

LOMOND BANKS – LVIA VISUAL REPRESENTATIONS FOR PLANNING SUBMISSION

METHODOLOGY STATEMENT

OVERVIEW

Our methodology is compliant with the latest guidance and best practice set out in the 'Visual Representation of Development Proposals' Landscape Institute Technical Guidance Note O6/19 dated 17TH September 2019.

The previous application used Type 3 Visualisations with an Accurate Visual Representation (AVR) of Level 1 and we were instructed to match as closely as possible to the existing photographs taken previously.

It was agreed with the National Park that our views would be Type 3 Visualisations at AVR Level 1, except for the views around Pierhead that should be shown at AVR Level 2. The views would be shown in both Summer and Winter.

New views of the approach to Balloch Castle plus two views from the Loch were also requested.

EQUIPMENT

Camera:	Nikon D810
Lens:	AF-S NIKKOR 50mm f/1.4G Fixed Lens
Levelling Device:	Nodal Ninja EZ Leveler II
Panoramic Head:	Nodal Ninja NN3 MKII Tripod Head with RD16 II Rotator
Stitching Software:	Photoshop & Camera Raw
Modelling Software;	3DS Max 2018 & AutoCAD LT 2018

PHOTOGRAPHY

To match the original views, it was necessary to take panoramic photographs, which were then stitched together, allowing us to align and crop to match with the existing images at 90° HFoV.

The camera was mounted to the Panoramic Head on a tripod and set at a height of 1.6m above the floor to centre of lens.

The camera was levelled using a mechanical levelling device, and a series of portrait photographs were shot at 15° increments from left to right.

Digital photographs were taken showing the tripod setup to allow us to return to the exact same location. The camera position and direction of view were also recorded by GPS location and Compass using an iPhone 11.

BOAT HIRE

For the two views from the Loch, we hired a Speedboat and driver (Loch Lomond Leisure tel: 0333 577 0715) who advised us of the route that boat tours take around the Loch.

It was hard to keep completely still for Panoramic shots due to being on the water and the weather conditions, so for the further out Viewpoint 25 we captured the entire development in a single 50mm FFS image, as recommended by the latest guidance.

Viewpoint 26 was substantially closer to the site so needed a Panoramic shot, to minimise the number of shots required we mounted the camera in landscape format and took the shots at 20° increments, giving a final 80° HFoV

3D MODELLING AND SCENE

AutoCAD drawing information and the datum point were provided by Anderson Bell + Christie Architects and our modelling was done using 3DS Max 2018.

We set up the 3ds Max scene in mm and then aligned all ordnance survey data at the correct scale, so it matched the location in accordance with the OS coordinate system.

We built an existing site model of any relevant buildings and features, using the architect's data, OS Maps, reference photos and available Lidar data. This would then be used to match the photos.

In one of the 3ds Max viewports the background photography was loaded with the safe frame turned on to ensure the aspect ratio was the same as that of the render. The render output was then matched to that of the image.

We created a Vray camera with the correct lens information and located the camera into position through known knowledge of its real-world coordinate points. Once in position the camera was raised 1.6m to match the height of the real-world camera.

An accurate visible match was made between our model and the photograph, The 3D building model of the proposed development was then imported into the context and matched to the OS data and information supplied by the architect.

Finally, we added an accurate lighting system set to the specific location and time of when the original image was taken.

VIEWPOINT 01: BEN LOMOND WAY

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO5494, -4.589763; General Direction of View: North-West 321°; Date & Time of Photograph – 24/09/21 @ 11.25; Weather/Visibility – Rain/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 01: BEN LOMOND WAY

TYPE 3 VISUALISATION – AVR LEVEL 2 – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO5494, -4.589763; General Direction of View: North-West 321°; Date & Time of Photograph – 24/09/21 @ 11.25; Weather/Visibility – Rain/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 01: BEN LOMOND WAY

TYPE 3 VISUALISATION – AVR LEVEL 3 – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO5494, -4.589763; General Direction of View: North-West 321°; Date & Time of Photograph – 24/09/21 @ 11.25; Weather/Visibility – Rain/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 01: BEN LOMOND WAY

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.OO5494, -4.589763; General Direction of View: North-West 321°; Date & Time of Photograph – 08/12/21 @ 16.06; Weather/Visibility – Fine/Good; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 01: BEN LOMOND WAY

TYPE 3 VISUALISATION – AVR LEVEL 2 – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.OO5494, -4.589763; General Direction of View: North-West 321°; Date & Time of Photograph – 08/12/21 @ 16.06; Weather/Visibility – Fine/Good; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 02: LOCH LOMOND SHORES

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO5600, -4.592513; General Direction of View: North-East 45°; Date & Time of Photograph – 23/09/21 @ 10.38; Weather/Visibility – Rain/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

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TYPE 3 VISUALISATION – AVR LEVEL 2 – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO5600, -4.592513; General Direction of View: North-East 45°; Date & Time of Photograph – 23/09/21 @ 10.38; Weather/Visibility – Rain/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

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VIEWPOINT 02: LOCH LOMOND SHORES

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.005600, -4.592513; General Direction of View: North-East 45°; Date & Time of Photograph – 10/12/21 @ 12.41; Weather/Visibility – Sunny/Clear; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 02: LOCH LOMOND SHORES

TYPE 3 VISUALISATION – AVR LEVEL 2 – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.005600, -4.592513; General Direction of View: North-East 45°; Date & Time of Photograph – 10/12/21 @ 12.41; Weather/Visibility – Sunny/Clear; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT O3: MAID OF THE LOCH SLIPWAY

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO8808, -4.591770; General Direction of View: South-East 149°; Date & Time of Photograph – 24/09/21 @ 11.57; Weather/Visibility – Rain/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT O3: MAID OF THE LOCH SLIPWAY

TYPE 3 VISUALISATION – AVR LEVEL 2 – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO8808, -4.591770; General Direction of View: South-East 149°; Date & Time of Photograph – 24/09/21 @ 11.57; Weather/Visibility – Rain/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 03: MAID OF THE LOCH SLIPWAY

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.OO8808, -4.591770; General Direction of View: South-East 149°; Date & Time of Photograph – 09/12/21 @ 10.58; Weather/Visibility – Cloudy/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT O3: MAID OF THE LOCH SLIPWAY

TYPE 3 VISUALISATION – AVR LEVEL 0 – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.OO8808, -4.591770; General Direction of View: South-East 149°; Date & Time of Photograph – 09/12/21 @ 10.58; Weather/Visibility – Cloudy/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 03: MAID OF THE LOCH SLIPWAY

TYPE 3 VISUALISATION – AVR LEVEL 2 – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.OO8808, -4.591770; General Direction of View: South-East 149°; Date & Time of Photograph – 09/12/21 @ 10.58; Weather/Visibility – Cloudy/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 04: WOODBANK HOUSE

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO2144, -4.596200; General Direction of View: North-East 40°; Date & Time of Photograph – 23/09/21 @ 17.22; Weather/Visibility – Cloudy/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 04: WOODBANK HOUSE

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Grid Ref: 56.OO2144, -4.596200; General Direction of View: North-East 40°; Date & Time of Photograph – 08/12/21 @ 15.21; Weather/Visibility – Cloudy/Good; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 04: WOODBANK HOUSE

TYPE 3 VISUALISATION – AVR LEVEL 2 – WINTER (90° FIELD OF VIEW)



Grid Ref: 56.OO2144, -4.596200; General Direction of View: North-East 40°; Date & Time of Photograph – 08/12/21 @ 15.21; Weather/Visibility – Cloudy/Good; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens

VIEWPOINT 05: CAMERON HOUSE LODGE, OLD LUSS ROAD (VIEW SOUTH-EAST)

PHOTOGRAPH OF EXISTING LANDSCAPE FROM VIEWPOINT – SUMMER (90° FIELD OF VIEW)



Grid Ref: 56.OO3883, -4.597872; General Direction of View: South 166°; Date & Time of Photograph – 24/09/21 @ 12.40; Weather/Visibility – Overcast/Poor; Camera – Nikon D810, AF-S NIKKOR 50mm f/1.4G Fixed Lens