

## **EMAIL INITIATING A PEER REVIEW PROCESS TO EVALUATE CHRISTIANE HUSMANN'S DESIGN**

Christiane's Bridge design was sent to James Pierce, who is a very experienced bridge engineer and designer/architect.

**Matt Wittwer – Civil Projects Coordinator, Engineering**

t: 08 8408 0543 | m: 0409 509 342

**From:** [joneaton@bigpond.net.au](mailto:joneaton@bigpond.net.au) [<mailto:joneaton@bigpond.net.au>]

**Sent:** Friday, 21 February 2014 2:50 PM

**To:** Matt Wittwer

**Cc:** Cate Mettam

**Subject:** Christiane's Bridge design

Hi Matt

I've enclosed the information and design concept that Christiane Husmann has sent just me. She asks for feedback.

Are you able to cast your critical engineer's eye over the design? I would value your opinion.

Perhaps it is possible for you and/or me to confer with an engineer within DCMB? David Cooney is not an engineer as I understand it but I'm conscious that DCMB will need to be kept in the loop.

To my layman's understanding, Christiane has kept to the requirements of a walking/cycling and has understood the challenges at this particular site with her concept of a "breakable, collapsible" bridge that would be repairable if the worst case scenario of an impact during flooding from a large tree. The design is pretty well much what I expected- a simple span with the innovations that I was expecting. That is why Magryn engineers were chosen.

From your engineer's perspective and that of your counterpart within DCMB – will it work?

At this stage Christiane has given me no 'ballpark' idea as to the cost of construction, although this is a fundamental piece of info that I will need to include in my final report to ORS on the feasibility study and for when I seek sponsorship for the project. It may cost more for Magryn to do the quantity surveying and arrive at an estimate – although they may consider this tantamount to a quote for the job and fear that they will be held to it. Do you and DCMB have a way of arriving at a ballpark estimate from this design? We do have a quite a bit remaining in the kitty and I will need to have this information in order to determine the feasibility of the bridge design as against the other options we may have to consider. What's the convention in these matters? We are not in a position to put the bridge out to tender - but we need a process for estimating the cost in order to complete the Verdun bridge feasibility study.

I would also like to arrive at a design for the road reserve – track specs, vegetation, schools/community involvement and what's there already in the way of weeds and indigenous species – although ORS have told me that that would be outside the ambit of this study even though I covered this aspect as part of my grant submission and the project will get a bigger tick from the Adelaide and Mt Lofty Ranges Natural Resources Management Board (AMLRNRMB) for the weeding and biodiversity benefits this aspect of the project will bring.

Best wishes.

John

78-019-005-437



**The Walking Federation of South Australia Inc.** ABN: 78 019 005 437

WSA Postal Address: 5 Fitzgerald Road PASADENA SA 5042; My Postal Address: 9 Giles Street

**John Eaton Trails: Strategic Access & Infrastructure**

Office hours: Tuesday and Thursday 9:00am to 3:00pm

Personal contact numbers: T:

Office Contacts: P:

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Christine writes the following explanatory notes:

“I have attached the concept for the bridge at Sandow Rd. We kept the bridge above the 50 ARI year flood inundation so that it will not be flooded frequently. I understand the high season of walking coincides with high flood levels and it is not desirable if the bridge is closed during that time. In addition, there will be less maintenance required in the long run compared to a lower (and shorter) bridge which is likely to be flooded more often. The superstructure has been designed for impact from a floating gum tree; however, the balustrade panel hit by the tree will collapse or be damaged. The concept of discrete panels aims at keeping the damage and repair costs down.

We are showing a 3m wide bridge because this width is specified as the minimum dimension for a shared path according to Austroads, which is the relevant standard for road and bridge design. It also helps reduce conflict between bicycle riders and pedestrians. The desirable width is 3.5m according to the Code. I understand the minimum width also depends on the level of activity, so please let me know if a 3m wide bridge suits you.

I look forward to your feedback. Thank you. “

Regards,

**Christiane Husmann**



Consultant Mining, Civil, Structural and Coastal Engineering

267 Brighton Road, Somerton Park, 5044

Ph +61 (0)8 8295 8677

Mobile +61 (0)412 796 840

Fax +61 (0)8 8295 5104

email [christiane@magryn.com.au](mailto:christiane@magryn.com.au)

[www.magryn.com.au](http://www.magryn.com.au)

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