Balfour Beatty VINCI Working in partnership with HS2

Chattle Hill Structure Design
June 2021



www.hs2.org.uk

Introduction

High Speed Two (HS2) is the new high-speed railway critical for the UK's low carbon transport future. It will provide much-needed rail capacity across the country and help to rebalance the UK economy.

As we undertake the next stage of design work on the railway we would like to make the community aware of our work and seek your views on certain structures. This includes the Chattle Hill structure.

This booklet explains how this structure has been designed and seeks your feedback on certain aspects of the plans.

If you'd like more information about our design proposals, please visit our local community website at www.hs2inwarwickshire.co.uk

Due to the Coronavirus (COVID 19) pandemic and in response to Government guidance on social distancing it will not be possible to engage directly with community groups in the usual way. We have therefore created this booklet, a questionnaire and space on the HS2 community website for gathering your feedback and comments.

Website - www.hs2inwarwickshire.co.uk

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What is a Key Design Element?

HS2 has classified certain structures or parts of the railway as Key Design Elements (KDEs), including the Chattle Hill structure. This means it is important for us to involve the local community in their design.

A list of the KDEs is provided in Table 1 of the HS2 information paper D1: Design Policy, which is available online from GOV.UK. In addition, several other structures are noted as having KDE status in a General Assurance, stated in the Select Committee report. Details of the Assurance can be found within Phase 1 - HS2 register of undertakings and assurances on GOV.UK.

We have designed the structure to do its job effectively, to last 120 years and offer taxpayers value for money in the long-term. This means there are some aspects of the designs that we can't change. For example, the structure will be made of concrete, making it sufficiently durable.

Before we begin construction, we are seeking your views on some specific details of the Chattle Hill structure. These include:

- Patterning approaches on the structure
- Landscape and ecology in the surrounding area

Please refer to the printed questionnaire enclosed or the online survey. If you have any additional general comments please add these at the end of each section within the questionnaire.

Key principles of HS2 design



Structure

- Reducing the visual impact of the structure when viewed from Lichfield Road
- Exploring opportunities to integrate the concrete structures adjacent to Lichfield Road into the overall design



People

- Considering the experience of road, footpath and cycleway users in the design to ensure the structure is safe for all



Landscape

- Focusing on the principles of Conserve, Enhance, Restore and Transform to maintain and strengthen the existing landscape features
- Reimagining the landscape design for the Chattle Hill area to create a 'blossom walk'. Focusing on trees with spring and autumn colour and fruiting trees and shrubs which can form part of an edible landscape for foraging



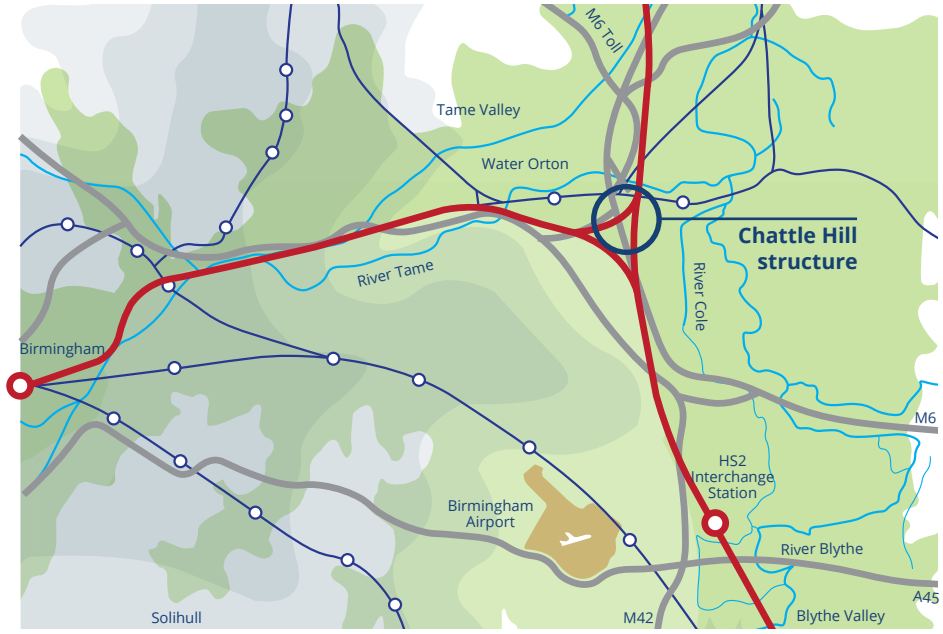
Sustainability

- Embedding sustainability into all our work and reducing the amount of carbon in the design to support the HS2 goal of a 50% carbon reduction across the Area North section of the scheme

Context of design

The Chattle Hill structure will allow the HS2 main line to cross over the A446 Lichfield Road, allowing vehicles, cyclists and pedestrians to pass underneath. The small residential area of Chattle Hill is located to the south east of the line. A continuous noise barrier will be provided along the east of the track to reduce noise levels for local residents.

As part of the works, the Chattle Hill structure will facilitate the upgrading of the A446 Lichfield Road to a dual carriageway, which is in line with Warwickshire County Council's future aspirations.



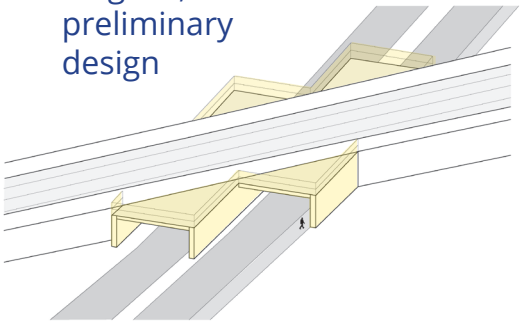
Legend

- HS2 Line
- HS2 Station
- Existing Network Rail line
- Existing Stations
- River
- Main Highways Network

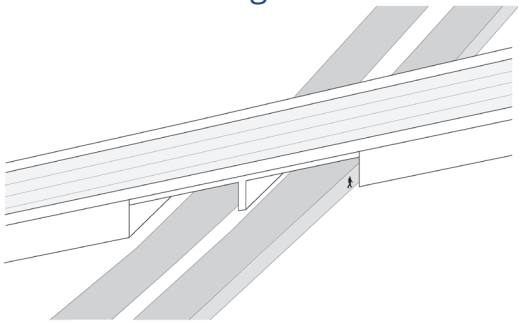
Urban Density

Urban — Rural

Original, preliminary design



2021 design

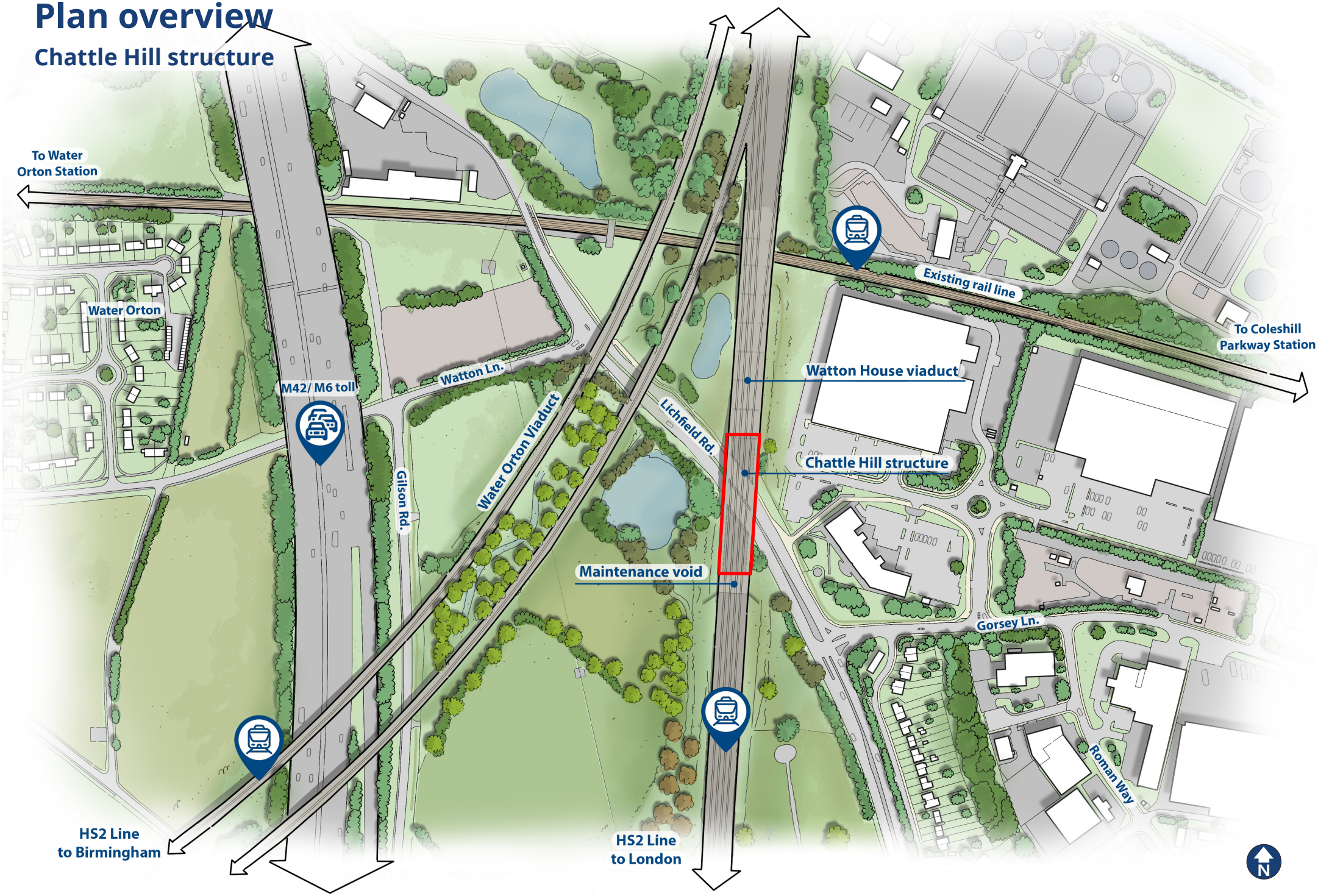


Since the original, preliminary design set out in the HS2 Phase One Act, the primary development in the Chattle Hill structure proposal has been to remove the triangular concrete overhangs (shown in yellow). This will improve the look of the design.

Construction methodology and traffic management
We are currently finalising our approach to constructing the Chattle Hill structure, including how the impact on local roads will be managed. We will share more information about that in future.

Plan overview

Chattle Hill structure



Design elements

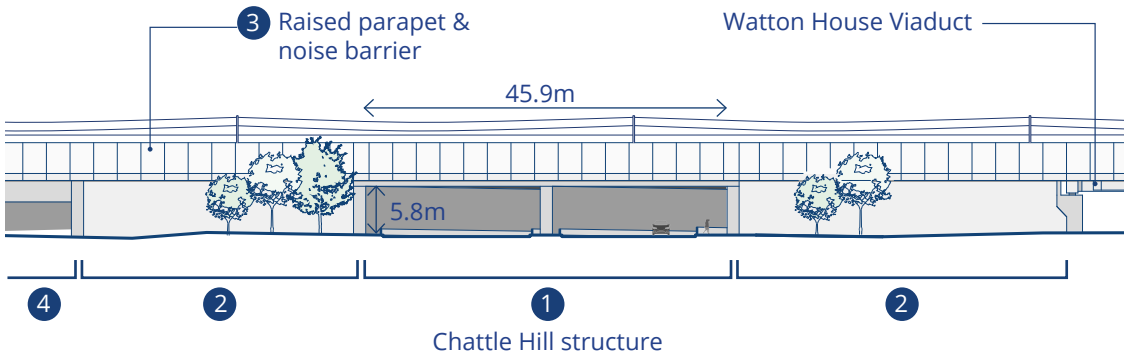
1. The Chattle Hill structure will straddle Lichfield Road and support the HS2 line above.

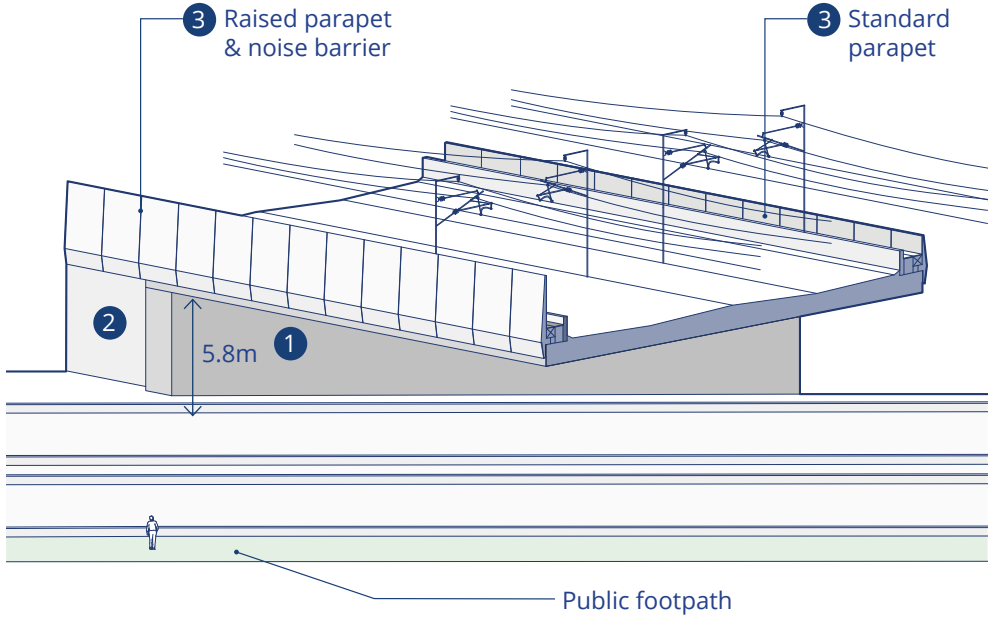
2. Concrete retaining walls will sit directly north and south of the opening over Lichfield Road and support the HS2 line above. These structures will be bordered by the Watton House Viaduct to the north and the maintenance void to the south.

3. At track level, parapets will form the edges of the Chattle Hill structure to prevent users of the maintenance/ emergency walkway from falling. The parapets aligned to the east of the line will also serve as a noise barrier and, for this reason, will be higher than on the west side. The design of the parapets has been carefully considered with a “fold line” reducing their visual impact.

4. A 25m wide opening under the HS2 line to the south of Lichfield Road is required for the future maintenance of services below ground. This maintenance void will be closed from public access.

The Chattle Hill structure will be designed, detailed and manufactured to be durable and low-maintenance for the 120-year design life of HS2.





Visualisation

View of the Chattle Hill structure from the public footpath, looking north west



View of the Chattle Hill structure 10 years post construction

Visualisation

View of the Chattle Hill structure from Lichfield Road, looking south east



View of the Chattle Hill structure 10 years post construction

Opportunities

Blossom walk

To the south of the proposed Water Orton viaduct allotment and orchard sites there is an opportunity to create a 'blossom walk' leading south towards Gilson. This will be designed to slowly blend the allotment areas into the wider landscape, creating a looped walk surrounded by trees and shrubs which provide splashes of colour in the spring and autumn.

We are also proposing to introduce trees and shrubs which provide fruit and herbs which can be picked by the footpath users.

We would like your feedback on these ideas and on some of the species we may use in this area. Ideas might include:

- Specific fruit or herb plants which you might like us to include;
- Suggestions for blossom and/ or autumn colours which will enhance this area;
- Whether there are any educational links we could form with local schools or community groups to enhance learning and information about this area;
- Potential information boards about the concept of an edible landscape and foraging for local users; and
- Whether the inclusion of seating or benches might be linked to this concept.

It is important to note that the introduction of any new community features may require external funding for general upkeep. The BBV engagement team will continue to work with the local communities to explore all available options.

Landscape and vegetation


Moutain clematis


Primrose


European pear


Common lilac


Raspberry


Cow parsley


European crab apple

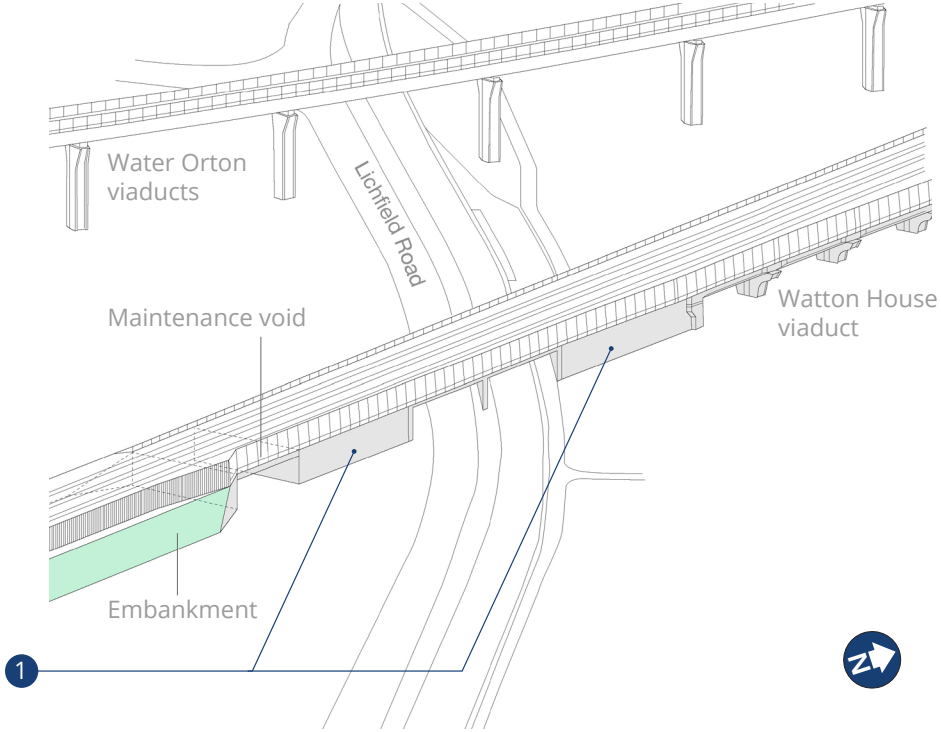
Opportunities

Blossom walk in context



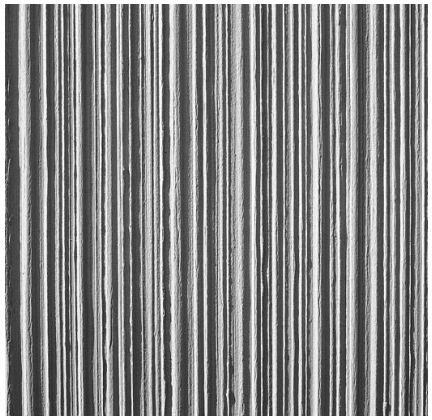
Opportunities

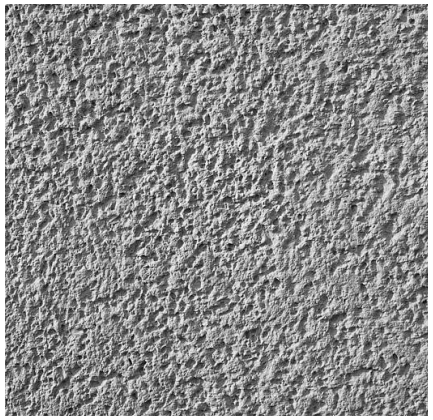
Concrete pattern or texture

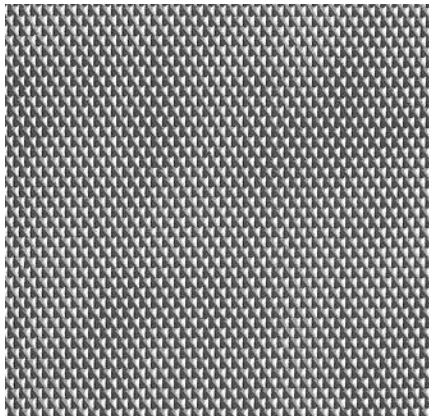


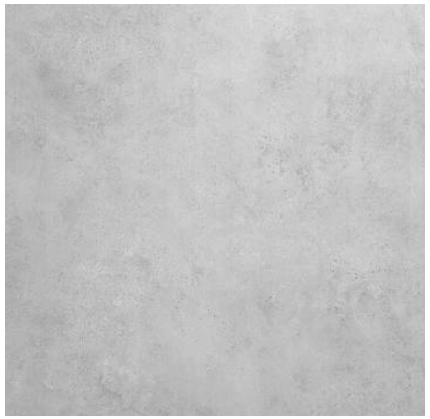
1 There is an opportunity to apply a texture or pattern to the concrete walls either side of the structural opening over Lichfield Road. We are currently exploring a variety of surface treatments in these areas; some examples are shown on the opposite page.

Patterning approaches:


Approach 1: Linear


Approach 2: Roughcast


Approach 3: Textured


Approach 4: Smooth

Please provide your views on the enclosed questionnaire or the online survey.
Website - www.hs2inwarwickshire.co.uk

Have your say

We would like to hear what you think about the Chattle Hill structure.

Please fill in the questionnaire that accompanied this booklet and return it using the pre-paid envelope to:

Balfour Beatty VINCI Joint venture, IM Building, Coleshill Manor, South Drive, Birmingham B46 1DF

Alternatively, you can also fill in the questionnaire online – visit www.hs2inwarwickshire.co.uk

The closing date for the questionnaire is July 28th 2021.

What happens next?

We will carefully consider your views as part of our ongoing design process for the Chattle Hill structure.

Our feedback will be published on the HS2 community website. We will also share what we've learned with North Warwickshire Borough Council and Warwickshire County Council to help them assess our final designs once we have submitted them for their approval later this year.

Enquiries and alternative formats:

If you have any other comments, or if you require this questionnaire in an alternative format, please contact us as follows:

- HS2enquiries@hs2.org.uk
- 24/7 freephone helpline: 08081 434 434

Keeping you informed

We are committed to keeping you informed about work on HS2. This includes ensuring you know what to expect and when to expect it, as well as how we can help.

The independent commissioners

The independent Residents' Commissioner's job is to make sure we keep to the promises we make in our Residents' Charter. The independent Construction Commissioner's role is to mediate and monitor the way in which we manage and respond to construction complaints.
For more information visit:
www.hs2.org.uk/in-your-area

Holding us to account

If you are unhappy for any reason, you can make a complaint by contacting our HS2 Helpdesk team.
For more information visit:
www.hs2.org.uk/how-to-complain

Property and compensation

You can find out all about HS2 and properties along the line of route by visiting our website. You can also find out if you're eligible for compensation.
For more information visit:
www.hs2.org.uk/in-your-area/

Contact us

Our HS2 Helpdesk team are available all day, every day. You can contact them via:

Freephone
08081 434 434

Minicom
08081 456 472

Email
hs2enquiries@hs2.org.uk

Write to
FREEPOST
HS2 Community Engagement

Website **www.hs2.org.uk**

To keep up to date with what is happening in your area, visit:
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