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### Tensile Mesh Structures:

- Work in tension to span between support boundaries.
- Stainless Steel G316 with stainless steel connecting ferrules.
- Edges finished with ferrules or eyelets.
- Pre-tensioned structures.
- Surface profile of net depends on geometry of boundaries.
- Function dictates aperture / structural requirements decide wire diameter.
- Typically weight less than 1kg per m2
- Engineered for compliance
- Analysed using non-linear large displacement finite element software.


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### Benefits of Tensile Mesh

- Performs in most environments.
- High strength means efficient long spans.
- High porosity/visually discrete.
- Take-up anticlastic curved forms.
- Supports decorative elements.

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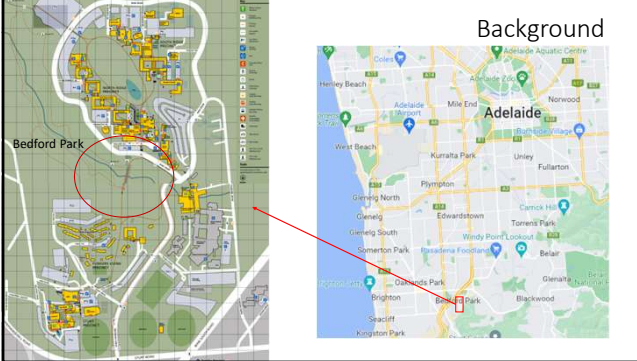
### Flinders University Footbridge Case Study



1. Background
2. Design Parameters
3. Final Design
4. Construction/installation

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### Background



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Existing Conditions


Flinders UNIVERSITY COX

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### Design Parameters

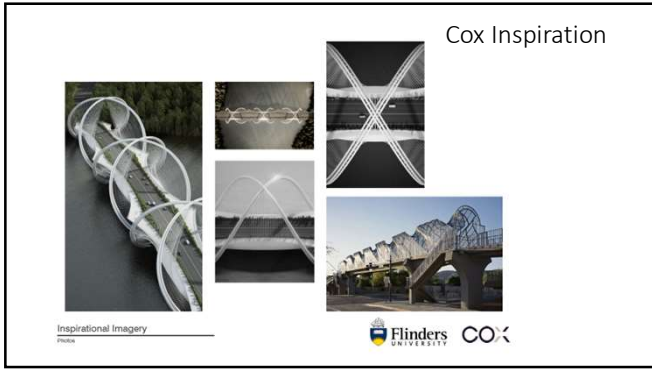
## Flinders University Footbridge

Aug 2018

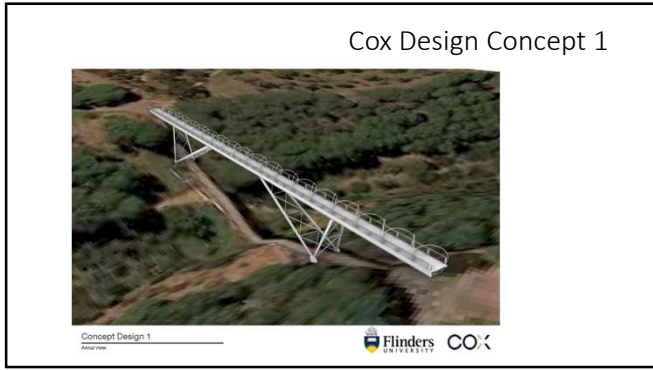


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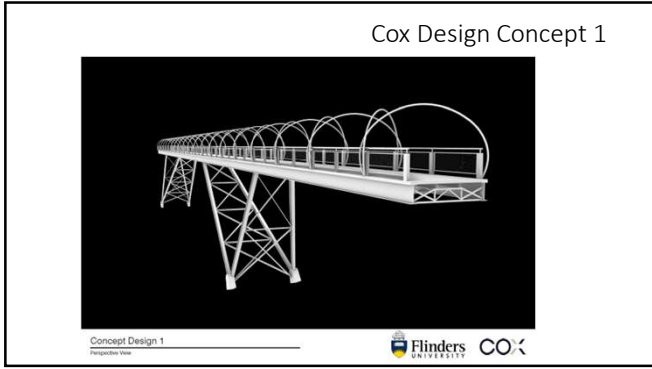
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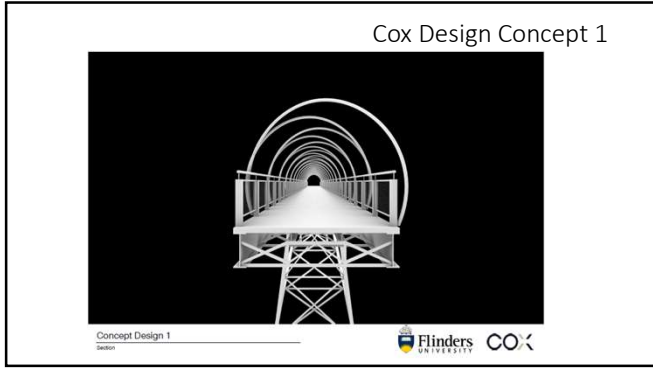
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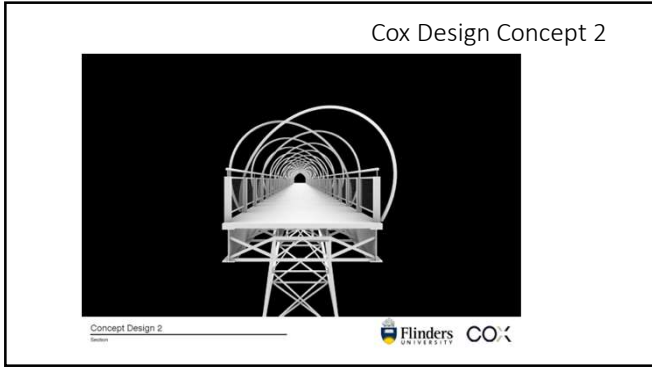
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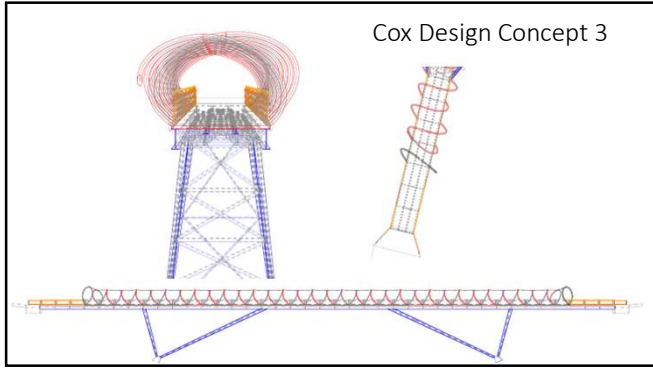
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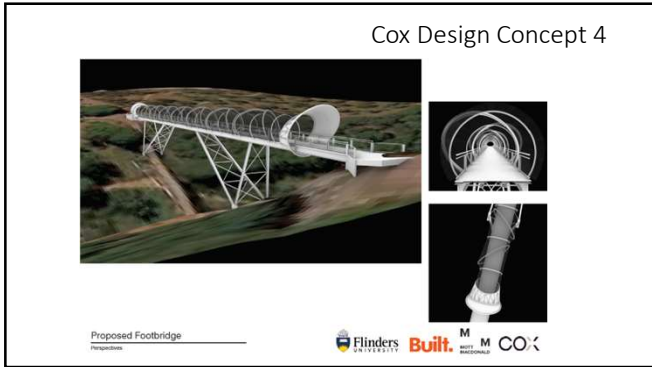
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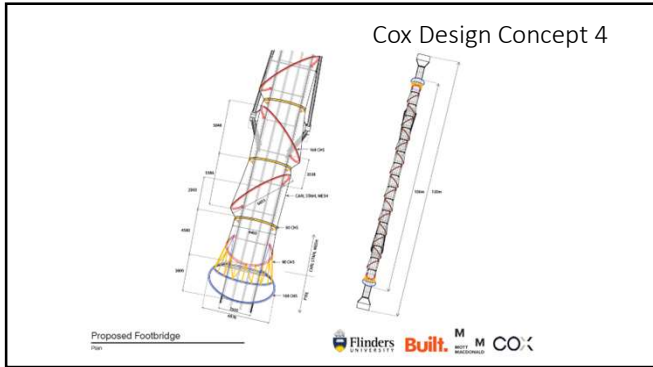
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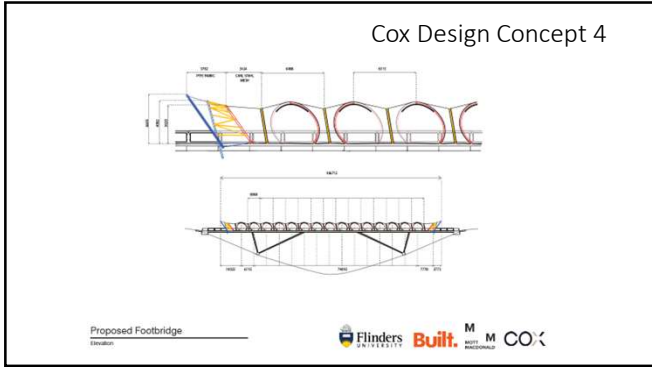
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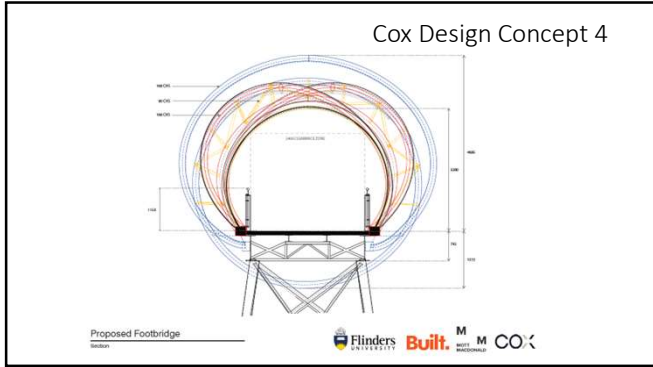
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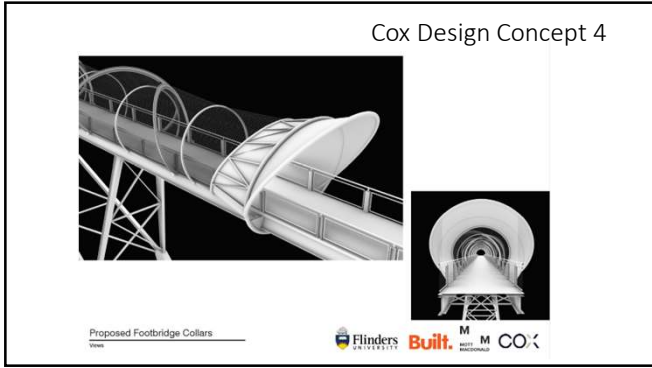
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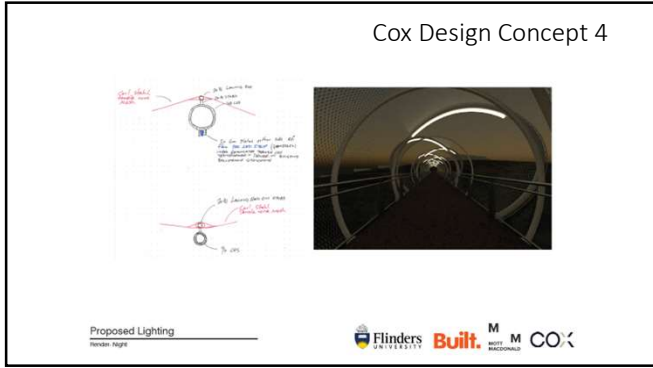
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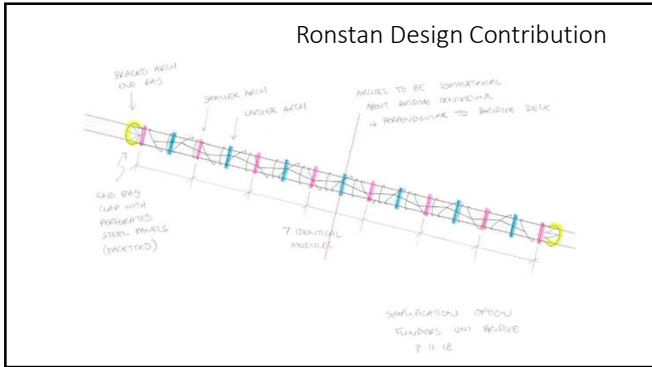


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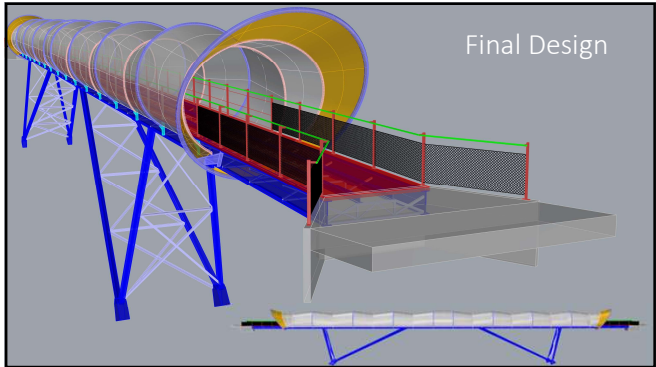


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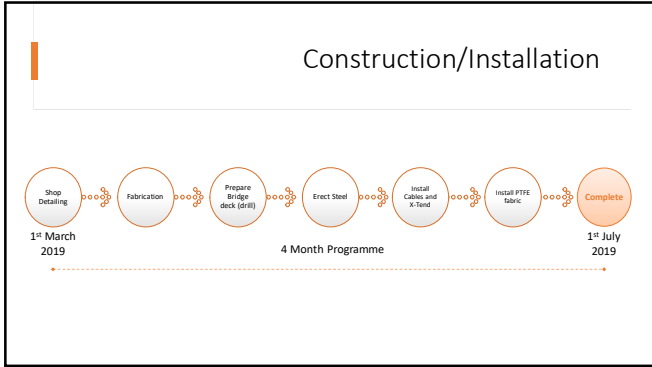




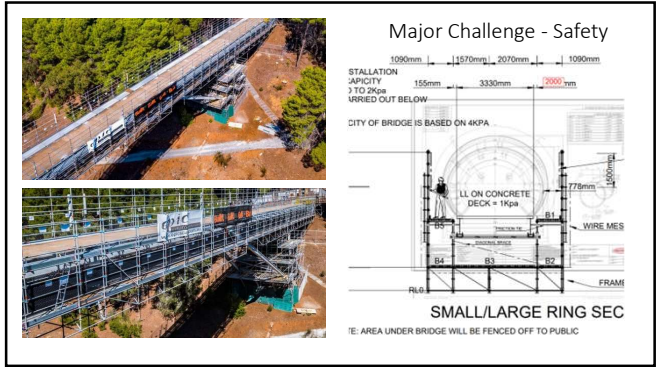
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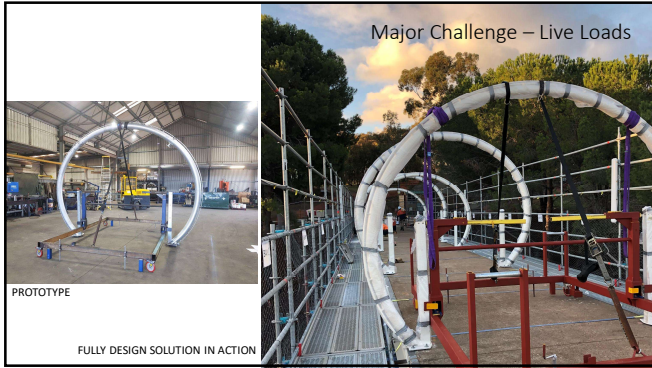
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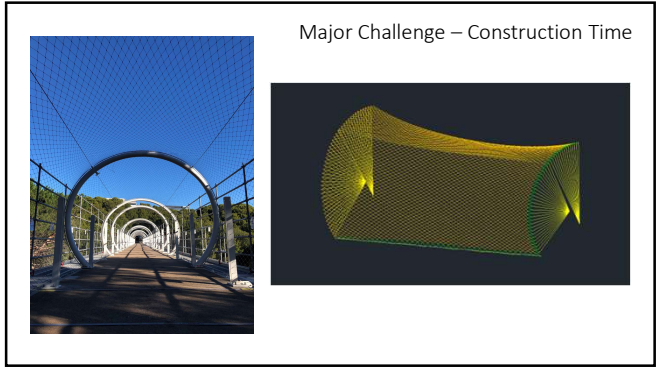
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Thank you

- Client: Flinders University
- Architect: Cox
- Engineer: Mott Macdonald
- Specialist Design: Tensys Engineers
- Building Contractor: Built.
- Specialist Contractor: Ronstan Tensile Architecture
- Tensile Mesh: Carl Stahl X-Tend

Rowan Murray / Paul Joseph / Basil Callahan  
Ronstan Tensile Architecture  
Melbourne, Australia

  
TENSILE ARCHITECTURE

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