



VERIFIED PHOTOMONTAGES

**Of the Proposed Social Housing
Development at**

Clover Hill, Cork

**PREPARED FOR:
O'Mahony Pike Architecture**

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Photomontage Methodology

Photography

The photos for first three of the views were taken using Canon EOS REBEL T5i camera on the February 21st, 2021. The views 4-6 were captured using Sony a7IIIR camera on the September 21st, 2022. Leica GS08plus Smart Antenna was used to accurately record the viewpoint coordinates and height levels. Viewpoint locations are indicated in table and viewpoint map on the right.

Modelling

Preparation of an accurate 3D model of the proposed 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 result.

Viewpoint info

View No	Easting	Northing	Orthometric Height (m)	Camera focal length	Date of photography	Time (24h)
View 1	571249.441	570440.533	9.85	18mm	21/02/2021	12:39
View 2	571526.314	570576.845	12.20	18mm	21/02/2021	12:51
View3	571186.627	570611.070	11.10	14mm	21/02/2021	13:19
View4	571710.891	570275.792	11.177	24mm	21/09/2022	14:34
View 5	571645.047	570380.986	10.711	24mm	21/09/2022	14:43
View 6	571683.257	570389.267	11.903	24mm	21/09/2022	14:53



View 1. Existing



View 1. Proposed



View 2. Existing



View 2. Proposed



View 3. Existing



View 3. Proposed

