

# **Corangamite Shire**



**LATE  
AGENDA**

## **Ordinary Council Meeting**

*7.00 pm • Tuesday 27 February 2018*

*Killara Centre  
210-212 Manifold Street, Camperdown*

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## L. OFFICERS' REPORTS

### L.1 Contract No.2018013 - Bones Access Road Bridge Upgrade

**Author:** John Kelly, Manager Assets Planning

**File No:** D18/67

**Previous Council Reference:** Nil

#### **Declaration**

Chief Executive Officer – Andrew Mason

In providing this advice to Council as the Chief Executive Officer, I have no interests to disclose in this report.

Author - John Kelly

In providing this advice to Council as the Manager Assets Planning, I have no interests to disclose in this report.

#### **Summary**

Two tenders plus an alternative tender have been received for Contract No. 2018013 for a new bridge construction for Bones Access Road over Gellibrand Road, Chapple Vale. It is considered that the best overall value for Council is provided from the revised alternative tender submitted by VEC Civil Engineering Pty Ltd at a price of \$593,261 (ex GST).

#### **Introduction**

The existing bridge on Bones Access Road over Gellibrand River in Chapple Vale approximately 12km south-east of Simpson, is a timber bridge in poor condition with a 20 tonne load limit in place. The load limit places restrictions on milk tankers that cross the bridge on a daily basis for milk pick up from the dairy farm on the northern side of the bridge.

The new bridge will have concrete components and will be designed such that B Double and Higher Mass Limit (HML) vehicles will be permitted to travel over it.

Tenders were sought from suitably qualified contractors for the detailed design and construction of the new bridge on Bones Access Road.

#### **Issues**

##### ***Tender Evaluation Criteria***

Three tenders were received from two bidders for the design and construction of the Bones Access Road bridge upgrade. VEC Civil Engineering submitted one conforming and one alternate non-conforming tender. Works in the contract include:

- Design and construction of new bridge and realigned approaches.
- Engineering certification of design
- Barrier rail installation
- Bulk earthworks for approaches
- Pavement construction of approaches

- Prime and sealing of approaches
- Installation of signs and linemarking
- Removal of the existing timber bridge
- Traffic management
- Environmental management
- Occupational Health & Safety documentation and implementation
- Provision of construction and “as constructed” drawings.

Only tenderers pre-qualified at VicRoads with both prequalification levels Roadworks R1 and Bridgeworks B2 at the time of the closing of tenders were eligible to tender for this contract.

One of the requirements for meeting Roadworks R1 level is the capacity of the contractor to undertake general earthworks to a maximum of 2m height in fill plus road pavement construction and sprayed seal surfacing.

One of the requirements for meeting Bridgeworks B2 level is the capacity of the contractor to construct simply supported non-complex concrete bridges.

An evaluation of the tender submissions has been completed with regard to the following weighted criteria:

(a) Tendered Price	45%
(b) Performance Capability – Quality of previous work; Quality of previous client relationships, staff numbers, Qualifications, skills, experience	25%
(c) Time Management – Ability to meet agreed timeframes, Availability to meet required timeframe	15%
(d) Contractor Internal Systems – Occupational Health and Safety	10%
(d) Local Content	5%**

\*\* A 5% weighting shall be given to contractors who demonstrate in the tender process how they intend to support local suppliers, contractors and services. Local is defined as within the Corangamite municipality.

### ***Bridge Design***

The concept for the new bridge, which was provided with the tender documents for this contract, showed a 28m long single span bridge stretching over Gellibrand River. The new bridge would be located approximately 10m west of the old bridge with new approaches to be constructed. This would allow the existing bridge to be trafficked whilst the new bridge is being constructed. The old bridge would be demolished once the new bridge is opened to traffic.

### ***Tender Evaluation Summary***

The tendered prices as well as evaluation against the weighted criteria are summarised below.

Tenderer	Tender Sums (GST Exclusive)	Total Score out of 100
1. VEC Civil Engineering (Revised Alternative tender)	\$593,261	100
2. VEC Civil Engineering (Conforming tender)	\$781,777	85.7
3. VEC Civil Engineering (Alternate non-conforming tender)	\$724,712	Non-Conforming
4. Company A	\$478,417	Non-Conforming
5. Benchmark Estimate	\$654,000	Not applicable

Company A currently has no VicRoads prequalification levels for bridgeworks and roadworks and therefore did not meet the Conditions of Tendering for this contract. Also its tender submission was considered non-conforming as it planned to initially demolish the existing bridge removing access to the adjacent dairy during construction of the new bridge and had proposed to use deck planks which have insufficient length to single span the river. For these reasons Company A's tender was not considered any further.

In addition to a conforming tender VEC Civil Engineering submitted a lower alternate non-conforming tender price of \$724,712 based on a new three span bridge being constructed at the location of the existing bridge. The alternative design would require two piers established within the creek however the depth of the concrete deck planks would only be 600mm compared with the 1400mm depth required for the deck and beams for the single span bridge design. The alternative tender design would have the new bridge constructed on the alignment of the existing timber bridge. The tenderer advised that the old bridge would still be able to be trafficked whilst the new bridge is being constructed with the exception of two days when the old bridge deck would be removed to enable precast concrete pier crossheads and bridge deck planks to be installed.

VEC Civil Engineering was evaluated and assessed as able to meet the tender specification. Given the tendered price was over Council's budget, VEC Civil Engineering was asked to submit a revised tender price based on their alternate non-conforming tender and the following changes to the scope of works:

- The road approaches to the new bridge remain unsealed.
- The bridge barriers being "Low Level" standard containment in lieu of "Regular Level" containment. This alteration is considered appropriate given the low volumes and low approach speeds of traffic crossing the bridge.
- Removal of the Provisional Sum Item of \$25,000 for maintenance of the existing bridge and approaches. The cost of maintenance of the existing bridge and approaches is to be built into the tenderer's lump sum price.
- Removal of the Provisional Quantity for Removal and Replacement of Unsuitable Material. Any costs associated with this would be paid under the Provisional Sum Item for Dayworks.

VEC Civil Engineering subsequently submitted a revised tender price of \$593,261.

VEC Civil Engineering has had experience in delivering many similar sized bridge projects in recent years including bridge replacements over various creeks and rivers for Colac Otway and bridge strengthening for VicRoads. VEC supplies its own precast concrete bridge components, has its own bridge construction crew and pile driving rig and supervises local subcontractors for earthworks.

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### ***Works On Waterway***

Corangamite Catchment Management Authority (CCMA), the responsible authority for Gellibrand River, has been consulted and had provided a Works on Waterways Permit for the project based on the bridge concept design provided with the tender documents.

CCMA has since advised that it also supports the alternative multi-span bridge design submitted by VEC Engineering.

Further details on the tender evaluation for the contract are included in the attached Tender Evaluation Report.

### **Policy and Legislative Context**

The contract for the Bones Access Road Bridge upgrade was advertised for public tender, as required under the *Local Government Act* and Council policy, as it is a purchase greater than \$150,000.

The contract is consistent with the following objectives for Theme 2 Roads in the Council Plan 2017-2021:

Maintain our local road network at current or improved standards.

Council will focus on the provision of high quality roads.

### **Internal / External Consultation**

Tenders were invited for the Bones Access Road bridge upgrade works by way of an advertisement in the Herald Sun in November 2017. At the end of the tender period no tenders were received.

Tenders were invited again by way of an advertisement in the Herald Sun in December 2017. At the end of this tender period three tenders were received from two contractors.

### **Financial and Resource Implications**

The revised alternative tender price of \$593,261 obtained from the recommended contractor VEC Civil Engineering as well as \$35,000 pre-construction costs for activities such as concept design development and geotechnical and flora and fauna investigations results in a total estimated project cost of \$630,000.

Council has budgeted as a part of its 2017-2018 budget \$550,000 for the Bones Access Road bridge upgrade. The project is fully funded from the 2017-2018 allocation from the Federal Government's Roads to Recovery program. A further \$80,000 in Roads to Recovery funding to match the shortfall is available from the savings realised from the recently completed annual resealing program and road rehabilitation works in Ansons Road.

The submitted program by the recommended contractor VEC Civil Engineering for the alternative design has indicated, based on a contract award in mid March 2018, works commencing in May 2018 with completion in July 2018, which is well before the Practical Completion due date of the contract in March 2019. The successful contractor is required to submit an updated program of construction to Council for review following the award of the contract.

The financial viability check of the recommended contractor, VEC Civil Engineering, found it to be a minimal financial risk for the project.

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### **Options**

Council may choose to award this contract to one of two contractors that have submitted tenders for the works, or alternatively not to award the contract.

### **Conclusion**

The contract for the design and construction of the Bones Access Road bridge upgrade has been tendered and evaluated in accordance with Council policy and the evaluation criteria.

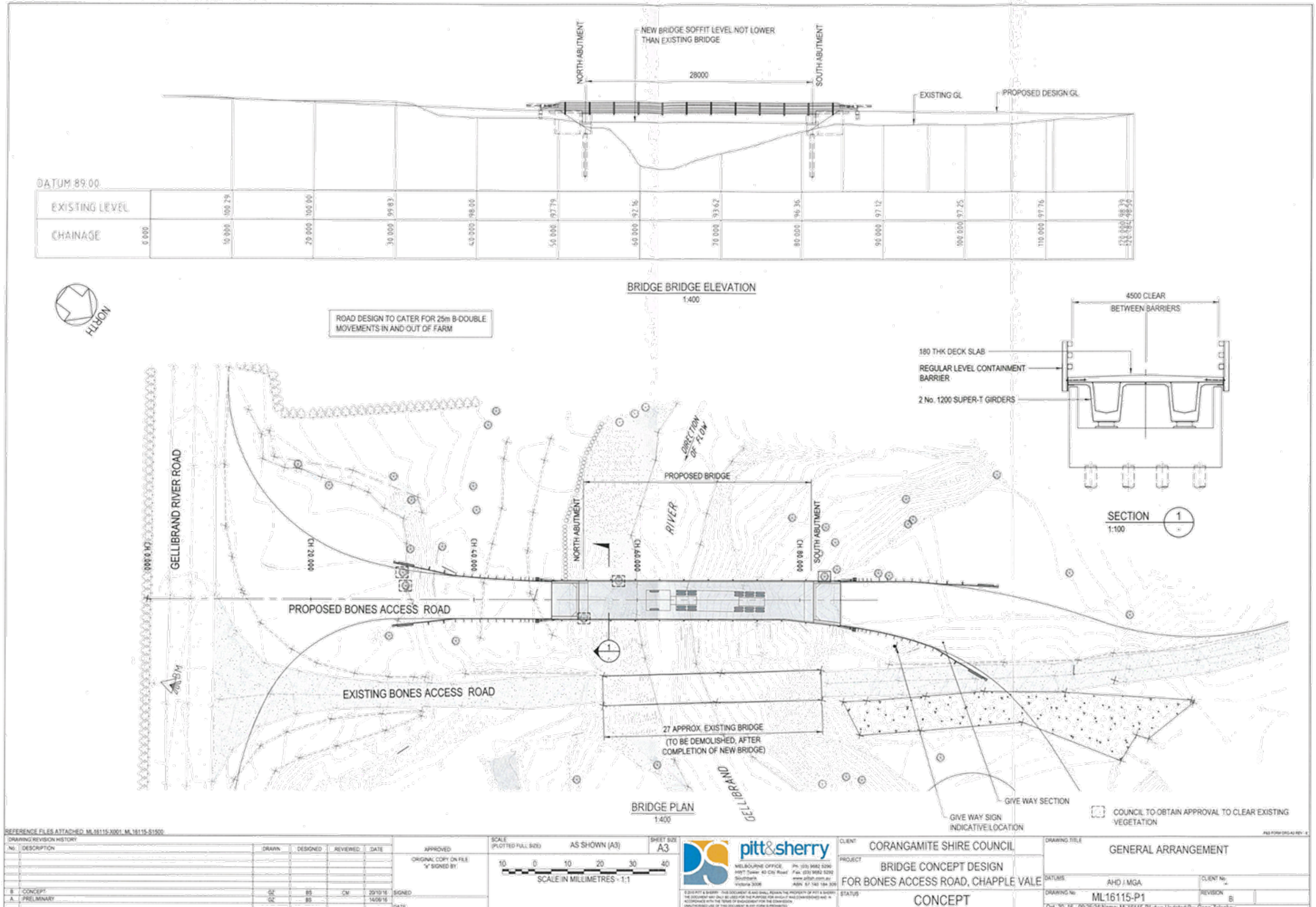
VEC Civil Engineering is a proven performer in successfully delivering bridgeworks projects of the scale of the Bones Access Road bridge upgrade, and it is considered that its alternative tender submission provides the best overall value for Council for the contract.

### **RECOMMENDATION**

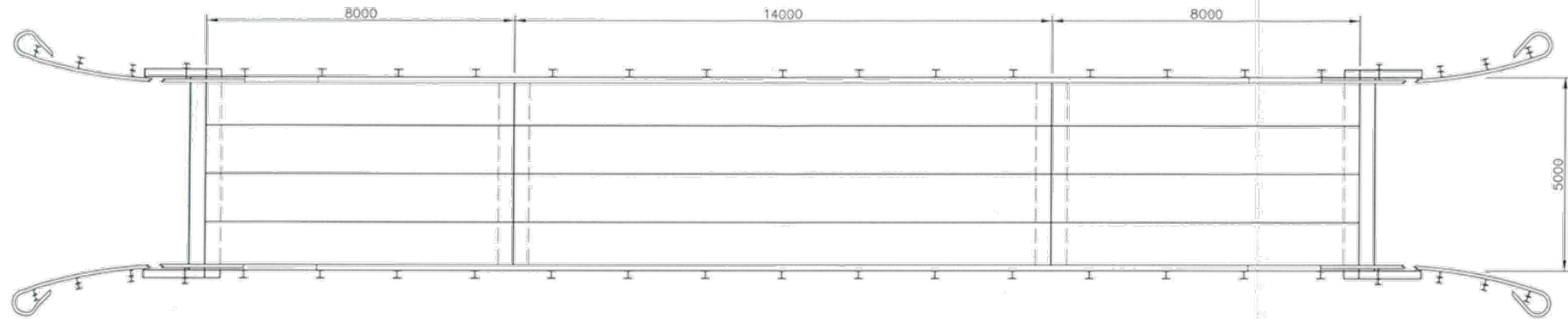
**That Council awards Contract 2018013 – Design and Construct – Bridge Replacement, Bones Access Road, Chapple Vale to VEC Civil Engineering for the value of \$593,261 (plus GST) and affixes the Common Seal of Council to the contract.**

### **Attachments**

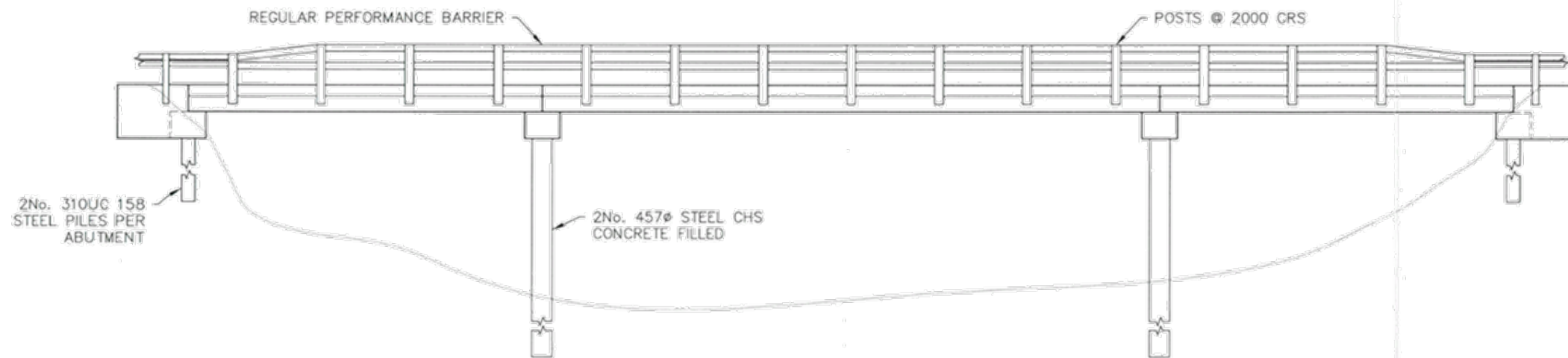
1. Declarations of Conflict of Interest - Under Separate Cover
2. Tender Evaluation Report - Bones Access Road Bridge Upgrade - Contract 2018013 - Under Separate Cover
3. Tender Price Summary - Bones Access Road Bridge Upgrade - Contract 2018013 - Under Separate Cover
4. Conforming Concept Design Bones Access Road Bridge Upgrade
5. Alternate Non-Conforming Concept Design Bones Access Road Bridge Upgrade







PLAN



ELEVATION

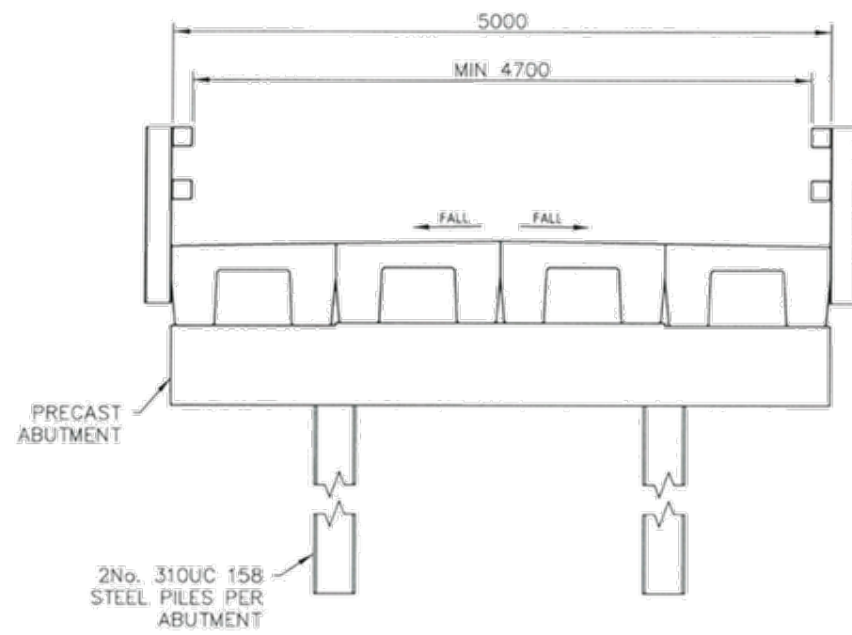
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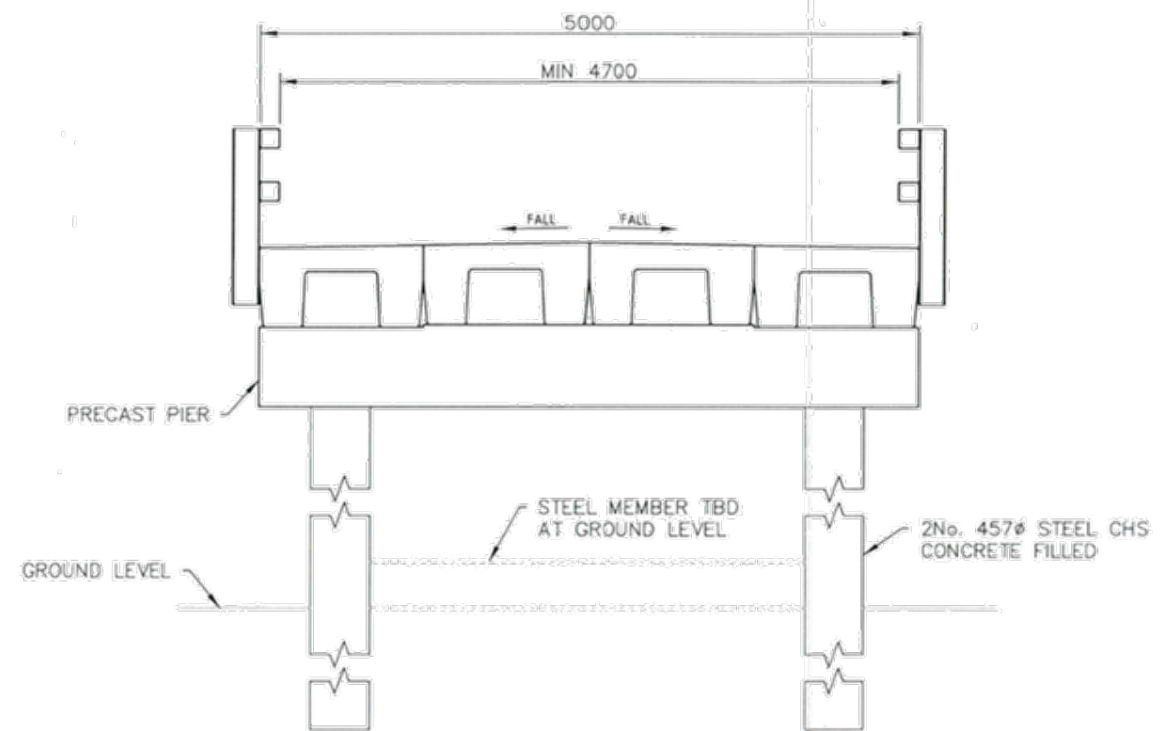


CORANGAMITE SHIRE COUNCIL  
Bones Access Road, Chapple Vale  
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CORANGAMITE SHIRE COUNCIL

Bones Access Road, Chapple Vale  
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