

CLERK'S CONTRACT and AGREEMENT COVER PAGE

Legistar File ID#:

Innoprise Contract #: C09-0004

Year: 2009 +

Amount:

Department: Finance

Contract Type: Professional Engineering

Contractors Name: Greeley and Hansen

Contract Description: General Contract

Certifications were re-signed 2012

6/14/12 - Replacement Costs - Transmission Main \$4800

C16-0045 (2016-0173) Main Pump Station Evaluation \$49,290

MAYOR

Daniel J. McLaughlin

VILLAGE CLERK

John C. Mehalek

14700 S. Ravinia Avenue
Orland Park, Illinois 60462
(708) 403-6100
www.orlandpark.org



VILLAGE HALL

TRUSTEES

Kathleen M. Fenton

James V. Dodge

Patricia A. Gira

Carole Griffin Ruzich

Daniel T. Calandriello

Michael F. Carroll

April 19, 2016

Ms. Nicloe B. Spieles, P.E., ENV SP
Greeley and Hansen
100 S. Wacker Drive, Suite 1400
Chicago, Illinois 60606

RE: Signed Proposal dated March 28, 2016 – Main Pump Station Evaluation

Dear Ms. Spieles:

Enclosed is a copy of the Signed Proposal dated March 28, 2016 – Main Pump Station Evaluation. All terms of the Professional Engineering Services General Contract dated March 20, 2009, updated in 2012 shall apply.

If you have any questions, please call me at 708-403-6173.

Sincerely,

Contract Administrator

cc: Doug Medland
Ryan Christopher, Greeley and Hansen



GREELEY AND HANSEN

100 S. Wacker Drive, Suite 1400
Chicago, Illinois 60606
p 312 558 9000
f 312 558 1006
www.greeley-hansen.com

March 28, 2016

Mr. Doug Medland
Public Works Department
Village of Orland Park
15655 Ravinia Avenue
Orland Park, IL 60462

Subject: Submittal of Main Pumping Station Evaluation Report Proposal

Dear Mr. Medland:

Greeley and Hansen is pleased to provide the enclosed fee proposal for the Main Pumping Station Evaluation Report. We are excited for the opportunity to continue to work with you and the Village of Orland Park staff on this project. Should you have questions regarding this submittal, or the project in general, please contact me at (312) 578-2467 or Ryan Christopher at (312) 578-2361.

Thank you,

Greeley and Hansen LLC

Nicole B. Spieles

Nicole B. Spieles, P.E., ENV SP
Managing Director Midwest Operating Group

Approved and Accepted by:
The Village of Orland Park

Paul G. Grimes
Paul G. Grimes, Village Manager

4/12/16
Date



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Thank you,

Greeley and Hansen LLC

Nicole B. Spieles, P.E., ENV SP
Managing Director Midwest Operating Group

Village of Orland Park, Illinois

**Main Pumping Station
Evaluation Report**

**Scope of Engineering
Services**



Village of Orland Park Scope of Engineering Services

Project Background

The Village of Orland Park Main Pumping Station provides potable water for village's water distribution system. The Main Pumping Station was originally constructed in 1985 and the majority of the equipment is nearing 30 years old.

Over the past few years, the electrical system has become harder to maintain and obtain spare parts while the main pumps have been rebuilt once already. In order to plan for future improvements, this report will evaluate replacement alternatives for electrical equipment and the main pumps in order to maximize current equipment, improve system efficiency, and mitigate risk of difficulties with aged equipment.

Project Tasks

The Pump Station Evaluation would include the following tasks:

Task 1- Electrical System Evaluation

1. An evaluation of replacing the Switchboard and MCC, including full replacement versus interior rehabilitation with new components while keeping the station operational. The following will be included in the evaluation:
 - a) Comparison of equipment safety features which would bring the most benefit to Village Staff
 - b) Assessment of implementing a power monitoring system and tying to the existing SCADA system
2. An evaluation of the necessity and benefits of adding the following components:
 - a) A second utility transformer for added system redundancy
 - b) Auxiliary contacts in the utility automatic transfer switch to monitor which utility feed is being utilized and which utility feeds are available
3. Evaluation and recommendation of historization software for the pump station SCADA system.

Task 2 - Pumping System Evaluation

1. A flow analysis of the pump station and optimization recommendations to pumping operations
2. Based on the results of the flow and pump analysis, evaluate the benefits of installing VFDs on the pumps
3. Evaluate pump replacement versus rebuilding alternatives, including impacts to pump efficiency and life-cycle costs

Task 3 – Develop Summary Documentation

1. Provide a summary of the evaluations performed. Provide opinion of probable construction cost evaluation comparison tables for the various alternatives and recommendations for improvements to the Main Pumping Station.

Task 4 - Progress Meetings

1. Meet with Village Staff twice during the project to review the evaluation.
 - a) Meeting No. 1 will review the results of the evaluation and receive Village input and feedback prior to finalizing the report.
 - b) Meeting No. 2 will review the report and discuss recommendations to upgrade the pumping station.

**Fee Summary
Greeley and Hansen
December 2015**

Hourly Rate	\$ 164	\$ 114	\$ 133	\$ 227	\$ 212	\$ 104
Subtotal	\$ 4,264	\$ 13,908	\$ 14,364	\$ 9,080	\$ 7,208	\$ 416
				Other Direct Costs (Travel)		50
				Total		\$ 49,290