

THE HILL, ELLERSLIE

GRAPHIC SUPPLEMENT

NOVEMBER 2021



The Hill, Ellerslie



Contents

MAPS

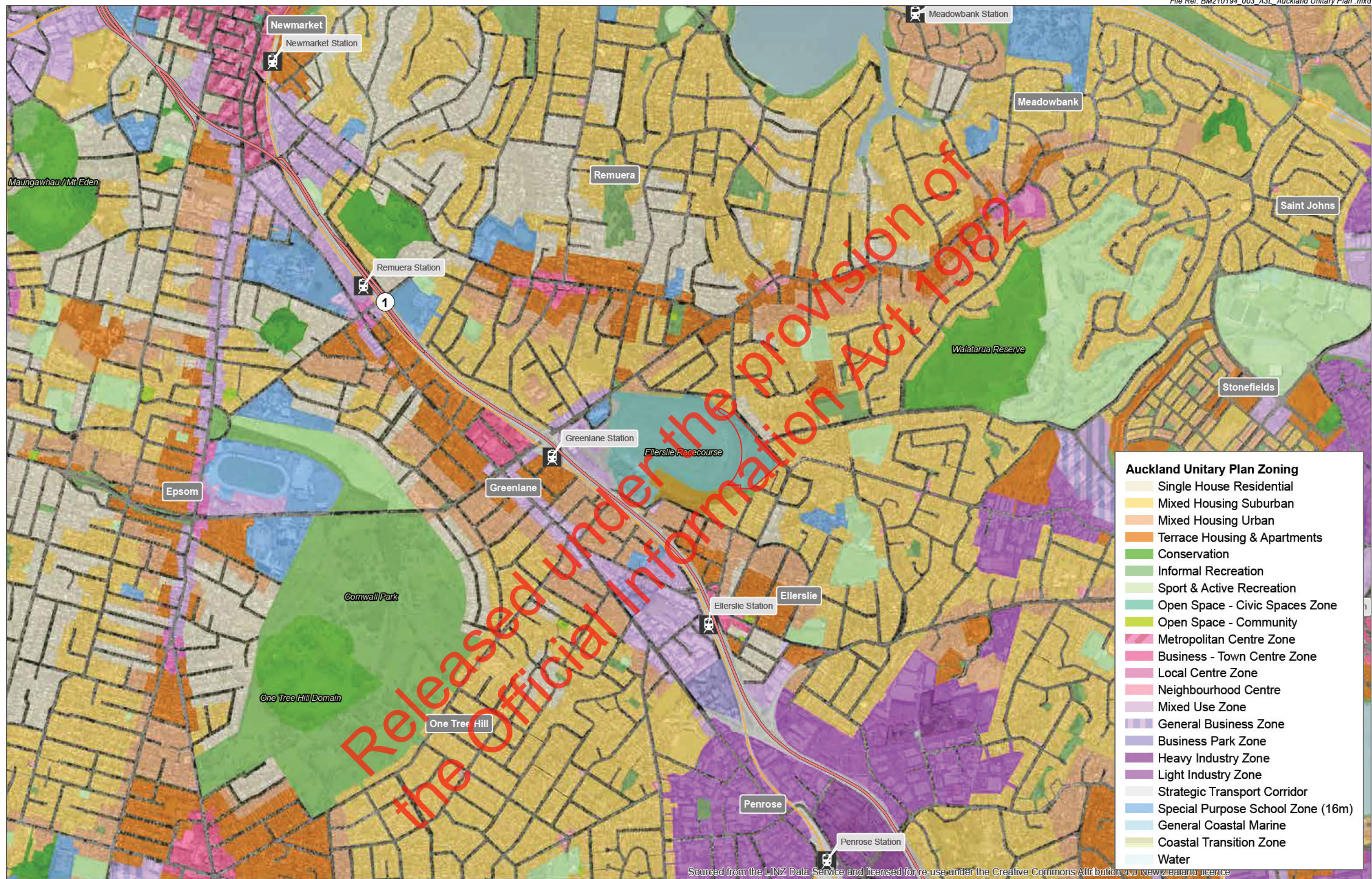
- FIGURE 1: Wider Site Context
- FIGURE 2: Site Context
- FIGURE 3: Auckland Unitary Plan

VISUAL SIMULATIONS

- FIGURE 4: Viewpoint Locations
- VS 1A: View from Ladies Mile looking South - Panoramas (Existing & Proposed View)
- VS 1B: View from Ladies Mile looking South - Single 50mm Frame (Existing View)
- VS 1C: View from Ladies Mile looking South - Single 50mm Frame (Proposed View)
- VS 2A: View from Abbots Way looking South-West - Panoramas (Existing & Proposed View)
- VS 2B: View from Abbots Way looking South-West - Single 50mm Frame (Existing View)
- VS 2C: View from Abbots Way looking South-West - Single 50mm Frame (Proposed View)
- VS 3A: View from Umere Crescent looking North-West - Panorama (Existing & Proposed View)
- VS 3B: View from Umere Crescent looking North-West - Single 50mm Frame (Existing View)
- VS 3C: View from Umere Crescent looking North-West - Single 50mm Frame (Proposed View)
- VS 4A: View from Derby Downs Place looking North-West - Panorama (Existing & Proposed View)
- VS 4B: View from Derby Downs Place looking North-West - Single 50mm Frame (Existing View)
- VS 4C: View from Derby Downs Place looking North-West - Single 50mm Frame (Proposed View)
- VP 5: View from Liston Park looking South-West - Single 50mm Frame (Existing View)
- VP 6: View from Derby Downs looking North-East - Panorama (Existing View)
- VP 7: View from Lonsdale Street looking North-East - Single 50mm Frame (Existing View)
- VP 8: View from Somerfield Street looking North-East - Single 50mm Frame (Existing View)
- VP 9: View from Ladies Mile looking North-East - Single 50mm Frame (Existing View)

FIGURE 5: Methodology - Visual Simulations









Existing View



Proposed View



Existing View



Proposed View



Existing View



Proposed View



Existing View



Proposed View



Existing View



Proposed View



Existing View



Proposed View



Existing View



Proposed View



Existing View



Proposed View



Existing View



Existing View



Existing View



Proposed View



Proposed View

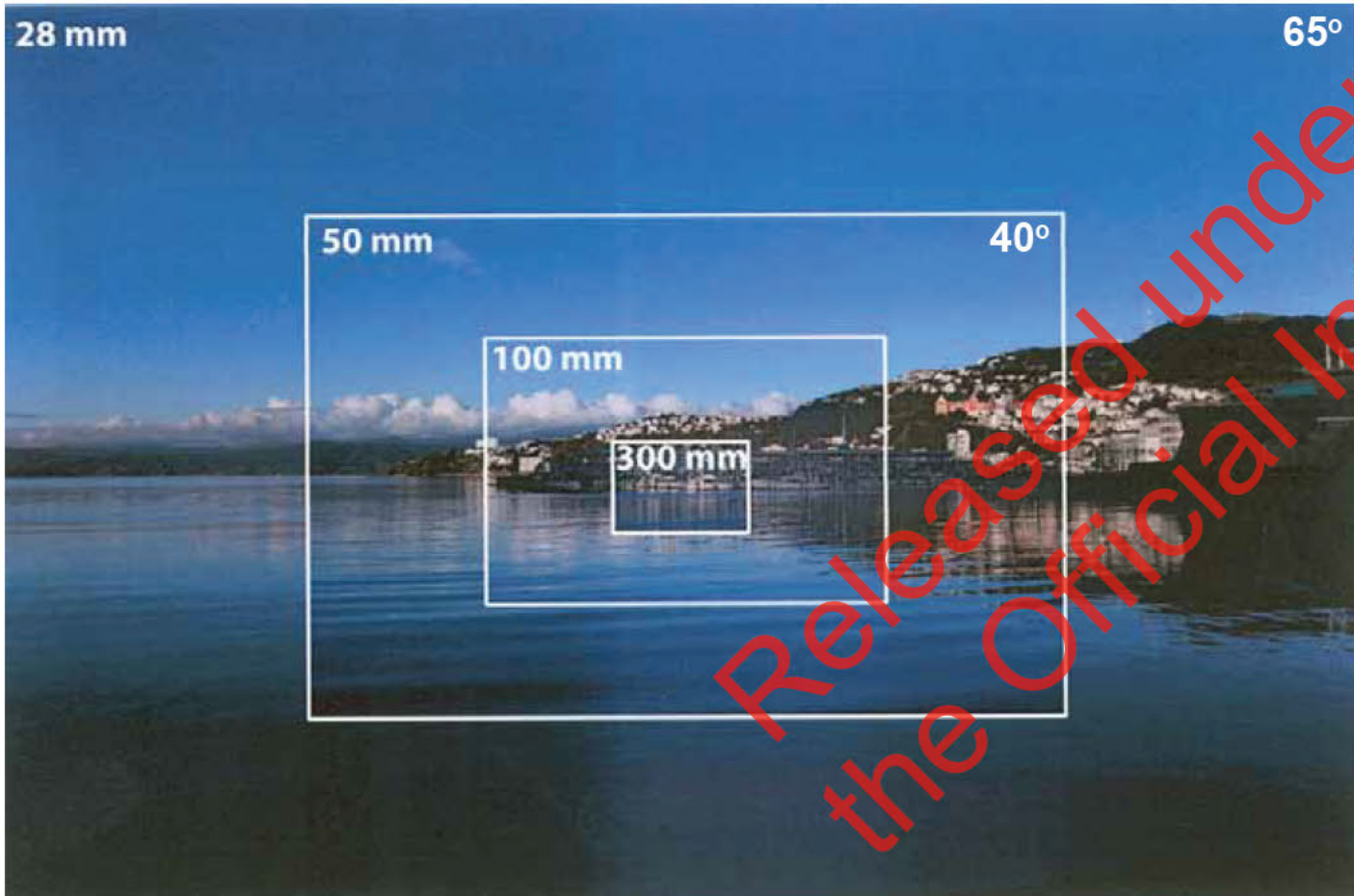
SITE VISIT & PHOTOGRAPHY

Site photographs were taken with a Canon digital SLR camera fitted with a 50mm focal length lens, mounted on a tripod and panoramic head. A series of photos were taken at predetermined viewpoints, situated on public land. The locations of each viewpoint were fixed by using an EMLID Reach2 GPS Rover unit.

NZILA GUIDELINES & PANORAMA PREPARATION

The visualisations have been produced in accordance with the NZILA Best Practice Guidelines for Visual Simulations (BPG 10.2) and also adhere to Boffa Miskell’s internal Visualisation Guidelines.

Camera lenses of different focal lengths capture images with differing fields of view. To understand how illusions are created by different lens sizes, one must understand depth of field and how “depth of field” and “field of view” are related. As can be seen below (derived from Fig 9 of the NZILA BPG), a photo taken with a 28mm lens will provide a horizontal field of view of 65° - using a 50mm lens will provide a “cropped” (40°) version of the same view. The same image size can also be achieved by taking multiple 50mm photos in “portrait” mode, and using digital stitching software to merge and crop to 65° or 40°.



COMPOSITING

Virtual camera views were then created in 3D modelling software, and a combination of 3D contour data and 3D engineering drawings turned on in each of these views. These were then matched to the corresponding photographic panorama, using identifiable features in the landscape and the characteristics of the camera to match the two together. The visualisations were then assembled using graphic design software.

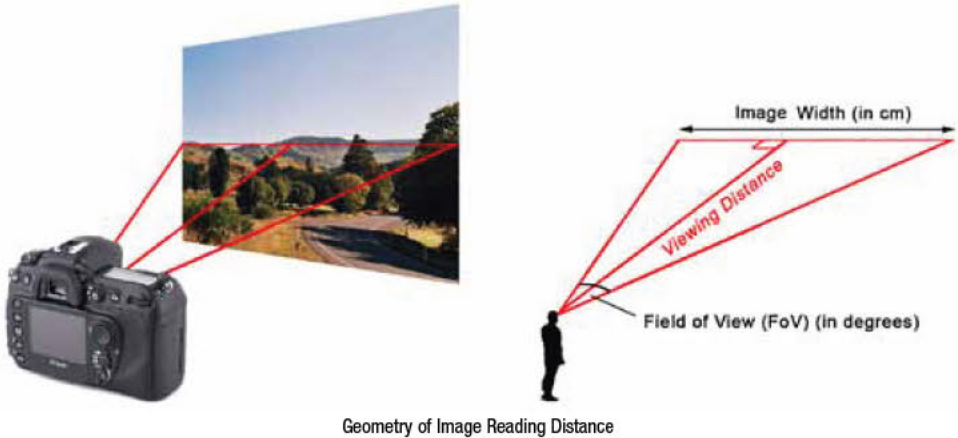
RECOMMENDED IMAGE READING DISTANCE

Views which have a field of view of 90° should be viewed from a distance of 20 cm when printed at A3
Views which have a field of view of 65° should be viewed from a distance of 31.5cm when printed at A3
Views which have a field of view of 40° should be viewed from a distance of 55 cm when printed at A3

For convenience, Boffa Miskell has adopted image reading distances of 20cm, 30cm and 50cm.

This will ensure that each simulation is viewed as if standing on-site at the actual camera location, and is in accordance with Section 7.11 of the NZILA BPG (reproduced below). Users are encouraged to print these pages on A3 transparency, go to the viewpoint and hold at the specified reading distance in order to verify the methodology.

LENS	HORIZ FoV ¹	PAPER SIZE	ACTUAL IMAGE SIZE ²	READING DISTANCE ³
28mm	65°	A4	277mm W x 185mm H	215mm
		A3	400mm W x 267mm H	315mm
		A2	574mm W x 383mm H	450mm
50mm	40°	A4	277mm W x 185mm H	380mm
		A3	400mm W x 267mm H	550mm
		A2	574mm W x 383mm H	790mm



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About Boffa Miskell

Boffa Miskell is a leading New Zealand professional services consultancy with offices in Auckland, Hamilton, Tauranga, Wellington, Christchurch, Dunedin and Queenstown. We work with a wide range of local and international private and public sector clients in the areas of planning, urban design, landscape architecture, landscape planning, ecology, biosecurity, cultural heritage, graphics and mapping. Over the past four decades we have built a reputation for professionalism, innovation and excellence. During this time we have been associated with a significant number of projects that have shaped New Zealand's environment.

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