



## BUXTON CRESCENT HOTEL & NATURAL BATHS



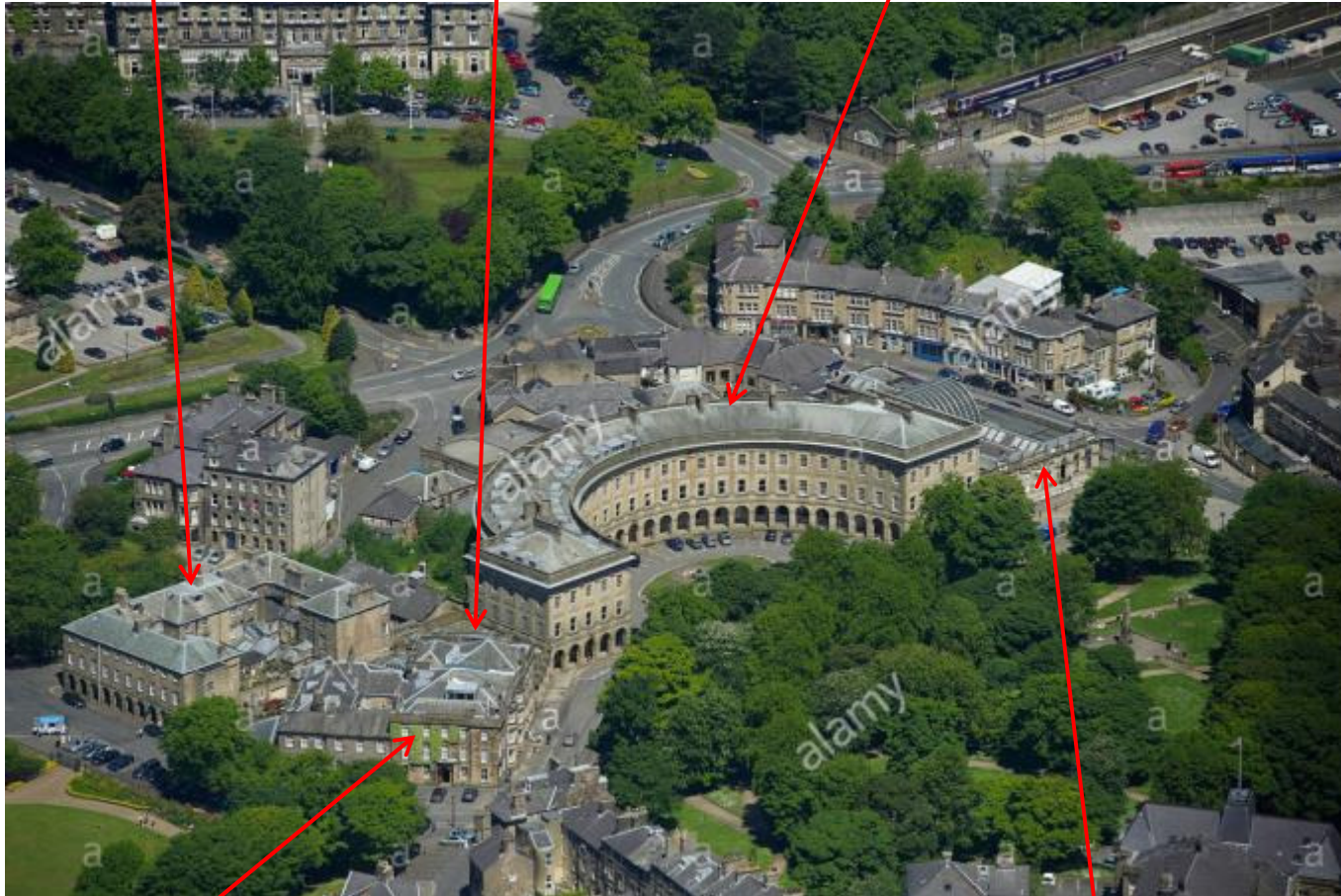
[www.tonygee.com](http://www.tonygee.com)

Consulting Civil, Structural and Geotechnical Engineers

THE SQUARE  
Grade II\* since 1951

NATURAL BATHS  
Grade II since 1951

THE CRESCENT  
Grade I since 1951



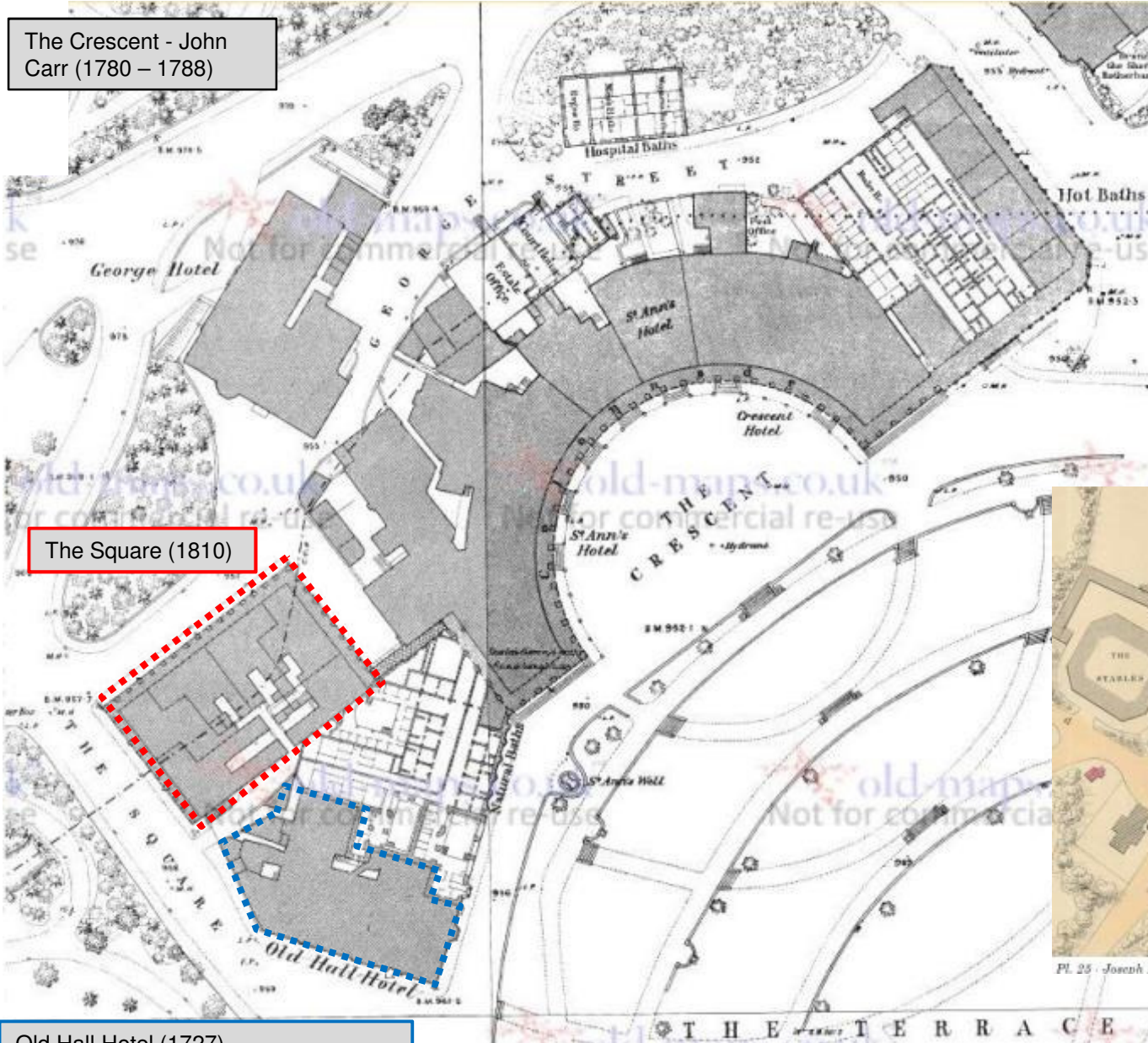
OLD HALL HOTEL  
Grade II\* since 1951

CAVENDISH ARCADE (HOT BATHS)



<https://historicengland.org.uk/listing/the-list/>





The Crescent - John Carr (1780 – 1788)

The Square (1810)

Natural Baths (1852)



Pl. 25 Joseph Paxton's plan of Buxton 1852. The pink coloured buildings are proposed.

Old Hall Hotel (1727)  
(Four-story tower 1573)

## Ground Water



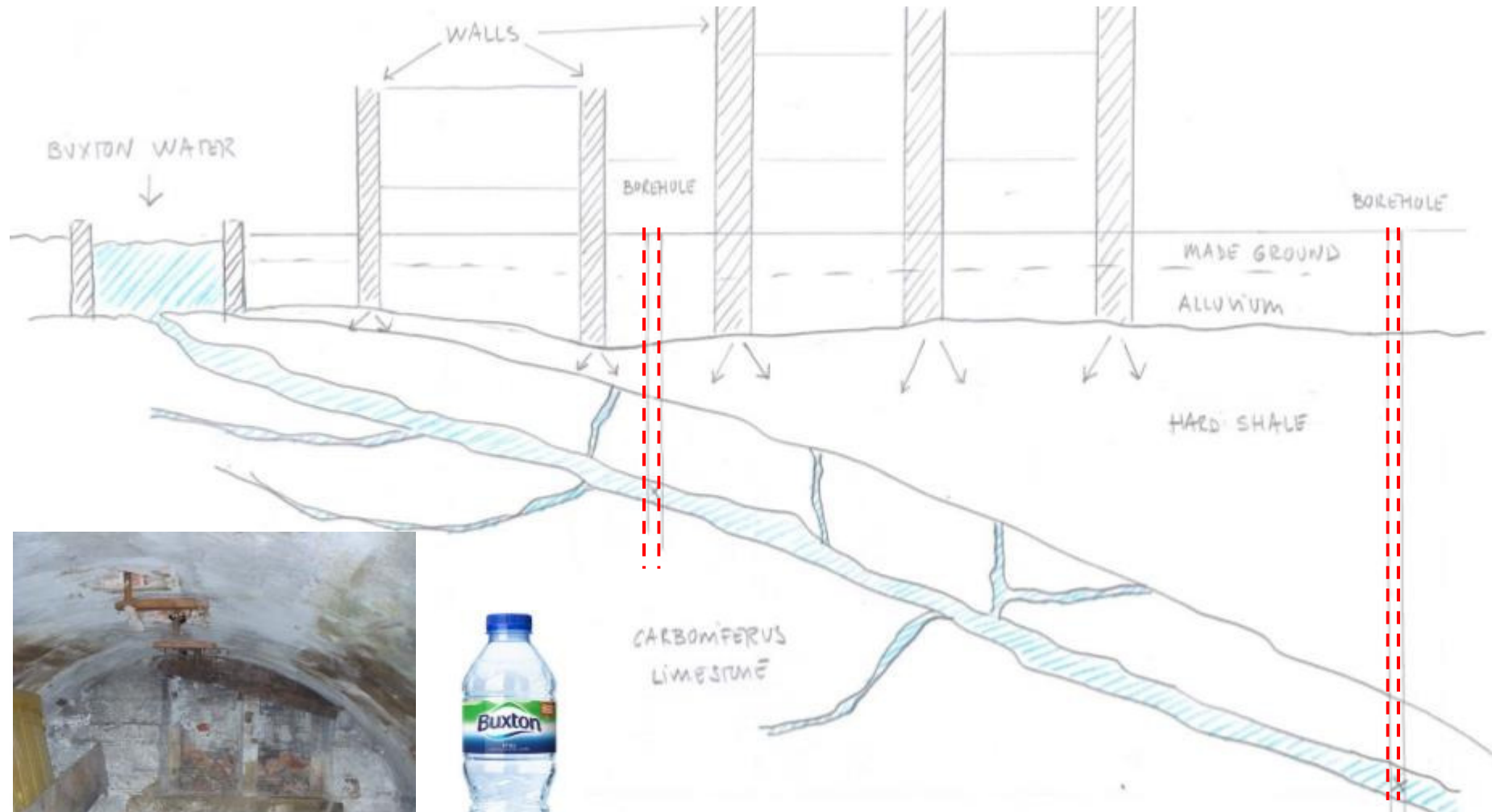
Culvert entrance from the Pavilion Gardens



Crescent basement walls



## Thermal Waters - Springs



Crescent basement  
one spring collection point

## Historic England



Ladies pool in Natural Baths



Cantilever stone staircase in the Crescent

## Historic England

Assembly room in  
the Crescent



"The Blue room" in the Crescent



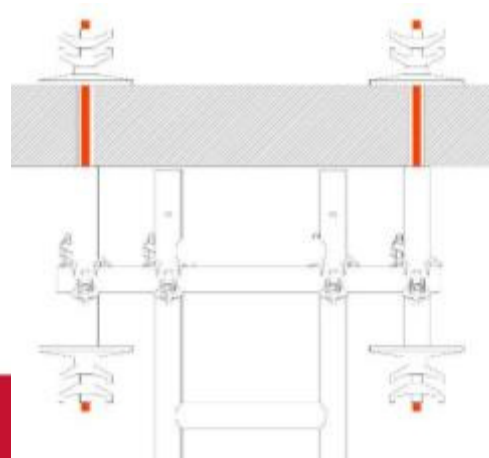
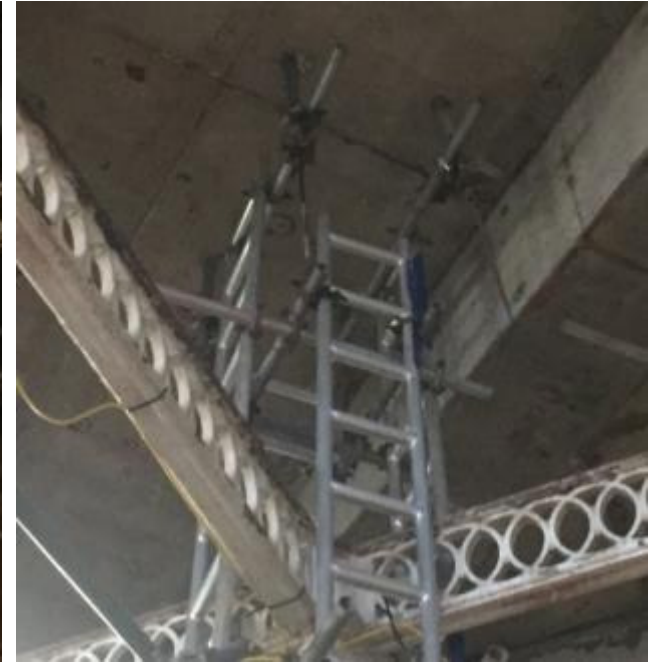
Natural Baths – Cast Iron restraint



Cast Iron columns top and bottom details



## Natural Baths – Cast Iron restraint

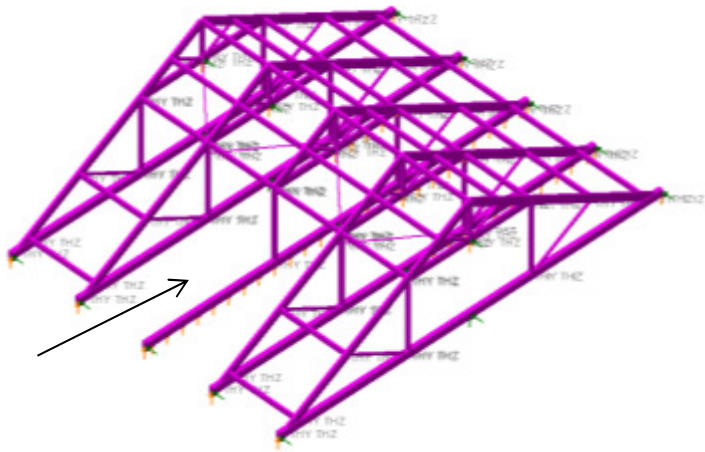


Natural Baths – Cast Iron restraint





## Crescent roof works



Typical purlin to rafter connection  
Tusk Tenon + wedge



## Crescent roof works



Tension straps

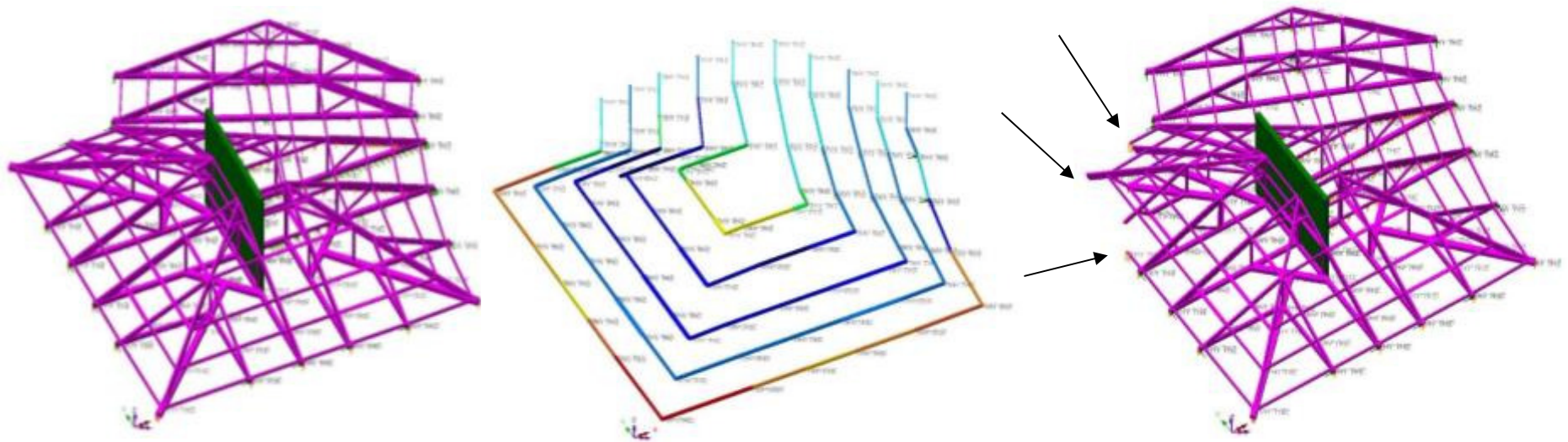


New glulam beam





## Crescent roof works



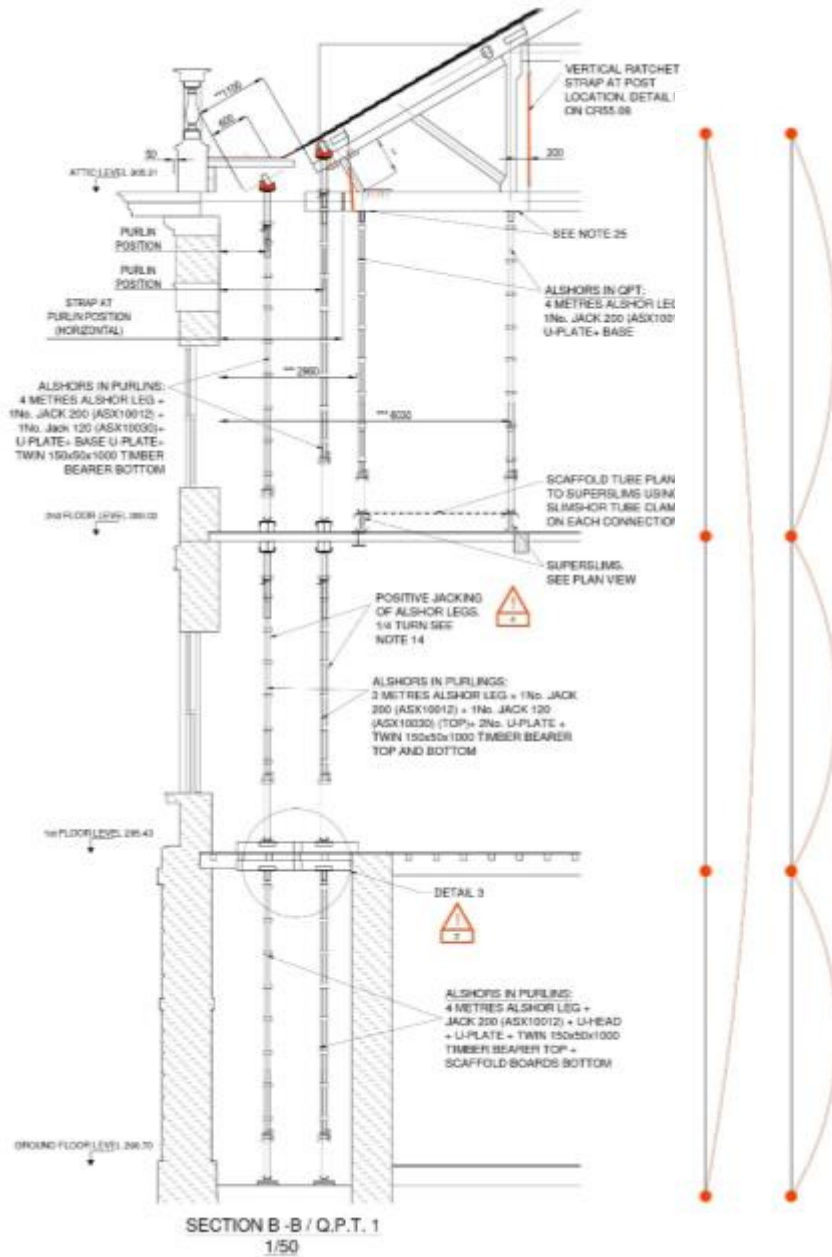
Ratchet strap and hanger at purlin location



Typical timber resin splice with fibreglass rods



## Crescent roof works



Aluminium props  
44Kg each (including jacks)



West pavilion – Cornice external view



THANK YOU

