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January 6, 2016

Charlie Martin, PE, Director
LFUCG Division of Water Quality
125 Lisle Industrial Avenue
Lexington, KY 40511

Re: Coldstream Park Stream Corridor Restoration and Preservation
Contract Modification

Dear Mr. Martin,

In February 2012, CDP was contracted to design the Coldstream Park Stream Corridor Restoration and Preservation Consent Decree Supplemental Environmental Project under a \$250,000 contract. The first required submittal of the 75% design was provided to the EPA on December 21, 2012. In September of 2013, without issuing an official response to the plan, the EPA requested LFUCG consider design changes necessary to address concerns that had been raised directly to the EPA by concerned citizens, while still maintaining the environmental goals of the project as defined in the Consent Decree. The tasks required to meet EPA's request were significant, and included a much expanded public involvement effort, as well as evaluation of alternative approaches to reduce impacts to certain existing riparian areas, preservation of two 300-year old bur oak trees, and removal of clay compaction over concerns raised about alteration of the karst system's hydrologic response. Ultimately, it was agreed to present a new design concept to the EPA that represented a redesign of about 80% of the project components. EPA provided acceptance of the new design concept via letter on November 25, 2015. CDP is prepared to successfully complete this project, including the remaining scope of services tasks listed below, within the EPA's revised deadline (12/12/18 for Project Final Report).

With regards to redesign, this letter serves as a contract modification request to clarify the scope additions and to cover the fees associated with the redesign services and extended project duration. CDP has tabulated a cost of \$90,000 for the redesign services (including subconsultant fees), with an outline for those services listed below. It should be noted that the \$90,000 addresses services specifically covered under the project scope additions. Other costs have been absorbed by CDP in support of the project. The following tasks have been added to the scope as a contract modification:

1. Public involvement outreach, meetings, and material preparation.
2. Hold a Vegetation Design Charrette with interested community members, horticultural experts, and stakeholders.
3. Obtain additional survey of sensitive native plant areas.
4. Hold additional consultations on existing karst features and their impact on the project and the site hydrology.
5. Have a certified arborist perform an independent tree condition assessment of the two historic bur oak trees within the project site.
6. Redesign the channel and valley cross-section to exclude the clay liner.
7. Perform new 2-dimensional shear stress modeling iteratively, to determine an acceptable redesigned plan and profile. Prepare a revised Hydrology and Hydraulics Report based upon the selected alignment.
8. Redesign the project to remove approximately 50% of the stream restoration design elements and replace with a stream bank stabilization design. Redesign the plan and profile for the other

- 50% of the project that remains a full valley stream restoration to account for necessary changes in vertical connections and transitions both upstream and downstream.
9. Remove or redesign adjacent proposed wetland features that were impacting sensitive native vegetation areas.
 10. Prepare new designs plans, specifications, quantity takeoffs and construction cost estimate based upon the redesign.
 11. Resubmit for various required permits to account for the design change.

Per LFUCG's request, the CLOMR/LOMR will be performed in conjunction with another project nearby and is therefore removed from this contract. The original contract amount, requested changes, and revised proposed contract amount are shown below.

Original Contract:	\$250,000.00
Amount Billed to Date:	\$197,230.19
<u>Amount remaining on original contract</u>	\$ 52,769.81
○ Finalize Construction Documents	
○ Finalize Permit Submittals	
○ Bid Assistance	
○ Limited Construction Assistance/As-Build Documents	

Scope Additions:

+ Revise Hydraulics and 2-Dimensional Model	\$ 13,071.00
+ Final Hydraulics and Hydrology Report	\$ 7,500.00
+ Revise Design	\$ 62,198.81
+ Public Involvement/Consultations	\$ 17,000.00

Reduction In Scope:

CLOMR/LOMR **(\$ 9,769.81)**

New Contract Amount: **\$340,000.00**

Change Order Request: **\$ 90,000.00**

Feel free to call me if you have any questions, or require additional data. Thank you for your attention to this matter.

Sincerely,



B. Scott Southall, PLA, AICP, LEED AP BD+C, ASLA
Vice-President