

# Photomontages

## PROPOSED DEVELOPMENT ON LANDS AT CAPDOO & ABBEYLANDS, CELBRIDGE ROAD, CLANE, CO. KILDARE.

---

# Photomontage Views

- PM01 From the front of 91 Brooklands looking to entrance East
- Existing
  - Proposed



- PM02 From the rear of 34 Brooklands looking South East
- Existing
  - Proposed



- PM03 From park in front of 114 Brooklands looking North East
- Existing
  - Proposed



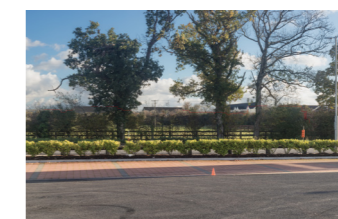
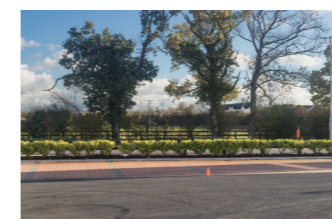
- PM04 From park in front of 131 Brooklands looking North
- Existing
  - Proposed



- PM05 From park in front of 107 Alexandra Walk looking North
- Existing
  - Proposed



- PM06 From Lidl Carpark looking South East
- Existing
  - Proposed





# Photomontage Views

---

- PM07 Local road East across Liffey looking West
- Existing
  - Proposed



- PM08 On R403 looking South
- Existing
  - Proposed







Extracted from Google Earth  
 Imagery (c)2019 Google, Map data (c)2019 Google  
 OSi overlay from Client see original drawings for licenece information.

Name	Camera Locations
Status	Photomontage View Locationsi
Scale	Not to Scale
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>	
Rev:	0


**Westar  
 Investments  
 Limited**



**CSC** | Chris Shackleton Consulting  
[www.shackleton.ie](http://www.shackleton.ie) | [info@shackleton.ie](mailto:info@shackleton.ie)





<p>Name PM01          Status Existing          Reference: From the front of 91 Brooklands          looking to entrance East</p>	<p><b>Westar          Investments          Limited</b></p>	<p><b>Camera location</b>          688144, 727929, 67.1</p> <p><b>Target Direction</b>          688294, 727930, 67.2</p>	<p>Camera Canon 6D Mk 2          Lens Canon EF 50mm          HView Angle Nominal 40 degrees</p> <p>Date/Time: 01/11/2018 13:31</p> <p>Recommended viewing distance with both eyes is 500mm.</p>	 <p><b>CSC</b>   Chris          Shackleton          Consulting  <small>www.shackleton.ie info@shackleton.ie</small></p>
<p><b>Proposed development on lands at Capdoo &amp; Abbeylands,          Celbridge Road, Clane, Co. Kildare.</b></p>				





Name	PM01
Status	Proposed
Reference:	From the front of 91 Brooklands looking to entrance East
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>	
Rev:	0

**Westar  
Investments  
Limited**

**Camera location**  
688144, 727929, 67.1

**Target Direction**  
688294, 727930, 67.2

Camera Canon 6D Mk 2  
Lens Canon EF 50mm  
HView Angle Nominal 40 degrees

Date/Time: 01/11/2018 13:31

Recommended viewing distance with both eyes is 500mm.

<b>CSC</b>	Chris Shackleton Consulting
	<a href="http://www.shackleton.ie">www.shackleton.ie</a> <a href="mailto:info@shackleton.ie">info@shackleton.ie</a>





Name PM02  
 Status Existing  
 Reference: From the rear of 34 Brooklands  
 looking South East

**Westar  
 Investments  
 Limited**

**Camera location**  
 688179, 728042, 67.3

**Target Direction**  
 688296, 727948, 67.9

Camera Canon 6D Mk 2  
 Lens Canon EF 50mm  
 HView Angle Nominal 40 degrees

Date/Time: 01/11/2018 13:52

**CSC** | Chris Shackleton Consulting  
[www.shackleton.ie](http://www.shackleton.ie) | [info@shackleton.ie](mailto:info@shackleton.ie)


**Proposed development on lands at Capdoo & Abbeylands,  
 Celbridge Road, Clane, Co. Kildare.**

Rev:  
 0

Recommended viewing distance with both eyes is 500mm.






<p>Name PM02          Status Proposed          Reference: From the rear of 34 Brooklands          looking South East</p>	<p><b>Westar          Investments          Limited</b></p>	<p><b>Camera location</b>          688179, 728042, 67.3</p> <p><b>Target Direction</b>          688296, 727948, 67.9</p>	<p>Camera Canon 6D Mk 2          Lens Canon EF 50mm          HView Angle Nominal 40 degrees</p> <p>Date/Time: 01/11/2018 13:52</p> <p>Recommended viewing distance with both eyes is 500mm.</p>	 <p><b>CSC</b>   Chris          Shackleton          Consulting  <small>www.shackleton.ie info@shackleton.ie</small></p>
<p><b>Proposed development on lands at Capdoo &amp; Abbeylands,          Celbridge Road, Clane, Co. Kildare.</b></p>				





Name PM03 Status Existing Reference: From park in front of 114 Brooklands looking North East	<b>Westar Investments Limited</b>	<b>Camera location</b> 688255, 727827, 67.5  <b>Target Direction</b> 688345, 727947, 67.1	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees  Date/Time: 01/11/2018 14:02  Recommended viewing distance with both eyes is 500mm.	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>				





Name PM03  
 Status Proposed  
 Reference: From park in front of 114 Brooklands  
 looking North East

**Westar  
 Investments  
 Limited**

**Camera location**  
 688255, 727827, 67.5

**Target Direction**  
 688345, 727947, 67.1

Camera Canon 6D Mk 2  
 Lens Canon EF 50mm  
 HView Angle Nominal 40 degrees

Date/Time: 01/11/2018 14:02




**Proposed development on lands at Capdoo & Abbeylands,  
 Celbridge Road, Clane, Co. Kildare.**

Rev:  
 0

Recommended viewing distance with both eyes is 500mm.





Name PM04 Status Existing Reference: From park in front of 131 Brooklands looking North	<b>Westar Investments Limited</b>	<b>Camera location</b> 688324, 727759, 67.7  <b>Target Direction</b> 688380, 727898, 68.3	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees  Date/Time: 01/11/2018 14:17  Recommended viewing distance with both eyes is 500mm.	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>				





Name PM04  
 Status Proposed  
 Reference: From park in front of 131 Brooklands  
 looking North

**Proposed development on lands at Capdoo & Abbeylands,  
 Celbridge Road, Clane, Co. Kildare.**

Rev:  
 0

**Westar  
 Investments  
 Limited**

**Camera location**  
 688324, 727759, 67.7

**Target Direction**  
 688380, 727898, 68.3

Camera Canon 6D Mk 2  
 Lens Canon EF 50mm  
 HView Angle Nominal 40 degrees

Date/Time: 01/11/2018 14:17

Recommended viewing distance with both eyes is 500mm.







Name PM05  
 Status Existing  
 Reference: From park in front of 107 Alexandra Walk  
 looking North

**Proposed development on lands at Capdoo & Abbeylands,  
 Celbridge Road, Clane, Co. Kildare.**

Rev:  
 0

**Westar  
 Investments  
 Limited**

**Camera location**  
 688435, 727598, 67.6

**Target Direction**  
 688427, 727752, 67.8

Camera Canon 6D Mk 2  
 Lens Canon EF 50mm  
 HView Angle Nominal 40 degrees


Date/Time: 21/10/2019 10:46

Recommended viewing distance with both eyes is 500mm.

**CSC** | Chris  
 Shackleton  
 Consulting  
[www.shackleton.ie](http://www.shackleton.ie) [info@shackleton.ie](mailto:info@shackleton.ie)






Name PM05 Status Proposed Reference: From park in front of 107 Alexandra Walk looking North	<b>Westar Investments Limited</b>	<b>Camera location</b> 688435, 727598, 67.6  <b>Target Direction</b> 688427, 727752, 67.8	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees  Date/Time: 21/10/2019 10:46  Recommended viewing distance with both eyes is 500mm.	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>				






Name PM06 Status Existing Reference: From Lidl Carpark looking South East	<b>Westar Investments Limited</b>	<b>Camera location</b> 688109, 728293, 67.1  <b>Target Direction</b> 688180, 728161, 68.1	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees  Date/Time: 01/11/2018 15:58  Recommended viewing distance with both eyes is 500mm.	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>				






Name PM06 Status Proposed Reference: From Lidl Carpark looking South East	<b>Westar Investments Limited</b>	<b>Camera location</b> 688109, 728293, 67.1  <b>Target Direction</b> 688180, 728161, 68.1	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees  Date/Time: 01/11/2018 15:58  Recommended viewing distance with both eyes is 500mm.	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>				






Name PM07 Status Existing Reference: Local road East across Liffey looking West	<b>Westar Investments Limited</b>	<b>Camera location</b> 688798, 727703, 67.1	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>		Rev: 0	<b>Target Direction</b> 688283, 727794, 68.1	






Name PM07 Status Proposed Reference: Local road East across Liffey looking West	<b>Westar Investments Limited</b>	<b>Camera location</b> 688798, 727703, 67.1	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>		Rev: 0	<b>Target Direction</b> 688283, 727794, 68.1	






Name PM08 Status Existing Reference: On R403 looking South	<b>Westar Investments Limited</b>	<b>Camera location</b> 688409, 728547, 66.1  <b>Target Direction</b> 688481, 728164, 67.0	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees  Date/Time: 11/10/2019 10:41  Recommended viewing distance with both eyes is 500mm.	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>				





Name PM08 Status Proposed Reference: On R403 looking South	<b>Westar Investments Limited</b>	<b>Camera location</b> 688409, 728547, 66.1  <b>Target Direction</b> 688481, 728164, 67.0	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees  Date/Time: 11/10/2019 10:41  Recommended viewing distance with both eyes is 500mm.	
<b>Proposed development on lands at Capdoo &amp; Abbeylands, Celbridge Road, Clane, Co. Kildare.</b>				



## Photomontage Methodology / Method Statement

Work has been completed in accordance with best practice guidelines a summary of which are provided below.

### Preparation

Prior to site visit camera locations were identified and located on digital map to enable GPS routing to the correct locations. The site was “scouted” for access using Google Streetview (c) Google.

### Photography

- Photographs were taken on site at locations specified using a high-resolution professional digital camera. The Camera a Canon 6D is a full frame format (which corresponds to a traditional 35mm film format) as recommended by best practice guidelines.
- Images will be taken in RAW format which provides the maximum flexibility in adjustment along with the best quality available, and with bracketed exposure. The images were stored with embedded camera/photo exif data.
- The camera was tripod mounted, spirit leveled and set at a nominal 1.6m above ground level
- The lens used as a Canon prime (fixed) 50mm or normal lens. The 50mm lens provides a similar magnification to the human eye and will provide an image which is accepted.

### Control

A series of survey points were captured on site for each photograph using Trimble R8 survey grade RTK-GPS. The following were measured:

- The camera position, plan and height
- Measured points of detail visible when the photograph was taken. On streetscape scenes points of detail (corners of buildings, poles, sign, white lines, structures, etc) are surveyed to provide an accurate orientation base where insufficient existing detail is available we supplement with either with red/white ranging rods or smaller orange cones placed in the camera’s field of view while taking the photograph.
- Regardless of the type of control the configuration shall be non-collinear with a good photogrammetric geometry. This ensures that computational analysis is convergent.

### Setting up AVR Images

- Survey and OS mapping is imported into 3D software
- A calibrated virtual 50mm camera is created to match the physical one used to capture the image. These are snapped to the surveyed locations. The individual photograph frames are loaded into the viewport.
- Using in-built software algorithms the virtual camera is adjusted so the points of detail on the photograph and the surveyed points in real-life coalesce in the camera viewport. Once complete the virtual camera will be orientated so that it is identical to the physical camera that took the base photograph.
- Checks are made using the surveyed information and project mapping and cross referenced with the photographs to ensure they align.
- A Daylight system is then accurately introduced into the scene at it correct geo-referenced coordinates. Once the time/date and time zone is set the digital sky will match the position of the sun and shadows created by the same in the base photograph.

## Verifiable Photomontage & Proposed development modelling

- The proposed development, structure, road works and earthworks is modeled up in 3D from the drawings provided by the Client / Design Team.
- The building is located in accordance with surveyed location and at the correct FFL.
- True life digital materials are designed and assigned to the 3D model elements using reference imagery provided by the client. Sophisticated real world rendering shaders are used in conjunction with the daylight system to produce final renders which will react in a verifiable manner to match the reference photographic base images.
- Finally, the new development image and the existing original photograph are merged with due care for any demolitions/removals, foreground / background existing objects, landscaping, lighting, shadows, etc. to produce a single believable and verifiable composite image.

### Viewing instructions

These images are designed to be printed at A3 and taken to site to evaluate the impact of the development.

Images should be viewed with both eyes open from the locations indicated and held 500mm from the viewers eyes. (Arms length). When held at arms length the viewer should be able to effectively focus not only on the photomontage in hand but also on the surrounding landscape which will give them a much wider field of view.

When used in this fashion the existing landscape will line-up and the photomontage will provide similar perspective and thus enable the viewer to visually evaluate the proposal.

