

Scott Boettcher

From: David Curtis <dcurtis@westconsultants.com>
Sent: Friday, October 12, 2018 7:37 PM
To: Scott Boettcher
Cc: Jeff Budnick
Subject: Fwd: Riverside Rain Gage Cost Estimate
Attachments: image001.png; ATT00001.htm; ChehalisFA_RFA8_20181005.pdf; ATT00002.htm; ChehalisFA_RFA8_20181005.xlsx; ATT00003.htm

Here's the quote for Riverside. My bad. It got buried in my inbox and I'm late forwarding it.

Sent from my iPad

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Begin forwarded message:

From: Jeff Budnick <jbudnick@rivermeasurement.com>
Date: October 5, 2018 at 1:21:52 PM EDT
To: David Curtis <dcurtis@westconsultants.com>
Subject: Riverside Rain Gage Cost Estimate

Dave,

See attached proposal to relocated RFA8 rain gage. Cost is \$4,800.

Do you think this might affect webcams? Ie, would they cut the 3rd one to pay for the relocation? I visited most of the potential webcam locations yesterday after the RFA8 meeting. I'm preparing a summary for you about that.

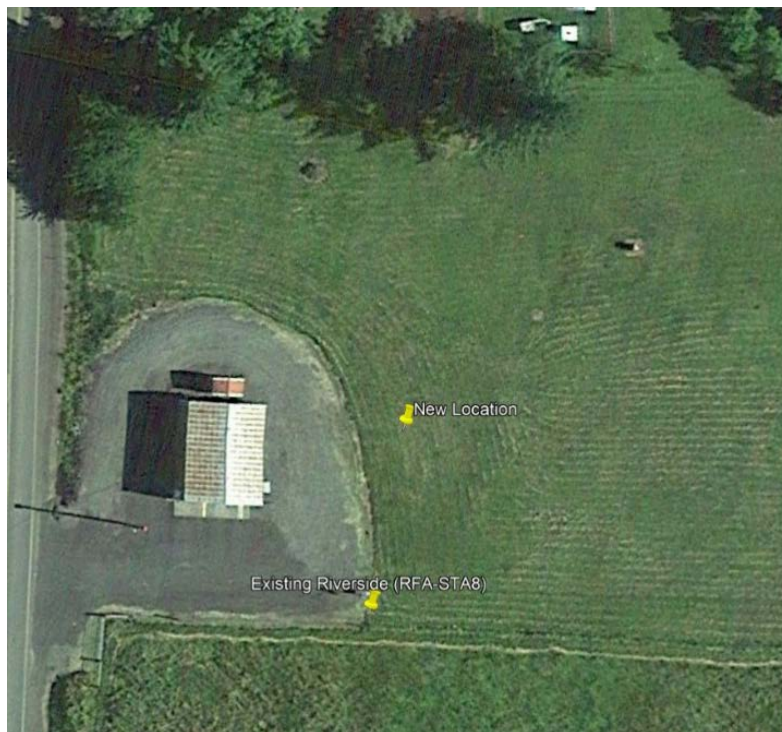
Proposal to Relocate Riverside (RFA8) Rain Gage

October 4, 2018

Background

The Chehalis River Basin Flood Authority (CRBFA) requested a proposal from WEST Consultants Inc. (WEST) to relocate the Riverside (RFA8) rain gage. WEST installed the rain gage in March of 2011 after securing permission from Riverside Fire Authority (RFA). In 2018, it was brought to the attention of the CRBFA and RFA that the rain gage was installed on an easement owned by the Dickerson family. The Dickerson family intends to develop their land and wishes to put a road on the easement. As such, they request the rain gage to be relocated off of the easement.

Representatives from RFA, WEST and the Dickerson family met at the Riverside Rain Gage (RFA-STA8) to discuss the relocation effort on 10/4/2018. Based on discussion with all parties it was decided that the new rain gage location should be approximately 75 ft north of the east/west fence line marking the southern edge of the property. This will put the gage at least 50 ft north of the current easement. The gage will also be approximately 50 ft east of the east wall of the fire building – still on fire department property. See map.





Tasks

WEST will relocate the rain gage to the new location approved by all parties. The existing pipe will be cut off at the top of the concrete slab, and the slab will be left in place. As part of the relocation, WEST needs to cement a new pipe in the ground, disassemble the existing gage components, and then reassemble the gage once the new pipe has cured in the cement.

Total cost for this task is: \$4,795

Schedule

Once notice to proceed is given and a contract amendment is issued, WEST can begin with the relocation. The final schedule will be determined in consultation with the CRBFA, but is anticipated to occur by the end of October 2018.

Chehalis Flood Authority - Relocate RFA8 (Riverside) Rain Gage										
	Hydrologist/Scientist 4 (\$137/hr)		Hydrologist/Scientist 3 (\$111/hr)		Hydrologist/Scientist 1 (\$71/hr)					
Description	Hrs	Total	Hrs	Total	Hrs	Total			Totals	Remarks
Task 1 - Relocate Rain Gage										
1.1 Hours										
Coordination	4.0	\$548.00	1.0	\$111.00	0.0	\$0.00			\$659.00	
Travel to site	4.0	\$548.00	8.0	\$888.00	4.0	\$284.00			\$1,720.00	Vancouver, WA to Project (4hr roundtrip x 2 trips)
Breakdown existing gage and salvage all parts, cut off 3" pipe, cement new pipe at new location	4.0	\$548.00	4.0	\$444.00	0.0	\$0.00			\$992.00	
Reinstall gage components at new pipe location	0.0	\$0.00	5.0	\$555.00	5.0	\$355.00			\$910.00	Let concrete set for at least a few days
Subtotal:	8.0	\$1,096.00	17.0	\$1,887.00	9.0	\$639.00			\$4,281.00	
1.2 Per Diem Rates & Mileage							Qty	Rate		
Lodging (x2 people)							0	\$100.00	\$0.00	
Per Diem (x2 people)							0	\$51.00	\$0.00	
Mileage							410	\$0.545	\$223.45	205 miles per trip x 2 trips
Subtotal:									\$223.45	
1.3 Materials							Qty	Cost		
10' x 3" galvanized pipe							1.0	\$115.00	\$115.00	
Miscellaneous fittings/fasteners, concrete, etc							1.0	\$175.00	\$175.00	Use as many existing parts as possible.
Subtotal:									\$290.00	
						Task 1 Total			\$4,794.45	