PINS REF. | APP/J4423/W/21/3267168
LPA REF. | 17/04673/OUT
DATE | MAY 2021
PPG REF. | P19-2172.010

CD6.18

APPENDIX 6 TO THE PROOF OF EVIDENCE

OF BRIAN JOHN DENNEY BA (HONS), DIPLA, FLI, CENV, MIEMA

IN RELATION TO LANDSCAPE AND VISUAL MATTERS CONCERNING:

AN OUTLINE PLANNING APPLICATION FOR THE ERECTION OF UP TO 85 RESIDENTIAL DWELLINGS (*REDUCED FROM 93 ORIGINALLY*) AND OPEN SPACE (17/04673/OUT)

ON

LAND AT JUNCTION WITH CARR ROAD, HOLLIN BUSK LANE, SHEFFIELD, S36 1GH

PREPARED ON BEHALF OF HALLAM LAND MANAGEMENT LIMITED

Pegasus Group

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Birmingham | Bracknell | Bristol | Cambridge | Cirencester | Dublin | East Midlands | Edinburgh | Leeds | Liverpool | London | Manchester | Newcastle | Peterborough | Solent

DESIGN ENVIRONMENT PLANNING ECONOMICS HERITAGE

CONTENTS:

1. VISUALISATION LOCATION 1 – HOLLIN BUSK LANE

Baseline View (Sheet 1)

Pegasus Environment

Citrine UK Ltd

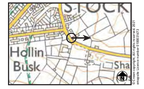
DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
Lens make & focal length	- Canon EF 50mm, f/1.4 USM
Date & time of photograph	- 24 March 2021 @ 14:56
OS grid reference	- 427308, 397401

Viewpoint height (AOD)	- 256m
Distance from proposed development	- 362m
Projection	- Cylindrical
Sheet Size	- A1

Visualisation Type	- Type 4
Horizontal Field of View	- 90°
Height of camera AGL	- 1.5m
Page size	- 841 x 297

View flat at a comfortable arm's length. If viewing this image on a screen, enlarge to full screen height



VISUALISATION LOCATION 1

HOLLIN BUSK LANE

P19-2172.007A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

Block massing of proposed development (Sheet 2)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

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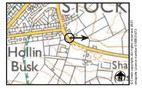

VISUALISATION LOCATION 1

HOLLIN BUSK LANE

Photo-real view of the proposed development at Year 1 (Sheet 3)

Pegasus Environment | Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

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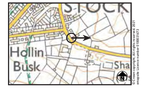

VISUALISATION LOCATION 1

HOLLIN BUSK LANE

P19-2172.007A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

Photo-real view of the proposed development at Year 15 (Sheet 4)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
Lens make & focal length	- Canon EF 50mm, f/1.4 USM
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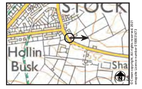

VISUALISATION LOCATION 1

HOLLIN BUSK LANE

P19-2172.007A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

2. VISUALISATION LOCATION 2 – PUBLIC RIGHT OF WAY FROM BOLSTERSTONE

Baseline View (Sheet 1)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
Lens make & focal length	- Canon EF 50mm, f/1.4 USM
Date & time of photograph	- 24 March 2021 @ 15:33
OS grid reference	- 427100, 397201

Viewpoint height (AOD)	- 256m
Distance from proposed development	- 618m
Projection	- Cylindrical
Sheet Size	- A1

Visualisation Type	- Type 4
Horizontal Field of View	- 90°
Height of camera AGL	- 1.5m
Page size	- 841 x 297

View flat at a comfortable arm's length. If viewing this image on a screen, enlarge to full screen height

VISUALISATION LOCATION 2

PUBLIC RIGHT OF WAY FROM BOLSTERSTONE

P19-2172.008A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

Block massing of proposed development (Sheet 2)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

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VISUALISATION LOCATION 2

PUBLIC RIGHT OF WAY FROM BOLSTERSTONE

P19-2172.008A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

Photo-real view of the proposed development at Year 1 (Sheet 3)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
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VISUALISATION LOCATION 2

PUBLIC RIGHT OF WAY FROM BOLSTERSTONE

P19-2172.008A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

Photo-real view of the proposed development at Year 15 (Sheet 4)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
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VISUALISATION LOCATION 2

PUBLIC RIGHT OF WAY FROM BOLSTERSTONE

P19-2172.008A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

3. VISUALISATION LOCATION 3 – COCKSHOT LANE

Baseline View (Sheet 1)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
Lens make & focal length	- Canon EF 50mm, f/1.4 USM
Date & time of photograph	- 24 March 2021 @ 15:58
OS grid reference	- 427520, 397198

Viewpoint height (AOD)	- 256m
Distance from proposed development	- 251m
Projection	- Cylindrical
Sheet Size	- A1

Visualisation Type	- Type 4
Horizontal Field of View	- 90°
Height of camera AGL	- 1.5m
Page size	- 841 x 297

View flat at a comfortable arm's length. If viewing this image on a screen, enlarge to full screen height

VISUALISATION LOCATION 3

COCKSHOT LANE

Block massing of proposed development (Sheet 2)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
Lens make & focal length	- Canon EF 50mm, f/1.4 USM
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VISUALISATION LOCATION 3

COCKSHOT LANE

P19-2172.009A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

Photo-real view of the proposed development at Year 1 (Sheet 3)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

Camera make & model	- Canon EOS 5D Mark II
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VISUALISATION LOCATION 3

COCKSHOT LANE

P19-2172.009A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

Photo-real view of the proposed development at Year 15 (Sheet 4)

Pegasus Environment

Citrine UK Ltd

DESIGN | ENVIRONMENT | PLANNING | ECONOMICS | HERITAGE

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VISUALISATION LOCATION 3

COCKSHOT LANE

P19-2172.009A | LAND AT HOLLIN BUSK LANE, DEEPCAR | HALLAM LAND MANAGEMENT

4. METHODOLOGY

Photomontage Methodology and Data

Baseline photographs

Date/time:	as per filenames (YYMMDD.hrs GMT)	
Weather:	Sunny, dry	
Camera equipment used:	Canon EOS 5D Mark II, ful frame sensor (36 x 24mm), fixed 50mm lens	
Camera support:	tripod with panoramic head	
Camera position:	surveyed on site by land surveyor	
	Viewpoints:	*none*
	derived from mapping / handheld GPS	
	Viewpoints:	*all*

Photomontages

Software:
- ✓ *LSS v10*
- ✓ *AutoCAD Architecture 2021*
- ✓ *3D Studio MAX 2021*
- ✓ *PTGui v 10.0.18*
- ✓ *Adobe Photoshop v22.3.0*

Data:
- ✓ *OS Terrain 5*
- *OS LIDAR*
- ✓ *OS online mapping*
- ✓ *Online aerial photography / Google Earth*
- ✓ *Topographic site survey*

Standards / guidance:	*Landscape Institute Advice Note 06-19*	
	Visual Representation of Development Proposals, September 2019	
	Type:	*4*
	Verification :	*Scale verified*
	AVR level:	*3*
Image sizes:	Horizontal FoV	*90°*
	Vertical FoV	*27°*
	Print size:	*81.8cm width X 25cm height (A1 sheet width)*
	Viewing distance:	*50cm @ full print size (12.5cm if reduced to A3)*

Methodology

1. Site photographs are taken using a digital camera. A levelled tripod serves to ensure that the panoramas are horizontal and an approximate 50% overlap between frames is used for best frame stitching. A panoramic mount is used to reduce parallax errors in stitching.

2. For each viewpoint, the individual frames are digitally corrected for barrel distortion and stitched to create a cylindrical perspective panorama (rather than 'planar' perspective). These panoramas are used to represent the 'baseline' existing views of the site.

3. The panoramas are resampled to the equivalent a X10.4 enlargement at 300dpi, and cropped to the vertical FOV of a 50mm lens equivalent (26.991°). Therefore, for a 50mm lens the images should be printed with a height of 25cm and the viewing distance is 50cm. Best representation of monocular perspective is achieved by curving the panorama through this radius.

4. A 3D CAD model is created of the following using design and site survey information:
   - terrain
   - camera positions and reference points
   - site design proposals

5. The CAD model is rendered from the camera positions recorded on site for each viewpoint with a virtual camera lens setting of 50mm. These are aligned to achieve the best fit of the photographs using 3D reference points in the model renders.

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