



Purchasing Division

ADDENDUM NO. 1

DATE: April 27, 2018
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Professional Services for Safety Evaluation of Hogchute Dam RFP-4519-18-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. ***Question #1*** – Did the survey completed in 2017 extend below the water line? If not, will the City fill in the survey below the water line when the reservoir is drained in 2018?

Answer – The survey in the fall of 2017 did not extend below the reservoir’s water line. When the reservoir is drained in late summer 2018, the City can extend the survey on the upstream side of the dam as the Consultant deems necessary. The City will be able to gather any additional survey information that is needed and requested by the Consultant.

2. ***Question #2*** – Has the City considered performing a video inspection of the vent and drain lines to the best extent possible while inspecting the 30” outlet conduit?

Answer – As far as I know, the City hasn’t considered and/or tried using a camera to inspect the 4-inch air vent lines. The camera that will be used to inspect the 30-inch outlet conduit is too big for the air vent lines. However, the City does own a small push camera that is used on 4-inch pipes. The City doesn’t have a camera for pipes smaller than 4-inch. This is a good idea and something that can be pursued when the City’s camera truck goes up to inspect the 30-inch outlet conduit.

3. ***Question #3*** – Does the City have additional information regarding any work performed on the dam in 1972 and in 1988?

Answer – Currently, the City doesn’t have any records of work done to the dam in 1972. If there was work done to the dam in 1972, the Colorado SEO may have documents from this year that can be provided.

The City does have a November 14, 1988 year-end report letter to the State Engineer’s Office that can be made available to the Consultant. This letter addresses work done to the Hogchute Dam in 1988.

There are no construction plans, but there are photos of City crews extending the 8-inch toe-drain pipe out into the channel on the south side of the concrete outlet structure.

Sections of the letter are pretty faded and scanning the letter results in some pages being blank as the scanner can't recognize the text. This letter will be made available to the Consultant selected.

4. **Question #4** – Separate of the seepage observed at the outlet pipe headwall, have any other seepage areas been observed on the downstream face of the dam?

Answer – Specific seepage areas observed on the downstream face of the dam embankment haven't been observed due to the large riprap that is on the downstream face because you can't see the embankment soil. As highlighted in the State's 2017 Inspection report, there are two small seepage channels that have formed on the right bank in some willows just downstream of the concrete outlet structure. These small seepage areas daylight out of the ground in what's believed to be native/undisturbed soils.

5. **Question #5** – In addition to CCTV camera inspection of the 30" I.D. steel outlet pipe and the dual 20" steel outlet pipes, can the City also use this equipment to CCTV camera inspect the 8" toe drain pipe?

Answer – It's possible the City can inspect the 8-inch toe-drain pipe with the CCTV camera. Unknown bends and/or pipe offsets could make it difficult for the camera to inspect the whole toe-drain pipe. While the City's CCTV crew is on-site inspecting the 30-inch outlet pipe, the City can also see how far up the 8-inch toe-drain pipe the camera will make it. I think in order to inspect the 8-inch tile drain pipe; some excavation would be required to expose the original tile drain pipe system.

6. **Question #6** – The description of the project on the RFP notice is to "...identify potential failure modes on the ...Hogchute Dam...", but it does not discuss identifying new PFM's in the provided scope of work in the RFP. Can the City provide more detail in what they expect for this task?

Answer – In Section 4.1 General/Background, it states that "The Consultant shall also determine if there are any other PFM's not identified in the Comprehensive Dam Safety Evaluation Report (CDSER) based on the data collected during this study". The State Engineer's Office, with the history of inspecting this dam, put together a list of PFM's that they believe needs further attention and investigating. The PFM's the State identified are not absolute. However, the Consultant's investigating of the dam embankment should hopefully validate and/or invalidate the PFM's the State identified, as well as, identify any new PFM's the CDSER didn't.

7. **Question #7** – Developing PFM's is often done in a group setting, involving stakeholders and the consultant to develop new PFM's and reviewing existing PFM's. Is the City anticipating a PFM workshop taking multiple days and involving the consultant, city engineers, and operations staff (and possibly the Colorado SEO)?

Answer – Currently, the Consultant is required to meet with City staff and the Colorado SEO in December 2018 to present the Hogchute Dam Safety Evaluation Report and present the PFM's that are determined to need rehabilitation and/or repairs made. This meeting is not expected to go longer than one day.

If the Consultant believes it's necessary to meet with the City and SEO sooner before the final report is complete to review existing and new PFM's that will be fine. The City and the Consultant can discuss this as the project develops.

8. Question #8 – It appears there are no piezometers in the dam or surrounding area. Is this true?

Answer – Yes, there are currently no piezometers in the dam or surrounding area.

9. Question #9 – Will a recent topographic survey be available for our use? The SEO inspection report notes differences between what is shown on 1940's era drawings and what is observed in the field.

Answer – The City surveyor completed a comprehensive site survey of the entire dam embankment in November 2017. This survey included the upstream dam slope down to the water level, the spillway, the downstream dam slope, the adjacent native hillsides, and the natural channel downstream of the concrete outlet structure to the Parshall Flume flow measurement equipment. This survey, along with the control points will be available to the Consultant.

10. Question #10 – Is there any other instrumentation data that can be provided, such as point surveys of monuments and benchmarks, reservoir staff gauge readings, spillway or outlet discharge records?

Answer – There are no movement monuments or survey benchmarks on the dam crest and/or dam embankment that have been used for monitoring. The City does record staff gauge readings, measures the outlet release flows, and measures toe-drain (seepage) flows. The toe-drain (seepage) flows can only be measured from the small PVC pipe located on the north side of the outlet structure. The 8-inch toe-drain outlet pipe that's on the south side of the outlet structure is submerged under water and the City can't get discharge readings from it. The staff gauge readings, outlet flows, and toe-drain flows will be made available to the Consultant upon request.

11. Question #11 – We noted that there are bonding requirements for a 5% Bid Bond, 100% Performance Bond, and 100% Payment Bond. Bonding for Professional Services is not common, so we wondered if this is correct?

Answer – Yes, this is a mistake in the RFP. These Bonds are not required for this project.

12. Question #12 – Can a 2-week extension be granted for responses to the RFP-4519-18-DH?

Answer – No. Due to the project needing to get started in the month of June, 2018, the City won't be providing a 2-week extension for responses.

13. Question #13 – Does the City of Grand Junction have an engineer that commonly works on dam and levee related projects?

Answer – The engineer that worked on past dam and levee projects no longer works for the City. A City Project Engineer will be assigned to this Hogchute Dam Safety Evaluation Project to represent the City and work closely with the Consultant and the Colorado SEO.

14. Question #14 – In looking at the Leach Creek dam that was constructed recently, it appears that the City of Grand Junction self-performed part or maybe all of the design with help from the National Guard. Is this the case?

Answer – The City engineer that put together the design of the Leach Creek dam no longer works for the City. The National Guard volunteered their time for two summers to help construct the dam.

Clarification #1 – Within Section 4.2 Special Conditions/Provision under the Proposed Schedule section in the RFP, replace item #8 with the following:

8. Winter of 2019 (Jan., Feb., & Mar. timeframe), City advertises a RFP for Consultant selection to design and produce a construction package with plans and specifications that will address the PFM's. Construction plans and specifications will need to be completed by the end of 2019. (*Not Part of this current RFP*)

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado