

**Memorandum
Public Works Department**



To: City Manager
Subject: Water Treatment Plant Filter Building Replacement - Design Amendment
Date: June 29, 2016
Number: 2016-133

Attached is a Amendment No. 1 to the Agreement between the City and CDM Smith, Inc.; Chicago, Illinois for additional design services on the replacement for the Water Treatment Plant Filter Building.

The scope of work to be covered by the addendum includes the following items:

1. Design and specify the potential demolition of the existing filter building and improve vehicle access to the new facility.
2. Design and specify Ultraviolet (UV) disinfection reactors as an alternate bid item.
3. Perform visual in-tank structural inspection and design and specify replacement of precast concrete roof planks on the existing Backwash Recovery Basin.
4. Examine and analyze on-site soils to detect the presence or absence of lead near the existing elevated water tank.
5. Analyze test pit excavations to mitigate any risk due to buried utilities.
6. Perform easement and topographical survey for new electrical serve to the Utility and Maintenance buildings.
7. Design and specify a non-water dry agent fire suppression system for the new Filtration Facility.

CDM Smith proposes to provide these additional design services at their standard hourly rates for an additional estimated cost of \$117,000.

Recommendation

The Public Works Department recommends that the City Council approve the Engineering Services Amendment from CDM Smith, Inc.; Chicago, Illinois in the amount of \$117,000 and authorize the City Manager to execute the contract amendment documents.

Vendor: CDM Smith, Inc.; Chicago, Illinois
Proposal Amount: \$117,000
Fund: 501 Water Operation & Maintenance
Department: 618 Utilities Service
Cost Center: 352 Water Treatment Plant
Object Code: 56501 Engineering Services
Project 2760 Water Treatment Plant Filter Building Replacement

Requisition #: R006163

Submitted by: Randall D. Tweet, Public Works Director
Michael J. Kane, P.E., City Engineer

Approved by: Thomas Thomas, City Manager

**AMENDMENT NO: 1
TO AGREEMENT
BETWEEN
OWNER AND ENGINEER**

This Amendment No: 1 is made and entered into this 7th day of June, 2016 to the Agreement between CDM Smith Inc. (CDM Smith) ("ENGINEER") and City of Rock Island ("OWNER") dated March 25, 2015, ("the Agreement").

WHEREAS, ENGINEER and OWNER entered into the Agreement for the Design of New Filtration Facility at the Rock Island Water Treatment Plant, and

WHEREAS, the parties desire to amend the Agreement so as to amend the scope of work, time periods of performance and payment, and/or responsibilities of OWNER; and

WHEREAS, the Agreement provides that any amendments shall be valid only when expressed in writing and signed by the parties.

NOW THEREFORE, in consideration of the mutual understandings and Agreements contained herein, the parties agree to amend the Agreement as follows:

1. The Basic Services of ENGINEER as described in the Agreement are amended and supplemented as follows:
 - a. Design and specify the demolition of Existing Filter Building and design improved vehicle access to new Filtration Facility. The building demolition shall be specified such that structures are removed to 3 feet below proposed finished grade, and backfilled as needed.
 - b. Design and specify ultraviolet (UV) disinfection reactors complete with instrumentation and electrical provisions. UV reactors shall be provided on each of the eight new individual filter effluent pipelines. Include UV in the bidding documents as an alternate additive bid item.
 - c. Perform visual in-tank structural inspection of existing Backwash Recovery Basin and provide report to document findings.
 - d. Design and specify replacement of precast concrete roof planks on existing Backwash Recovery Basin. Include this work in the bidding documents as an alternate additive bid item.
 - e. Examine and analyze soils on site to detect presence or absence of lead near existing Elevated Water Tank. Perform explorations in the area indicated on Figure 1. Document findings in memorandum. Specify removal of lead-containing soils, if necessary, as part of the bidding documents.
 - f. To mitigate construction phase risk related to buried utilities, retain outside firm to conduct test pit excavation work in the areas as directed by ENGINEER, up to four locations. Incorporate findings into design documents.
 - g. Perform easement and topographical survey for new electrical service to Utility and Maintenance Division (UMD) buildings in the area indicated on Figure 2. Add this new survey coverage to base plans in bidding documents as well. Not included in this is the electrical design to serve the UMD buildings, as that design and construction work is to be managed by the City and the electric utility company, Mid American.
 - h. Design a non-water dry agent fire suppression system for new Filtration Facility's main electrical / motor control center room.

2. The responsibilities of OWNER as described in the Agreement are amended and supplemented as follows:

Furnish to ENGINEER all available information relative to Existing Filter Building lead paint, asbestos, mercury or PCBs that may be encountered when Contractor demolishes the building.

Continue to regularly collect and furnish to the ENGINEER all available UV transmissivity data for ENGINEER's use in the specifications.

Work with Mid American to design and construct new power feed to the UMD buildings. Arrange to have new transformer installed on WTP site on or before February 28, 2017.

3. The time periods for the performance of ENGINEER's services as set forth in the Agreement are amended and supplemented as follows:

As agreed in the October 14, 2015 project kickoff meeting, the schedule shall be revised to feature the following target dates:

Kickoff Meeting	10/14/15		
10% Concept Memo Submittal	12/14/15;	10% Concept Memo / City Approval	12/28/15
30% Design Submittal	2/26/16;	30% Design / City Approval	3/11/16
60% Design Submittal	5/11/16;	60% Design / City Approval	5/25/16
90% Design Submittal	7/25/16;	90% Design / City Approval	8/8/16
100% Design Submittal	9/8/16;		
Three months for bidding			

4. The payment for services rendered by ENGINEER shall be as set forth below:

The prior lump sum fee of \$1,749,513 shall be increased by \$117,000 for a revised lump sum fee of \$1,866,513.

5. Except as herein modified, all terms and conditions of the Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this amendment on the date indicated above for the purpose herein expressed.

ENGINEER

Amrou Atassi, P.E., BCEE

Associate

CDM Smith / 125 South Wacker Drive, Suite 600 / Chicago, Illinois 60606

DATE:

June 7, 2016

OWNER

DATE:

4/01

Water Treatment Plant - Filtration Facility Design and Bidding Services

Design Amendment 1 - Figures

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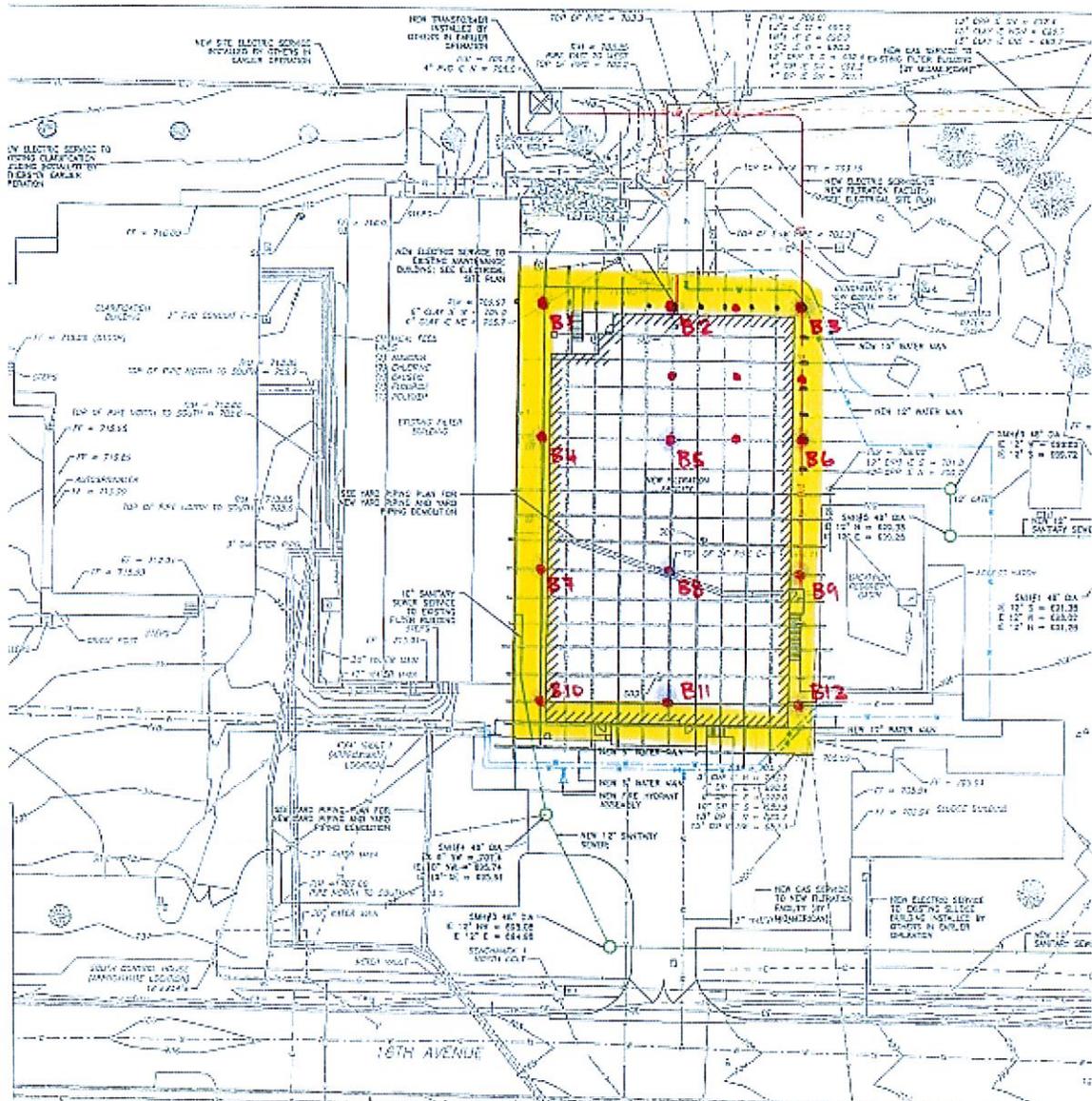


Figure 1
Exploration Locations to Assess Presence or Absence of Lead in Soils

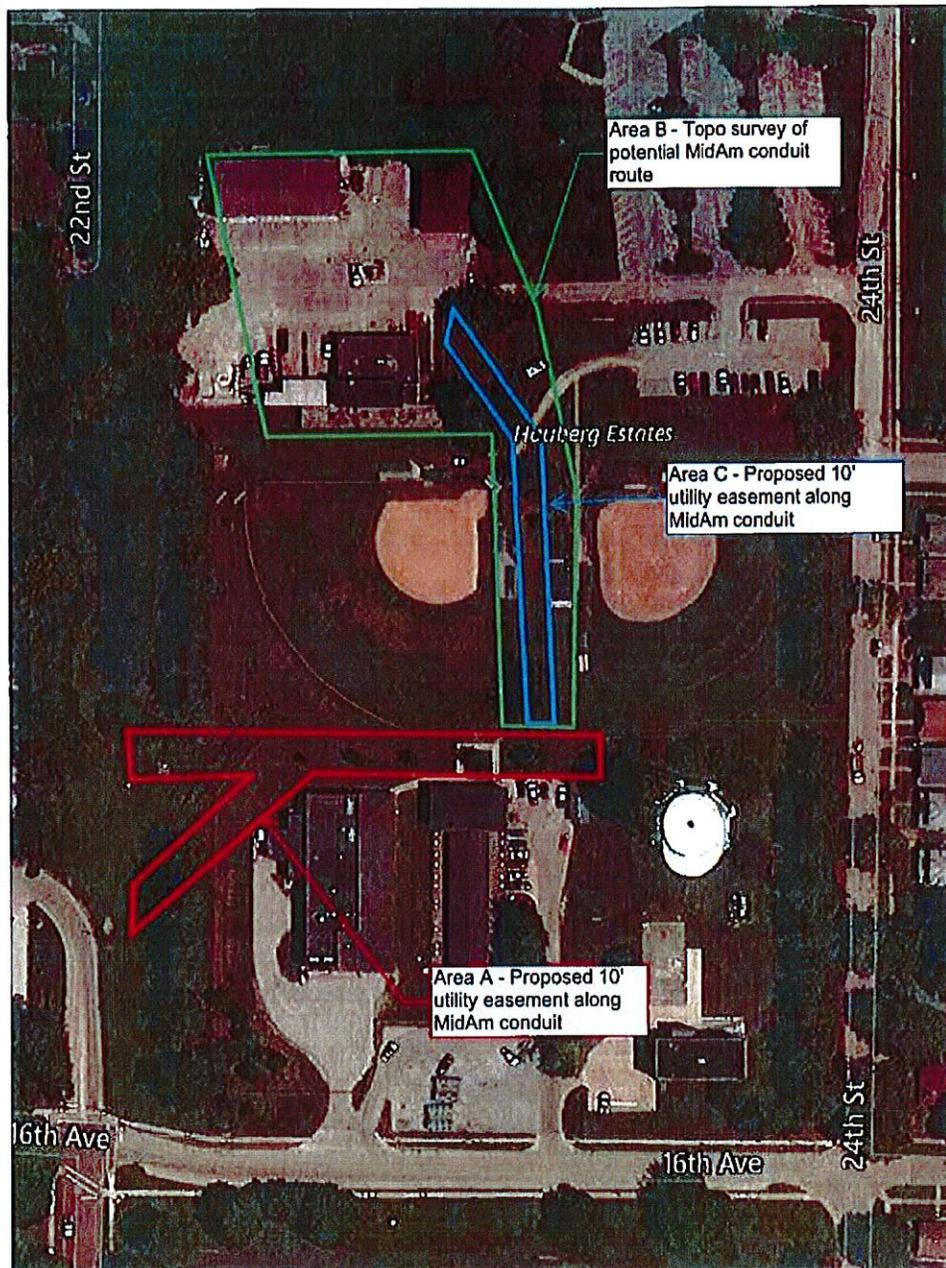


Figure 2
Potential MidAmerican Energy Company Easement and Supplemental Survey Areas