

Unusual Construction Sequences

The Problem / Challenge

Intelligibility of unusual construction sequences and ensuring that all the necessary people know how to build the structure safely.

The Risks

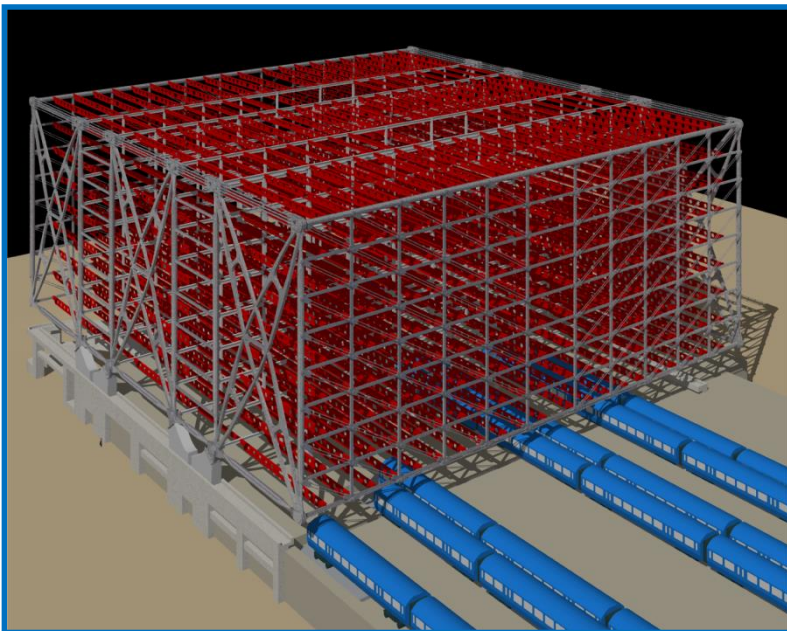
Collapse during construction due to asymmetric loading and unbalanced cantilevers.

The Solution

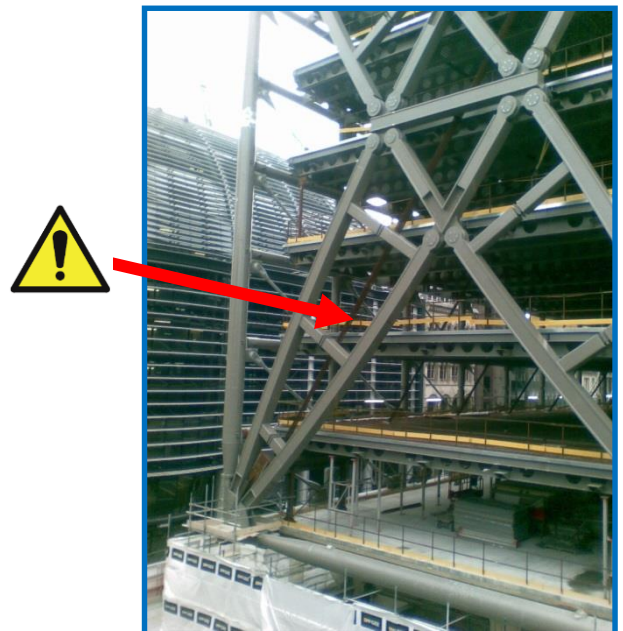
Graphic presentation of the proposed sequence for contractors to understand the structural and constructional design intentions.



Cannon Place Bridge Structure



Design Stage 3D View of Structure



Temporary Bracings Highlighted

The Benefits

- Information sharing with the construction team at early stages of the project.
- Reduced chance of things going wrong.
- Opportunity for additional input from stake holders before design progresses too far.

Key Points

- Simple 3-D drawings overlaid in an animated PowerPoint, showing the site constraints and proposed significant sequences.
- Ensure any specialist subcontractors are engaged early in the design process.
- All temporary bracings should be easily identified with any key removal stages known by all parties.

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