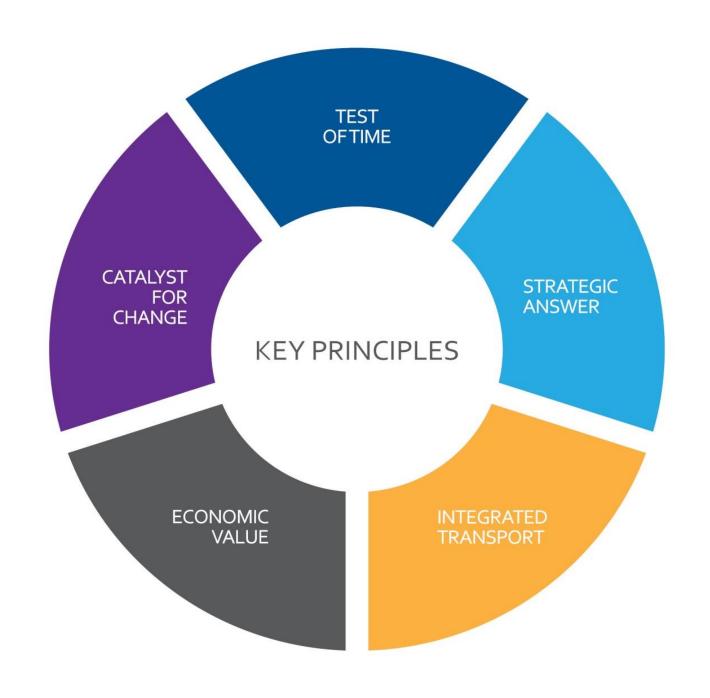


HS2 – Headhouses and Portals Design Approach

Martin Short RIBA Technical Lead HS₂ Ltd

March 2016



HS2: a strategic transformation

Phase Two

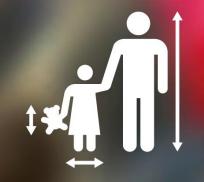
Stations:

East Midlands Hub Sheffield Leeds Manchester Piccadilly Manchester Airport



People

Design for everyone to benefit and enjoy



Place

Design to create a sense of place



Time

Design to stand the test of time



People centred design

Contextual design response

Timeless design

HS2 Design Vision

"HS2's principal objective is to deliver an inspired design, the best in worldwide design. The system will be delivered through all the designed elements coming together. Every design task is critical."

Simon Kirby - CEO, High Speed Two (HS2) Ltd

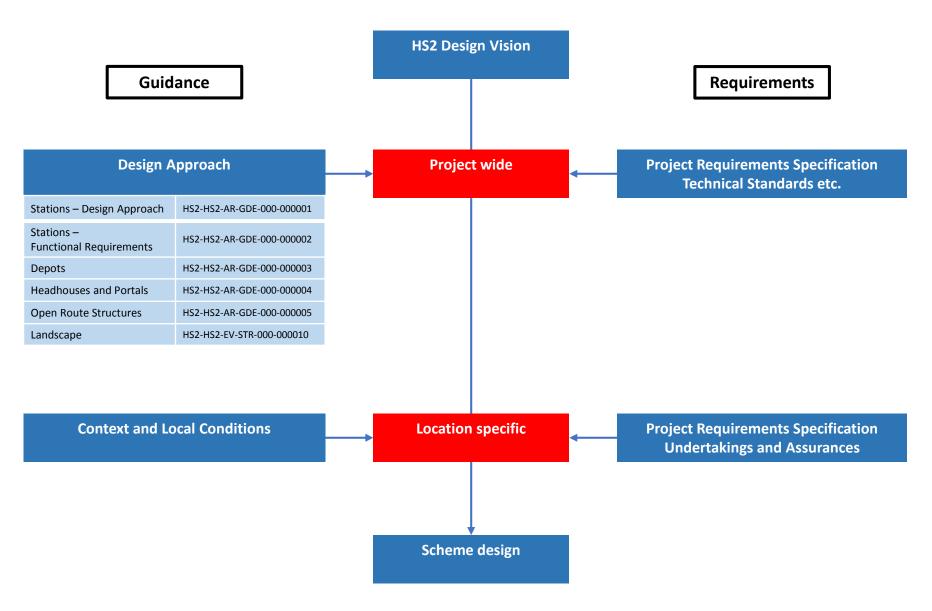
"It's not just about the architecture of stations, but the land in between. We must think about everything we do in terms of design and quality, because we will be leaving it for others to inherit."

David Higgins - Chairman, High Speed Two (HS2) Ltd

"Great design is essential to HS2. This vital railway is a key part of our long-term economic plan. We want HS2 to make the country proud and show the world what great British design can do."

Patrick McLoughlin - Transport Secretary

Design Approach Matrix





Purpose of the Design Approach Documents

The principal purpose of the design approach documents is to guide the design for HS₂.

Suppliers and contractors will be required to deliver against these guidelines during the next design stages.

The HS2 Design Panel will judge the designs against these guidelines.

Mandatory requirements will be identified in the HS2 project requirements specification.

Design principles

The Design Approach puts forward six design principles for headhouses and portals which stem directly from the HS2 Design Vision:

- Contextual Approach
- Functionality, Maintainability and Flexibility
- Safety and Security
- Sustainability
- Value for Money
- Buildability

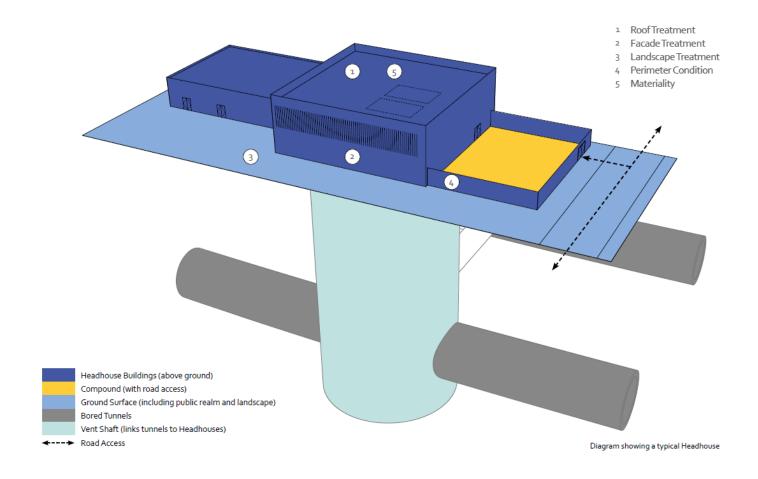
Integrated design concept

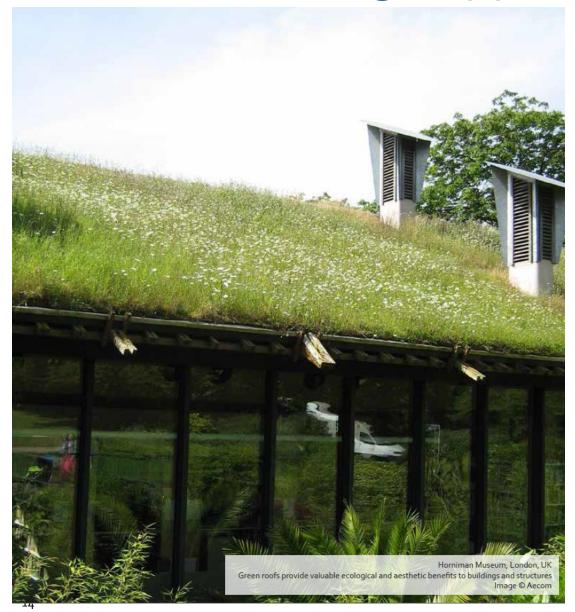






A typical headhouse

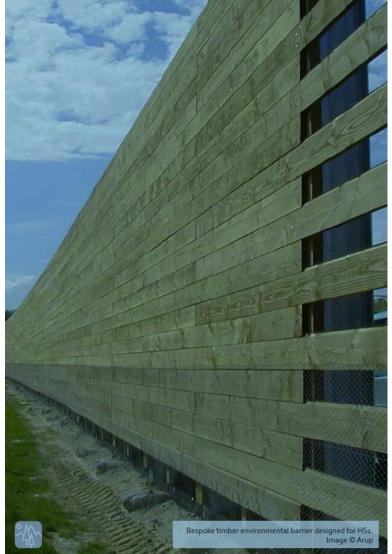














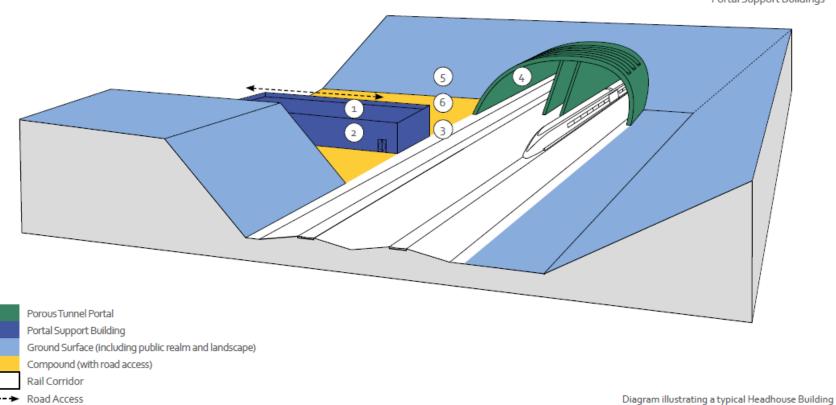




A typical portal

- 1 Roof Treatment
- 2 Facade Treatment
- 3 Perimeter Condition
- 4 Portal Treatment
- 5 Landscape Treatment
- 6 Materiality

N.B. For 1, 2 and 3 see Headhouses and Portal Support Buildings

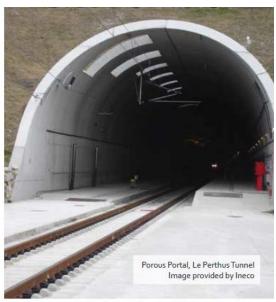


Portal design approach



Portal design approach









Portal design approach



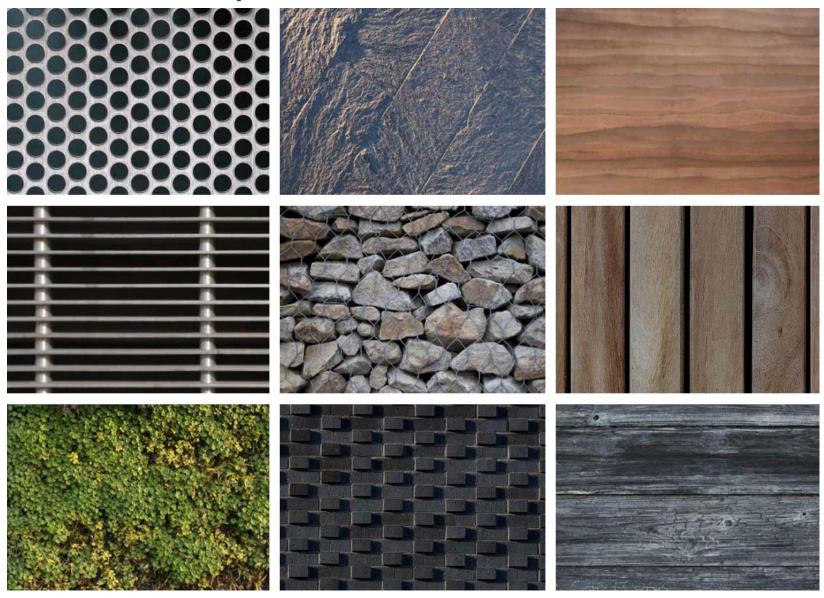




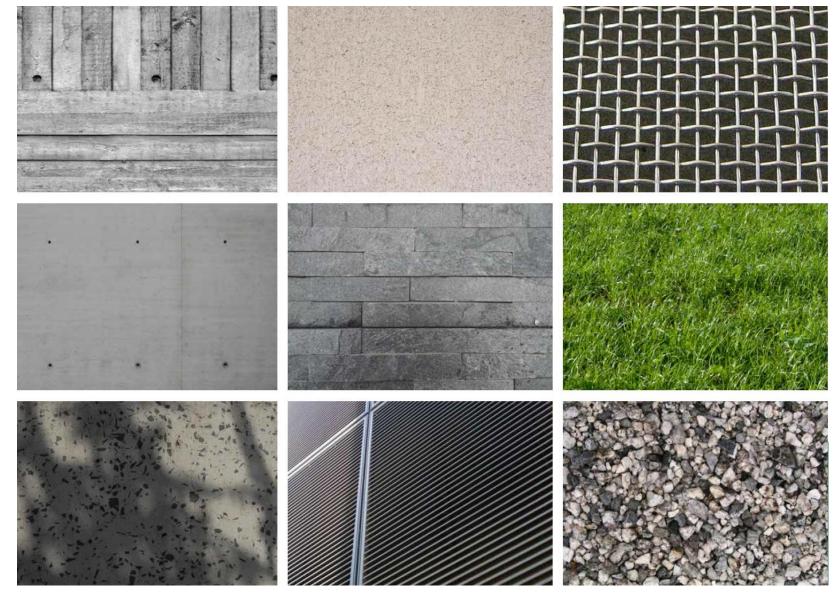
Buildability



Materiality



Materiality



Materiality

