

NR/L2/CIV/003/Form D: Architectural and layout acceptance				
Document reference	160474-TAZ-OXF-DCL-FOD-EAR-010001	Revision	A04	
Stage	1) Single option and/or for Planning Application 2) Approval in Principle 3) Detailed Design	Date	09.02.24	

DAYLIGHT IMPACT ASSESSMENT

Another consideration is the impact on daylight entering neighbouring gardens caused by the structure. Local residents expressed concern that a footbridge with tall lift shafts would cast a shadow onto their gardens when the sun is low in the sky. As the structure is located to the east of the neighbouring gardens and the railway is oriented in a north-south direction, this is most likely to cause issue in the morning, particularly during winter, when the sun sits low in the sky to the east.

In order to determine the impact on sunlight posed by the structure, a utility within the visualisation software was used to simulate the effect of low sunlight from various angles around the bridge. This allows us to see which areas the bridge casts a shadow onto. Figures 39-42 provide an overhead visualisation of the site, both without and with the proposed footbridge in-situ, in order to provide a comparison of shadows cast onto neighbouring gardens.

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Figure 41: Architectural visualisation of shadows cast at sunrise.

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Figure 42: Architectural visualisation of shadows cast at mid-morning.

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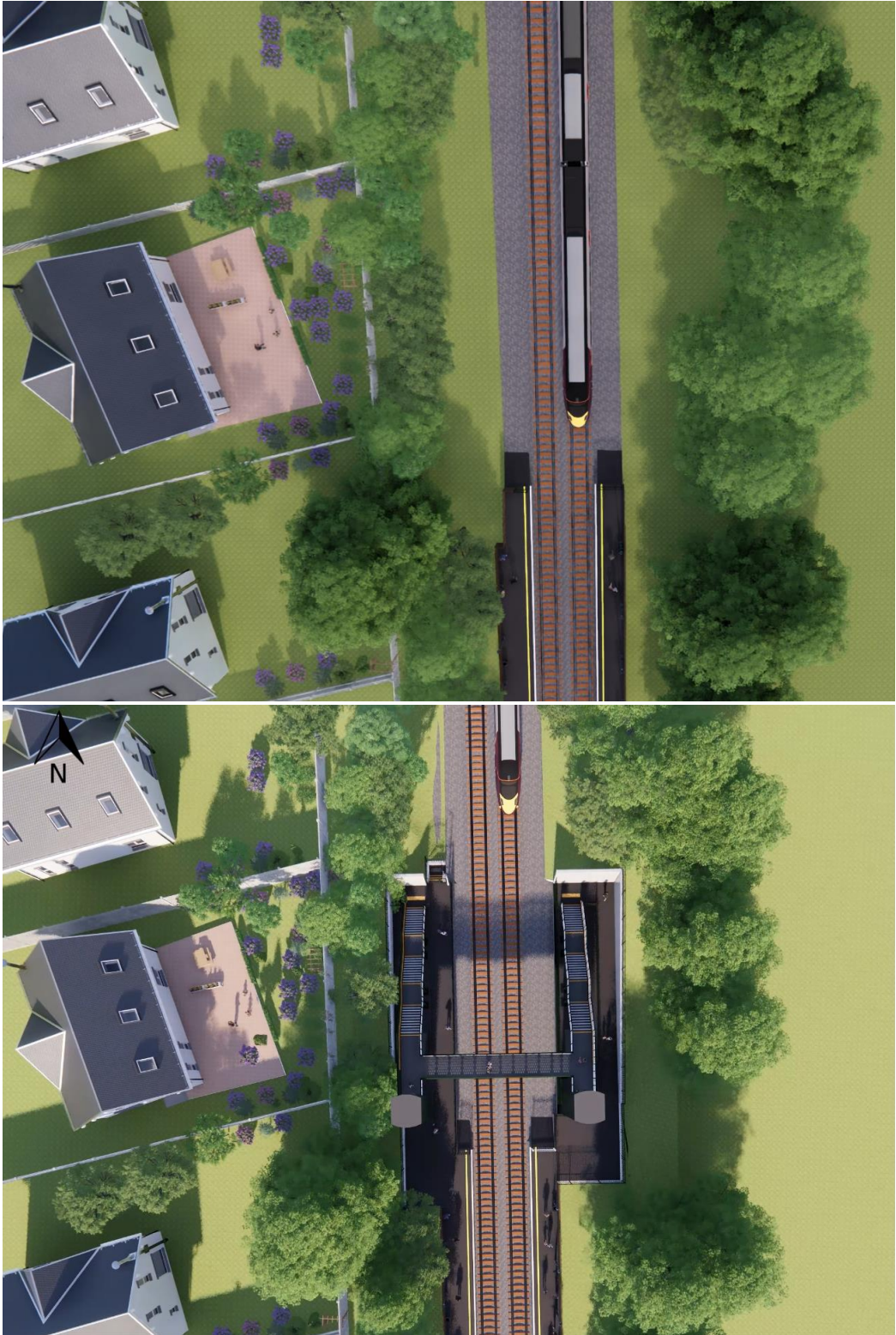


Figure 43: Architectural visualisation of shadows cast at mid-day.

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Figure 44: Architectural visualisation of shadows cast at mid-afternoon.

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Figure 45: Architectural visualisation of shadows cast at sunset.

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As shown in Figures 41-45, the effect of the structure on daylight on neighbouring gardens is minimal, with the tall, dense vegetation surrounding the railway having a much greater impact. The bridge will only risk casting a shadow on neighbouring properties during early morning hours; typically, shadows on private gardens are more of an issue at midday or during the afternoon, when residents are more likely to be in their gardens.



Figure 46: Architect's visualisation taken from eye level within a neighbouring garden, showing the minimal impact of the structure when compared to surrounding vegetation.