



Landscape Effects Assessment

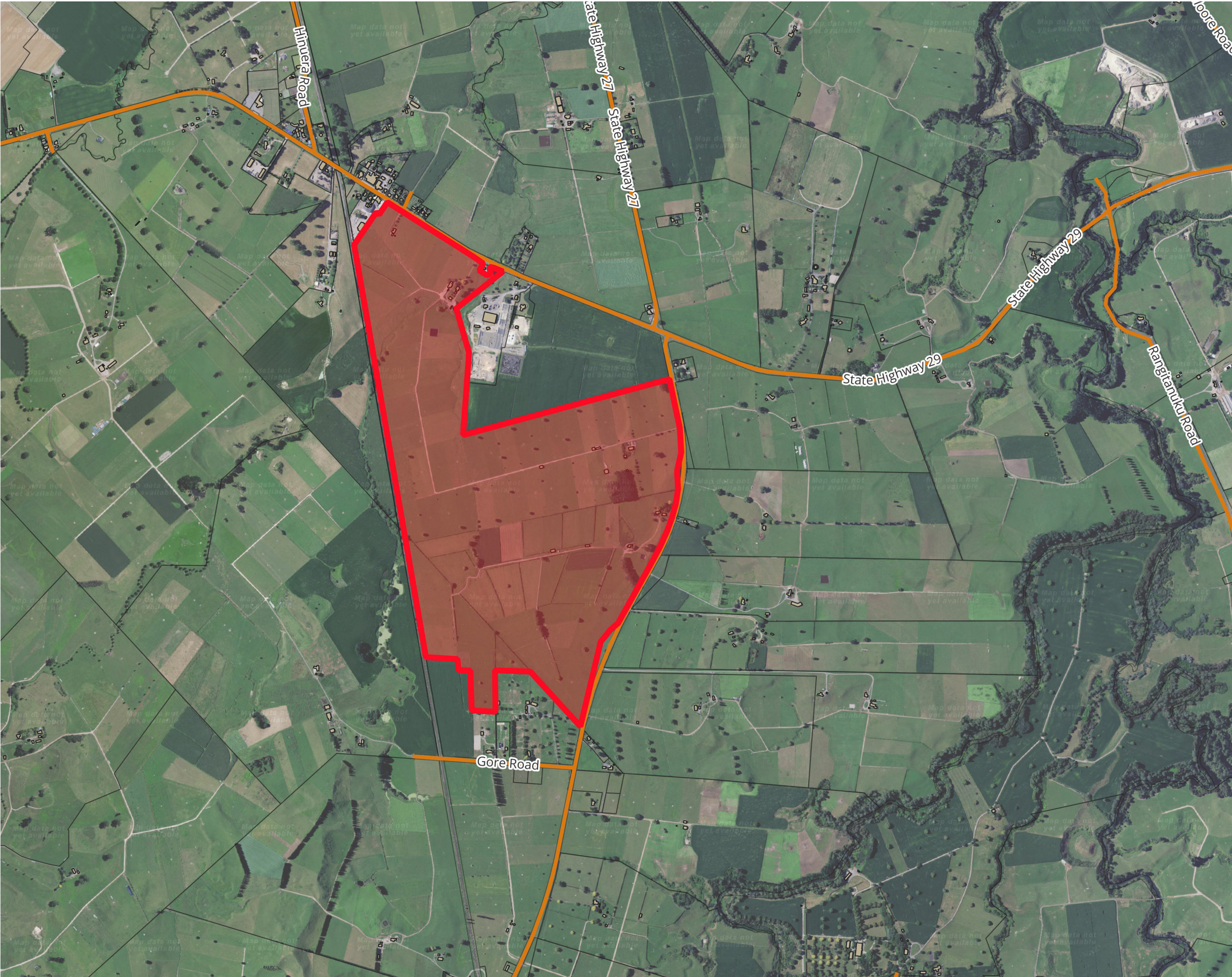
Context Map/ Photographs

(Attachment 2)

Proposed Solar Farm

Hinuera

05 August 2026



Data derived from LINZ on 00/00/24



Legend

Application site

Extent of Solar Farm

Photograph locations

Context Map

Proposed Hinuera Solar Farm

Prepared for
Harmony

FOR CONSENT

05 August 2025

Revision: 01
Drawn: BOD

Reviewed: SB

Not to scale
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Sheet 01

HinueraSF_LVA_ContextMapPhotos_Attachment2_26-07-09

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Photo 1 (0809): Image taken from site at approximately 150m south of 4788 State Highway 29 looking east

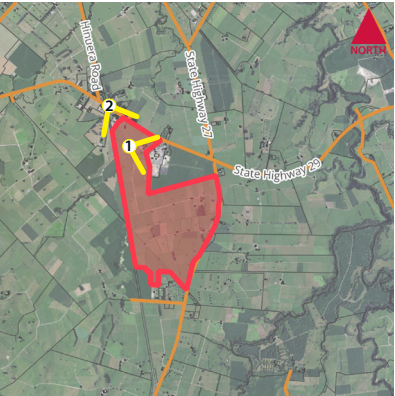


Photo Details

Images taken with iPhone 14 Pro
30 October 2025 between 9am and 10am



Photo 2 (0825): Image taken from 4791 State Highway 29 looking southeast

Context Photographs

Proposed Solar Farm

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FOR CONSENT

05 August 2026

Revision: 01
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Photo 3 (0869): Image taken from intersection of State Highway 27 and 29 looking southwest

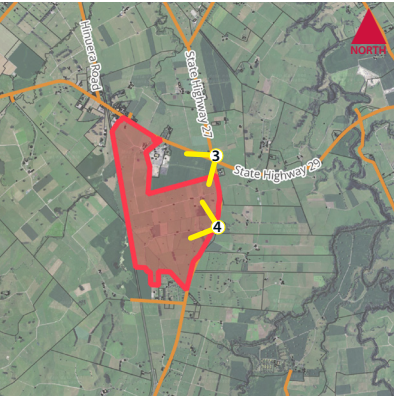


Photo Details

Images taken with iPhone 14 Pro
30 October 2025 between 9am and 10am



Photo 4 (0892): Image taken from State Highway 27 looking northwest

Context Photographs

Proposed Solar Farm

Prepared for
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FOR CONSENT

05 August 2026
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Sheet 03

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Photo 5 (0914): Image taken from 70 Gore Road looking east

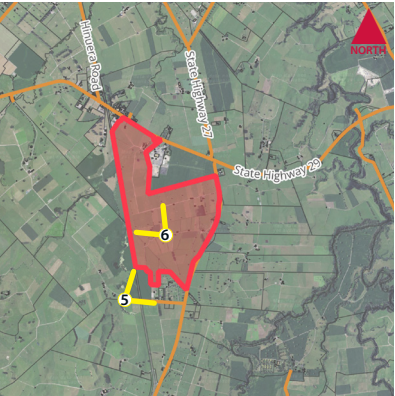


Photo Details

Images taken with iPhone 14 Pro
30 October 2025 between 9am and 10am



Photo 6 (0944): Image taken from within site approximately 650m west of 8333 State Highway 27 looking north

Context Photographs

Proposed Solar Farm

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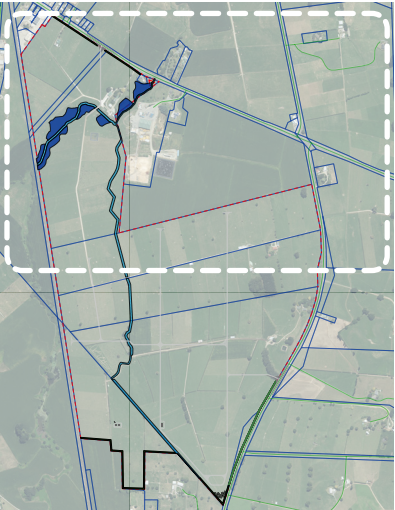
Sheet 04

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Location



- Screen Planting
- Wetland Planting
- Riparian Planting
- Boundary

Riparian/Wetland Planting North

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05 August 2026

Revision: 03

Drawn: BOD

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Sheet 05

HinueraSF_LVA_ContextMapPhotos_Attachment2_26-07-09

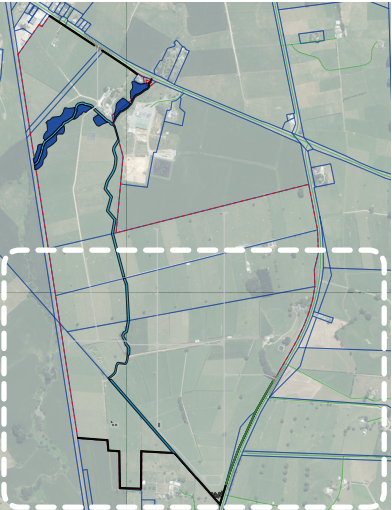
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Location



- Screen Planting
- Riparian Planting
- Trees
- Boundary
- Hedge Planting SH27

Boundary Planting South

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05 August 2026

Revision: 03
Drawn: BOD
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Sheet 06

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Plant Schedule Boundary Buffer				
Plant ID	Latin Name	Common name	Spacing (mm)	Quantity
COR COT	Corokia cotoneaster	Korokia	2000	1000
GRI LIT	Griselinia littoralis	Broadleaf	1500	1168
PSE ARB	Pseudopanax arboreus	Five-finger	2000	1168
			0	0
			Total	3336

Plant Schedule: Stream, Riparian Buffer				
Plant ID	Latin Name	Common name	Spacing (mm)	Quantity
AUS FUL	Austroderia fulvida	Toetoe	1000	1173
CAR GER	Carex germinata	Rautahi	1000	2932
CAR SEC	Carex secta	Purei	1000	2932
CAR VIR	Carex virgata	pukio	1000	2932
COP ARE	Coprosma areolata	Thin-leaved coprosma	1000	977
COP PRO	Coprosma propinqua	mikimiki	1000	977
COP ROB	Coprosma robusta	karamu	1500	869
COR AUS	Cordyline australis	cabbage tree; ti kouka	1500	434
HEB STR	Hebe stricta	houhere	1000	1564
MEL RAM	Melicytus ramiflorus	mahoe	1000	1955
PHO TEN	Phormium tenax	Harakeke	1000	1173
			Total	17918

Plant Schedule: Stream, Wetland Buffer				
Plant ID	Latin Name	Common name	Spacing (mm)	Quantity
AUS FUL	Austroderia fulvida	Toetoe	1000	2427
BLE NOV	Blechnum novae zelandiae	Koikoi Fern, gully fern	1000	971
CAR SEC	Carex secta	Purei	1000	2427
CAR VIR	Carex virgata	pukio	1000	4853
COP PRO	Coprosma propinqua	mikimiki	1000	727
COP TEN	Coprosma tenuicaulis	Hukihuki	1500	648
COR AUS	Cordyline australis	cabbage tree; ti kouka	1500	648
CYP UST	Cyperus ustulatus	Giant Umbrella Sedge	1000	1457
MAC RUB	Machaerina rubiginosa	common twig rush	1000	1943
MAC TEN	Machaerina tenax		500	11648
PHO TEN	Phormium tenax	Harakeke	1000	3640
			Total	31389

Plant Schedule: Trees				
Plant ID	Latin Name	Common name	Spacing (mm)	Quantity
ALE EXC	Alectryon excelsus	Tītoki	10000	11

Plant Schedule: Hedge SH29				
Plant ID	Latin Name	Common name	Spacing (mm)	Quantity
GRI LIT	Griselinia littoralis	Broadleaf	2000	519

Plant Schedule

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05 August 2026

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Sheet 07

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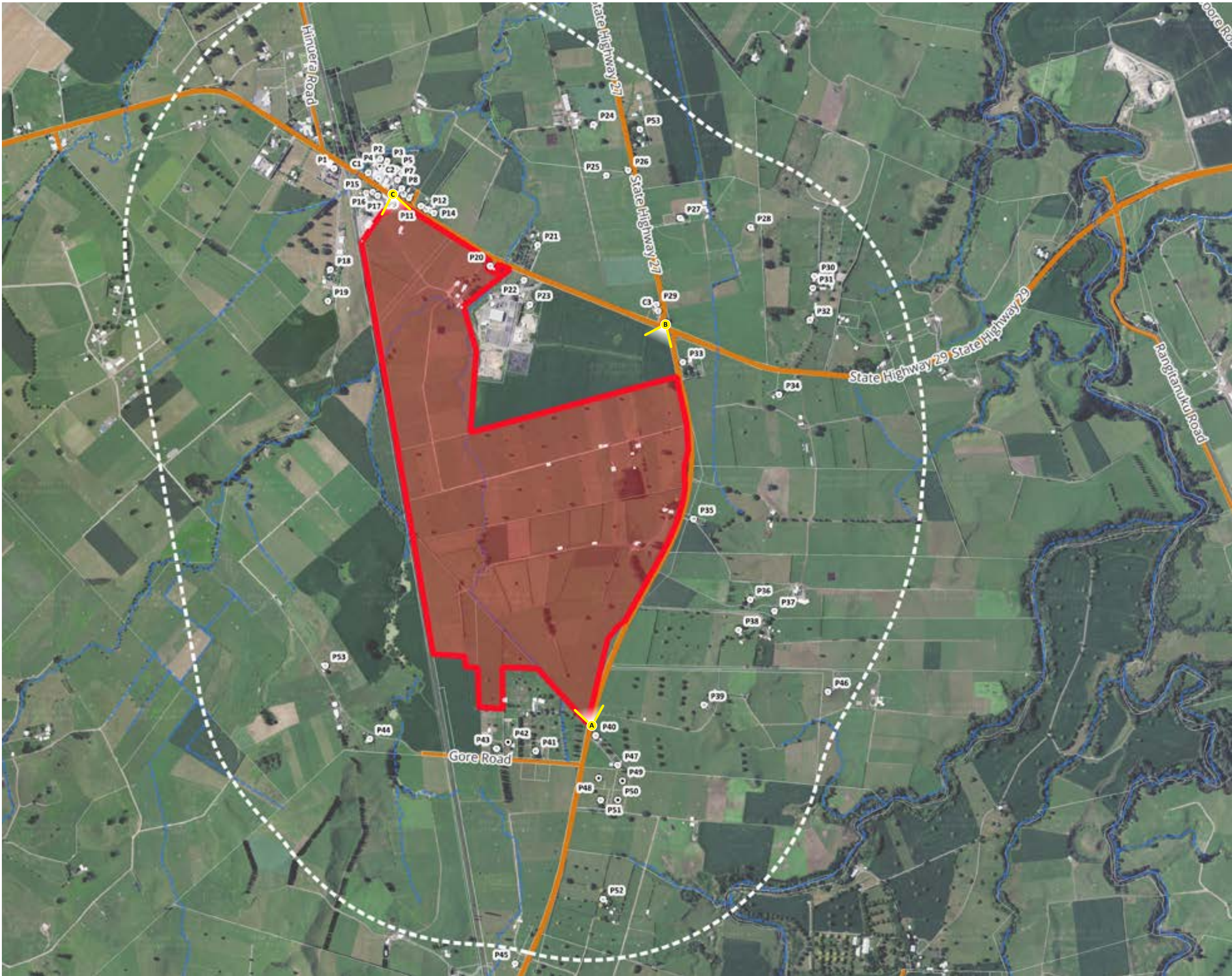
Landscape Effects Assessment

Graphic Attachment

(Attachment 3)

Proposed Solar Farm
Hinuera

05 August 2026



Data derived from Esri on 17/11/25

Legend

- Application site
- Photograph locations

Visualisation
Location Map

Proposed Hinuera
Solar Farm

Prepared for
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FOR CONSENT

05 August 2025
Revision: 01
Drawn: LH
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Sheet 01

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0 0.5 1km

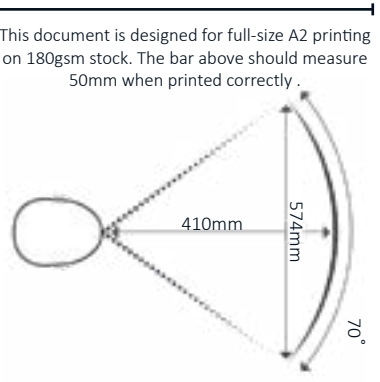
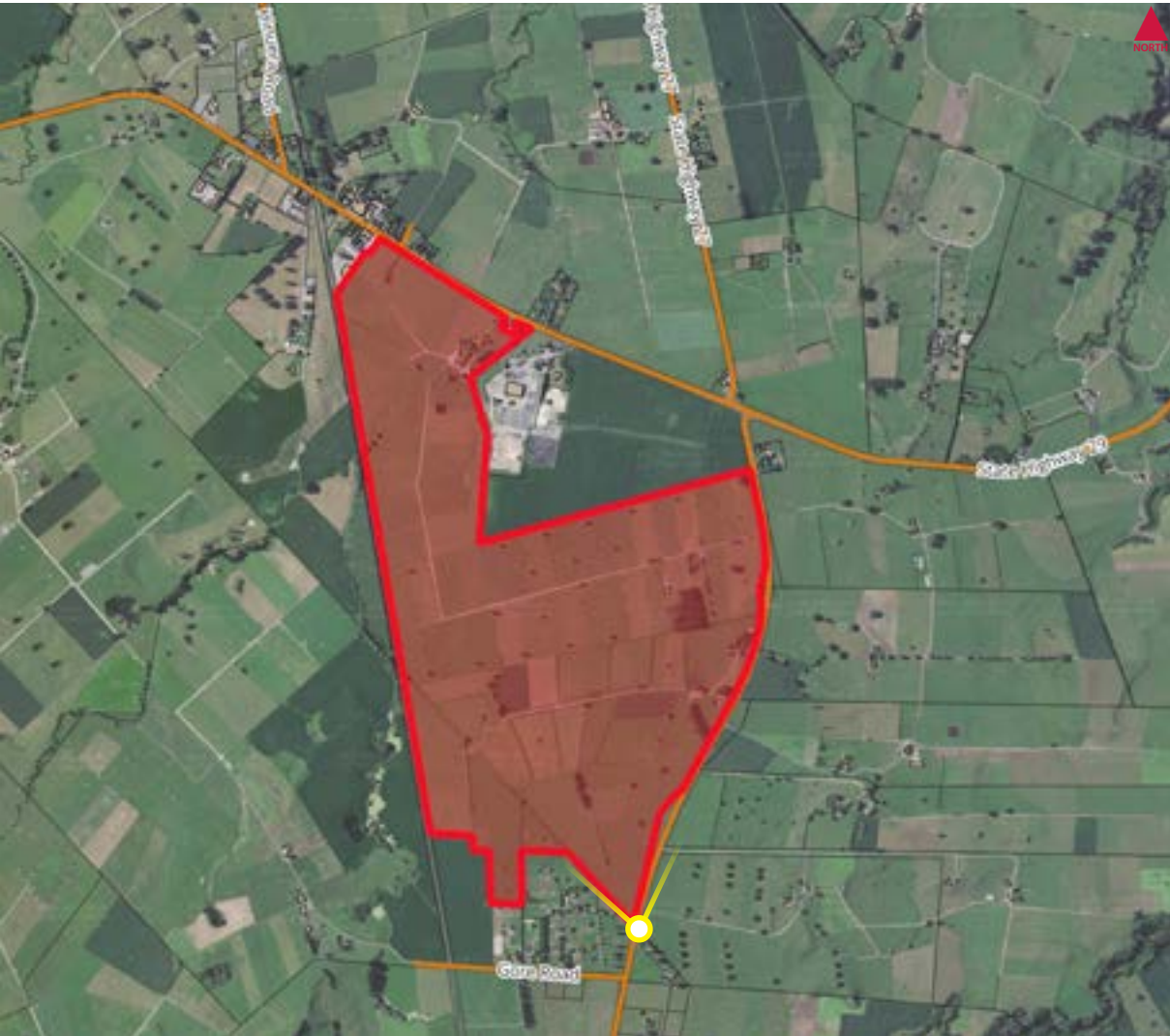


Image Capture:
Iphone 14 Pro
30 Oct 2025 - 1:58pm
Lens 48mm
Panorama-9x Images-115 Fov

Geo Location:
Latitude: 37° 54' 12.9" S
Longitude: 175° 46' 18.06" E

Elevation / Eye Level:
85.5m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2

Viewpoint A Panorama

Existing Photograph

Description:
Image from roadside verge adjacent to Property (P40)
792 State Highway 27 looking Northwest

Proposed Hinuera Solar Farm

Prepared for
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Print at A2 05 Aug 2025 Prepared: LH
Not to Scale Revision 1 Reviewed: SB

FOR CONSENT **Sheet 02**

HinueraSF_LVA_Graphic_Attachment_Attachment3_25_11_17

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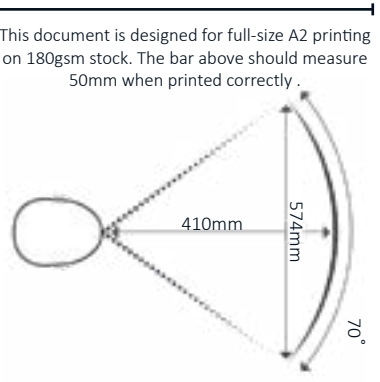
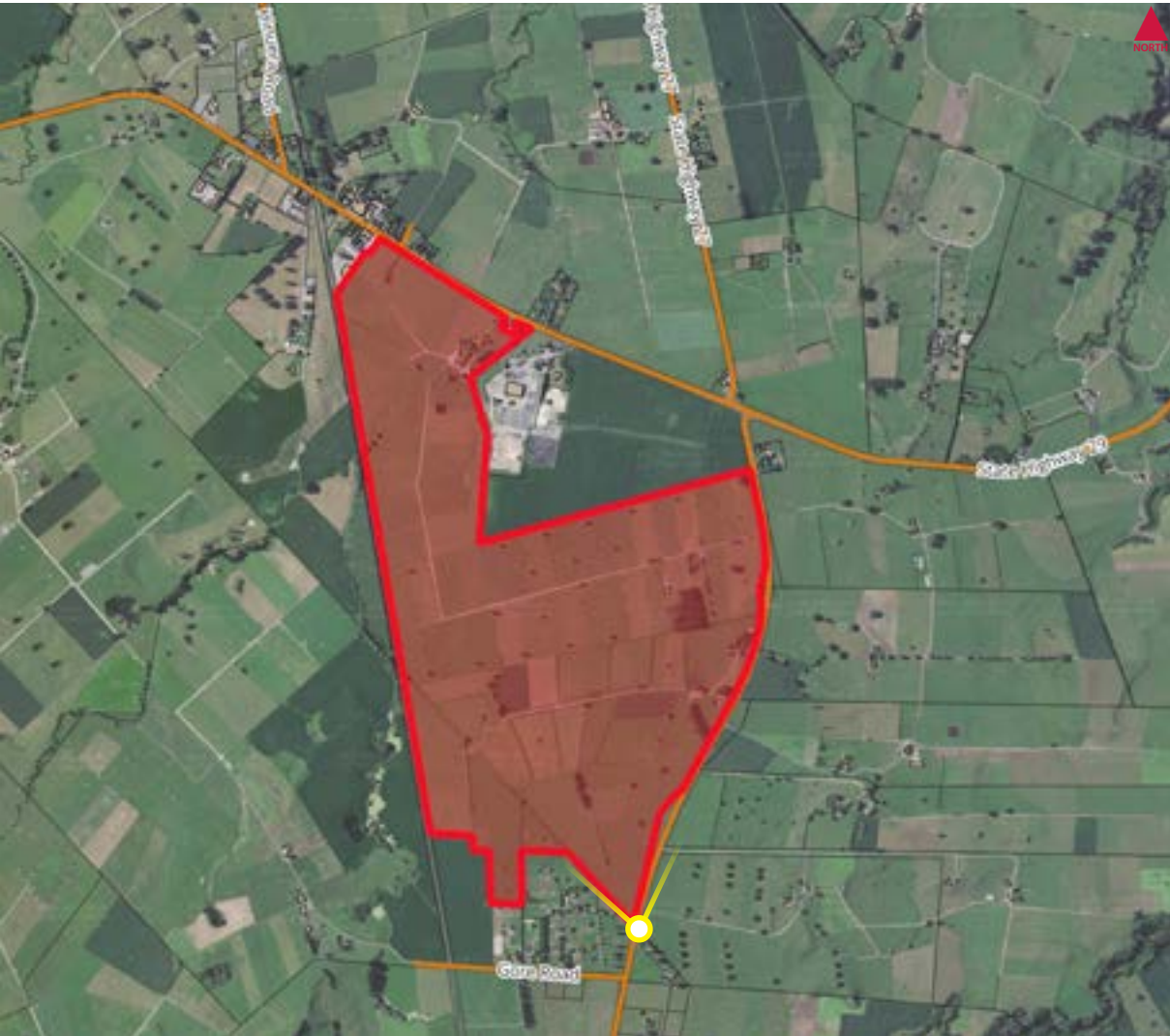


Image Capture:
Iphone 14 Pro
30 Oct 2025 - 1:58pm
Lens 48mm
Panorama-9x Images-115 Fov

Geo Location:
Latitude: 37° 54' 12.9" S
Longitude: 175° 46' 18.06" E

Elevation / Eye Level:
85.5m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2

**Viewpoint A
Visual 01**
Proposed Solar Farm Fixed / Year 1
Description:
Image from roadside verge adjacent to Property (P40)
792 State Highway 27 looking Northwest

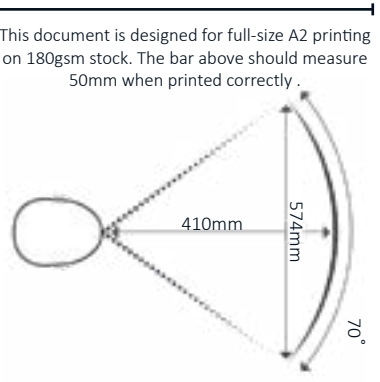
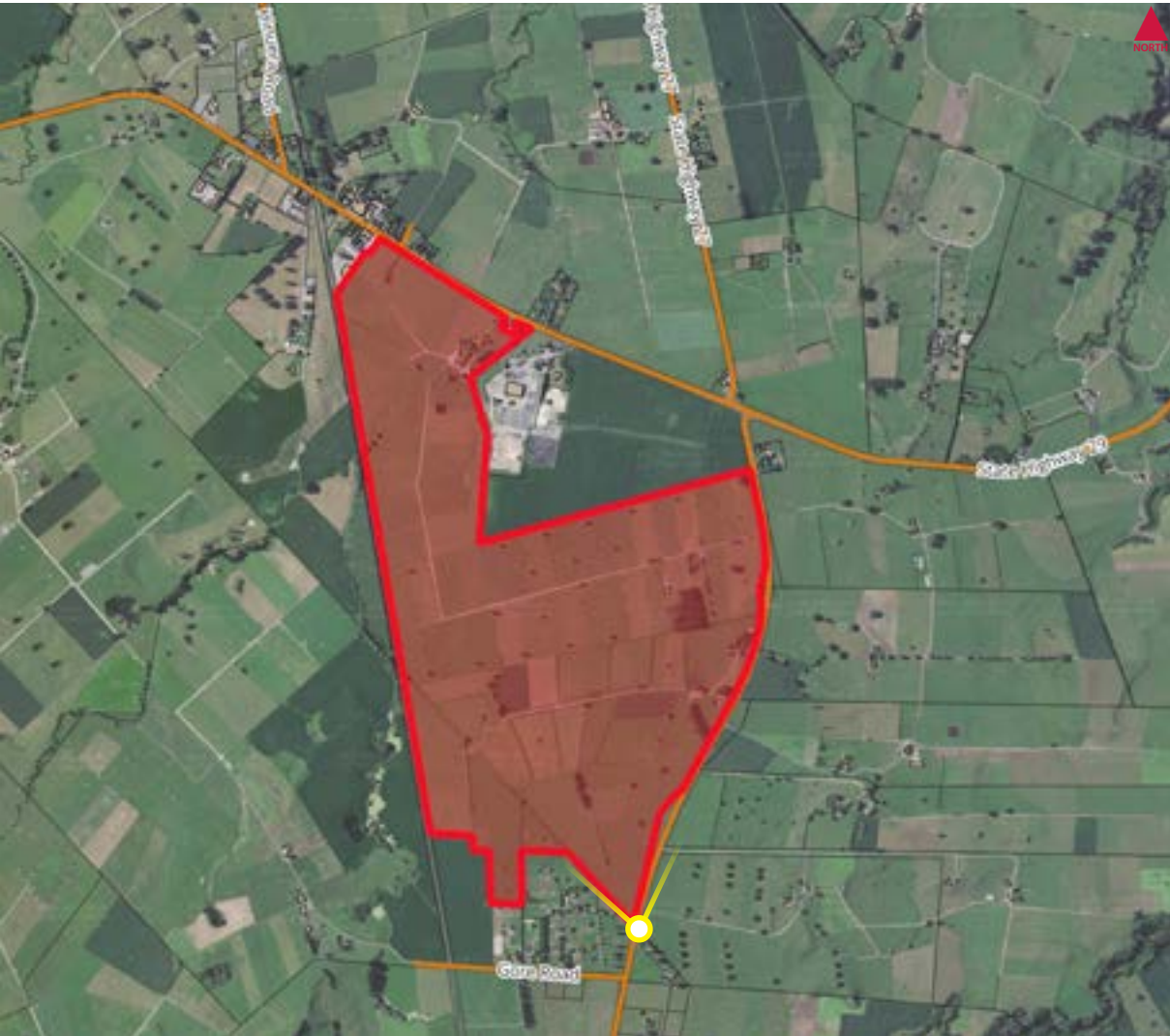


Image Capture:
Iphone 14 Pro
30 Oct 2025 - 1:58pm
Lens 48mm
Panorama-9x Images-115 Fov

Geo Location:
Latitude: 37° 54' 12.9" S
Longitude: 175° 46' 18.06" E

Elevation / Eye Level:
85.5m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2

**Viewpoint A
Visual 01**
Proposed Solar Farm Fixed / Year 5
Description:
Image from roadside verge adjacent to Property (P40)
792 State Highway 27 looking Northwest

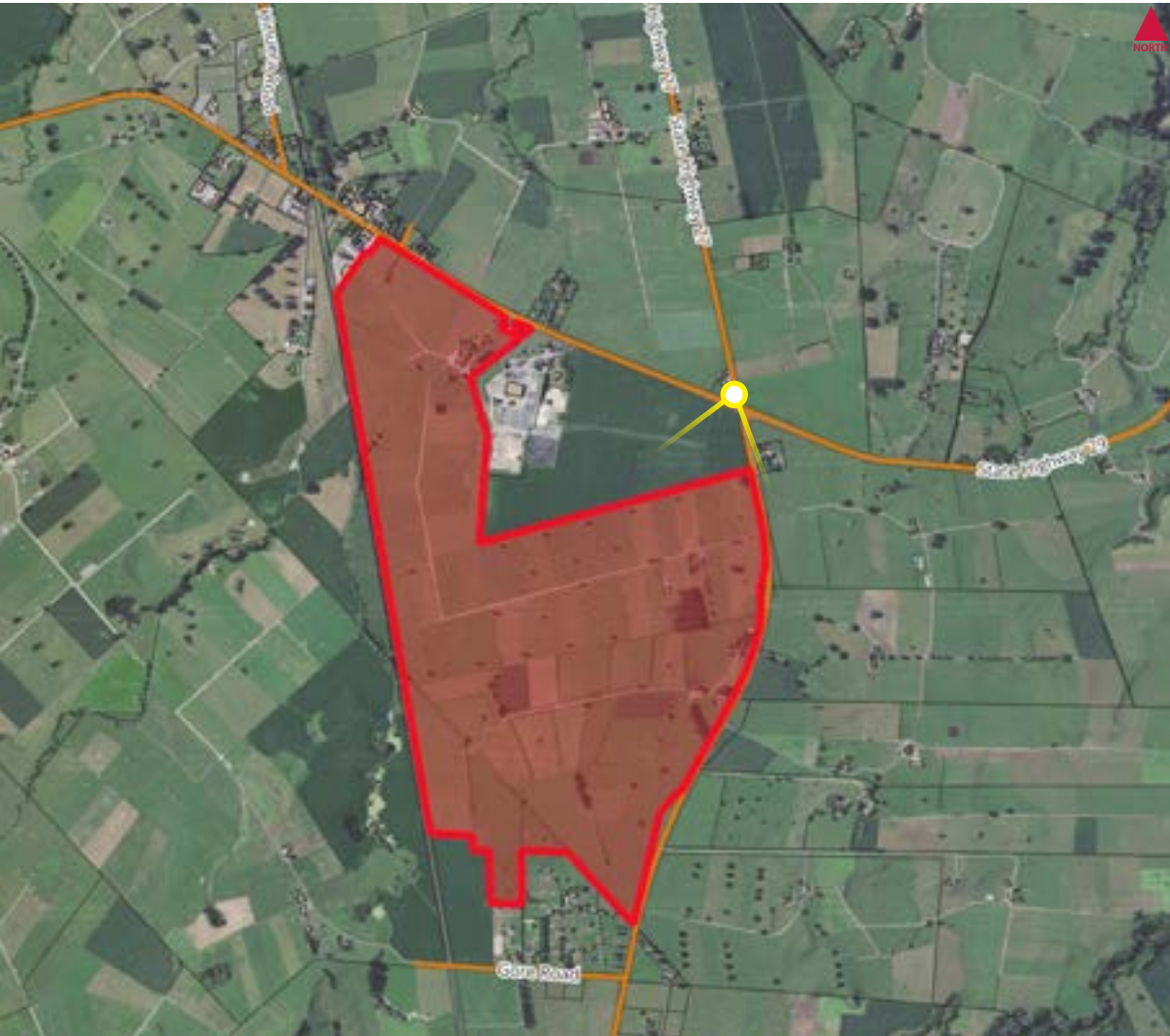


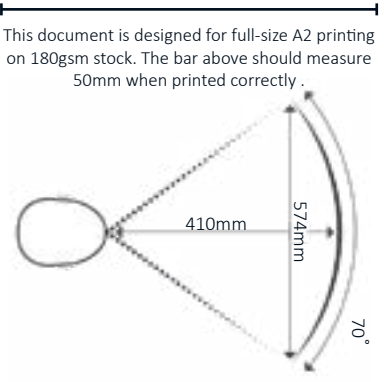
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Iphone 14 Pro
30 Oct 2025 - 12:46pm
Lens 48mm
Panorama-6x Images-123 Fov

Geo Location:
Latitude: 37° 54' 12.9" S
Longitude: 175° 46' 18.06" E

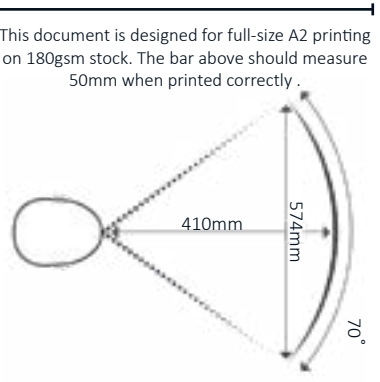
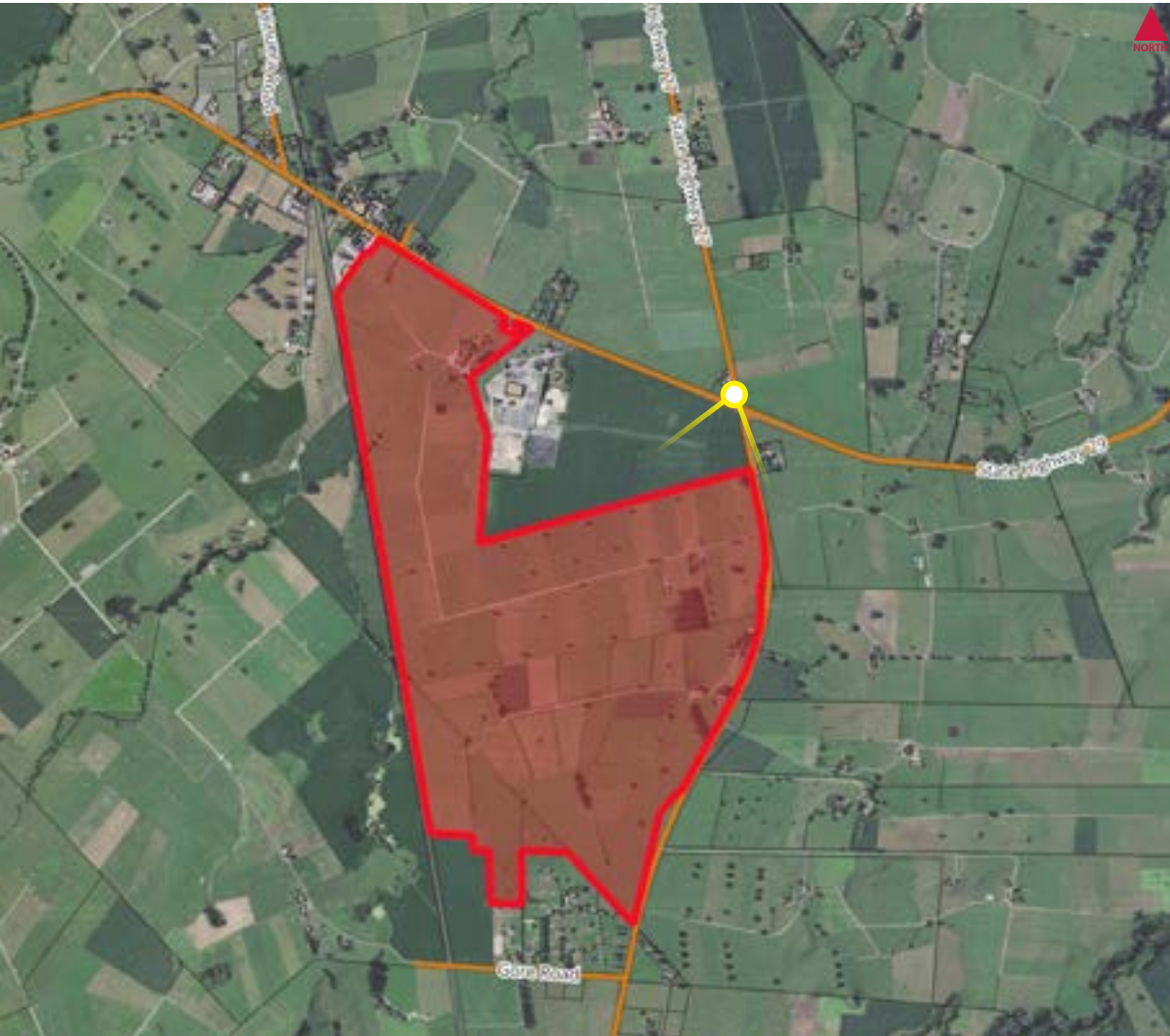
Elevation / Eye Level:
79m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2



Viewpoint B
Panorama
Existing Photograph
Description:
Image from intersection of State Highway 27 x State Highway 29
looking South



Viewpoint B Visual 02

Proposed Solar Farm Fixed / Year 1

Description:
Image from intersection of State Highway 27 x State Highway 29
looking South

Image Capture:
Iphone 14 Pro
30 Oct 2025 - 12:46pm
Lens 48mm
Panorama-6x Images-123 Fov

Geo Location:
Latitude: 37° 54' 12.9" S
Longitude: 175° 46' 18.06" E

Elevation / Eye Level:
79m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2

Proposed Hinuera Solar Farm

Prepared for
Harmony

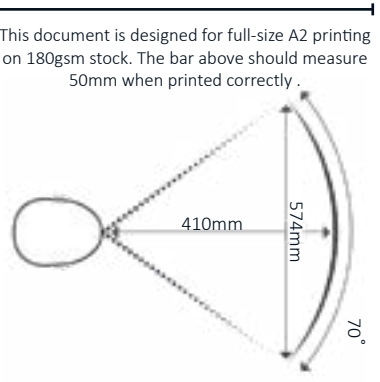
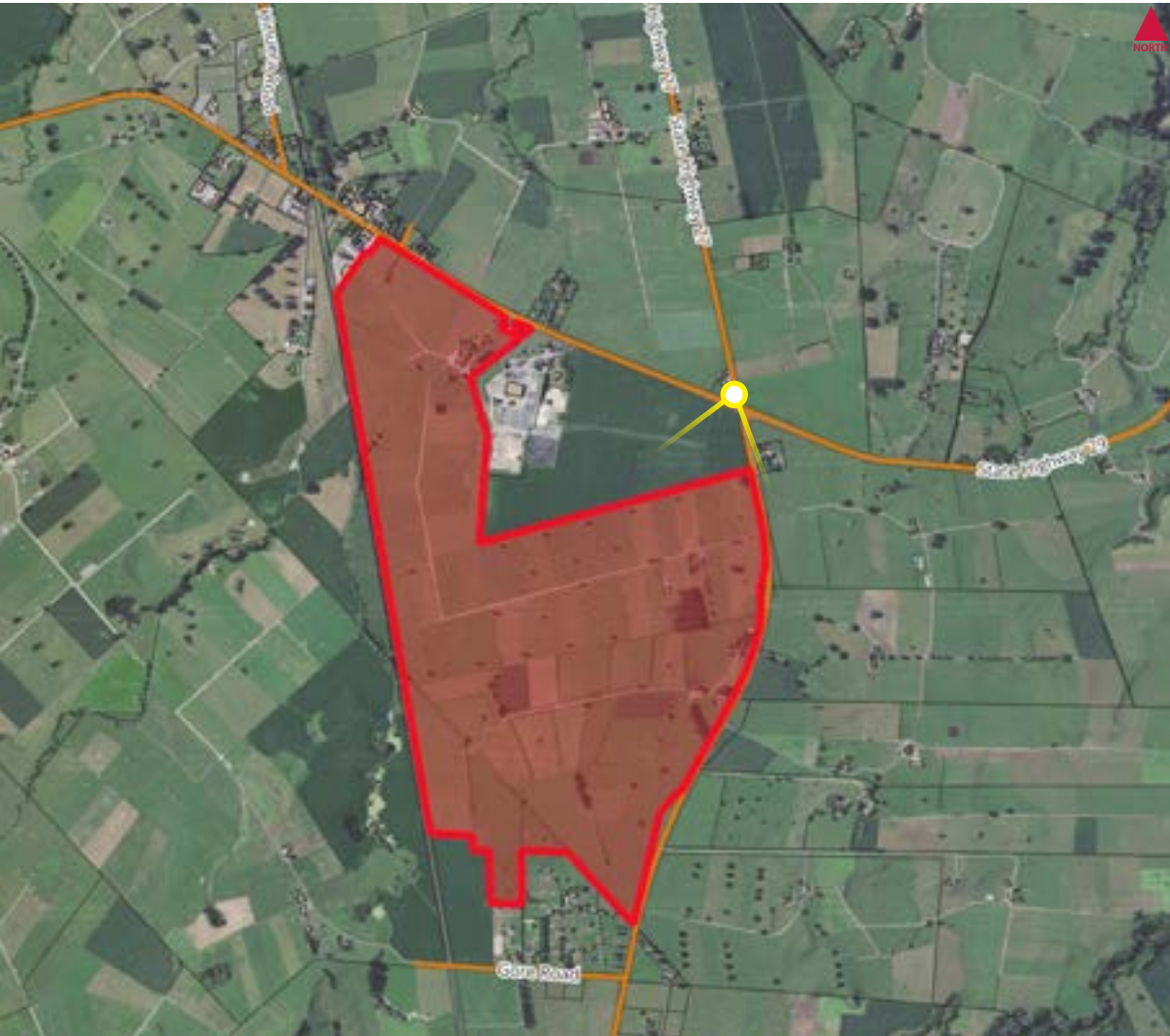
Print at A2 05 Aug 2025 Prepared: LH
Not to Scale Revision 1 Reviewed: SB

FOR CONSENT **Sheet 06**

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Viewpoint B
Visual 02

Proposed Solar Farm Fixed / Year 5

Description:
Image from intersection of State Highway 27 x State Highway 29
looking South

Proposed Hinuera Solar Farm

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FOR CONSENT Sheet 07

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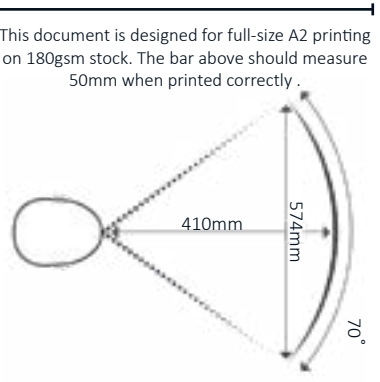
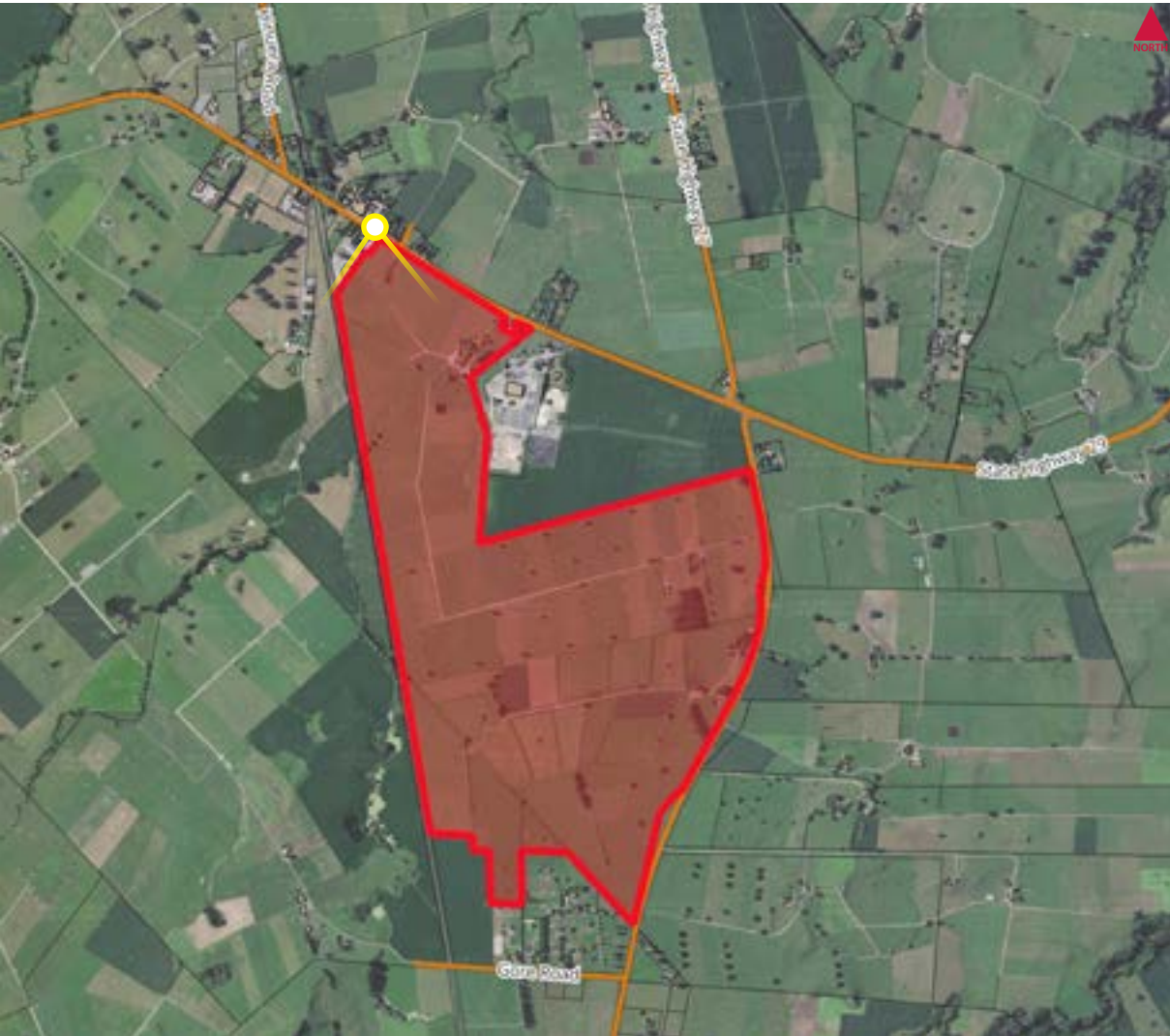


Image Capture:
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30 Oct 2025 - 2:05pm
Lens 48mm
Panorama-8x Images-100 Fov

Geo Location:
Latitude: 37° 52' 59.592" S
Longitude: 175° 45' 44.442" E

Elevation / Eye Level:
78.5m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2

Viewpoint C
Panorama
Existing Photograph
Description:
Image from footpath adjacent to Property (P8) 4784
State Highway 29 looking South

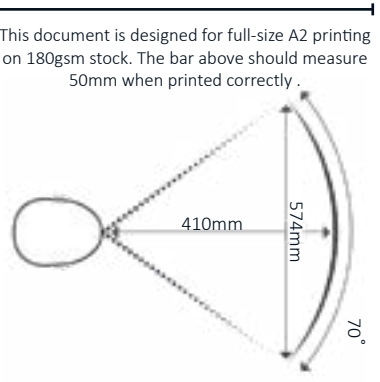
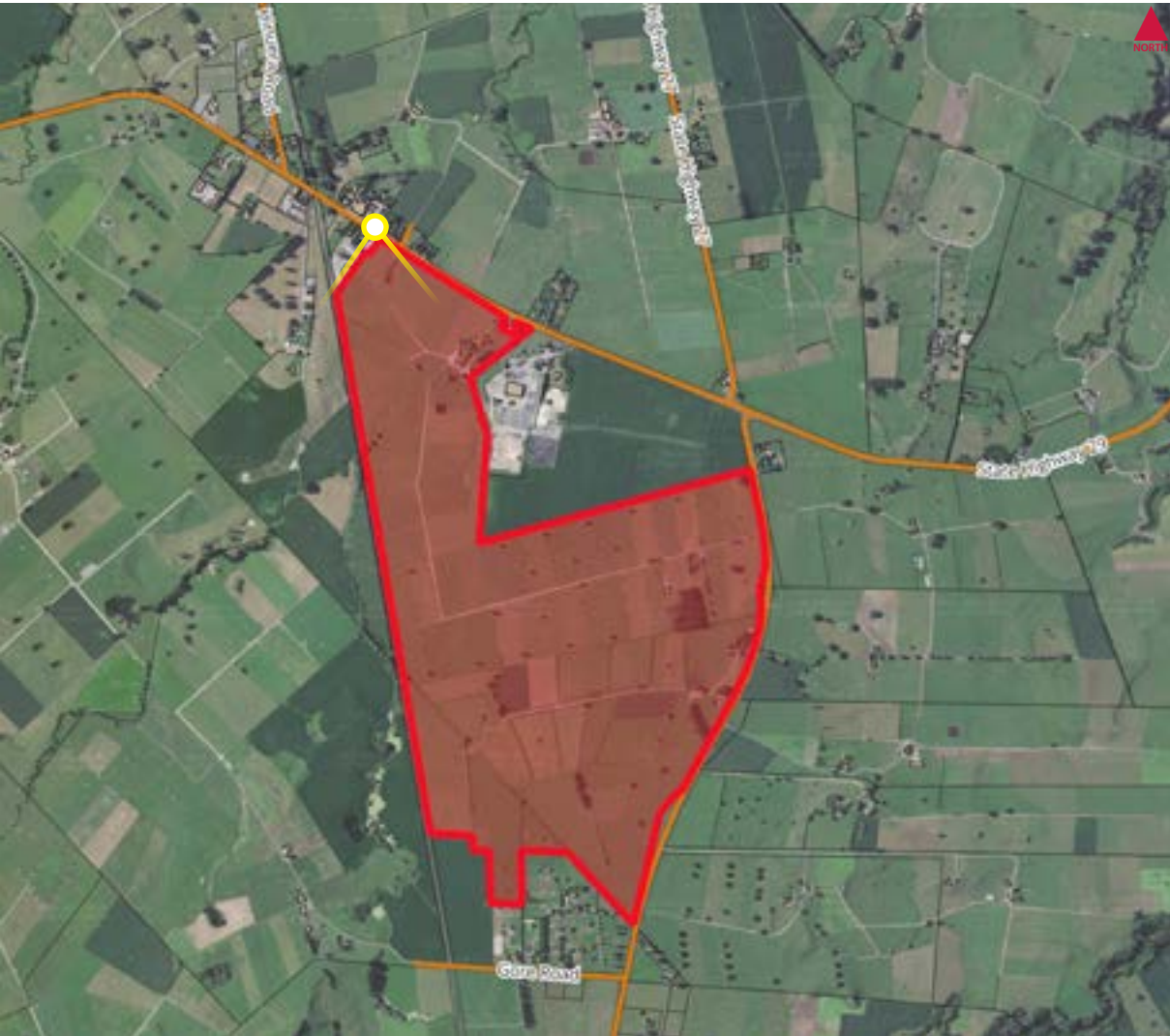


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Iphone 14 Pro
30 Oct 2025 - 2:05pm
Lens 48mm
Panorama-8x Images-100 Fov

Geo Location:
Latitude: 37° 52' 59.592" S
Longitude: 175° 45' 44.442" E

Elevation / Eye Level:
78.5m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2

Viewpoint C
Visual 03
Proposed Solar Farm Fixed / Year 1
Description:
Image from footpath adjacent to Property (P8) 4784
State Highway 29 looking South

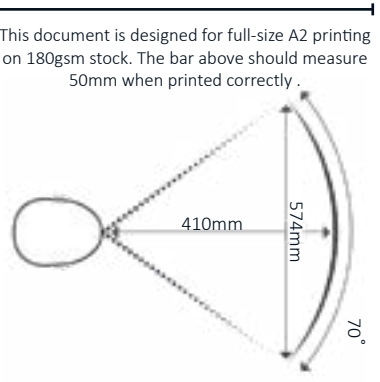
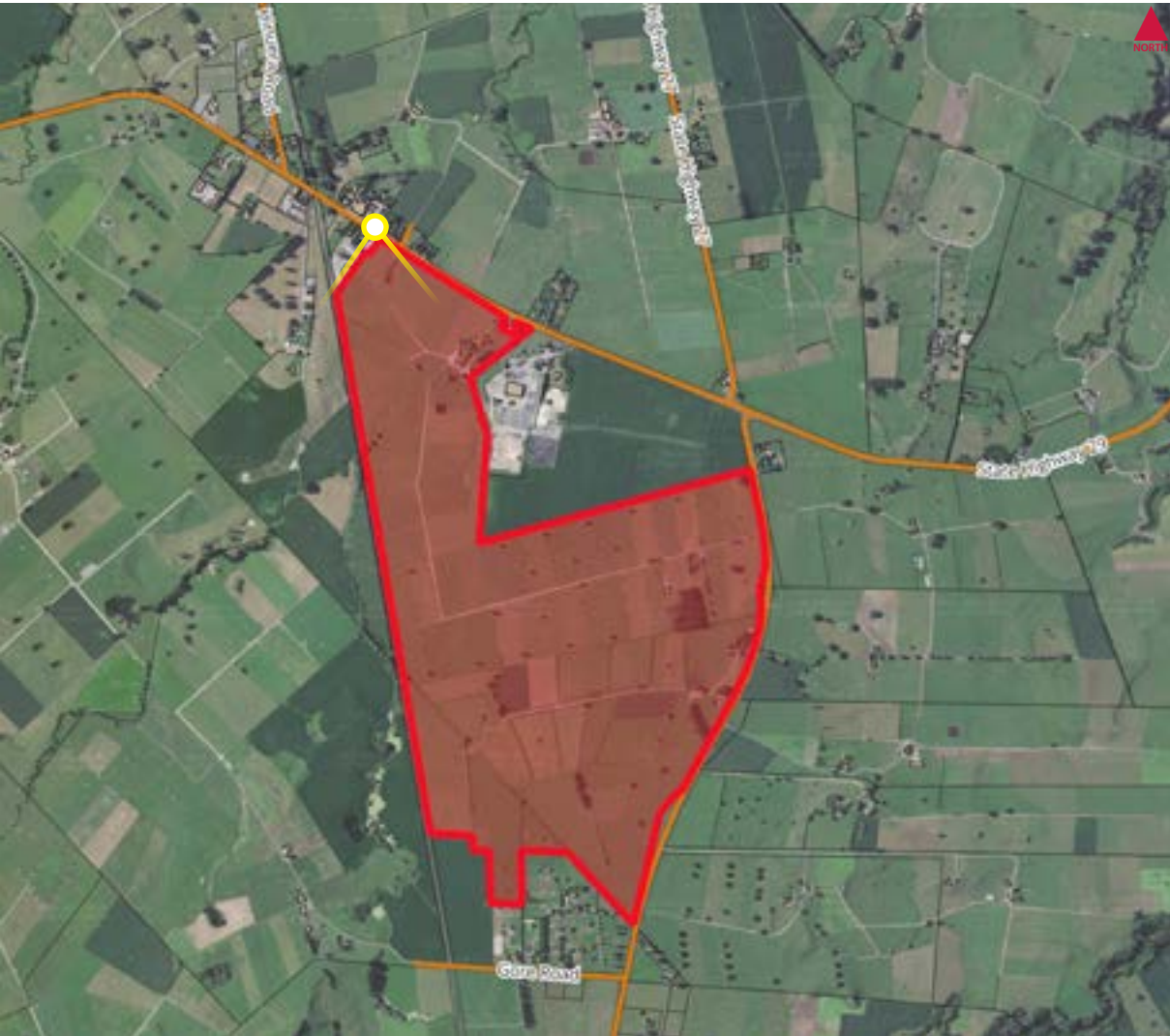


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Iphone 14 Pro
30 Oct 2025 - 2:05pm
Lens 48mm
Panorama-8x Images-100 Fov

Geo Location:
Latitude: 37° 52' 59.592" S
Longitude: 175° 45' 44.442" E

Elevation / Eye Level:
78.5m
1.8m

Field of View:
70° Horizontal

Reading Distance:
410mm @ A2

Viewpoint C
Visual 03
Proposed Solar Farm Fixed / Year 5
Description:
Image from footpath adjacent to Property (P8) 4784
State Highway 29 looking South

Proposed Hinuera Solar Farm

Prepared for
Harmony

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FOR CONSENT **Sheet 10**

HinueraSF_LVA_Graphic_Attachment_Attachment3_25_11_17

VISUALISATION METHODOLOGY

OVERVIEW

The visualisations contained in this document have been prepared in accordance with the New Zealand Institute of Landscape Architects Best Practice Guide for Visual Simulations (BPG10.2 dated November 2010).

The main objective of a visualisation (or visual simulation) is to represent a proposed activity, modification, or change in the observed landscape as realistically and accurately as possible. A visualisation provides a two-dimensional illustrative view of a proposed activity from a specific viewpoint, as depicted in a photograph and as it would be perceived in real life with the human eye.

It must be noted that visualisations have limitations. Principally, they are based on the capture of a still image with a fixed field of view, and therefore they are unable to accurately capture the whole experience of being in a particular location.

SELECTION OF VIEWPOINTS

The viewpoints depicted in this document have been selected to provide a range of views of the proposal and its surrounding context. The number of viewpoints provided reflects the nature and scale of the proposal.

It is not possible to select every single viewpoint where a proposal might be visible from- it would result in too many photographs to meaningfully use. Therefore, viewpoints are selected to be representative of the broader range of views available. Identification of viewpoints does not mean an assessment is only taken from those locations, they are simply used to help capture the context to support the assessment.

The viewpoint locations are identified on each Sheet, and also shown on a wider context map. The orientation of the view captured to the nearest main compass point is also indicated. These have been GPS captured to an accuracy of 1.0m or less.

PHOTOGRAPH CAPTURE

Details are provided on each Sheet of what camera has been used to capture the photograph from the viewpoint, together with the lens size (focal length, expressed in the equivalent of a 35mm film camera), the date & time of the photograph, its GPS location, the height at which the photo has been taken, and the corresponding field of view that is depicted in the image.

For each viewpoint, a panoramic image is captured to illustrate the full context of the proposal. To capture these images, the camera is positioned at eye level and kept perfectly level—without any tilt—using a tripod with a bubble level. A sequence of photographs is then taken at 10-degree intervals, ensuring at least 50% overlap between frames. This approach minimizes distortion during the merging and blending process within the panoramic software.

CONTEXT INFORMATION

When the photographs are taken, field notes are also captured to provide an overview of the scene. A Nikon Forestry Pro laser rangefinder is then used to identify the heights and distance’s from the viewer of recognisable points in the scene (such as the high points of trees, landforms, buildings or other infrastructure). Up to 5 such points are captured for each viewpoint.

Additionally, the GPS location and lens height of the camera is captured.

DEVELOP SITE MODEL

A site model is created be accessing publicly available Lidar data, and is extracted with sufficient context to encompass all viewpoint locations and identifiable landscape features. The Lidar information is converted into contours using GIS software (QGIS) and then imported into Vectorworks Landmarks to develop a site land-form model.

A 3D model of the proposal is generated using data provided by the client, which is then integrated with the site land-form model. Additional site markers and features such as power poles, streetlights, buildings, and fences (where heights and locations are known) are added to use as scale markers when setting up the CGI view.

ALIGNING MODEL WITH PANORAMA

Viewpoint locations are incorporated into the site model using GPS location data, which precisely establishes their geographic coordinates within the model. Elevation data is obtained by intersecting the viewpoint locations with the site model, thereby determining the altitude of each viewpoint.

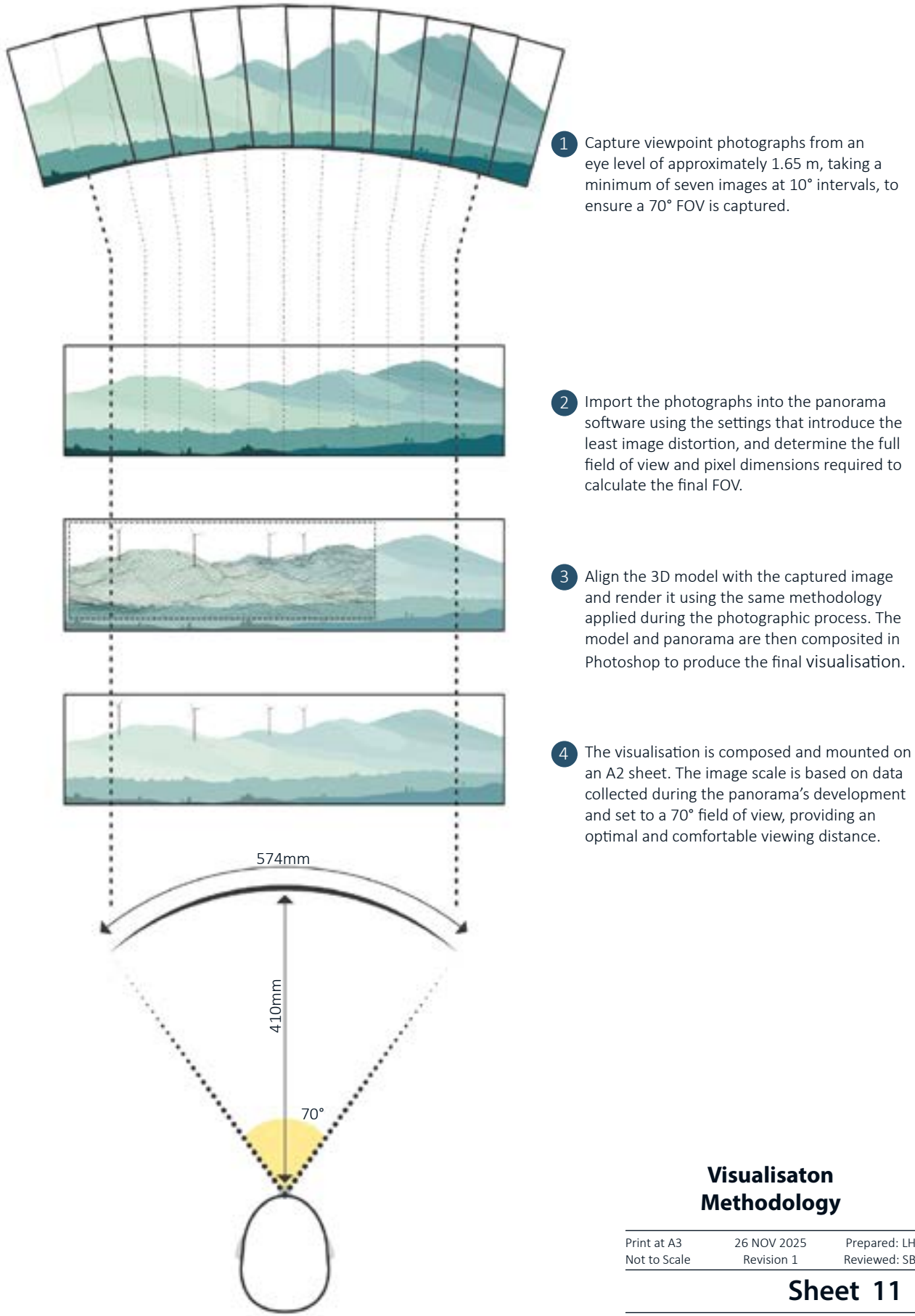
Virtual cameras within the software are configured to correspond with photographed viewpoints. Information extracted from the photograph data is entered into the virtual camera to replicate the settings of the original image (such as focal length). The virtual camera is then slightly adjusted to ensure that the existing site features within the model align and accurately overlay with the photograph. The finalised virtual cameras are exported and rendered with global sun and shadow settings setup to match the date and time of the corresponding photographed viewpoint.

FORMALISING VISUALISATIONS

A composite image is generated using the exported render from Vectorworks and the original photograph, built as layers into Adobe Photoshop. They are then edited to accurately integrate the two, primarily by removing elements of the image or the render that in real life would be situated behind other elements (for example, if part of the proposal is located behind a tree, then those parts of the render that would be hidden are erased).

The visualisations are then mounted into a document using Adobe InDesign. At Wayfinder this is done by mounting the original image on the first page, and then perfectly aligning the visualisation on a second page. This allows the viewer to flick between the two pages to better understand the proposed change. Information such as the lens size, location, date of image and reading distance are added to the mounted images.

VISUALISATION PROCESS DIAGRAM



Visualisaton Methodology

Print at A3
Not to Scale

26 NOV 2025
Revision 1

Prepared: LH
Reviewed: SB

Sheet 11