be achieved on-site, and that no off-site actions will be required.



APPENDIX A – PHOTO SIMULATIONS





Photo simulation view from Holden Road to the Project at the completion of construction.



Photo simulation view from Holden Road to the Project with establishing vegetation at 5-7 years post construction.



Photo simulation view from Borung Highway to the Project at the completion of construction.



Photo simulation view from Borung Highway to the Project with establishing vegetation at 5-7 years post construction.



APPENDIX B – DETAILED CORRIDOR ASSESSMENT TABLES



Chainage Chainage	gth	20m						Average daily	planning		
	(m) Zone	Trenching Trenching Boring	Character	Vegetation Type	Road	RMA Class	SRNS Class	vehicles	zone V	VPO ESO	Waterway
	00 1200 1	Yes	Highway (South)	Grass					GWZ		
		Yes	Highway (South)	Grass					GWZ	ESO1	01
1250 1350	50 100 1	Yes	Highway (South)	Grass					GWZ		
	-	Yes	Highway (South)		CALDER FREEWAY	FREEWAY	M CLASS ROADS	21000	TRZ2		
2450 2450	1650 1	Yes	Highway (South)	Alternating rows immature	CALDER FREEWAY	FREEWAY	M CLASS ROADS	21000	TR72		
		Service Servic	Highway (South)	Grass	CAI DER FREEWAY	FREEWAY	M CLASS ROADS	21000	TR72		
	7	SS. Y	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	18000	TRZ2		
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	15000	TRZ2		
13500 14000	00 500 1	Yes	Highway (South)	Dense full median trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	15000	TRZ2		
		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	15000	TRZ2		
14450 14550	50 100 1	Yes	Highway (South)	Informal dense deciduous	CALDER FREEWAY	FREEWAY	M CLASS ROADS	15000	TRZ2		
14550 18050	(-)	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	15000	TRZ2		
18050 18550	50 500 1	Yes	Highway (South)	Rows of deciduous trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	15000	TRZ2		
18550 18700	00 150 1		Highway (South)	Rows of deciduous trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
18900 19500	00 600 1	Yes	Highway (South)	Dense full median trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
19500 19650		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
19650 20600	00 950 1	Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
		Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
21050 21250	50 200 1	Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
		Yes	Highway (South)	Dense full median trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
21850 21900	00 50 1	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
	_	Yes	Highway (South)	Rows of deciduous trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
23000 23200		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
23200 23550		Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	16000	TRZ2		
23550 23950	50 400 1	Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	14000	TRZ2		
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	14000	TRZ2		
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2		
24500 25200	00 700 1	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9300	TRZ2		
		Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9300	TRZ2		
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9300	TRZ2		
		Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9300	TRZ2		
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9300	1R22		
26450 27350	50 900 1	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	12000	1R22		
		Sal S	Highway (South)	Down of deciding a trees	CALDER FREEWAT	FREEWAT	M CLASS ROADS	14000	1727 1727		
28900 28900		597	Highway (South)	Cross	CALDER FREEWAY	FREEWAY	M CLASS ROADS	14000	TR72		
		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Highway (South)	Dense offset trees + shribs	CALDER FREEWAY	FRFFWAY	M CLASS ROADS	13000	TR72		
		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	ES	ESO5
	_	Yes	Highway (South)		CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	ES	ESO5
30350 30400	00 50 1	Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	ES	ESO5
30400 30500		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	VPO2 ES	ESO5
	50 450 1	Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	ES	ES05
30950 31550		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	ES	ESO5
		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	ES	92
	w	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2		ESO5
		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2		ES05
		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	VPO2 ES	ES05
32550 32700	00 150 1	Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2	3 0	ESOS
	Ī	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	1R22		ESOS
32/50 32850	100 1	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TD73	VPUZ ES	ESOS
		89-	Higilway (South)	Grass	CALUER FREEWAT	TREEWAI	IVI ULAGO RUADO	UNNCI	1K22	7	5

Chainage Ch	apediet	Chainage Length Project	t 20m 30m	Landscape					Average	Main		
Start End	p p	(m) Zone	Trenching		Vegetation Type	Road	RMA Class	SRNS Class	es		VPO E	ESO Waterway
32900	33550		Yes	Highway (South)	Offset loose rows trees + shrubs		FREEWAY	M CLASS ROADS	13000	TRZ2		ESO5
33250	34100) 550 1	Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2		ESO5
34100	34400		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2		ESO5
34400	34800	4	Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2		ESO5
34800	34850		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	13000	TRZ2		ESO5
34850	35000	•	Yes	Highway (South)		CALDER FREEWAY	FREEWAY	M CLASS ROADS	12000	TRZ2		ESO5
35000	35100		Yes	Highway (South)	+ .	CAL DER FREEWAY	FREEWAY	M CLASS ROADS	12000			ESO5
35100	35250		Yes	Highway (South)	+ -	CALDER FREEWAY	FREEWAY	M CLASS ROADS	12000		VPUZ	ESCS
35250	35300		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	12000	1R22		
35300	32/20	` ·	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	12000	1K22		
33/30	nncac		i es	righway (South)		CALDER FREEWAY	TKEEWAY	M CLASS ROADS	10000	1R22		
36500	36900		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS KOADS	00001	1R22		
36900	37650		Yes	Highway (South)		CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		
37650	37850	200 1	Yes	Highway (South)	+	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000			
37850	37950		Yes	Highway (South)	+	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000		VP02	
37950	38000) 50 1	Yes	Highway (South)	+	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		
38000	38150		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO5
38150	38850	7	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO5
38850	38900		Yes	Highway (South)	Dense full median trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO5
38900	38950		Yes	Highway (South)	Dense full median trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ1		ESO5
38950	39000		Yes	Highway (South)	Dense full median trees + shrubs		FREEWAY	M CLASS ROADS	10000	TRZ1	ES	ESO4, ESO5
39000	39100	100 1	Yes	Highway (South)	Dense full median trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ1		ESO4
39100	39300	.,	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
39300	39350		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2	VP02	ESO4
39350	39400) 50 1	Yes	Highway (South)	Offset loose rows trees + shrubs		FREEWAY	M CLASS ROADS	10000	TRZ2	VP02	ESO4
39400	39600	200 1	Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
39600	39700		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000			ESO4
39700	39800		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2	VP02	ESO4
39800	40200	1 400 1	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
40200	40300		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2 VP	VPO1, VPO6	ESO4
40300	40400	1 100 1	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2	VP01	ESO4
40400	40900		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
40900	41000		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2	VPO1	ESO4
41000	41100		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
41100	41300		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2	VP01	ESO4
41300	41350		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
41350	41950		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	IRZ2	VP01	ESO4
41950	43150	_	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ES04
43150	43250		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	1R22	VPO1	ESO4
43250	4/550	3550 1	res	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	11000	1R22		ESO4
51100	54500		S9/ NGX	Highway (South)	Oldass	CALDER FREEWAY	FREFWAY	M CLASS ROADS	11000	TR72		ESO4
54500	54550		202	Highway (South)	Grass	CALDER EREEWAY	FREEWAY	M CLASS ROADS	11000	27		ESO4
54550	55100		Say X	Highway (South)	Grass	CALDER FREEWAY	FRFFWAY	M CLASS ROADS	11000	TR72		ESO4
55100	55500	400 2	Yes Y	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	11000		VPO2	ESO4
55500	55700		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	11000		}	ESO4
22200	56200		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9200	TRZ2		ESO4
56200	22300	1700 2	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	7800	TRZ2		ESO4
22000	58550		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9100	TRZ2		ESO4
58550	59350	800 2	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
59350	60800	_	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2	ES	ESO4, ESO7
00809	63250	۲,	Yes	Highway (South)		CALDER FREEWAY	FREEWAY	M CLASS ROADS	10000	TRZ2		ESO4
63250	63950	700 2	Yes	Highway (South)	Grass		FREEWAY	M CLASS ROADS	7900	TRZ2		ESO4
63950	64300		Yes	Highway (South)		CALDER FREEWAY	FREEWAY	M CLASS ROADS	2006	TRZ2		ESO4

Chainage Ch	Jainage	Chainage Length Projec	ct 20m 30m	Landscape					Average	Main planning	
	Þ	(m) Zone	Trenching		Vegetation Type	Road	RMA Class	SRNS Class	vehicles	zone VPO	ESO Waterway
64300	65150		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	2006	TRZ2	ESO4
65150	00959) 450 2	Yes	Highway (South)	Offset loose rows trees + shrubs		FREEWAY	M CLASS ROADS	2006	TRZ2	ESO4
02900	65650		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0064	TRZ2	ESO4
65650	65950		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	7400	TRZ2	ESO4
02629	66550	0 600 2	Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	7400	TRZ2	ESO4
09299	09999		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	7400	TRZ2	ESO4
09999	67050) 400 2	Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	7400	TRZ2	ESO4
67050	67300		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	FZ	ESO4
67300	68400	0 1100 2	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	FZ	ESO4
68400	69250		Yes	Highway (South)	Dense offset trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	FZ	ESO4
69250	70200		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	FZ	ESO4
70200	70250) 50 2	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1, ESO4
70250	73250		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
73250	73550		Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
73550	74550	_	Yes	Highway (South)	Grass		FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
74550	75350		Yes	Highway (South)	Offset loose rows trees + shrubs		FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
75350	26700		Yes	Highway (South)	Grass		FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
26700	76750		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	089	TRZ2	ES01. ES05
76750	77650		Yes	Highway (South)	Grass	CAI DER ERFEWAY	FRFFWAY	M CLASS ROADS	6800	TR72	ESO1
77650	78050		Yes	Highway (South)	Offset loose rows trees + shrubs	CAI DER FREEWAY	FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
78050	78550		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
78550	78950		Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
78950	80550		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0089	TRZ2	ESO1
80550	80800		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	6300	TRZ2	ESO1
80800	81150		Yes	Highway (South)	Offset loose rows trees + shrubs		FREEWAY	M CLASS ROADS	6300	TRZ2	ESO1
81150	81250		Yes	Highway (South)	Grass		FREEWAY	M CLASS ROADS	6300	TRZ2	ESO1
81250	81550		Yes	Highway (South)	Offset loose rows trees + shrubs	CALDER FREEWAY	FREEWAY	M CLASS ROADS	9300	TRZ2	ESO1
81550	81700		Yes	Highway (South)		CALDER FREEWAY	FREEWAY	M CLASS ROADS	6300	TRZ2	ESO1
81700	84350		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	2200	TRZ2	ESO1
84350	84450		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	2200	TRZ2	ESO1, ESO5
84450	86400) 1950 2	Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	2200	TRZ2	ESO1
86400	86800		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	2200	TRZ2	
86800	86850		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	2200	TRZ2	ESO5
86850	87200		Yes	Highway (South)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	2200	TRZ2	
87200	87350		Yes	Harcourt Diversion		CALDER FREEWAY	FREEWAY	M CLASS ROADS	2200	TRZ2	
87350	88250		Yes	Harcourt Diversion	Roadside trees	ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER	Not Applicable	148	TRZ2	
88250	88350	0 100 2	Yes	Harcourt Diversion	4	ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		148	TRZ2	ESO5
88350	89100		Yes	Harcourt Diversion	Roadside trees	ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		148	TRZ2	
89100	89500		Yes	Harcourt Diversion		ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		148	TRZ2	
89500	90300	ω	Yes	Harcourt Diversion		ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		148	TRZ2	
90300	90350		Yes	Harcourt Diversion		ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		148	1K22	ESOS
90350	92750	7	res	Harcourt Diversion		FI PUNCTONE-HARCOUR I NORTH ROAD	ARTERIAL OTHER		148	1R22	
92750	93350	2 000 0	Sal Sal	Harcourt Diversion	Township Zone	ELPHINSTONE-HARCOURT NORTH ROAD ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER	Not Applicable	356	TD79	
93330	02050		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Harcourt Diversion	-11-	ELFIIINSTONE HABCOLIBT NOBTH BOAD	APTEDIAL OTHER		050	TD70	
93330	93930	400 2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Harcourt Diversion	Podeide trees	ELTHINSTONE-HANCOOKT NORTH KOAD	APTERIAL OTHER	Not Applicable	957	TB79	
94050	94650		XeX	Harcourt Diversion		ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		536	TRZ2	
94650	94850		Yes	Harcourt Diversion		ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		536	TRZ2	
94850	94900		Yes	Harcourt Diversion		ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		536	TRZ2	
94900	95100		Yes	Harcourt Diversion	Minimal trees	ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		536	TRZ2	
95100	95200		Yes	Harcourt Diversion	Minimal trees	ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER	Not Applicable	536	FZ	
95200	95400	. ,		Harcourt Diversion						FZ	
95400	95450) 50 2	Yes	Harcourt Diversion						TRZ1	
95450	95500		Yes	Harcourt Diversion	Scattered trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ1	

Part														
80.00 90.00 70.00 Part Part Propriet Senting Free Propriet Propr	Chainage Cha Start End	ainage 1	Length Projec (m) Zone				Vegetation Type	Road	RMA Class	SRNS Class	daily vehicles	ging	ESO	Waterway
9900. 10.0 7 No. No. <td>95500</td> <td>95550</td> <td>20</td> <td></td> <td></td> <td></td> <td>Scattered trees</td> <td>CALDER FREEWAY</td> <td>FREEWAY</td> <td>M CLASS ROADS</td> <td>0006</td> <td>FZ</td> <td></td> <td>,</td>	95500	95550	20				Scattered trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	FZ		,
1999 100 2 7 10 10 10 2 7 10 10 2 7 10 2 7 10 2 7 10 2 7 10 2	95550	95650	100		Yes	Harcourt Diversion		CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2		
9788 278 78 House Channel Base OLGE FREEWAY FREEWAY REEWAY <	95650	95850	200		Yes	Harcourt Diversion		CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ1		
	95850	97850			Yes	Harcourt Diversion		CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2		
99000 10 2 View History Differency Schwalf Version CALSER REPOWN REPOWN </td <td>97850</td> <td>97900</td> <td></td> <td></td> <td>Yes</td> <td>Harcourt Diversion</td> <td>Scattered trees</td> <td>CALDER FREEWAY</td> <td>FREEWAY</td> <td>M CLASS ROADS</td> <td>0006</td> <td>TRZ2</td> <td>ESO5</td> <td></td>	97850	97900			Yes	Harcourt Diversion	Scattered trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2	ESO5	
818 05 0 2	97900	00086			Yes	Harcourt Diversion		CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2		
85.00 18.2 Year Prenotity Deepen Salmed Read CALEST REEWN FREEWN M.C.LASS RANGES St.D. TAZZ CALEST REEWN FREEWN M.C.LASS RANGES St.D. TAZZ CALEST REEWN M.C.LASS RANGES St.D. TAZZ M.C.LASS RANGES St.D. TAZZ </td <td>00086</td> <td>98050</td> <td></td> <td></td> <td>Yes</td> <td>Harcourt Diversion</td> <td>Scattered trees</td> <td>CALDER FREEWAY</td> <td>FREEWAY</td> <td>M CLASS ROADS</td> <td>0006</td> <td>TRZ1</td> <td></td> <td></td>	00086	98050			Yes	Harcourt Diversion	Scattered trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ1		
9870 9 9 7	98050	98100			Yes	Harcourt Diversion	Scattered trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ1	ESO5	
980 00 20 2	98100	98250	,		Yes	Harcourt Diversion	Scattered trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2		
344 20 10 2 2 74 46 10 10 10 10 10 10 10 10 10 10 10 10 10	98250	98300			Yes	Highway (North)	Scattered trees	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2		
86000 8600 <t< td=""><td>98300</td><td>98450</td><td></td><td></td><td>Yes</td><td>Highway (North)</td><td>Grass</td><td>CALDER FREEWAY</td><td>FREEWAY</td><td>M CLASS ROADS</td><td>0006</td><td>TRZ2</td><td></td><td></td></t<>	98300	98450			Yes	Highway (North)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2		
98.00 9.0 7. 8.0 6.0 7.0 8.0 9.0 7.0 <td>98450</td> <td>98500</td> <td></td> <td></td> <td>Yes</td> <td>Highway (North)</td> <td>Grass</td> <td>CALDER FREEWAY</td> <td>FREEWAY</td> <td>M CLASS ROADS</td> <td>0006</td> <td>TRZ2</td> <td>ES05</td> <td></td>	98450	98500			Yes	Highway (North)	Grass	CALDER FREEWAY	FREEWAY	M CLASS ROADS	0006	TRZ2	ES05	
101720 52 Yes Yes Fige Page CALIDER HIGHMANY FREENAN ACTIVENAL OFFICE RICHARDAY FREENAN RICHARDAY RICHARDAY FREENAN RICHARDAY	98500	99400			Yes	Highway (North)	Grass	CALDER FREEWAY	FREEWAY		0006	TRZ2		
		99450		Yes	Yes	Highway (North)	Grass	ELPHINSTONE-HARCOURT NORTH ROAD	ARTERIAL OTHER		536	TRZ2		
(1)(350 (5) 7 Nee Hyginov, North Gases CALGER HGWAN FREEWAY II CASS ROADS 900 TRZZ (1)(350 (5) 2 Yes Hyginov, North Gases CALGER HGWAN FREEWAY II CASS ROADS 900 TRZZ (1)(350 (5) 2 Yes Hyginov, North Gases CALGER HGWAN FREEWAY II CASS ROADS 900 TRZZ (1)(350 (5) 2 Yes Hyginov, North Gases CALGER HGWAN FREEWAY II CASS ROADS 900 TRZZ (1)(350 (5) 2 Yes Hyginov, North Gases CALGER HGWAN FREEWAY II CASS ROADS 900 TRZZ (1)(350 (5) 2 Yes Hyginov, North Gases CALGER HGWAN FREEWAY II CASS ROADS 900 TRZZ (1)(350 (5) 2 Yes Hyginov, North Gases CALGER HGWAN FREEWAY II CASS ROADS 900 TRZZ		101150	_	Yes		Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
(101400 50 7 Highway Morth Grass CALGER HGAWAY FREEWAY IN CASSIGOUSS 940 IRZZ (101400 50 2 Yes Highway Morth Gassa CALGER HGAWAY FREEWAY IN CASSIGOUSS 940 IRZZ (101500 50 2 Yes Highway Morth Gassa CALGER HGAWAY FREEWAY IN CASSIGOUSS 940 IRZZ (101700 50 2 Yes Highway Morth Gassa CALGER HGAWAY FREEWAY IN CASSIGOUSS 940 IRZZ (101700 50 2 Yes Highway Morth Gassa CALGER HGAWAY FREEWAY IN CASSIGOUSS 940 IRZZ (101700 50 2 Yes Highway Morth Gassa CALGER HGAWAY FREEWAY IN CASSIGOUSS 940 IRZZ (101700 50 2 Yes Highway Morth Gassa CALGER HGAWAY FREEWAY IN CASSIGOUSS 940 IRZZ (101700 50		101300		Yes		Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
101400 St. 2 Year Year Hajmany Illeanin Gass CALLIER HGAMAN FREETWAN MCLASS ROADS 9400 TRZZ 101500 St. 2 Year Year Hajmany Illeanin Gass CALLIER HGAMAN FREETWAN MCLASS ROADS 9400 TRZZ 101500 St. 2 Year Year Hajmany Illeanin Gass CALLIER HGAMAN FREETWAN MCLASS ROADS 9400 TRZZ 101500 St. 2 Year Year Hajmany Illeanin Gass CALLIER HGAMAN FREETWAN MCLASS ROADS 9400 TRZZ		101350		Yes		Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
(101500) O. 2 Year Polizone Proposition CALDER HORMAN FREEKMAN ALCLASS ROALING 9400 TRAZZ (101700) S.0 Yea Hajmany (Morth) Gass CALDER HORMAN FREEKMAN MCLASS ROALING 9400 TRAZZ (101700) S.0 Z. Yea Hajmany (Morth) Gass CALDER HORMAN FREEKMAN MCLASS ROALING 9400 TRAZZ (101800) S. Yea Hajmany (Morth) Gass CALDER HORMAN FREEKMAN MCLASS ROALING 9400 TRAZZ (101800) S. Yea Hajmany (Morth) Gass CALDER HORMAN FREEKMAN MCLASS ROALING 9400 TRAZZ (10200) S. Yea Hajmany (Morth) Gass CALDER HORMAN FREEKMAN MCLASS ROALING 9400 TRAZZ (102000) S. Yea Hajmany (Morth) Gass CALDER HORMAN FREEKMAN MCLASS ROALING 9400 TRAZZ (102000) S. Yea Hajman		101400		Yes		Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
(10550) 50 7 kes 4 pstace/plotently of creases CALIGER HOLIWAY FREEWAY NICLASS ROLUGS 9400 IRZZ (10750) 50 2 Yes 4 pstace/plotently of creases CALIGER HOLIWAY FREEWAY NICLASS ROLUGS 9400 PRZZ (10750) 50 2 Yes 4 pstace/plotently Cores CALIGER HOLIWAY FREEWAY NICLASS ROLUGS 9400 PRZZ (10220) 50 2 Yes 4 pstace/plotently Cores CALIDER HOLIWAY FREEWAY NICLASS ROLUGS 9400 PRZZ (10220) 50 2 Yes 4 pstace/plotently Cores CALIDER HOLIWAY FREEWAY NICLASS ROLUGS 9400 PRZZ (10220) 50 2 Yes 4 pstace/plotently Cores CALIDER HOLIWAY FREEWAY NICLASS ROLUGS 9400 PRZZ (10220) 50 3 Yes Veel Corest Holis CALIDER HOLIWAY FREEWAY NICLASS ROLUGS 9400 PRZZ (10220) 50 3 Yes		101500		Yes		Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
(17/120) 51.0 7 ves Hybrany (Morth) Grases CALDER HOLLAND FREEWAY M. LASS FOLADS 9400 TR22 (10/1700) 51.0 2 ves Yes Hybrany (Morth) Grases CALDER HOLLAND FREEWAY M. LASS FOLADS 9400 TR22 (10/1800) 50.1 Yes Yes Hybrany (Morth) Grases CALDER HOLLAND FREEWAY M. LASS FOLADS 9400 TR22 (10/2000) 50.1 Yes Yes Hybrany (Morth) Grases CALDER HOLLAND FREEWAY M. CASS FOLADS 9400 TR22 (10/2000) 50.1 Yes Yes Hybrany (Morth) Grases CALDER HOLLAND FREEWAY M. CASS FOLADS 9400 TR22 (10/2000) 50.1 Yes Yes Hybrany (Morth) Grases CALDER HOLLAND FREEWAY M. CASS FOLADS 9400 TR22 (10/2000) 50.1 Yes Yes West Grants Hills Grass FOLADS 9400 TR22 (10/2000)		101550		Yes	Yes	Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
1017520 50 7 Kee 7 Kee 1 Majoony (Nath) Green Charles (National) FREEWOY MICLASS ROADS 9 MO TRZZ 1017820 50 2 Yee 1 Hajoony (Nath) Green CALDER HOSINAY FREEWOY MICLASS ROADS 9 MO TRZZ 1017820 50 2 Yee 1 Hajoony (Nath) Green CALDER HOSINAY FREEWOY MICLASS ROADS 9 MO TRZZ 1017820 50 2 Yee 1 Hajoony (Nath) Green CALDER HOSINAY FREEWOY MICLASS ROADS 9 MO TRZZ 1017820 50 3 Yee Yee Mack Central Hills Green TRZZ TRZZ 1017820 50 3 Yee Yee Wast Central Hills Green TRZZ TRZZ 1017820 50 3 Yee Yee Wast Central Hills Green TRZZ TRZZ 1017820 50 3 Yee Yee Wast Central Hills Green TRZZ TRZZ 1017820 50 3 Yee <		101700			Yes	Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
(1)(1800) 50 2 Yeas Highway/Month) (assa CAMDER-HIGHWAY FREEWAY N CLASS ROADS 9100 TRAZ (10580) 50 2 Yea Highway/Month) (assa CALDER-HIGHWAY FREEWAY N CLASS ROADS 9100 TRAZ (10520) 50 2 Yea Highway/Month) (assa CALDER-HIGHWAY FREEWAY N CLASS ROADS 9100 TRAZ (10220) 50 2 Yea Highway/Month) (assa CALDER-HIGHWAY FREEWAY N CLASS ROADS 9100 TRAZ (10220) 50 3 Yea Highway/Month) (assa CALDER-HIGHWAY FREEWAY N CLASS ROADS 9100 TRAZ (10220) 50 3 Yea Highway/Month) (assa CALDER-HIGHWAY FREEWAY N CLASS ROADS 9100 TRAZ (10220) 50 3 Yea West Control His Tread FREEWAY N CLASS ROADS 9100 TRAZ (10220) 3 Yea Yea West Control His		101750		Yes	Yes	Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
(10200) 50 7 kes Hajmwyllvoffin) Gass CAMERHIGHMAY FREEWAY N CLASS ROADS 9400 TRAZ (10200) 30.0 2 Yes Hajmwyllvoffn) Gass CALGER HGHMAY FREEWAY N CLASS ROADS 9400 TRAZ (10200) 50.0 2 Yes Hajmwyllvoffn) Gass CALGER HGHMAY FREEDWAY N CLASS ROADS 9400 TRAZ (10200) 50.0 3 Yes Hajmwyllvoffn) Gass CALGER HGHMAY FREEDWAY N CLASS ROADS 9400 TRAZ (10200) 50.0 3 Yes Hajmwyllvoffn) Gass CALGER HGHMAY FREEDWAY N CLASS ROADS 9400 TRAZ (10200) 50.0 3 Yes West Cornel His Grass CALGER HGHMAY FREEDWAY N CLASS ROADS 9400 TRAZ (10200) 50 3 Yes West Cornel His Grass CALGER HGHMAY FREEDWAY N CLASS ROADS 9400 TRAZ <t< td=""><td></td><td>101800</td><td></td><td>Yes</td><td></td><td>Highway (North)</td><td>Grass</td><td>CALDER HIGHWAY</td><td>FREEWAY</td><td>M CLASS ROADS</td><td>9400</td><td>TRZ2</td><td></td><td></td></t<>		101800		Yes		Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
(105200 SD Yes Hydrawly (Muth) Grass CALDER HIGHMAN FREEWAY MICLASS ROADS 9400 TRZZ (102200 SD Yes Hydrawly (Muth) Gess CALDER HIGHMAN FREEWAY MICLASS ROADS 9400 TRZZ (102200 SD Yes Vest Highway (Muth) Gess CALDER HIGHMAN FREEWAY MICLASS ROADS 9400 TRZZ (102200 SD 3 Yes West Gentral Hills Gess CALDER HIGHMAN FREEWAY MICLASS ROADS 9400 TRZZ (102200 SD 3 Yes West Gentral Hills Gess CALDER HIGHMAN FREEWAY MICLASS ROADS 9400 TRZZ (102200 SD 3 Yes Yes West Gentral Hills Gess CALDER HIGHMAN FREEWAY MICLASS ROADS 9400 TRZZ (102200 SD 3 Yes Yes West Gentral Hills Gess CALDER HIGHMAN FREEWAY MICLASS ROADS 9400 TRZZ <		101850		Yes	Yes	Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
102200 90 Yee Yee Highmony (North) Glass CALDER HIGHMON FREEWON MICLASS ROADS 9000 HAZZ 102200 90 3 Yee Yee Highmony (North) Glass CALDER HIGHMON FREEWON MICLASS ROADS 9000 HAZZ 102200 90 3 Yee Weet Certerful His Treed FRZ FRZ 102200 90 3 Yee Weet Certerful His Treed FRZ FRZ 102200 90 3 Yee Weet Certerful His Glass FRZ FRZ 102200 90 3 Yee Weet Certerful His Glass FRZ 102200 90 3 Yee Weet Certerful His Glass FRZ 102200 90 3 Yee Weet Certerful His Glass FRZ 102200 90 3 Yee Weet Certerful His Glass FRZ 102200 90 3 Yee Yee W		101900			Yes	Highway (North)	Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
102200 50 7 68 168 CALLER FLOWING 768 762 <		102200					Grass	CALDER HIGHWAY	FREEWAY	M CLASS ROADS	9400	TRZ2		
102200 50 3 Yes West Central His Great FEZ 102200 50 3 Yes West Central His Treed FZ 102200 50 3 Yes West Central His Great FZ 102200 50 3 Yes West Central His Great FZ 102200 50 3 Yes West Central His Great FZ 102200 50 3 Yes West Central His Great FZ 102200 450 3 Yes West Central His Great FZ 102200 450 3 Yes West Central His Gress FZ 102200 450 3 Yes West Central His Gress FZ 102200 450 3 Yes West Central His Gress FZ 102200 50 3 Yes West Central His Gress FZ 104200 50		102250	200				Grass	CALDER HIGHWAY	FKEEWAY	M CLASS KOADS	9400	1R22		
102200 50 Yes West Control Hills Treed FZ 102200 50 3 Yes West Control Hills Treed FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 50 3 Yes West Control Hills Grass FZ 102200 3 <		102300	06 6		Yes		Grass					1R22		
102500 100 4 yes West Cantrol Hills Treed 102500 50 3 Yes West Cantrol Hills Great 102500 50 3 Yes West Cantrol Hills Great 0 102500 50 3 Yes West Cantrol Hills Great 6 102500 50 3 Yes West Cantrol Hills Great 6 102500 450 3 Yes West Cantrol Hills Great 6 102500 50 3 Yes West Cantrol Hills Great 6 102500 50 3 Yes West Cantrol Hills Great 6 10450 50 3 Yes Yes West Cantrol Hills Great 6 10450 50 3 Yes West Cantrol Hills Great 6 FZ 10450 50 3 Yes West Cantrol Hills Great 6 FZ 10450 50 </td <td></td> <td>102400</td> <td></td> <td></td> <td>sey Vec</td> <td></td> <td>Treed</td> <td>></td> <td></td> <td></td> <td></td> <td>IR22 E7</td> <td></td> <td></td>		102400			sey Vec		Treed	>				IR22 E7		
(10250) 50 3 Yes West Central Hills Grass F2 (10250) 50 3 Yes West Central Hills Grass Grass Grass (10270) 50 3 Yes West Central Hills Grass Grass Grass F2 (10250) 50 3 Yes West Central Hills Grass Grass Grass F2 (10320) 50 3 Yes West Central Hills Grass Grass F2 (10450) 50 3 Yes West Central Hills Grass Grass F2 (10450) 50 3 Yes West Central Hills Grass Grass F2 (10450) 50 3 Yes West Central Hills Grass Grass Grass (10450) 50 3 Yes West Central Hills Grass Grass Grass (10450) 50 3 Yes West Central Hills Grass		102500	ľ		γ _P		Treed					F7		
(102500 50 Yes Yes West Central Hills Grass (102500 50 3 Yes West Central Hills Grass FZ (102500 100 3 Yes West Central Hills Grass FZ (102500 50 3 Yes West Central Hills Grass FZ (103500 50 3 Yes West Central Hills Grass FZ (103500 50 3 Yes West Central Hills Grass FZ (104500 250 3 Yes West Central Hills Grass FZ (104500 250 3 Yes West Central Hills Grass FZ (104500 250 3 Yes Yes West Central Hills Grass FZ (104500 250 3 Yes Yes West Central Hills Grass FZ (104500 250 3 Yes Yes West Central Hills Grass <t< td=""><td></td><td>102550</td><td></td><td></td><td>Yes</td><td></td><td>Treed</td><td>•</td><td></td><td></td><td></td><td>Z1 E2</td><td></td><td></td></t<>		102550			Yes		Treed	•				Z1 E2		
102560 50 Yees Weet Central Hills Grass FZ 102700 50 3 Yees Weet Central Hills Grass FZ 102800 450 3 Yees Weet Central Hills Grass FZ 103700 50 3 Yees Weet Central Hills Grass FZ 103700 50 3 Yees Weet Central Hills Grass FZ 104700 50 3 Yees Weet Central Hills Grass FZ 104700 50 3 Yees Weet Central Hills Grass FZ 104700 50 3 Yees Weet Central Hills Grass FZ 104700 50 3 Yees Weet Central Hills Grass FZ 104700 50 3 Yees Weet Central Hills Grass FZ 104700 50 3 Yees Weet Central Hills Grass FZ 104700 50 </td <td></td> <td>102600</td> <td></td> <td>Yes</td> <td>Yes</td> <td></td> <td>Grass</td> <td></td> <td></td> <td></td> <td></td> <td>Į c</td> <td></td> <td></td>		102600		Yes	Yes		Grass					Į c		
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Chainage Cha	ainage	Length Project	t 20m	30m		Landscape				Average daily	Main planning		
Start End	,	End (m) Zone		Trenching Trenching Boring		Character	Vegetation Type	Road	RMA Class SRNS Class		zone VPO E	ESO Waterway	حَ
128750	128800			Yes	Yes	West Central Hills	Grass				FZ		
	128850					West Central Hills	Treed			~	FZ	Murphy Creek	eek
128850	128900	50 3		Yes	Yes	West Central Hills	Grass				FZ		
	129050			Yes		West Central Hills	Grass				FZ		
129050	129100			Yes	Yes	West Central Hills	Grass				FZ		
129100	129150			Yes	Yes	West Central Hills	Treed				FZ		
129150	129350			Yes		West Central Hills	Grass				FZ		
129350	129950			Yes		West Central Hills	Grass				FZ		
129950	130100	Ì		Yes		Murray Basin Plain	Grass				FZ		
	130150			Yes		Murray Basin Plain	Grass				FZ		
	130200			Yes	Yes	Murray Basin Plain	Grass				FZ		
130200	130250	50 3		Yes		Murray Basin Plain	Treed				FZ		
	130750			Yes		Murray Basin Plain	Grass				FZ		
	130800			Yes	Yes	Murray Basin Plain	Treed				FZ		
	130850					Murray Basin Plain	Treed				E7		
	130900	50		Yes		Murray Basin Plain	Society				E7		
	131050	150 3		So. You		Murray Basin Plain	Grass				2.		
	131300	250		30/		Murray Basin Plain	Grass				2.		
	120250	7		507		Murray Dagin Dlain	Class				21		
	133050			S / 163		Murray Basin Plain	Grass				7.1		
	133330			20.		Muliay basili rialii	Glass				7.1		
	134000			Yes		Murray Basin Plain	Grass				7-7		
	134050					Murray Basin Plain	Grass				7-1		
134050	134100			Yes	Yes	Murray Basin Plain	Grass				7-7 		
	134150			Yes		Murray Basin Plain	Grass				FZ		
	134200	50 3		Yes		Murray Basin Plain	Grass				FZ		
	134250			Yes		Murray Basin Plain	Grass				FZ		
	134300					Murray Basin Plain	Grass				FZ		
	134400	`				Murray Basin Plain	Treed				FZ		
	134450			Yes	Yes	Murray Basin Plain	Grass				FZ		
	135050			Yes		Murray Basin Plain	Grass				FZ		
	137850	58		Yes		Murray Basin Plain	Grass				FZ		
	137900			Yes		Murray Basin Plain	Treed	4			FZ		
137900	137950	50 3			Yes	Murray Basin Plain	Treed				FZ	McGee Creek	eek
137950	138000			Yes	Yes	Murray Basin Plain	Treed				FZ		
	138900			Yes		Murray Basin Plain	Grass				FZ		
	138950			Yes	Yes	Murray Basin Plain	Grass				FZ		
138950	139000	50 3		Yes	Yes	Murray Basin Plain	Treed				FZ		
	139550			Yes	7	Murray Basin Plain	Grass				FZ		
	139650			Yes	Yes	Murray Basin Plain	Treed				FZ		
	141050			Yes		Murray Basin Plain	Grass				FZ		
	141900			Yes		Murray Basin Plain	Grass				FZ		
	142000			Yes	Yes	Murray Basin Plain	Treed				FZ		
	142250			Yes		Murray Basin Plain	Grass				FZ		
	144750	2500 3		Yes		Murray Basin Plain	Grass				FZ		
	144800			Yes		Murray Basin Plain	Treed				FZ		
144800	144900	,				Murray Basin Plain	Treed				FZ		
	144950			Yes	Yes	Murray Basin Plain	Treed				FZ		
144950	146400	17		Yes		Murray Basin Plain	Grass				FZ		
	146450	50 3		Yes	Yes	Murray Basin Plain	Treed	WIMMERA HIGHWAY	ARTERIAL HIGHWAY B CLASS ROADS	ROADS 986	TRZ2		
	146500			Yes		Murray Basin Plain	Treed	WIMMERA HIGHWAY	ARTERIAL HIGHWAY B CLASS		FZ		
146500	147200	200		Yes		Murray Basin Plain	Grass				FZ		
	147250	50		Yes		Murray Basin Plain	Grass				FZ		
	147650	400					Grass				FZ		
147650	147850		Yes			Murray Basin Plain	Grass				FZ VP01		

March Property of Parcel March March									werage Main		
1878 1879	Chainage Chainage	Length Project				!			planning		
140.00 20 20 20 20 20 20 20	Ē	Œ)		ching Boring		Vegetation Type	Road	SRNS Class	zone Vi		Waterway
18.20 20 20 20 20 20 20 20		20	Yes	Yes	Murray Basin Plain	Treed			4	VP01	
(1800) (18) <		20		Yes	Murray Basin Plain	Treed				VP01	Little Creek
15.90 20 7 Ke Mary Bears Plean Cooker 7 Ke Annia Desiration Cooker 7 Ke Annia Desiration Cooker 7 Ke Annia Desiration Cooker 7 Ke		20	Yes	Yes	Murray Basin Plain	Treed				VP01	
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1917/200 950 3 Year Manny Sam Palm Canasa PREPARATION		20	Yes	Yes	Murray Basin Plain	Treed			FZ		
150.150 50.0 74.9 Ways State Plant Coasse 75.0 150.150 50.0 3 Yea Area State State Plant Coasse 75.0 150.00 50.0 3 Yea Area State State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Coasse 75.0 150.00 50.0 3 Yea Area State Plant Trend 75.0 150.00		920	Yes		Murray Basin Plain	Grass			FZ		
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