

BRIDGE 3161 STRENGTHENING



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|----------|------------------------|
| VALUE | \$730K |
| YEAR | 2016 |
| DURATION | 4 months |
| CLIENT | ACT Government |
| REFEREE | Thusitha Gangodagamage |
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SUMMARY

Located on the Monaro Highway between Canberra Avenue and Hindmarsh Drive, Bridge 3161 spans the Jerrabomberra Creek waterway, facilitating approximately 43,000 vehicle movements per day. As part of the Australian Government's \$300 million dollar "Bridges Renewal Programme" funding was allocated for strengthening of Bridge 3161 to improve public safety and provide greater capacity for commercial transport.

The scope of works included; jacking of the bridge superstructure to replace bridge bearings, carbon fibre strengthening of girders, stormwater drainage remediation and clearing of debris from the congested downstream waterway. Complex displayed a number of innovative approaches during construction, jacking the bridge superstructure using a unique incremental jacking/propping methodology, and drastically reducing environmental and financial impacts of the project by processing, blending and reusing materials from the waterway to restore the adjacent landscape.

PROJECT FEATURES

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| Unique incremental jacking and propping methodology | Reuse of onsite materials |
| Carbon Fibre Reinforced Polymer strengthening | Complex scaffold access |
| Bearing installation | Dustless grinding and drilling |
| Grouting operations | Temporary works design |
| Work within a flood prone waterway | Protection of heritage artefacts |
| Excavation and clearing in waterway | Complex staging of construction |
| | Traffic management on major arterial road |

AWARDS

2017 CCF Earth Awards – National Winner
2017 MBA Awards – Winner
2017 CCF Earth Awards – Winner