CITY OF Grand Junction COLORADO

Purchasing Division

ADDENDUM NO. 1

DATE: **December 8, 2020**
FROM: **City of Grand Junction Purchasing Division**
TO: **All Offerors**
RE: **GRJM 21.5-G.95 Culvert Replacement IFB-4853-21-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to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.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. Q. What is City going to allow for traffic control? Who is responsible?

A. The contractor shall provide a cost for the Traffic Control (Complete-in-place, Road Closure) item #24 of the Bid Schedule. The contractor will work with a full road closure. Contractor must also provide VMS two weeks prior to the road closure (south and north of the project site on 21.5 Road).

2. Q. What right of ways are involved in the project?

A. The contractor will need to work with Lori Seeley at Mesa County Road and Bridge to obtain a permit to work in the Right of Way.

3. Q. Are re-seeding and erosion control required?

A. Yes, re-seeding is required. If seed is unavailable, a substitute Erosion Control Blanket (coir blanket, ECTC Classification 3B) shall be provided in place of the seed. Cost of this Blanket will be paid for under the Seeding item #12 of the Bid Schedule.

4. Q. Are weep holes and drainage system required behind the wingwalls?

A. No.

5. Q. Does the City have any interest in trenchless for this project?

A. The City is not interested in a trenchless system for this project.

6. Q. Would RCP be an acceptable alternate?

A. The City is not interested in RCP for this project.

7. Q. Does the City have any designated staging areas for the project?

A. Establishing project staging area(s) shall be the responsibility of the Contractor.

8. Q. Who is responsible for surveying?

A. The contractor shall provide Construction Surveying per item #22 of the Bid Schedule.

9. Q. Who will be providing the QA and QC?

A. The City's consultant will provide the QA materials testing, and the contractor will provide the QC materials testing.

10. Q. What is to be done with the 12" AC pipe on the west side of 21.5 Road?

A. This will be addressed in the next addendum.

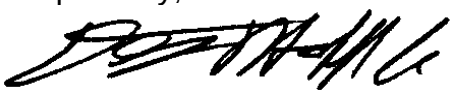
11. Q. Can we have the flow data for this project?

A. Yes, this will be included in this addendum. These flows are from 2017 and taken at the last culvert (72" RCP) before outfall into the Colorado River.

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

Stream Gage Installation with GVDD

Site Visit: 2/5/17

Parties present:	Hod, and Austin from GVDD and Maggie from SGM.

Pritchard (circular)			
Historical Flows	**Month**	**Flow (cfs)**	
	July	15.62 measured in channel	
	Sept.	18.3 measured in channel	
	August	11.4 measured in channel	
	February	1.73 (from culvert) and 1.33 from channel	
Site Data	**Depth Verification at each side**		**Obstructions?**
	LB RB	equal on both sides since circuler	No observable backwater affects to Pritchard.
Data Verification	**Data Verification**		
		Variable	**Eqn**
	Depth (ft)	0.4	Measured on site
	n	0.013	From Manning n table. Smoother culvert conditions
	Radius (ft)	3	Measured on site
	Chord Length (ft)	2.99	Calculated from geometric equations
	Theta	1.04	Calculated from geometric equations
	Area (ft^2)	0.81	Calculated from geometric equations
	Slope (ft/ft)	0.00458	Calculated from previous flow measurements
	Wet Perimete. (ft)	3.13	Calculated from geometric equations
	Hyd. Rad (A/P) (ft)	0.26	Calculated
	Calc. Flow (cfs)	2.55	Q= (1.49/n)*(A)*(Hyd. Rad)^2/3*Slope^0.5
	Measured Flow (cfs)	1.73/1.33	Using area of flow multiplied by mean velocity in center of culvert/flow measured across channel downstream of culvert using Sontek flow tracker equipment
Site Summary	**How many were installed?**		2 staff lengths (6.67 ft total)
	Number of bolts installed?		All bolts with none on bottom in flow
	Concern for future measurements		Lined up with bottom of pipe using bubble level. Readings may be difficult in low flow periods as the depth on the staff gage is buried a bit in mud at low flows like observed in February.

Field Notes
Installed to left side of culvert when looking upstream. 6' of staff gage is installed. Right now flow is low so depth is hard to read because of mud on sides, but there is no mud in actual culvert. Hard to get good read on channel flows at all flow locations due to undercut banks, and thick vegetation causing of eddy interaction downstream of culvert.