Verified View Photomontages and CGI's for Proposed Residential Development

at Broomfield, Midleton, Co. Cork

February 2024

Document at A3 prepared by G-Net 3D

NSC Campus, Mahon, Cork

www. gnet3d.com

Verified View Photomontage Methodology

The methodology used to develop the photomontages is based on the "Visual Representation of Development Proposals" Guidance note by the Landscape Institute, 2019.

Photography

The photography was carried out on the September 18th, 2023, using Sony α7RIII full frame camera.
Two lenses 24mm and 50mm prime lens were used for the photography.
A 24mm - wide angle lens was selected for the photography to provide more information on the context around the proposed development. The horizontal field of view of these photographs is 74°. The above-mentioned guidance suggests that 40° angle is the closest to human eye vision and is recommended for the verified photomontages. In the cases where the wide lens is used, there should be an indication of 40° field of view, which is shown on the bottom of all the views.
A recommended viewing distance of the photomontages taken using 50mm lens is around 500mm and 24mm lens - 300mm from eyes when printed on A3 paper.

Geomax Zenith 60 GPS Antennae was used to accurately record the viewpoint and reference markers' coordinates and height levels. Viewpoint locations are indicated in the viewpoint map on the next page, viewpoint coordinates and information on photography is under each photo.

Modelling

Preparation of an accurate 3D model of the proposed residential development, including landscape and infrastructure.

Setup

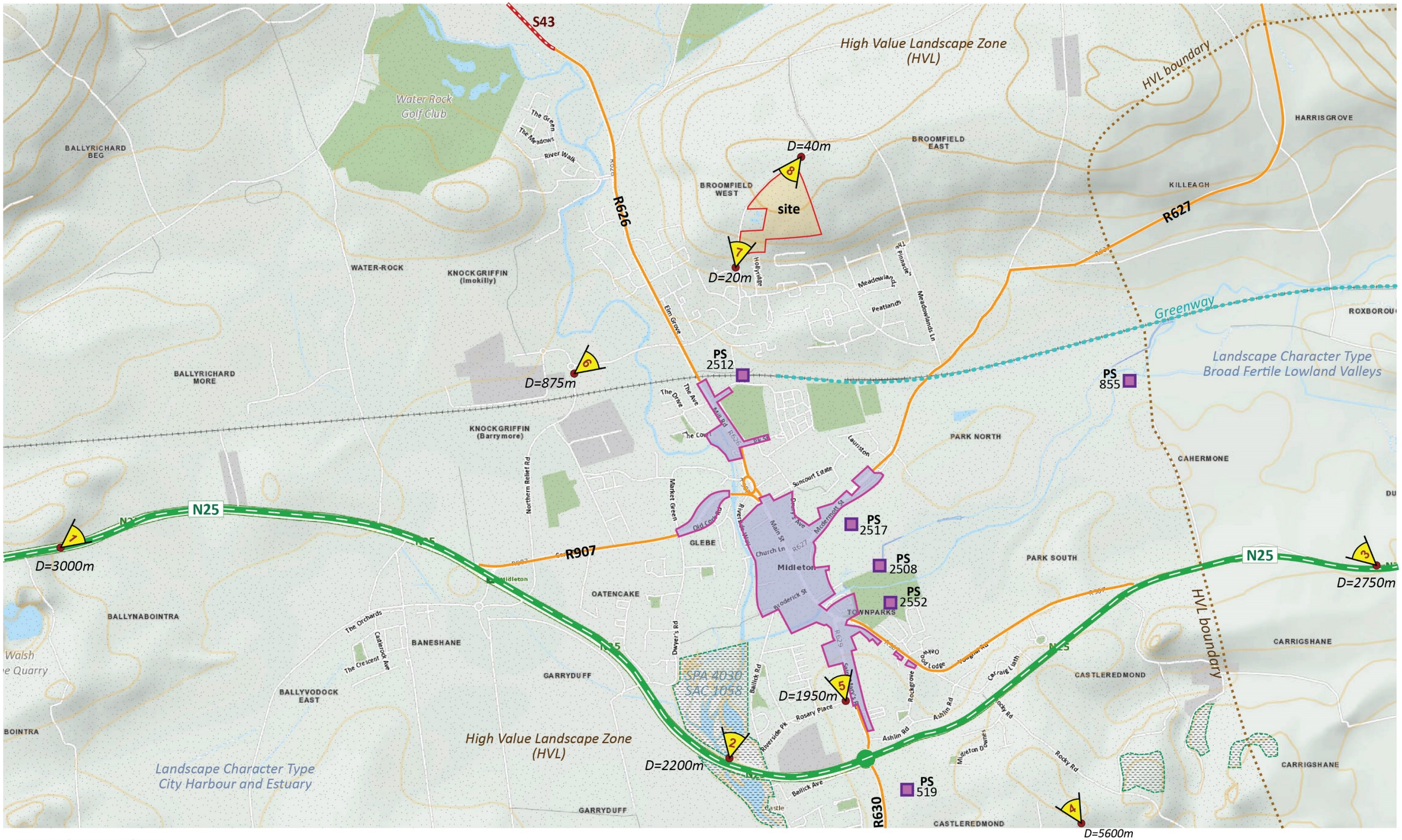
The following information is used to accurately position the model of the proposed development into the photographs:
-Site survey,
-Photographs,
-Verified viewpoint coordinates and height levels are accurately marked on the location OSi map.
To match the 3D camera view with the photograph we take the following steps:
The camera height is taken from information gathered on the levels from where the photos are taken (table below). The height levels of the proposed development are outlined on the site. Focal length is based on the photograph EXIF info.
This data is imported into our 3D software and the 3D camera is matched with the selected photographs. To match the 3D camera accurately we use all the above data and the reference 3D models. The reference 3D models are existing structures i.e. buildings, roads, lamps, etc which are visible on the photographs. These items are modelled based on the survey information. After all the above conditions are fulfilled and we are satisfied that the camera matches correctly, we proceed to the next step.

Rendering

We apply the materials and textures prior to rendering the photomontage images. Light settings are adjusted to match the brightness of the photographs and sun is positioned according to the date and time the photo was taken.

Post processing

This process means incorporating a 3D image of the proposed development into the photograph to achieve the final result.



REFERENCE PLAN LEGEND

- Described Viewpoint with photomontage (*D* = distance to site)
- Potential Viewpoint Locations Considered
- S no. Designated Scenic Route
- National Primary Road
- Regional Road
- Midleton-Youghal Greenway
- PS no. Protected Structure
- Architectural Conservation Area
- High Value Landscape Zone
- Proposed Natural Heritage Areas, Special Areas of Conservation and Special Protection Areas

View 1. As Exists

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 13:19 Camera: Sony a7RIII	Viewpoint location: View from N25 Eastbound at Glebe House Viewpoint Coordinates (ITM): 585099.142;573629.445;18.451

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View 1. Proposed

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 13:19 Camera: Sony a7RIII	Viewpoint location: View from N25 Eastbound at Glebe House Viewpoint Coordinates (ITM): 585099.142;573629.445;18.451

Prepared By G-Net 3D

View 2. As Exists

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 12:09 Camera: Sony a7RIII	Viewpoint location: View from N25 at Estuary (Cork Harbour SPA 4030) Viewpoint Coordinates (ITM): 587863.438;572671.345;5.324

Prepared By G-Net 3D

View 2. Proposed

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 12:09 Camera: Sony a7RIII	Viewpoint location: View from N25 at Estuary (Cork Harbour SPA 4030) Viewpoint Coordinates (ITM): 587863.438;572671.345;5.324

Prepared By G-Net 3D

View 3. As Exists

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 10:42 Camera: Sony a7RIII	Viewpoint location: View from N25 Westbound at Dunsfort Viewpoint Coordinates (ITM): 590685.356;573514.870;20.067

Prepared By G-Net 3D

View 3. Proposed

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 10:42 Camera: Sony a7RIII	Viewpoint location: View from N25 Westbound at Dunsfort Viewpoint Coordinates (ITM): 590685.356;573514.870;20.067

Prepared By G-Net 3D

View 4. As Exists

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 11:24 Camera: Sony a7RIII	Viewpoint location: View from L76592 at Scariff Viewpoint Coordinates (ITM): 590096.633;569773.237;83.690

Prepared By G-Net 3D

View 4. Proposed

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 11:24 Camera: Sony a7RIII	Viewpoint location: View from L76592 at Scariff Viewpoint Coordinates (ITM): 590096.633;569773.237;83.690	Prepared By G-Net 3D

View 5. As Exists

< 50 mm 39.6°

50 mm 39.6°>

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 11:44 Camera: Sony a7RIII	Viewpoint location: View from St. Mary's Church (Protected Structure no. 2979) Viewpoint Coordinates (ITM): 588363.005;572957.382;17.135

Prepared By G-Net 3D

View 5. Proposed

< 50 mm 39.6°

50 mm 39.6°>

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 11:44 Camera: Sony a7RIII	Viewpoint location: View from St. Mary's Church (Protected Structure no. 2979) Viewpoint Coordinates (ITM): 588363.005;572957.382;17.135

Prepared By G-Net 3D

View 6. As Exists

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 12:45 Camera: Sony a7RIII	Viewpoint location: View from Northern Relief Road (L3288) above Railway Track Viewpoint Coordinates (ITM): 587173.684;574328.796;13.443

Prepared By G-Net 3D

View 6. Proposed

< 50 mm 39.6°

50 mm 39.6°>

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 12:45 Camera: Sony a7RIII	Viewpoint location: View from Northern Relief Road (L3288) above Railway Track Viewpoint Coordinates (ITM): 587173.684;574328.796;13.443

Prepared By G-Net 3D

View 7. As Exists

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 12:30 Camera: Sony a7RIII	Viewpoint location: View from Local Road L7630 Southwest of Site Viewpoint Coordinates (ITM): 587882.256;574820.458;26.960

Prepared By G-Net 3D

View 7. Proposed

< 24mm 73.7° | <<50 mm 39.6° | 39.6° 50mm>> | 73.7° 24mm >

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 12:30 Camera: Sony a7RIII	Viewpoint location: View from Local Road L7630 Southwest of Site Viewpoint Coordinates (ITM): 587882.256;574820.458;26.960

Prepared By G-Net 3D

View 8. As Exists

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 09:32 Camera: Sony a7RIII	Viewpoint location: View from Local Road L630 Northeast of Site Viewpoint Coordinates (ITM): 588177.959;575311.442;62.763

Prepared By G-Net 3D

View 8. Proposed

Project Name: Broomfield, Midleton, Co. Cork	Photo Date: 18.09.2023 Photo Time: 09:32 Camera: Sony a7RIII	Viewpoint location: View from Local Road L630 Northeast of Site Viewpoint Coordinates (ITM): 588177.959;575311.442;62.763

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CGI Viewpoints

CGI 1

CGI 2

CGI 3

CGI 4

CGI 5