

A46 Newark Bypass

TR010065/APP/6.2

7.36 Supporting Historic Environment and Visual Impact Assessment

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Procedure) Regulations 2009

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**The Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009**

A46 Newark Bypass

Development Consent Order 202[x]

**7.36 Supporting Historic Environment and Visual Impact
Assessment**

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1 Supporting Historic Environment and Visual Impact Assessment

1.1 Introduction

1.1.1 This document has been prepared in response to the following requests received from the Examining Authority in the Rule 6 letter - Notification of the Preliminary Meeting and matters to be discussed - published on 9 September 2024 (document reference PD-005):

Annex F, (7) Historic Environment Assessment

“Following the USI, and reviewing the environmental statement, the ExA requests the following additional information to allow a fuller understanding of the potential impacts on historic assets:

- A wireframe to support the analysis of the potential impacts on Newark Castle from VP 18 of figure 7.4 – Visual Receptor Location Plan [AS-040] to achieve a clearer understanding of the long-term effects on views out from the castle. This should be to a 180-degree view with three hard copies provided to the ExA.*
- The approach into Newark from the Cattle Market junction as identified at VP 25 of figure 7.4 – Visual Receptor Location Plan [AS-040] is considered a Key Visual Receptor given the associated views of Newark Castle and St Mary Magdalene Church and the experience of entering the town via the Smeaton Arches. The Applicant should identify VP 25 as a Key Visual Receptor and provide three hard copies to the ExA of the photomontage.”*

Annex F, (8) Visual Impact Assessment

- “Although VP 11 of Appendix 7.2 Visual Baseline and Impact Schedules [APP-137] provides an analysis of the visual impact of the additional bridge structure over the river Trent it does not provide sufficient commentary on the anticipated effects on the river users. This stretch of the river provides a long uninterrupted view of the spire of St Mary Magdalene Church, Newark-upon-Trent and is forms part of the leisure experience along this section of the river. Please provide an analysis focusing on the river users’ experience from a position north-west of the Farndon roundabout, relative to VP 11, but from a river location.*
- Photomontage 24 of Appendix 7.3 Key Visual Receptor Photographs and Photomontages Part 2 [APP-139] provides a very narrow and limited view of the potential impacts of the flyover for the Cattle Market roundabout on the properties at Sandhills Park. Please provide a wider analysis from the VP covering a 180-degree view to consider the potential impacts on the overall residential experience. This should show the full extent of the elevated sections of the proposals over the junction and may require a wireframe image, and if so three hardcopies should be provided to the ExA.”*

1.1.2 This document also responds to Newark and Sherwood District Council’s request for additional viewpoints in their submission at Procedural Deadline A on 24 September [PD-005], which stated:

“[...] However the LPA considers that there has been insufficient information showing the experience from within the Winthorpe Conservation Area and the effect of the new Brownhills junction and specifically the flyover, would have on it. Therefore we ask that you consider a visit and request a photomontage from the fields around VP42 or VP43 looking in a south westerly direction towards the new junction (see below). It is accepted that the site is heavily landscaped in this area and from the Arboricultural reports and plans, these trees are to remain. However the highly elevated position of the new flyover and the sensitive nature of the CA designation would mean that it is particularly vulnerable to change, especially by harsh infrastructure such as is proposed. VP43 which is along the existing footpath (Winthorpe FP2), the LPA does not agree that it effectively covers a sufficient area to be a true reflection of the actual impact, hence our request”.

1.1.3 This document addresses each of the requests in turn.

1.2 Viewpoint 18 – additional wireframe

1.2.1 Viewpoint 18 captures the view north-west from Newark Castle representative of views for visitors to the castle and gardens. The viewpoint was re-visited on 10 October 2024 and a photograph at 180 degrees was taken.

1.2.2 The wireframe is contained in Appendix A of this document. It should be noted that the production of wireframe images excludes mitigation planting and therefore only depicts the scheme alignment, presenting a worst-case scenario.

1.3 Viewpoint 25 – additional photomontage

1.3.1 The request for Viewpoint 25 to become a key visual receptor has been addressed by the applicant and updates subsequently made to Figure 7.4 - Visual Receptor Location Plan [AS-040] and 6.2 Figure 7.5 - Visual Effects Plan [AS-041] of the Environmental Statement.

1.3.2 Viewpoint 25, representative of views from Great North Road looking south, was re-visited on 10 October 2024. However, in order to ensure the photomontage is representative of the view experienced from Great North Road at Smeaton’s Arches, as per the Rule 6 request, the new photograph has been taken further south of VP 25 as denoted in Appendix B of this report. A new photomontage has been created at this location at 90 x 27 degrees and 39.6 x 27 degrees field of view as per the landscape institute specification.

- 1.3.3 The photomontage is contained in Appendix B of this document and presents the likely change in view during Year 1 and Year 15 of operation when looking south from this location towards the Scheme.

1.4 Viewpoint 11 – analysis focusing on the river users’ experience

- 1.4.1 The following text focusing on the views of river users from Viewpoint 11, is based on the scheme and landscape design layout as presented in Figure 2.3 (Environmental Masterplan) of the Environmental Statement Figures [AS-026]. A description of the existing view is provided, followed by a description of the likely change in view during both construction and operation.

Existing view

- 1.4.2 Views from the River Trent user perspective are dominated by the river itself, with riverside vegetation helping to frame views from river users in this location. Short breaks in vegetation allow views to the southeast out to areas of grassland adjacent to the river close to Crees Lane. Beyond the immediate views, longer distance views to Newark-on-Trent are prevented in this location by orientation of the view from the river channel as it bends to the south west, with riverside vegetation on the northern riverbank enclosing views. The existing A46 overbridge and intervening built development at Farndon define the view beyond, with the two industrial chimneys associated with the Victorian tanning complex at Farndon punctuating the skyline in this location.
- 1.4.3 The A46 overbridge is less prominent during summer months due to riverside vegetation aiding screening of part of the structure. During the leafless winter months the view is more open including that to the A46 and associated traffic. During the winter, floodwater can also noticeably alter the character of the view in this location, with large swathes of adjacent farmland under water.

Change in view during construction

- 1.4.4 Views of construction activity north of the River Trent, including machinery and works associated with the proposed Farndon West Borrow Pit and Floodplain Compensation Area (FCA) excavations and temporary works areas, would vary along the length of the river, with views from this particular location being heavily filtered through foreground vegetation along the northern banks of the River Trent.

Retained riverside vegetation would frame views towards construction of Windmill Viaduct, including crane movements which would be visible above vegetation. Localised vegetation clearance required adjacent to the existing A46 overbridge to accommodate the new widened Windmill viaduct may open up very localised views to the existing A46 overbridge and approaches from the perspective of river users in this location.

Change in view during operation

- 1.4.5 During operation, the proposed wetland creation area including changes to the landform in the Farndon West FCA in the field north of the River Trent would be visible through existing vegetation along the river during winter. Riverside vegetation would frame views towards the proposed Windmill Viaduct, which would be of a similar scale to the existing A46 overbridge, although would be slightly closer in the view and with the addition of acoustic barrier atop the viaduct. The acoustic barrier would create a more visible barrier in the view as opposed the open parapet located on the existing A46 overbridge. The solid barrier would however provide low level screening of passing vehicles on the A46 which are visible in the baseline view from the perspective of river users.
- 1.4.6 During summer months, views looking north from the river towards the newly created wetland area north of the river are likely to be screened by existing retained mature riverside planting. On approach to Windmill Viaduct vegetation removed during construction would open localised views of the new A46 embankments and Windmill Viaduct, albeit this would be set in the context of intervening retained foreground riverside vegetation. Planting proposed within the Farndon West FCA and on the embankment would be insufficiently mature to provide screening in Year 1. Retained riverside vegetation would partially filter views of the structure and traffic along the A46, providing a greater level of screening in summer months. By Year 15, planting on embankments, within the wetland creation area and along the River Trent would provide screening for the A46 embankments and traffic, enclosing the river corridor.

1.5 Viewpoint 24 – additional wireframe

- 1.5.1 Viewpoint 24 captures the view north from Sandhills Park representative of views for residents. The viewpoint was re-visited on 10 October 2024 and a photograph at 180 degrees was taken.
- 1.5.2 Given the presence of intervening properties, a wireframe was produced. The wireframe is contained in Appendix C of this document. It should be noted that the production of wireframe images

excludes mitigation planting and therefore only depicts the scheme alignment, presenting a worst case scenario.

1.6 Additional photomontage from Winthorpe Conservation Area

- 1.6.1 As per the request made by NSDC, an additional photomontage has been prepared to illustrate the potential impacts upon Winthorpe Conservation Area. The photomontage has been produced from the southerly tip of the Conservation Area looking west towards the A1. The location and angle of view captured within the photomontage have been agreed with NSDC. A photograph was taken from PROW Winthorpe FP2 on 10 October 2024, with the photomontage created at 90 x 27 degrees and 39.6 x 27 degrees field of view as per the landscape institute specification.
- 1.6.2 The photomontage is contained in Appendix D of this document and presents the likely change in view during Year 1 and Year 15 of operation when looking west from this location towards the A46 and A1.

Appendix A: Viewpoint 18 – additional wireframe

Viewpoint 18: View north-west from Newark Castle representative of views for visitors to the castle and gardens.

| | |
|---|------------------------|
| Visualisation type | Type 2 |
| Projection | Cylindrical |
| Enlargement factor | 96% @ A1 |
| Date and time of capture | 10/10/2024 @ 10:02 |
| Make and model of camera, sensor format | Canon 5D |
| Make, focal length of lens | Canon 50mm |
| Horizontal field of view | 180 |
| Vertical field of view | 27 |
| Direction of view | Northwest |
| OS coordinates of lens | 479336.512, 354771.478 |
| Lens height mAOD | 32.717 |
| Ground height mAOD | 31.067 |
| Distance to nearest Draft Order Limits | 260m |
| Height of camera lens above ground | 1.650 |



Viewpoint location plan (NTS)

Viewpoint 18: View north-west from Newark Castle representative of views for visitors to the castle and gardens.



Photomontage 18: Existing view (cylindrical projection, field of view 180 degrees x 27 degrees, to be viewed at A1)
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Viewpoint 18: View north-west from Newark Castle representative of views for visitors to the castle and gardens.



Photomontage 18: Operation view wireframe (cylindrical projection, field of view 180 degrees x 27 degrees, to be viewed at A1)
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Appendix B: Viewpoint 25 – additional photomontage

Viewpoint 25: View south from Great North Road (A616) representative of views for road users

| | | |
|---|------------------------|------------------------|
| Visualisation type | Type 4 | Type 4 |
| Projection | Cylindrical | Planar |
| Enlargement factor | 96% @ A1 | 100% @ A3 |
| Date and time of capture | 10/10/2024 @ 11:52 | 10/10/2024 @ 11:52 |
| Make and model of camera, sensor format | Canon 5D | Canon 5D |
| Make, focal length of lens | Canon 50mm | Canon 50mm |
| Horizontal field of view | 90 | 39.6 |
| Vertical field of view | 27 | 27 |
| Direction of view | Southeast | Southeast |
| OS coordinates of lens | 479336.512, 354771.479 | 479336.512, 354771.479 |
| Lens height mAOD | 12.842 | 12.842 |
| Ground height mAOD | 11.192 | 11.192 |
| Distance to nearest Draft Order Limits | within order limits | within order limits |
| Height of camera lens above ground | 1.650 | 1.650 |



Viewpoint location plan (NTS)



Photomontage 25: Existing view (cylindrical projection, field of view 90 degrees x 27 degrees, to be viewed at A1)

Viewpoint 25: View south from Great North Road (A616) representative of views for road users



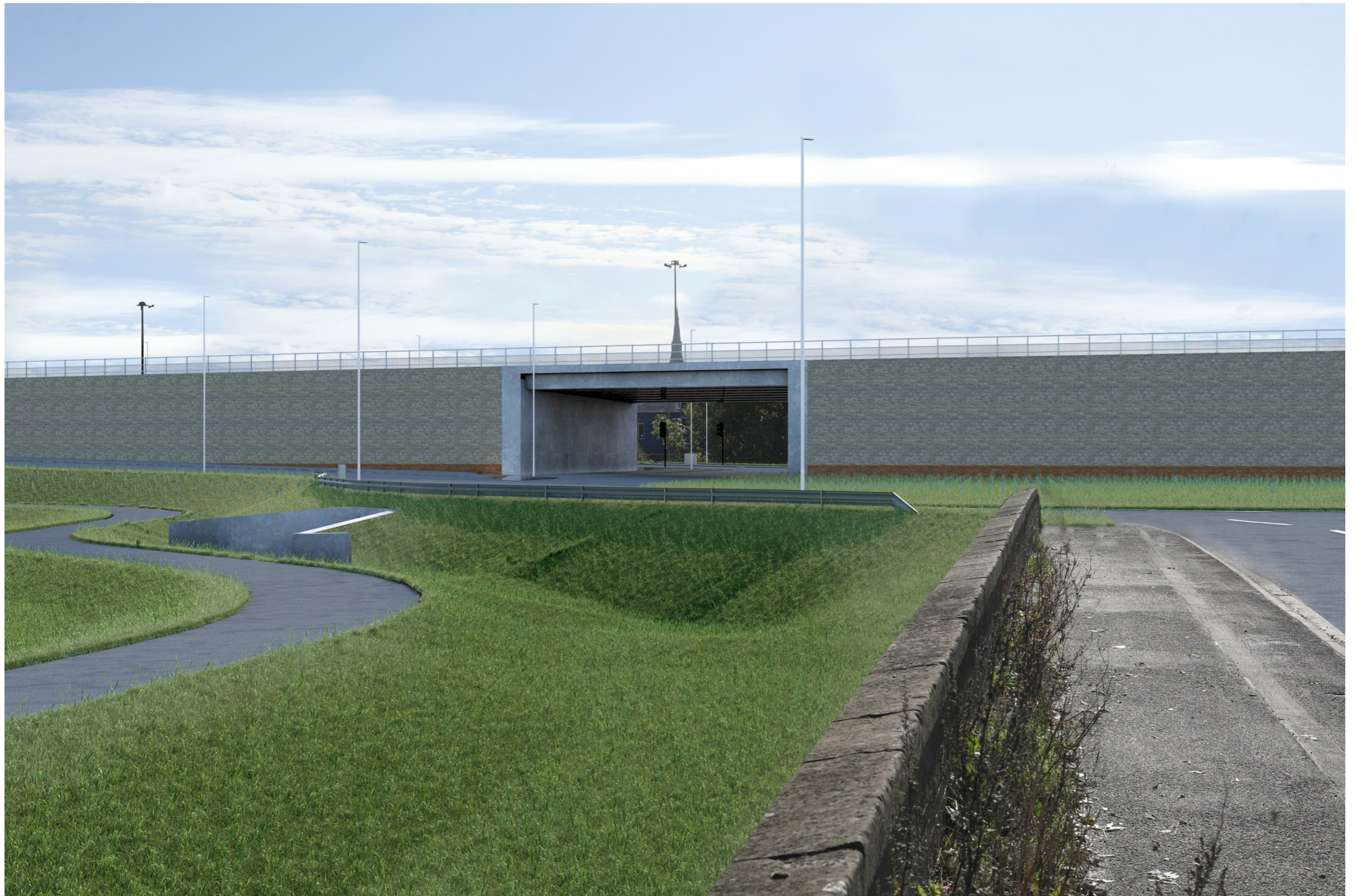
Photomontage 25: Year 1 operation



Photomontage 25: Year 15 operation



Photomontage 25: Existing view (planar projection, field of view 39.6 degrees x 27 degrees, to be viewed at A3)
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Photomontage 25: Year 1 in operation (planar projection, field of view 39.6 degrees x 27 degrees, to be viewed at A3)
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Photomontage 25: Year 15 in operation (planar projection, field of view 39.6 degrees x 27 degrees, to be viewed at A3)
A46 Newark Bypass Viewpoint Photography and Photomontages

Appendix C: Viewpoint 24 – additional wireframe

Viewpoint 24: View north from Sandhills Park representative of views for residents.

| | |
|---|------------------------|
| Visualisation type | Type 2 |
| Projection | Cylindrical |
| Enlargement factor | 96% @ A1 |
| Date and time of capture | 10/10/2024 @ 11:34 |
| Make and model of camera, sensor format | Canon 5D |
| Make, focal length of lens | Canon 50mm |
| Horizontal field of view | 180 |
| Vertical field of view | 27 |
| Direction of view | North |
| OS coordinates of lens | 479316.544, 354490.404 |
| Lens height mAOD | 12.842 |
| Ground height mAOD | 11.192 |
| Distance to nearest Draft Order Limits | 49.2m |
| Height of camera lens above ground | 1.650 |



Viewpoint location plan (NTS)

Viewpoint 24: View north from Sandhills Park representative of views for residents.



Photomontage 24: Existing view (cylindrical projection, field of view 180 degrees x 27 degrees, to be viewed at A1)
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Viewpoint 24: View north from Sandhills Park representative of views for residents.



Photomontage 24: Operation view wire frame (cylindrical projection, field of view 180 degrees x 27 degrees, to be viewed at A1)
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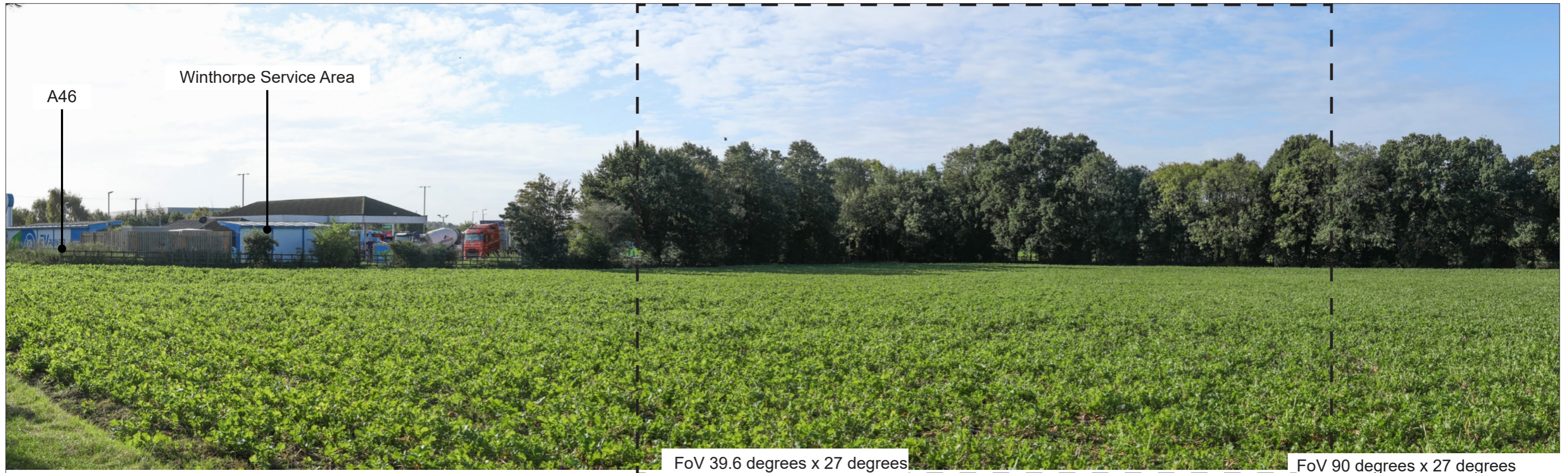
Appendix D: Additional photomontage from Winthorpe Conservation Area

Viewpoint 43A: View south from PRow Winthorpe FP2 (footpath) representative of views for users of the footpath

| | | |
|---|------------------------|------------------------|
| Visualisation type | Type 4 | Type 4 |
| Projection | Cylindrical | Planar |
| Enlargement factor | 96% @ A1 | 100% @ A3 |
| Date and time of capture | 10/10/2024 @ 10:29 | 10/10/2024 @ 10:29 |
| Make and model of camera, sensor format | Canon 5D | Canon 5D |
| Make, focal length of lens | Canon 50mm | Canon 50mm |
| Horizontal field of view | 90 | 39.6 |
| Vertical field of view | 27 | 27 |
| Direction of view | Southwest | Southwest |
| OS coordinates of lens | 481602.468, 356272.647 | 481602.468, 356272.647 |
| Lens height mAOD | 18.631 | 18.631 |
| Ground height mAOD | 16.981 | 16.981 |
| Distance to nearest Draft Order Limits | <10m | <10m |
| Height of camera lens above ground | 1.650 | 1.650 |



Viewpoint location plan (NTS)



Photomontage 43A: Existing view (cylindrical projection, field of view 90 degrees x 27 degrees, to be viewed at A1)

Viewpoint 43A: View south from PRow Winthorpe FP2 (footpath) representative of views for users of the footpath



Photomontage 43A: Year 1 operation



Photomontage 43A: Year 15 operation



Photomontage 43A: Existing view (planar projection, field of view 39.6 degrees x 27 degrees, to be viewed at A3)
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Photomontage 43A: Year 1 in operation (planar projection, field of view 39.6 degrees x 27 degrees, to be viewed at A3)
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Photomontage 43A: Year 15 in operation (planar projection, field of view 39.6 degrees x 27 degrees, to be viewed at A3)
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