

CHANGE ORDER NO. # 3

Owner: Lake County Department of Public Works

Date: April 13, 2012

Project Engineering Services for Vernon Hills NCT WWTP Improvements . (PO# 107202)

Owner's Contract No. PW 2009.080

Consultant: Rezek Henry Meisenheimer & Gende (RHM&G)

Date of Contract Start November 19, 2010 \$ 158,278.00

You are directed to make the following changes in the Contract Documents:

Provide additional engineering services required for filter building concrete repair and steel frame replacement in vicinity of plant water pumps and adjacent grating as described in RHM&G proposal letter dated April 11, 2012

Reason for Change Order:

It was discovered that the steel beams have severe corrosion and the concrete has spalled. A plan for replacement of the steel beams and concrete restoration is needed.

Days)	CONTRACT PRICE		CONTRACT TIMES (Calendar
			<u>To substantial completion</u>
Original:	\$ <u>158,278.00</u>	Original:	<u>Nov 2009</u>
Previous COs (ADD/DEDUCT):	\$ <u>27,240.00</u>	Previous COs (ADD/DEDUCT):	_____
This C.O. (ADD/DEDUCT):	\$ <u>4,650.00</u>	This CO (ADD/DEDUCT):	_____
Contract Price with all approved Change Orders:	\$ <u>190,168.00</u>	REVISED:	_____
		Original Completion Date:	_____
		Revised Completion Date:	<u>Dec 2011</u>

THIS DOCUMENT SHALL BECOME AN AMENDMENT TO THE CONTRACT AND ALL STIPULATIONS AND COVENANTS OF THE CONTRACT SHALL APPLY HERETO.

APPROVED:

By: _____
Owner (Authorized Signature)

_____ Date

ACCEPTED: 
By: _____
Consultant (Authorized Signature)

_____ Date 4/13/12

NOTE: OWNER is required to complete a Change Order Authorization form if change decrease or increase is for \$10,000 or more, or time of completion is 30 days or more.

**Rezek, Henry, Meisenheimer and Gende, Inc.****CONSULTING ENGINEERS**

April 11, 2012

Mr. Chuck DeGrave, P.E.
Lake County Public Works Department
650 Winchester Road
Libertyville, IL 60048



Re: NCT - Existing Sand Filters 1 & 2
Concrete Repair and Plant Water Pump Support Frame
RHMG Project No. 21102030

Dear Mr. DeGrave:

RHMG is pleased to submit our proposal for preparing plans and specifications related to the requested concrete repair work and steel support frame replacement at existing Sand Filters 1 & 2. This repair work is necessary to address the broken and loose concrete along the top of effluent channel walls and to replace steel support frame for the plant water pumps which exhibits signs of significant corrosion.

Based on our review of the existing conditions and available record drawings, it is our recommendation that the following repairs be made. Remove the top 1'-9" of the effluent channel walls (the 5" thick portion of the walls), redesign the reinforcing steel and concrete for a new wall to be constructed at a thickness of 9-inches, new steel embedment for the grating support, installation of new handrail mounts, removal of the plant water pumps for the demolition of the support frame, and the redesign of the steel support frame for the plant water pumps. The configuration of the new support frame will be similar to the existing so that the on-site grating can be reused. The concrete repair work for the effluent channels and replacement of the steel support frame for the plant water pumps is interrelated and the work needs to be sequenced with the plant's sludge dewatering operations. A shutdown of the plant water system will be necessary to perform the repair work.

Plans and specifications will be prepared in sufficient detail to obtain pricing from Concord Construction Services and to perform requested repair work.

The scope of work for preparing the plans and specifications will include the following:

- Demolition plan for the removal of the top 1'-9" portion of the concrete channel wall (5" thick portion of the wall). Please see attached figure.
- Demolition plan for the removal of plant water pumps and steel frame.
- Design of new steel reinforcing for the new 9-inch wall.



Mr. Chuck DeGrave, P.E.
Lake County Public Works Department
Re: NCT - Existing Sand Filters 1 & 2
Concrete Repair and Plant Water Pump Support Frame
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April 11, 2012
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- New steel embedment for channel grating installation.
- New handrail support brackets.
- Design of a new steel support frame and mounting plates for the reinstallation of the existing service water pumps and the new service water pump.
- Specifications for steel members and coating for the new support frame.

RHMG proposes to perform these additional services on an hourly rate basis for a fee not to exceed \$4,650.00. Please see attached Exhibit A for the basis of this fee limit. Upon receipt of the County's approval, we will prepare the plans and specifications for the repair work outlined above.

RHMG appreciates the opportunity to work with the Lake County on this project. If you should have any questions or require additional information, please contact me at 847/362-5959.

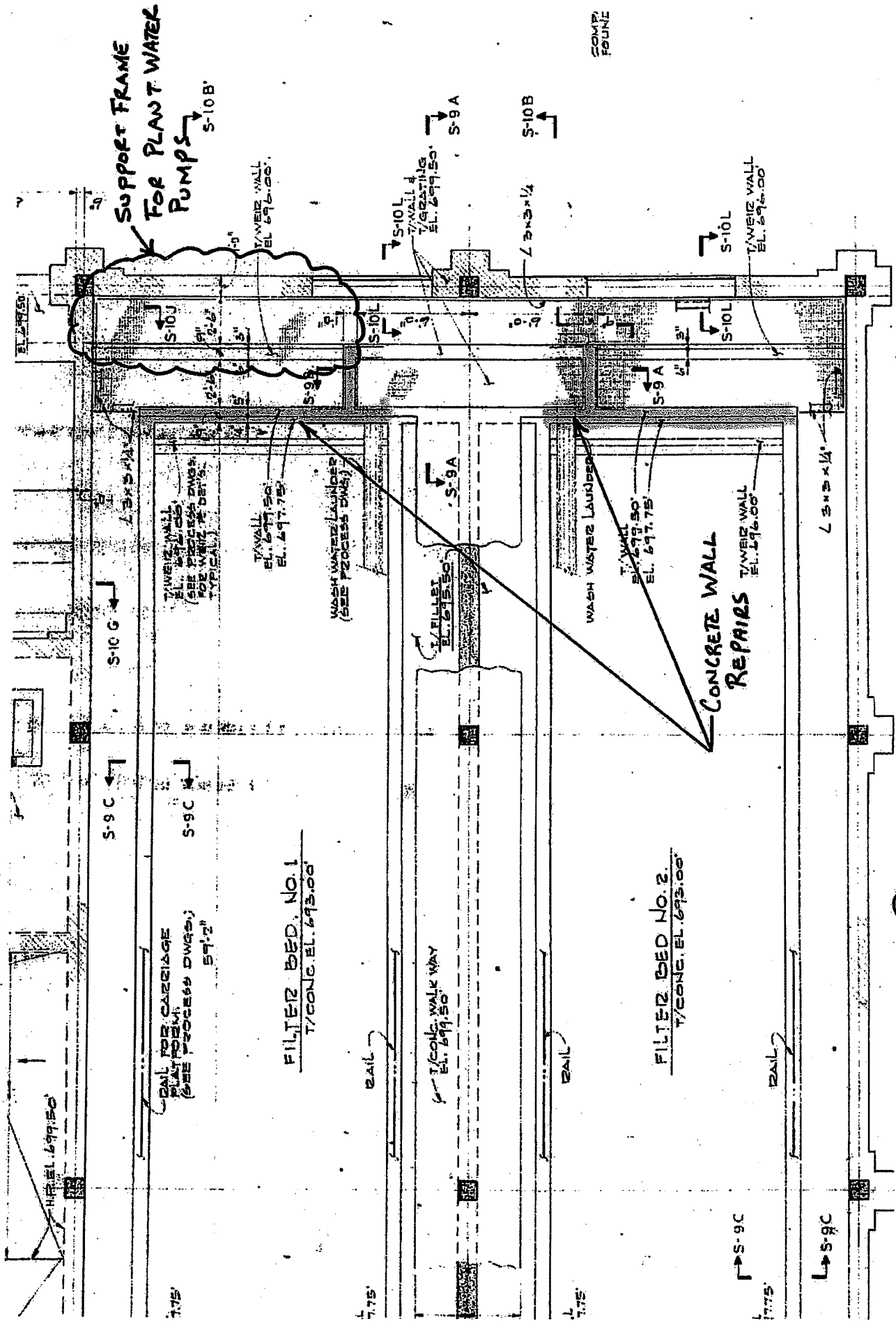
Sincerely yours,

REZEK, HENRY, MEISENHEIMER, AND GENDE, INC.

William R. Rickert, P.E., BCEE, CFM
President

WRR/SEZ/amd

Enclosures



PARTIAL PLAN - EX. SAND FILTERS 1 & 2
N.T.S.

