



Verified Photomontages of Proposed Residential Development

At Ballymany, Co. Kildare

February, 2022

Photomontage Methodology

Photography

The photos were taken using Canon EOS REBEL T5i on the September 26th, 2020. Viewpoint map indicated to the right. Viewpoint coordinates and height levels were gathered using GPS equipment.

Modelling

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

Setup

The following information is used to accurately position the model of the proposed development into the photographs:

- Site survey,
- Photographs.

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. 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 result.



Viewpoint Map

View 1. Existing.



View 1. Proposed.



View 2. Existing.



View 2. Proposed.



View 3. Existing.



View 3. Proposed.



View 4. Existing.



View 4. Proposed.



View 5. Existing.



View 5. Proposed.



View 6. Existing.



View 6. Proposed.



View 7. Existing.



View 7. Proposed.



View 8. Existing.



View 8. Proposed.



View 9. Existing.



View 9. Proposed.



View 10. Existing.



View 10. Proposed.



View 11. Existing.



View 11. Proposed.

