



October 24, 2021

File: TWP RD 832 (BF 72221)

**Municipal District of Peace No. 135**

PO Box 34. 5240 52 Avenue  
Berwyn, AB  
T0H 0E0

**Attention: Barbara Johnson**  
**Chief Administrative Officer**

Dear Barbara,

**Re: Request for Engineering Proposal, Hydrology/Hydraulic Review**  
**Cancelled Bridge File 72221, Watercourse Culvert at SW 13-83-23-W5M**

Thank you for requesting a proposal from MPA Engineering Ltd. (MPA) to provide the Municipal District of Peace with engineering services for a hydrology and hydraulic review of the following non-bridge sized structure:

Bridge File Number	Hwy	Location	Existing Structure
N/A (historically BF 72221)	Local Road	SW 13-83-23-W5M, TWP RD 832	2 x 600 mm CSP Culverts

## 1.0 PERSONNEL

MPA Engineering Ltd. would assign Megan Bartman, P.Eng. as the project manager for this assignment with oversight from Eric Carcoux, P.Eng. Report review and corporate support would be provided by Stew Hagan, P.Eng. Field and engineering activities associated with this project would be completed by Megan Bartman, P.Eng. or Clem Guenette, CET.

## 2.0 METHODOLOGY

The following items detail the scope of the engineering services to be provided in order to complete this assignment:

- A review of the existing file information would be undertaken in Alberta Transportation's office in Peace River for the design (as available) and surrounding sites to assist with the hydrology review.
- A Site inspection would be completed to determine the present condition of the site and channel parameters to be used in determining the design flow.

- A hydrology review will be undertaken to provide a preliminary estimate of the design flow at the site.
- The hydraulics of the existing structure will be examined to determine the capacity of the present structure in relation to current Alberta Transportation design standards. Deficiencies would be noted and risks associated with these deficiencies would also be identified.
- If the existing structure is deemed to be undersized then the diameter of a properly sized CSP structure will be determined and an "A" cost estimate will be provided.
- The hydrology and hydraulic information, as well as the size of the potential replacement structure will be summarized in a draft report. The draft report would be presented to the Municipal District for review with the final report to follow after review.

### **3.0 ENGINEERING BUDGET & UPSET LIMIT**

A lump sum engineering budget has been prepared based on a price of \$5,000 for the hydrology/hydraulic review of the existing structure.

### **4.0 CLOSING**

Thank you for considering MPA Engineering Ltd. for your engineering requirements. I would be pleased to answer any questions you may have regarding this submission.

Sincerely,  
MPA Engineering Ltd.  
per:



Megan Bartman, P.Eng.

If our proposal is acceptable, please sign the following authorization to proceed and e-mail it back to MPA attention Megan Bartman.

**Authorization to Proceed and View Alberta Transportation Files**

MPA Engineering Ltd. is hereby authorized to commence work on the TWP RD 832/BF 72221 Hydrology Review project as per the details noted in the preceding proposal.

We authorize MPA Engineering Ltd. to view Alberta Transportation's files for this site as well as any sites upstream and downstream or on adjacent watercourses which would be required for the purpose of estimating design flows or obtaining local site history information.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
MD of Peace No. 135