



# City of Grand Island

Tuesday, June 09, 2009

Council Session

## Item G11

**#2009-134 - Approving Amendment No. 1 to the Agreement with  
CH2M Hill for Lift Station 19 Improvements**

Staff Contact: Steven P. Riehle, Public Works Director

# Council Agenda Memo

**From:** Steven P. Riehle, Public Works Director

**Meeting:** June 9, 2009

**Subject:** Approving Amendment Number. 1 to the Agreement with CH2M Hill for Lift Station 19 Improvements.

**Item #'s:** G-11

**Presenter(s):** Steven P. Riehle, P.E., Director of Public Works

## Background

CH2M HILL was selected by the City of Grand Island (CITY) to provide engineering design, services during construction, and startup services for Lift Station 19 and Forcemain Improvements, approved by city council on February 26, 2006.

Continued development in northwest Grand Island, proposed widening of Capital Avenue, deteriorating condition of the existing Lift Station 19 and force main, and current capacity concerns have prompted the need to reevaluate long term capacity and reliability requirements of Lift Station 19. Lift Station 19, is the largest lift station within the existing sanitary sewer collection system and has experienced greater than capacity levels during previous peak flow events. The most recent Sanitary Sewer Comprehensive Plan Update recommended construction of a second lift station and force main to provide capacity to meet existing peak flow requirements and estimated future flows resulting from development.

In April 2005, the CITY contracted with CH2M HILL to develop revised recommendations and an implementation plan for Lift Station 19 improvements. This included an update to projected development and sanitary sewer flow estimates within the Lift Station 19 service area. As recommended in the Implementation Plan, the CITY intends to construct a new lift station and force main improvements to handle all flows originating within the Lift Station 19 service area. The existing lift station will be taken out of service and demolished after all proposed improvements are constructed and operational. The existing force main will be abandoned in-place. Proposed improvements will be constructed in the following three phases:

1. Phase 1 - New 24-inch force main from Diers Avenue to east of Webb Road: This phase will coincide with the Capital Avenue Widening Project. This section of force main will be interconnected to the existing 12-inch force east of Webb Road.

2. Phase 2 - New 24-inch force main from east of Webb Road to west of North Oak Street.
3. Phase 3 - New Lift Station 21 and related yard piping to replace Lift Station #19.

### **Discussion**

The purpose of Amendment Number 1 is to formally request scope modifications and an associated fee adjustment to complete design changes requested by the City following completion of the 90 percent design. The design modifications represent a change in direction from the original basis of design established during the preliminary design of the project. It is anticipated that incorporation of these design modifications may result in \$150,000 to \$200,000 in construction cost savings.

Amendment Number 1 includes a description of the City-requested design changes and the proposed compensation to incorporate the design modifications into the bidding documents. It is assumed that the Final Design will be completed no later than September 30, 2009, without any additional City review or comments after the September 30 submittal. As appropriate, interim submittals will be provided to the City for review during the design process. It is assumed that a notice to proceed for these design modifications will be provided no later than June 15, 2009.

### **Alternatives**

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Approve a resolution authorizing the Mayor to sign an amendment to the agreement with CH2M Hill for the design modifications for Lift Station 19.
2. Refer the issue to a Committee.
3. Postpone the issue to a future date.
4. Take no action on the issue.

### **Recommendation**

Public Works Administration recommends that the Council approve a resolution authorizing the Mayor to sign amendment number 1 to the agreement with CH2M Hill for Lift Station 19 Improvements.

### **Sample Motion**

Move to approve the amendment to the agreement with CH2M Hill.



CH2M HILL  
222 South 15<sup>th</sup> Street  
Suite 1402-S  
Omaha, NE 68102  
Tel 402.342.9765 x37111  
Fax 402.342.1313

May 28, 2009

Steve Riehle  
Public Works Director  
City of Grand Island  
100 East First Street  
Grand Island, NE 68802

Subject: City of Grand Island, Lift Station 19 Improvements


Dear Steve:


Attached is AMENDMENT NO. 1 to the City of Grand Island (CITY), Lift Station 19 Improvements Agreement dated 1 March 2006. The purpose of AMENDMENT NO. 1 is to formally request scope modifications and an associated fee adjustment to complete design changes requested by the CITY following completion of the 90 percent design. The design modifications represent a change in direction from the original basis of design established during the preliminary design of the project. It is anticipated that incorporation of these design modifications may result in \$150,000 to \$200,000 in construction cost savings.

The attached AMENDMENT NO. 1 includes a description of the City-requested design changes and the proposed compensation to incorporate the design modifications into the bidding documents. It is assumed that the Final Design will be completed no later than September 30, 2009, without any additional City review or comments after the September 30 submittal. As appropriate, interim submittals will be provided to the City for review during the design process. It is assumed that a notice to proceed for these design modifications will be provided no later than June 15, 2009.

Your consideration of AMENDMENT NO. 1 is greatly appreciated. If you have any questions or require additional information, please do not hesitate to contact me by phone at 402.342.9765 x37111 or by email at dsimon@ch2m.com.

Sincerely,  
CH2M HILL, INC.

  
Gerald W. Simpson  
Designated Manager

  
Douglas E. Simon, P.E.  
Senior Project Manager

Attachments: AMENDMENT NO. 1

c: File

**AMENDMENT NO. 1 to STANDARD AGREEMENT FOR  
PROFESSIONAL SERVICES DATED 1 MARCH 2006**

CH2M HILL Office Address: 9193 S. Jamaica St., Englewood, CO 80112

Project Name: Lift Station 19 Improvements

CH2M HILL Project: 342559  
No.: \_\_\_\_\_

Client: City of Grand Island, NE

Address: 100 East First Street, Box 1968, Grand Island, NE 68802-1968

CLIENT requests and authorizes CH2M HILL to perform the following services:

**Scope:**

AMENDMENT NO. 1 hereby modifies the original Standard Agreement for Professional Services dated 1 March 2006. AMENDMENT NO. 1 represents scope and budget modifications that are the result of City of Grand Island, Nebraska (CITY) requests to revise the design after it was complete. A summary of the requested budget modifications is provided as Attachment 1 to this AMENDMENT NO. 1 for the additional design work requested by the CITY.

The drawings, specifications, Engineer's Opinion of Probable Construction Cost, and Design Report will be modified to address the following design changes requested by the CITY:

- A. Move the make-up air unit (MAU) from the mechanical room on the ground floor to the roof. Provide a MAU operated by natural gas instead of electricity.
- B. Eliminate the manlift (elevator).
- C. Change the monorail hoist to a bridge crane.
- D. Move the air compressor from the lower level pump room to the ground floor mechanical room.
- E. Extend the pump discharge header for future connection of Pumps 3 and 4.
- F. Add to the drawings the CITY-requested addition of duplicate information on multiple drawings within the construction documents. This duplicate information is not required for constructability and the effort required is above and beyond the standard of practice for construction documents.
- G. Provide additional coordination with the multiple design disciplines required to complete the requested design revisions and provide additional quality control effort as necessary.

Completion and submittal of construction documents after the above revisions are complete shall constitute the final 100% design submittal. A formal review by the CITY of the 100% design drawings produced as a result of AMENDMENT NO. 1 scope of services is not included within AMENDMENT NO. 1.

**Compensation** by CLIENT to CH2M HILL will be on the basis of:

As shown in Exhibit 1 per conditions of the original contract dated 1 March 2006. The budget shall be increased by an amount of \$40,372 to a new total contract amount of \$416,390.

**Other Terms:**

The final construction documents will be delivered to the City no later than September 30, 2009, contingent upon receipt of City decisions, when required, in a timely manner and a notice to proceed by June 15, 2009.

Services covered by this AMENDMENT NO. 1 will be performed in accordance with the Provisions of the original Standard Agreement for Professional Services dated 1 March 2006 and any attachments or schedules. This AMENDMENT NO. 1 supplements the original agreement and understandings and may only be changed by written amendment executed by both parties.

CLIENT:

Signature \_\_\_\_\_

Name (printed) \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

CH2M HILL, INC.:

Signature  \_\_\_\_\_

Name (printed) Gerald W. Simpson

Title Designated Manager

Date 5-28-09



**Attachment 1**  
**AMENDMENT NO. 1**  
**CITY OF GRAND ISLAND, NEBRASKA**  
**LIFT STATION 21 IMPROVEMENTS**  
**Date: May 28, 2009**

<b>TASK/SUBTASK TITLE</b>	<b>Labor &amp; Exp. (\$)</b>
<b><u>Additional details</u></b>	
Architectural	\$2,754
Structural	\$5,252
Mechanical/Electrical/HVAC/I&C	\$3,367
Project Management/Coordination/QAQC	\$997
<b>Subtotal additional detail</b>	<b>\$12,370</b>
<b><u>Post 90-Percent Design Modifications</u></b>	
Move MAU-1 to the Roof	\$12,358
Eliminate the Man Lift	\$2,019
Change Monorail to Bridge Crane	\$8,979
Move Air Compressor to Exist MAU Area	\$1,121
Add Discharge Header for Pumps 3 & 4	\$1,375
Project Management/Coordination/Cost Est.	\$2,150
<b>Subtotal - post 90 percent design changes</b>	<b>\$28,002</b>
<b>PROJECT TOTALS</b>	<b>\$40,372</b>

RESOLUTION 2009-134

WHEREAS, on February 26, 2006, by Resolution 2006-42, the City of Grand Island (CITY) approved the proposal of CH2M HILL (ENGINEER) of Englewood, Colorado, for consulting engineering services for Lift Station Number 19 for actual costs with a maximum dollar amount of \$376,018; and

WHEREAS, the CITY requests to revise the design, as provided in attached Amendment Number 1 to Standard Agreement for Professional Services; and

WHEREAS, CITY and ENGINEER agree that such changes to scope of services and project schedule shall increase the consultant's fees by \$40,372 making the new total agreement not to exceed \$416,390; and

WHEREAS, CITY and ENGINEER estimate that such changes to scope of services and project schedule shall provide saving in the total construction project of \$150,000 to \$200,000.

NOW THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the amendment with the consulting firm, CH2M HILL of Englewood, Colorado, is hereby approved; and

BE IT FURTHER RESOLVED, that the \$40,372.00 increase in fees for professional services for Amendment Number 1 is approved.

BE IT FURTHER RESOLVED, that the Mayor is hereby authorized and directed to execute such amendment to the agreement on behalf of the City of Grand Island.

Adopted by the City Council of the City of Grand Island, Nebraska, June 9, 2009.

\_\_\_\_\_  
Margaret Hornady, Mayor

Attest:

\_\_\_\_\_  
RaNae Edwards, City Clerk

Approved as to Form June 8, 2009	_____ City Attorney
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