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MEMORANDUM

TO: Pete Holmgren and Alan Larson, Madison Water Utility

FROM: Randy Sanford, Project Manager | Principal

DATE: September 7, 2017

RE: Contract Amendment 2, Upgrade of Unit Well 12; Design and Construction Administration
SEH No. MADWU 130564 14.00

As discussed with you previously, the Water Utility recognizes the importance of the design and construction of Unit Well No. 12 and the vital importance that this new facility has within pressure zones 7 & 8. You have asked our design team to delay the schedule for approximately 12 months from the previous schedule as described within amendment 1. This change in schedule will allow better alignment with the MWU budgeting process and will also provide efficiencies and better opportunities for a competitive bidding atmosphere to control costs.

During the past twelve months of design SEH has completed a 95% complete set of plans and specifications. During this time frame additional design work was required of our team to include a more efficient and optimized building foot print for Unit Well 12. This extra work is included within this amendment and is described below:

Task 1 Additional Preliminary Design and Concept Development Services- The original design of Unit Well 12 required the addition of an existing building at Unit Well 12 which was bid on July 2015 (See Unit Well 12_July 2015.pdf). This project was over budget and the Utility decided to reject all bids and enter into Amendment #1 to design a new building with a similar footprint, with the exception that all of the buildings foundations and walls would be new. The amendment #1 included scope for three alternatives based on the existing foot print of the original design (See Unit Well 12_Amendment #1 Alternatives_March_2016.pdf). Subsequently as the Utility and design team finished the three alternatives new questions arose on the size of the new facility (46'x36'). As discussed with the Utility, our team then prepared additional alternatives which required multiple iterations of new and combinations of previous design concepts and required layout changes to process piping, architecture, civil, mechanical, plumbing and electrical drawings. The evaluation of all alternatives indicated that the smaller building footprint (43' x35') with optimized process piping was chosen to move forward into final design (See Unit Well 12_95% Plans Nov_2016.pdf). The extra costs for these new and multiple combinations of concepts have been completed and are considered extra work but found to be more optimal to MWU operations.

Subtotal \$16,300

Task 2 Additional Final Design Services – Due to the 12 month delay as noted above the Utility asked our design team to shelve the 95% plans and re-start the project in October 2017. This work has not been executed to date. The entire design team will have additional startup costs for re-starting the project including, attending one project –restart kick off meeting, lessons learned meeting with MWU, revise plan sheets, revise specifications, and revise cost estimates. This additional work will be completed within the new schedule found below.

Subtotal \$22,000

Engineers | Architects | Planners | Scientists

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Task 3 Bidding Services – This task has not been executed to date based on the original contract dates. Do to the 12 month delay this task will incur extra costs based on new labor rates through our updated schedule (2 years at 5% inflation and overhead)

Subtotal \$1,147.18

Task 4 Construction Administration/Inspection and start up services - This task has not been executed to date based on the original contract dates. Do to the 12 month delay this task will incur extra costs based on new labor rates through updated schedule (2 years at 5% inflation and overhead)

Subtotal \$8,972.84

Total Amendment #2 \$48,420.02

Schedule Modification

2017

10/2	Kick off meeting to re-review 95% plans all disciplines and MWU
10/6	MWU and Design team minutes and action items to be addressed
10/2-10/16	Design team working towards 98% complete plans and specs and final opinion of costs
10/16-10/20	MWU Review of 98% plans and specs
10/28	WDNR Plans and Specification Construction Summary Submittal
10/23-11/3	Final Plans, Specs and Estimates 100% complete to MWU for upload
11/6	Add For Bid Starts
11/6-12/8	Bidding Services, Addendums, Contractor Questions
11/8	UDC Meeting
11/20	Plan Commission
12/15	Bid Opening

2018

1/30	Water Utility Board Approval
2/28	Construction Contracts Signed
2/28	Pre-Construction Meeting
3/28	Construction notice to proceed
4/30	Construction Administration Begins

2019

7/30	Construction Administration Ends
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The term and effective date of the contract is currently November, 2015 through May 2017. We are requesting that the revised end date be amended through July 30, 2019 and the project schedule be amended as described below for a total amendment#2 costs of \$45,420.02.

If you have any questions or comments regarding the above modified scope of services please contact me at rsanford@sehinc.com or 608.518.3679.

Attachments