



Landscape and Visual Impact - Appendix 3

Frog Hall Farm, Sheepy Magna

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Note
These visualisations have been prepared by rbmp using current best practice techniques in both photography and the construction of 3D models and photomontages specified by the Landscape Institute: 3rd edition (April 2013); Landscape Institute Technical Guidance Note 06/19 (September 2019) Visual Representation of Development Proposals; The Revised SPG London View Management Framework (March 2012.)

All views have been prepared to Type 4 visualisations as set out within table 2, page 11 of TGN06/19. Please see supporting methodology documentation for this project. [End of this document.]

Viewing Instructions
The visualisations gives an impression of the predicted scale and mass of the proposed development as it would be seen from the viewpoint locations. For correct viewing, the images should be viewed at the distance shown on the corresponding page when printed at A3. These images should only be assessed in the field from the same viewpoint location.

Viewpoint Number	Easting	Northing	Ground Height	Camera Height
Viewpoint 01	430765.46E	301144.82N	+76.75m AOD	+78.35m AOD
Viewpoint 02	430750.29E	301076.86N	+76.28m AOD	+77.88m AOD
Viewpoint 03	430732.66E	300938.79N	+76.5m AOD	+78.1m AOD
Viewpoint 04	430726.11E	300886.75N	+76.45m AOD	+78.05m AOD
Viewpoint 05	430719.2E	300819.97N	+75.88m AOD	+77.48m AOD
Viewpoint 06	430714.73E	300733.03N	+75.23m AOD	+76.83m AOD
Viewpoint 07	430649.36E	300360.62N	+77.37m AOD	+78.97m AOD
Viewpoint 15	431057.51E	300851.7N	+76.66m AOD	+78.26m AOD







Viewpoint 01
Grid reference: 430765.46E, 301144.82N
Ground Height: +76.75m AOD
Camera Height: +78.35m AOD



Viewpoint 02
Grid reference: 430750.29E, 301076.86N
Ground Height: +76.28m AOD
Camera Height: +77.88m AOD



Viewpoint 03
Grid reference: 430732.66E, 300938.79N
Ground Height: +76.5m AOD
Camera Height: +78.1m AOD



Viewpoint 04
Grid reference: 430726.11E, 300886.75N
Ground Height: +76.45m AOD
Camera Height: +78.05m AOD



Viewpoint 05
Grid reference: 430719.2E, 300819.97N
Ground Height: +75.88m AOD
Camera Height: +77.48m AOD



Viewpoint 06
Grid reference: 430714.73E, 300733.03N
Ground Height: +75.23m AOD
Camera Height: +76.83m AOD



Viewpoint 07
Grid reference: 430649.36E, 300360.62N
Ground Height: +77.37m AOD
Camera Height: +78.97m AOD



Viewpoint 15
Grid reference: 431057.51E, 300851.7N
Ground Height: +76.66m AOD
Camera Height: +78.26m AOD

















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Camera make & model
- Nikon D600 (full frame sensor)
Lens make & focal length
- Nikon 28mm f/1.8
Date & time of photograph
- 30/11/23 @ 14.26pm
OS grid reference
- 430726.11E, 300886.75N

Viewpoint height (AOD)
- +76.45m AOD
Distance from site
- 125m
Projection
- Planar
Enlargement / Sheet Size
- 100% @ A3

Visualisation Type
- Type 4
Horizontal Field of View
- 65.5°
Height of camera (AGL)
- 1.6m
Page size / Image size (mm)
- 420 x 297 / 390 x 260

VP04 - AVR View [28mm]

rbmp.2333 Frog Hall Farm, Sheepy Magna, Verified Views















rbmp

Camera make & model - Nikon D600 (full frame sensor)
Lens make & focal length - Nikon 50mm f/1.8
Date & time of photograph - 30/11/23 @ 15.22pm
OS grid reference - 431057.51E, 300851.7N

Viewpoint height (AOD) - +76.66m AOD
Distance from site - 440m
Projection - Planar
Enlargement / Sheet Size - 100% @ A3

Visualisation Type - Type 4
Horizontal Field of View - 39.6°
Height of camera (AGL) - 1.6m
Page size / Image size (mm) - 420 x 297 / 390 x 260

VP15 - Baseline View [50mm]

rbmp.2333 Frog Hall Farm, Sheepy Magna, Verified Views



rbmp

Camera make & model - Nikon D600 (full frame sensor)
Lens make & focal length - Nikon 50mm f/1.8
Date & time of photograph - 30/11/23 @ 15.22pm
OS grid reference - 431057.51E, 300851.7N

Viewpoint height (AOD) - +76.66m AOD
Distance from site - 440m
Projection - Planar
Enlargement / Sheet Size - 100% @ A3

Visualisation Type - Type 4
Horizontal Field of View - 39.6°
Height of camera (AGL) - 1.6m
Page size / Image size (mm) - 420 x 297 / 390 x 260

VP15 - AVR View [50mm]

rbmp.2333 Frog Hall Farm, Sheepy Magna, Verified Views
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OVERVIEW

The process of generating verified views (also referred to as Accurate Visual Representations (AVR) & Visually Verified Montages (VVM)) for the proposed new development was carried out by RBMP Ltd.

These visualisations have been prepared by RBMP Ltd. using current best practice techniques in both photography and the construction of 3D models and photomontages specified by the Landscape Institute: Guidelines for Landscape and Visual Impact Assessment 3rd edition (April 2013); Landscape Institute Technical Guidance Note 06/19 (September 2019) Visual Representation of Development Proposals; The Revised SPG London View Management Framework (March 2012.) All views have been prepared to Type 4 visualisations as set out within table 2, page 11 of TGN06/19.

High quality/resolution photographs were taken from the agreed locations with an adequate number of visible features subsequently surveyed, including the precise location of the camera.

A development model was generated to correct geographical co-ordinates. With a known camera position and orientation, photographic and surveyed existing visible features, the development model was accurately aligned to the photograph.

SITE VISIT

RBMP Ltd. visited the site on the 30th November 2023, to obtain viewpoint photography. The view positions were documented using photography of the exact positions (marked with a survey pin) with a surveyor present to record the precise co-ordinates.

PHOTOGRAPHY

For the agreed viewpoint location, high resolution RAW photographs were taken with a Digital SLR camera with a 35mm (full frame) sensor. The camera was levelled horizontally and laterally by means of a tripod mounted levelling base and two camera mounted spirit levels.

CAMERA & EQUIPMENT

- Nikon D600 digital SLR camera (35mm)
- Nikon 50mm f/1.8
- Nikon 28mm f/1.8
- Nikon 24mm tilt-shift f/3.5
- Manfrotto 190 tripod
- Tripod indexed pan head
- Levelling base with bubble level
- Digital Level
- Laser plumb bob

LENS SELECTION

In order to capture the full extent of the proposed development and an appropriate amount of context, a 28mm & 50mm lens in landscape orientation (effective 65.5° & 39.6° horizontal field of view) was used. For internal use/reference a 180° panoramic for each viewpoint location was also captured using a 15° rotational index allowing a series of individual frames to be stitched together into a single image.

POST PRODUCTION

Each photoviewpoint photograph was processed using Adobe Photoshop® CC 2021 Camera RAW. Standard (digital) photographic post production techniques (profiles, curves and sharpening) were used to create a corrected final .psd file to be used as the basis for the photomontage.

SURVEY

For the agreed photoviewpoint location an instructional document was released to the survey subcontractor. The surveyor was instructed on site to record a range of contextual reference points.

SURVEY EQUIPMENT

- Leica GPS
- Leica Total station
- Precise level

FIELD SURVEY METHODOLOGY

Camera Locations - To establish the position of a viewpoint, the surveyor must set up a GPS on it and record enough points to ensure a high level of accuracy.

Reference points - To survey the various reference points, the surveyor should set up three temporary stations (TBMs) within view of each reference point and establish their location using the GPS. Once these co-ordinates have been established, the surveyor will set up a Total Station on the TBMs and take 3 reflectorless survey shots to the reference point in view.

Where GPS positioning was not possible near to the required survey point – due to poor signal, for instance – the surveyor will set up his TBMs at the nearest position possible and traverse traditionally to a position where he can survey the point.

DATA PROCESSING & DELIVERY

GPS data is processed through Leica Geo-Office to acquire the OSGB36 co-ordinate system information and then processed to produce co-ordinate information for the surveyed points.

PROPOSED DEVELOPMENT

rbmp created a 3D model of the proposed development working from supplied model and plans. The model was checked for accuracy and subsequently aligned to the OSGB36 coordinate system.

VERIFICATION PROCESS

The collected survey reference point data and camera location data was imported into the 3D model environment from the delimited text file (relative to the OSGB36 co-ordinate system) by means of a proprietary script.

At each photoviewpoint location a virtual camera was set up in the 3D software using the coordinates provided by the surveyor. The 3D coordinates of the survey reference points were used to create an accurate ‘point cloud’ model of the contextual surveyed parts of the scene. The scene was verified by matching the contextual surveyed points to the photograph.

To do this, for each photoviewpoint, two renders* were made from the 3D model from the same virtual camera: one render showed only the development (in the chosen method of presentation); the other showed only the survey reference point data.

Using a photo editing package [Adobe Photoshop® CC 2023.] the photography, survey reference point render and proposed development render were aligned.

With the rendered* proposals aligned to the photography, masks were applied to the image to hide extents of the proposals occluded by intervening vegetation and built form.

USE OF PHOTOMONTAGES

For correct perspective viewing, the photomontage pages should be printed unscaled at A3 and must be viewed at an approximate viewing distance of 50cm. The photomontages should only be assessed in the field from the same viewpoint.

*Rendering is the process of generating an image from a model (or models in what collectively could be called the 3D environment), by means of computer programs - specifically, in this case Chaos Group V-Ray for Autodesk 3Ds Max 2023.

NOTES

- The model is based on the supplied drawing files.
- The model has been positioned and referenced to the OS Grid using the supplied topographic data contained within drawing ‘2568-216402101-Topographical.dwg’ and RBMP’s collected survey data on-site.