



# **City of Grand Island**

**Tuesday, August 23, 2011**

**Council Session**

## **Item I4**

**#2011-226 - Approving Design Detail with HDR for Uranium  
Removal**

**Staff Contact: Tim Luchsinger**

# **Council Agenda Memo**

**From:** Tim Luchsinger, Utilities Director  
Jason Eley, Asst. City Attorney/Purchasing

**Meeting:** August 23, 2011

**Subject:** Approving Design Detail with HDR Engineering, Inc.,  
for Uranium Removal - Task Order No. 2

**Item #'s:** I-4

**Presenter(s):** Tim Luchsinger, Utilities Director

## **Background**

The Utilities Department was authorized by Council on February 22, 2011, to proceed with the procurement and installation of the large-scale pilot uranium removal system at the City's Platte River Well Field. Specifications for the Uranium Removal System - Equipment Procurement were advertised and issued for bid, and a contract for this system was awarded to Water Remediation Technologies (WRT), LLC, of Wheat Ridge, Colorado, by Council on July 26, 2011.

In order to proceed with the installation of this equipment, the City's consultant for this project, HDR Engineering, was directed to provide a proposal for the detailed engineering required to complete the project. This detailed engineering proposal is in accordance with the engineering services agreement entered into with HDR for the original uranium treatment evaluation, which continued with engineering services for the procurement of the uranium removal system. Detailed engineering services include preparation of specifications for bidding of a new building and foundations, underground piping, well modifications, and installation of the uranium removal equipment. It also includes project coordination with WRT, and assisting with review of the project with Nebraska Health and Human Services for their final approval. A copy of Exhibit A - Task Order No. 2 – Uranium Removal Water Treatment Plant is attached.

## **Discussion**

The engineering services agreement with HDR was designed to define a study of uranium treatment or removal options and provide a method for continuing engineering services for the study's unknown or undefined solutions and allow continuity for efficient completion of the project. The proposal received from HDR for detailed engineering

services was estimated at \$111,728. The estimate is arrived at by a breakdown of man-hours required for the task items and will be billed at actual costs not to exceed \$111,728. Department engineering management staff has reviewed this proposal and find it to be in accordance with the expected engineering effort and for engineering services of this type of work.

### **Alternatives**

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

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

### **Recommendation**

City Administration recommends that the Council approve the proposal of HDR Engineering, Inc. of Lincoln, Nebraska for Uranium Removal Water Plant – Task Order No. 2, in the estimated amount not to exceed \$111,728.

### **Sample Motion**

Move to approve the proposal of HDR Engineering, Inc. of Lincoln, Nebraska for Uranium Removal Water Plant – Task Order No. 2.

**EXHIBIT A**  
**URANIUM REMOVAL WATER TREATMENT PLANT**  
**TASK ORDER NO. 2**

This Task Order pertains to an Agreement by and between City of Grand Island, Nebraska, ("OWNER"), and HDR Engineering, Inc. ("ENGINEER"), dated August 10, 2010, ("the Agreement"). Engineer shall perform services on the project phase described below as provided herein and in the Agreement. This Task Order shall not be binding until it has been properly signed by both parties. Upon execution, this Task Order shall supplement the Agreement as it pertains to the project described below.

**TASK ORDER NUMBER: 2**  
**PROJECT PHASE NAME: URANIUM REMOVAL WATER TREATMENT PLANT DESIGN**

**PART 1.0 PROJECT DESCRIPTION:**

- 1.1 The City of Grand Island Water Supply System consists of wells located in town and twenty-one low pressure wells, located in the 1200 acre well field at the Platte River. The twenty-one wells located in the well field have been tested for high uranium concentrations. A study was completed to examine uranium removal for these twenty-one wells.

The previously completed study defined the nature and extent of regulatory issues, analyzed alternatives, addressed water quality issues and recommended improvements and a plan for water treatment.

The treatment technology for adsorptive media (Water Remediation Technologies (WRT)) was screened as the most viable treatment alternative and was investigated and evaluated in detail.

It has been recommended that an adsorptive media as provided by Water Remediation Technologies (WRT) treatment plant be implemented for the well field in a phased construction approach. A five (5) MGD water treatment plant has been recommended. The plant will treat water from wells No 6, 7, and 8. Future phases will be constructed as required to meet the regulatory requirements of the remainder of the wells.

The OWNER has procured adsorptive media equipment procurement through the bidding process. The OWNER will provide the equipment purchased for installation as part of the second phase of the project for the design and construction of the water treatment facility. The second phase of the project to be authorized by this Task Order is for the design of the adsorptive media water treatment system, bidding the project and providing identified construction phase services.

## **PART 2.0 SCOPE OF SERVICES TO BE PERFORMED BY ENGINEER:**

2.1 This Scope of Services for this Task Order is for ENGINEER to provide engineering services ("Services") to the OWNER. Major categories of work in this scope of services include:

- Construction Administration – Equipment Procurement
- Project Implementation
- Preliminary and Final Design
- NDHHS Plan Review
- Bidding Assistance
- Construction Phase Office Services
- Post Construction and Project Close-out Services

See detailed summary of tasks below:

### **TASK SERIES 100 – CONSTRUCTION ADMINISTRATION- EQUIPMENT PROCUREMENT**

#### **Objective:**

Assist OWNER with construction phase services for treatment equipment procurement.

#### **HDR Activities:**

##### **110 – Construction Administration**

- Determine acceptability of substitute equipment proposed during Bidding Phase prior to award of contract as allowed by the Bidding Documents. Conduct conference call to review conclusions of evaluation of substitute equipment.
- Shop Drawings - ENGINEER will review shop drawings for compliance with the requirements of the Contract Bidding Documents. Coordinate shop drawings with proposed project design for water treatment system. Submit WRT Shop Drawings to NDHHS for information only prior to incorporation into design. Equipment manufacturer will respond to any comments or questions as requested by NDHHS.
- ENGINEER/ OWNER/ Equipment Manufacturer will meet and review preliminary equipment drawings for process equipment to establish general layout and design considerations. NDHHS to be invited to meeting to establish familiarity with process equipment.

#### **Assumptions:**

- No more than two (2) submittals required for approval.
- OWNER will administer payments to equipment manufacturer to process payment applications.

- Equipment manufacturer will respond to any questions NDHHS has concerning proposed equipment operation or installation.

Meetings/Travel:

- One (1) meeting for pre submittal design discussion.

Task Deliverables:

- Shop Drawing Review Comments with disposition action resulting from review.
- Pre Design Meeting Minutes for Equipment.

## **TASK SERIES 200 – PROJECT IMPLEMENTATION**

Objective:

Perform activities required for implementation of project including project initiation, team organization, project procedures, scheduling and budgeting. HDR will coordinate with OWNER'S personnel to gather input regarding goals, work effort, and scheduling.

HDR Activities:

### 210 – Project Planning

- Prepare project scope of services as required for project.
- Define project activities, constraints, procedures, guidelines, schedules, and budgets for HDR team members and subconsultant personnel. Identify format of deliverables for survey, geotechnical activities, construction drawings and specifications. Review processes and procedures to be implemented for the project with OWNER. Review processes and procedures to be implemented for the project with HDR team and subconsultants.
- Prepare project budget.
- Develop Quality Control Plan to be incorporated into Project Guide.
- Review and incorporate OWNER'S design standards and bidding document standards. Develop project design and construction schedule. Prepare and distribute Project Guide. The Project Guide will document all personnel Project activities, constraints, guidelines, budgets and procedures. Maintain Project Guide, distribute and update as activities dictate.

### 220 – Project Implementation / Data Collection

- Prepare Kickoff Meeting agenda, conduct meeting, and prepare minutes. Review of documentation on owner supplied equipment for incorporation into project. General Discussion of Design Issues, Approach and Schedule. Review Project Procedures and Establish Lines of Communication. Obtain information on existing installations and processes needed for the design of the proposed improvements.

ENGINEER will provide a list of requested data to the OWNER prior to kick-off meeting. OWNER will provide copies of available requested materials to ENGINEER at the kick-off meeting.

#### 230 – Survey and Geotechnical

- OWNER will provide the survey services to perform a topographic survey of the area for the proposed site of the new water treatment Plant. Survey to be tied into existing Datum Control for vertical and horizontal measurements. ENGINEER will review survey data and verify adequate information has been provided to complete the design and document preparation.
- Geotechnical Investigation - A subsurface exploration program consisting of one (1) boring will be secured by OWNER through a geotechnical consultant. ENGINEER will review results and recommendations of Soils Report to verify adequate information has been provided to develop design criteria for building and mechanical pad foundation.

#### 240 – Design Evaluations

- ENGINEER will establish design conditions for the restaging of existing well pumps. No formal design study or report is part of the scope of work associated with the revised pumping configuration.

#### Assumptions:

- Timely delivery of Notice to Proceed for conducting HDR activities.
- Timely delivery of available requested background information to ENGINEER.
- Special permits are not required. Existing site piping will be located by OWNER and included on site topographic survey.
- Building area to be located south and east of the collection basins and pumping station.

#### Meetings/Travel:

- One (1) meeting for project kick-off.

#### Task Deliverables:

- Project Guide.
- Kick-off Meeting Minutes.

### **TASK SERIES 300 – PRELIMINARY AND FINAL DESIGN**

#### Objective:

Development of design, drawings, specifications and bidding documents for the process improvements defined above.

HDR Activities:

310 – Preliminary Design of Treatment System

- Prepare preliminary drawings in sufficient detail to depict the general arrangement for the layout and size of the building and adsorption media filter equipment.

320 - Final Drawings and Specifications

- Prepare final drawings and details for the various components of the project
- Prepare Construction Specifications.

330 - Agency Review/90% Design Document Development

- Complete Final Design and Drawings to 90% level.
- Prepare bidding requirements, contract forms, and conditions of the contract to reflect appropriate bid pricing for bid proposal and contract.
- Submit three (3) drawing sets and one electronic file copy of 90% design documents for review to the Owner.
- Provide in-house QC reviews by senior interdisciplinary personnel.
- Attend one (1) meeting with OWNER project team to review progress, status of design. Prepare response to OWNER's comments and incorporate comments into documents as appropriate.

340 – Final Construction Document Development

- Prepare construction documents that incorporate all review comments.
- Submit three (3) drawing sets and one electronic file copy of 100% design documents for review to the Owner.

360 – Project/Team Management –Design Phase

- Provide project monitoring and reporting.
- Provide resource management and allocation based on project schedules and activities.
- Provide budget and invoice management.
- Provide coordination with Owner and Sub-consultants.

Assumption:

- Timely review and receipt of OWNER comments.

Meetings/Travel:

- One (1) meeting to review the Final Design.

Task Deliverables:

- Review Meeting Minutes.
- One (1) copy of Final Design documents in pdf electronic format.



## **TASK SERIES 400 – SUBMIT PLANS AND SPECIFICATION TO NDHHS**

### **Objective:**

Submit plans and specifications to the NDHHS for review and comment.

### **HDR Activities:**

#### 410 – NDHHS Submittal

- Following OWNER's review and acceptance, submit plans and specifications to the NDHHS.
- Respond to regulatory comments and questions
- Finalize Plans and Specifications to incorporate comments received from NDHHS.

### **Assumptions:**

- It is anticipated that only one round of comments will be received from NDHHS that will require changes to the final design documents.
- Any permitting fees to be paid by OWNER.
- No design study is a part of the scope of the preliminary and final design as proprietary equipment is being installed. Any design study information necessary for the satisfaction of NDHHS requirements will be provided as additional services by ENGINEER or to be provided by the equipment manufacturer.

### **Meetings/Travel:**

- None

### **Task Deliverables:**

- Three (3) sets of drawings and specifications for submittal to NDHHS.

## **TASK SERIES 500 – BIDDING PHASE ASSISTANCE**

### **Objective:**

Assist OWNER in bidding and evaluation and Award of Construction Contract.

### **HDR Activities:**

#### 510 – Document Reproduction and Distribution

- OWNER will distribute Notice to Bidders to potential contractors.
- OWNER will distribute bidding documents to the plan houses and as requested, to contractors and suppliers.

#### 530 – Contract Document Interpretations and Clarifications

- During the bidding process, ENGINEER will answer questions posed by the bidders as requested by the OWNER.

- Prepare addenda containing clarifications and modifications to the Construction Documents as requested by OWNER.

Assumptions:

- No Pre-bid Conference to be conducted.
- Recommendation on award of contract to be made by OWNER.

Task Deliverables:

- Written responses to contractor questions during bidding.
- Addenda as required.

Meetings/Travel:

- None.

## **TASK SERIES 600 – CONSTRUCTION PHASE OFFICE SERVICES**

Objective:

Consult with OWNER and act as OWNER's representative as provided in the following activities.

HDR Activities:

610 – Preconstruction Meeting - N/A

- OWNER will prepare agenda and conduct pre-construction conference to discuss and establish project procedures. Prepare meeting minutes and distribute to attendees.

620 – Shop Drawing Review and Processing - N/A

- OWNER will review shop drawings for compliance with the requirements of the contract documents. Log, mark and distribute transmittals to Owner and contractor. Maintain log of submitted transmittals to monitor the progress and status of approvals.

630 – Contractors Progress Estimate – Additional Service if Required by OWNER

- OWNER will review and process applications by the contractor for progress payments submitted on a monthly basis consistent with the Owner's procedures.

640 – Project Meetings - Additional Service if Required by OWNER

- OWNER will conduct monthly meetings at the project site or Owner's office during construction. Review project progress, resolve any current problems and identify future issues for resolution.

650 – Interpretations and Clarifications

- ENGINEER will evaluate requests for substitutions for materials and equipment and discuss acceptability of substitutions with OWNER.

- Provide interpretations and clarifications of the construction documents during construction.

660 – Change Proposal Requests/Change Orders – Additional Service if required by OWNER

- OWNER will review and analyze change requests or claims submitted by the contractor.

670 – Periodic Site Visits –Additional Service if required by OWNER

- Make site visits to view construction progress as requested.

680 – Project Management

Project Management activities listed to be provided during completion of Task Series 100 thru 600.

- Provide project monitoring and reporting.
- Provide resource management and allocation based on project schedules and activities.
- Provide budget and invoice management.
- Provide coordination with Owner and Sub-consultants.

Assumptions:

- OWNER will receive shop drawing transmittals and forward to ENGINEER.

Meetings/Travel:

- Attend Pre-construction Meeting.

Task Deliverables:

- Pre-construction Meeting Agenda.
- Pre-construction Meeting Minutes.
- Written project interpretations and clarifications.

**TASK SERIES 700 – CONSTRUCTION PHASE FIELD**

Objective:

Provide services of an RPR at the Site to assist ENGINEER and to provide more extensive observation of Contractor's Work.

HDR Activities:

710 – Resident Services N/A Additional Service if required by OWNER

- Relay written and/or verbal communications between the Engineer and the contractor.
- Inform the Engineer and Owner of construction activities and issues on a timely basis.

- Report to the Engineer whenever work appears to be unsatisfactory, faulty or defective, has been damaged or does not conform to the contract documents.
- Maintain orderly files of project meetings, shop drawings, contract documents, addenda, work directives, change order and progress estimates.
- Review and reconcile progress estimates with contractor in the field and coordinate with Engineer to determine payment amount.
- Assist Engineer in preparing punch list when project reaches substantial completion.
- Coordinate materials testing and construction surveying and review results to determine contractor compliance with the requirements of the contract documents.
- Provide weekly construction report to the Owner.

720 – Materials Testing – Additional Service if required by OWNER

- Testing for soil compaction, trenching subgrade preparation and concrete quality will be completed in accordance with the requirements of the contract documents.

Assumptions:

- OWNER assumes responsibility for RPR functions.

Meetings/Travel:

- None.

Task Deliverables:

- None.

**TASK SERIES 800 – POST CONSTRUCTION AND CLOSE-OUT SERVICES**

Objective:

Perform the following Post-Construction Phase tasks as follows:

HDR Activities:

810 – Substantial Completion and Final Inspection

- Conduct substantial completion inspection and prepare a report (punchlist) covering observed discrepancies, deficiencies and omissions in the work performed by the contractor.
- Prepare certification of substantial completion when contractor has completed work in substantial compliance with the contract documents.
- Make recommendation regarding retainage to the Owner. N/A
- Conduct a final inspection of the project upon correction of deficiencies.
- Assist in preparation of close-out documents and make recommendation for final payment. –N/A

#### 820 – As-Recorded Drawings

- Prepare record drawings showing changes made during the construction process. Drawings are based on mark-ups, drawings and other data furnished by the contractor.
- Provide the Owner one (1) set of record drawings in an electronic file in pdf format.

#### 830 – Project Management

Project Management activities listed to be provided during completion of Task Series 700 and 800.

- Provide project monitoring and reporting.
- Provide budget and invoice management.
- Provide coordination with Owner.

#### Assumptions:

- OWNER to monitor and maintain record of construction changes or additions to be made to record drawings.

#### Meetings/Travel:

- Site visits for substantial completion inspection.
- Site visit for final completion inspection.

#### Task Deliverables:

- Substantial completion punch list.
- Final completion punch list.

### 2.2 Additional Services Requiring Owner's Written Authorization

A. If authorized in writing by Owner, Engineer shall furnish or obtain from others Additional Services of the types listed below.

- 1) Services to make measured drawings of or to investigate existing conditions or facilities, or to verify the accuracy of drawings or other information furnished by Owner or others.
- 2) Services resulting from significant changes in the scope, extent, or character of the portions of the Project designed or specified by Engineer or its design requirements including, but not limited to, changes in size, complexity, Owner's schedule, character of construction, or method of financing; and revising previously accepted studies, reports, Drawings, Specifications, or Contract Documents when such revisions are required by changes in Laws and Regulations enacted subsequent to the Effective Date of this Agreement or are due to any other causes beyond Engineer's control.
- 3) Services resulting from Owner's request to evaluate additional Study and Report Phase alternative solutions beyond those identified in Part 1.
- 4) Services required as a result of Owner's providing incomplete or incorrect Project information to Engineer.

- 5) Furnishing services of Engineer's Consultants for other than Basic Services.
- 6) Determining the acceptability of substitute materials and equipment proposed during the Bidding or Negotiating Phase when substitution prior to the award of contract as allowed by the Bidding Documents.
- 7) Assistance in connection with Bid protests, rebidding, or renegotiating contracts for construction, materials, equipment, or services, except when such assistance is required.
- 8) Providing assistance in responding to the presence of any Constituent of Concern at the Site, in compliance with current Laws and Regulations.
- 9) Preparing to serve or serving as a consultant or witness for Owner in any litigation, arbitration, or other dispute resolution process related to the Project.
- 10) Other services performed or furnished by Engineer not otherwise provided for in this Agreement.

### **PART 3.0 OWNER'S RESPONSIBILITIES:**

3.1 In addition to other responsibilities of Owner as set forth in this Agreement, Owner shall at its expense:

- A. Provide Engineer with all criteria and full information as to Owner's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility, and expandability, and any budgetary limitations; and furnish copies of all design and construction standards which Owner will require to be included in the Drawings and Specifications; and furnish copies of Owner's standard forms, conditions, and related documents for Engineer to include in the Bidding Documents, when applicable.
- B. Furnish to Engineer any other available information pertinent to the Project including reports and data relative to previous designs, or investigation at or adjacent to the Site.
- C. Following Engineer's assessment of initially-available Project information and data and upon Engineer's request, furnish or otherwise make available such additional Project related information and data as is reasonably required to enable Engineer to complete its Basic and Additional Services.
- D. Give prompt written notice to Engineer whenever Owner observes or otherwise becomes aware of the presence at the Site of any Constituent of Concern, or of any other development that affects the scope or time of performance of Engineer's services, or any defect or nonconformance in Engineer's services, the Work, or in the performance of any Contractor.
- E. Authorize Engineer to provide Additional Services as set forth in Part 2 of Task Order of the Agreement as required.
- F. Arrange for safe access to and make all provisions for Engineer to enter upon public and private property as required for Engineer to perform services under the Agreement.
- G. Examine all alternate solutions, studies, reports, sketches, Drawings, Specifications, proposals, and other documents presented by Engineer (including

obtaining advice of an attorney, insurance counselor, and other advisors or consultants as Owner deems appropriate with respect to such examination) and render in writing timely decisions pertaining thereto.

- H. Provide reviews, approvals, and permits from all governmental authorities having jurisdiction to approve all phases of the Project designed or specified by Engineer and such reviews, approvals, and consents from others as may be necessary for completion of each phase of the Project.
- I. Provide, as required for the Project:
  - 1) Accounting, bond and financial advisory, independent cost estimating, and insurance counseling services.
  - 2) Legal services with regard to issues pertaining to the Project as Owner requires or deems appropriate, Contractor raises, or Engineer reasonably requests, including but not limited to the review of Contract Documents supplied by Engineer.
  - 3) Such auditing services as Owner requires to ascertain how or for what purpose Contractor has used the moneys paid.
  - 4) Placement and payment for advertisement for Bids in appropriate publications.
- J. Attend the pre-bid conference and bid opening.

#### **PART 4.0 PERIODS OF SERVICE:**

HDR will perform services under this Task Order with in a period of 270 calendar days following notice to proceed from OWNER.

#### **PART 5.0 PAYMENTS TO ENGINEER:**

- 5.1 Compensation For Basic Services and Additional Services – Salary Costs Times a Factor Method of Payment.
  - A. Owner shall pay Engineer for Basic Services set forth in Task Order No. 1, as follows:
    - 1) An amount equal to Engineer's Salary Costs times a factor of 2.15 for all Basic Services by principals and employees engaged directly on the Project, plus Reimbursable Expenses, and Engineer's Consultant's charges. HDR Billing Rates are summarized as follows:

CLASSIFICATION	HOURLY RATE	ASSIGNED STAFF FOR URANIUM TREATMENT EQUIPMENT PROCUREMENT
Principal-In-Charge	\$170-\$270	\$205
Project Manager	\$120-\$280	\$278
QA/QC Engineer	\$170-\$270	\$270
Senior Engineer/Process Eng.	\$120-\$190	\$160-\$180
Staff Engineer	\$80-\$150	\$90-\$130
Environmental Engineer	\$115-\$220	\$218
CADD Technician	\$70-\$110	\$90
Hydrogeologist	\$130-\$180	\$155
Administrative Assistant	\$50-\$85	\$82
Architect	\$80-\$170	\$112
Electrical	\$90-\$175	\$161
Structural	\$90-\$170	\$153
Mechanical	\$90-\$165	\$90
Instrumentation	\$90-\$175	\$174
Civil	\$85-\$150	\$90
Clerical	\$40-\$60	\$53

- 2) The total compensation for services under Part 5 is estimated to be One Hundred Eleven Thousand Seven Hundred Twenty-Eight Dollars (\$111,728) based on the Fee Summary Sheet attached.
- 3) Engineer may alter the distribution of compensation between individual phases of the work noted herein to be consistent with services actually rendered, but shall not exceed the total compensation amount unless approved in writing by Owner.
- 4) The total compensation for Engineer's services incorporates all labor, overhead, profit, Reimbursable Expenses, and Engineer's Consultant's charges.



- 5) The portion of the amounts billed for Engineer's services will be based on the applicable Salary Costs for the cumulative hours charged to the Project incurred during the billing period by Engineer's principals and employees multiplied by the above designated factor, plus Reimbursable Expenses and Engineer's Consultant's charges.
- 6) Salary Costs means salaries and wages paid to Engineer's employees plus the cost of customary and statutory benefits including, but not limited to, social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation, and holiday pay applicable thereto.
- 7) The Salary Costs and the factor applied to Salary Costs will be adjusted annually (as of 01/01/12) to reflect equitable changes in the compensation payable to Engineer.

5.2 Compensation for Reimbursable Expenses

- A. Owner shall pay Engineer for all Reimbursable Expenses including the following categories: transportation and subsistence incidental thereto; obtaining bids or proposals from Contractor(s); toll telephone calls and mobile phone charges; reproduction of reports, Drawings, Specifications, Bidding Documents, and similar Project-related items in addition to those required under Task Order No. 1, and, if authorized in advance by Owner, overtime work requiring higher than regular rates. HDR reimbursable expenses are summarized as follows:
  - 1) Personal auto mileage invoices at current IRS rate \$0.55.5 per mile.
  - 2) Other transit (airfare, rental car, gas for rental car, lodging, and meals) invoiced at actual cost incurred.
  - 3) Telephone, postage and copy costs will be invoiced at actual cost incurred.
  - 4) Technology charges will be invoiced at \$3.70 for each labor hour.
  - 5) Charges for sub consultants will be billed at the invoice cost plus 5%.
- B. The amounts payable to Engineer for Reimbursable Expenses will be the Project-related internal expenses actually incurred or allocated by Engineer, plus all invoiced external Reimbursable Expenses allocable to the Project, the latter multiplied by a factor of 1.00.

This Task Order is executed this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
"OWNER"

BY: \_\_\_\_\_

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

HDR ENGINEERING, INC.

"ENGINEER"

BY:  \_\_\_\_\_

NAME: \_\_\_\_\_

Ronald J. Sova

TITLE: \_\_\_\_\_

Vice President

ADDRESS: \_\_\_\_\_

8404 Indian Hills Drive  
Omaha, NE 68114

**ESTIMATED STAFF HOURS  
GRAND ISLAND**

TASK DESCRIPTION	TOTAL HOURS	Total With Tech Fee	Expenses	
<b>Task Series 100 - Equipment Procurement</b>				
Task 110 - Construction Administration - Equipment Procurement	44	\$7,351.27	\$135.00	
Alternate Equipment Review	12	\$2,395.32		
Shop Drawing Review	20	\$2,962.83		
NHHS WRT Shop Drawing Submittal and Review		\$0.00		
Progress Payments	0	\$0.00		
Pre-Design Equipment Manufacturer's Review Meeting	12	\$1,993.12	\$135.00	Per Diem
<b>TASK SERIES 100 SUBTOTAL</b>	<b>44</b>	<b>\$7,351.27</b>	<b>\$135</b>	<b>Task 100</b>
<b>Task Series 200 - Planning/Basis of Design</b>			<b>Expenses</b>	<b>Expense Items</b>
Task 210 - Project Planning	42	\$7,274.67	\$0	
Scope Project Services	6	\$1,197.66		
Prepare Project Schedule/Project Guide/Quality Control Plan/Production Standards	12	\$1,785.11		
Prepare Project Budget	8	\$1,553.81		
QC/QC Schedule/Budget	2	\$548.66		
Initial Project Team Organizational Meeting	14	\$2,189.44		
Task 220 - Project Implementation and Data/Information Collection	14	\$2,108.77	\$135	
Kickoff Meeting	14	\$2,108.77	\$135.00	Per Diem
Gather and Review Related Project Work and Pertinent Information	0	\$0.00		
Investigate Site Conditions and Identify Potential Surface & Underground Conflicts	0	\$0.00		
	0	\$0.00		
Task 230 - Survey and Geotechnical	9	\$1,101.22	\$0	
Reconnaissance Survey of Site	0	\$0.00		
Investigate Site Conditions and Identify Potential Surface & Underground Conflicts	0	\$0.00		
Site Survey - Owner	6	\$681.66		
Geotechnical Investigation -Owner	3	\$419.56		
Task 240 - Permitting/Environmental -N/A	0	\$0.00	\$0	
Identify, coordinate and prepare Permit Applications for Federal, State and Local Entities	0	\$0.00		
COE 404 Nationwide Permit	0	\$0.00		
NPDES Stormwater NOI	0	\$0.00	#	
Floodplain Construction Permit	0	\$0.00		
Environmental Desk Top Survey	0	\$0.00		
Environmental Resources Site Visit	0	\$0.00		Per Diem
Documentation and Findings	0	\$0.00		
Protected Species Review	0	\$0.00		
Cultural Resources Record Search	0	\$0.00		
Consult Fish and Wildlife	0	\$0.00		Per Diem
Task 250 - Basis of Design/Evaluations	32	\$3,760.53	\$135	
Identify and Define Design Criteria/Code Compliance	0	\$0.00		
Prepare Equipment List	0	\$0.00		
Establish Final Design Criteria	0	\$0.00		
Determine Existing Pump Restaging Requirements	32	\$3,760.53		
Opinion of Cost for Alternatives	0	\$0.00		
Prepare Written Design Summary - Attached to Design Report	0	\$0.00		
Basis of Design Review Meeting	0	\$0.00	\$135.00	Per Diem
<b>TASK SERIES 200 SUBTOTAL</b>	<b>97</b>	<b>\$14,245.20</b>	<b>\$270.00</b>	<b>Task 100</b>
<b>Task Series 300 - PRELIMINARY AND FINAL DESIGN</b>				
Task 310 - Preliminary Design (30%)	36	\$5,091.34	\$100.00	
Prepare Preliminary List of Specifications	0	\$0.00		
Prepare Preliminary Drawings	36	\$5,091.34	\$100.00	Copies

**ESTIMATED STAFF HOURS  
GRAND ISLAND**

TASK DESCRIPTION	TOTAL HOURS	Total With Tech Fee	Expenses	
<b>Task 320 - Final Design and Construction Document Development</b>	375	\$42,002.31	0	200
Prepare Drawings and Details	0	\$0.00		
Cover Sheet	6	\$593.10		
General Abbreviations	6	\$593.10		
Legend and Symbols	6	\$593.10		
Site Plan	34	\$3,492.09		
Site Piping Plan	36	\$3,912.84		
Misc. Details	26	\$2,793.14		
Building Elevations	26	\$2,793.14		
Process Piping Plan	40	\$4,754.35		
Process Piping Sections	30	\$3,004.85		
Filter Support and Details	25	\$3,079.13		
Electrical/Mechanical Plan	34	\$8,838.78		
Prepare specifications	56	\$7,554.70	\$200.00	Copies
Prepare City Front-End Documents and Special Provision (By OWNER)	0	\$0.00		
<b>Task 330 - Agency Review/90% Design Document Submittal</b>	77	\$11,712.59	#	\$335.00
Prepare Final Design and Bidding Documents	30	\$3,457.95		
Incorporate City of Grand Island Front-End Documents and General Conditions	6	\$907.99		
Submit Final Drawing Sets for Review	9	\$919.13	\$200.00	Printing
QA/QC Review	14	\$3,365.95		
Design Review Meeting	18	\$3,061.57	\$135.00	Printing
<b>Task 340 - Final Document Development</b>	26	\$2,757.64	#	\$100.00
Prepare Documents Incorporating Comments	19	\$1,954.17		
Submit Documents to Owner	7	\$803.47	\$100.00	Printing
<b>Task 350 - Project Management/Project Control for Design</b>	27	\$4,829.91	#	\$0.00
Provide Project Monitoring and Reporting	0	\$0.00		
Provide Budget and Invoice Management	10	\$1,607.77		
Provide Coordination with Owner and Subconsultants	12	\$2,170.26		
Provide Monthly Progress Reports	5	\$1,051.89		Printing
<b>TASK SERIES 300 SUBTOTAL</b>	341	\$66,393.78	#	\$735.00 Task 200
<b>Task Series 400- Submit Plans and Specification to NDHHS</b>				
<b>Task 410 - NDHHS Submittal</b>	14	\$2,108.77	\$0	
Submit Plans	10	\$1,444.40		
Respond to Comments	4	\$664.37		
<b>TASK SERIES 400 SUBTOTAL</b>	14	\$2,108.77	\$0.00	Task 100
<b>Task Series 500 - BIDDING PHASE ASSISTANCE</b>				
<b>Task 510 - Document Reproduction and Distribution</b>	0	\$0.00	#	\$0.00
Owner Advertise with Engineer Assistance	0	\$0.00		
Print Construction Drawings	0	\$0.00		Printing
Maintain Plan Holders List	0	\$0.00		
<b>Task 520 - Document Clarification/Addenda</b>	20	\$2,888.80	#	\$0.00
Address Comments and questions	10	\$1,444.40		
Prepare and distribute Addenda	10	\$1,444.40		
<b>TASK SERIES 500 SUBTOTAL</b>	20	\$2,888.80	0	\$0.00 Task 300

**ESTIMATED STAFF HOURS  
GRAND ISLAND**

TASK DESCRIPTION	TOTAL HOURS	Total With Tech Fee	Expenses	
<b>Task Series 600 - CONSTRUCTION PHASE SERVICES</b>				
<b>Task 610 - Preconstruction Meeting - N/A</b>	0	\$0.00	#	\$0.00
Review Agenda and Attend Pre-Construction Conference	0	\$0.00		
<b>Task 620 - Shop Drawing Review and Processing - N/A</b>	0	\$0.00	#	\$0.00
Review Shop Drawings	0	\$0.00		
Log, Mark-up and Distribute to Owner and Contractor	0	\$0.00		
Maintain Log of Submittals and Monitor Status	0	\$0.00		
<b>Task 630 - Contractor Progress Estimate - N/A</b>	0	\$0.00	#	\$0.00
Review and Process Monthly Applications for Progress Payments - By Owner	0	\$0.00		
Make Recommendations for Acceptance - By Owner	0	\$0.00		
<b>Task 640 - Project Meetings - N/A</b>	0	\$0.00	#	\$0.00
Attend Monthly Meetings	0	\$0.00		
Prepare and Distribute Minutes	0	\$0.00		
<b>Task 650 - Interpretations and Clarifications</b>	28	\$4,645.84	#	\$0.00
Evaluate Requests for Substitutions	8	\$1,328.75		
Provide Interpretations and Clarifications	20	\$3,317.10		
<b>Task 660 - Change Proposal Requests/Change Orders - N/A</b>	0	\$0.00	#	\$0.00
Review and Analyzed Change Requests	0	\$0.00		
Provide Written Explanations	0	\$0.00		
Assemble Approved Change Requests and Prepare Change Order	0	\$0.00		
<b>Task 670 - Periodic Site Visits - N/A</b>	0	\$0.00	#	\$0.00
Make Periodic Site Visits	0	\$0.00		
<b>Task 680 - Project Management</b>	0	\$0.00	#	\$0.00
Provide Project Monitoring and Reporting - N/A	0	\$0.00		
Provide Budget and Invoice Management	0	\$0.00		
Provide Coordination with Owner and Subconsultants	0	\$0.00		
Team Meetings for Project Coordination - N/A	0	\$0.00		
Provide Monthly Progress Reports	0	\$0.00		
<b>TASK SERIES 600 SUBTOTAL</b>	28	\$4,645.84	0	\$0.00
				<b>Task 400</b>
<b>Task Series 700 - CONSTRUCTION PHASE OBSERVATION</b>				
<b>Task 710 - Resident Services - N/A</b>	0	\$0.00	#	\$0.00
Onsite Construction Observation	0	\$0.00		
Relay Written and/or Verbal Communications	0	\$0.00		
Inform Engineer and Owner of Activities	0	\$0.00		
Report Unsatisfactory Work	0	\$0.00		
Maintain Orderly Project Files	0	\$0.00		
Reconcile Progress to Coordinate Payment Amount	0	\$0.00		
Assist in Punch List	0	\$0.00		
Coordinate Testing and Results for Contractor Compliance	0	\$0.00		
Provide Weekly Report to Owner	0	\$0.00		
<b>Task 720 - Materials Testing - N/A</b>	0	\$0.00	#	\$0.00
Review Testing Results for Soil, Trenching, and Concrete	0	\$0.00		
<b>TASK SERIES 700 SUBTOTAL</b>	0	\$0.00		\$0.00
				<b>Task 500</b>

**ESTIMATED STAFF HOURS  
GRAND ISLAND**

TASK DESCRIPTION	TOTAL HOURS	Total With Tech Fee	Expenses	
<b>Task Series 800 - POST CONSTRUCTION AND CLOSE-OUT SERVICES</b>				
<b>Task 810 - Substantial Completion and Final Inspection</b>	36	\$3,969.82	# \$270.00	
Conduct Substantial Completion Inspection and Prepare Report (Punch List)	24	\$3,976.70	\$135.00	Per Diem
Prepare Certificate of Substantial Completion - N/A	0	\$0.00		
Make Recommendation of Retainage - N/A	0	\$0.00		
Conduct Final Inspection	12	\$1,993.12	\$135.00	Per Diem
Assist in Close-out Documents for Recommendation of Final Payment - N/A	0	\$0.00		
<b>Task 820 - As-Recorded Drawings - N/A</b>	0	\$0.00	# \$0.00	
Prepare Record Drawings	0	\$0.00		
Provide Set of Record Drawings to Owner	0	\$0.00		
<b>Task 830 - Project Management</b>	40	\$6,714.54	# \$0.00	
Provide Project Monitoring and Reporting - N/A	0	\$0.00		
Provide Budget and Invoice Management	16	\$2,374.03		
Provide Coordination with Owner and Subconsultants	16	\$2,657.50		
Team Meetings for Project Coordination - N/A	0	\$0.00		
Provide Monthly Progress Reports	8	\$1,683.02		
<b>TASK SERIES 800 SUBTOTAL</b>	76	\$12,684.36	\$270.00	Task 600

**Total Job Cost**

**\$111,728**

**ESTIMATED STAFF HOURS  
 GRAND ISLAND**

TASK DESCRIPTION	PROJ MGR	SR/ PROJECT	PROJ ENGR	CIVIL SR TECH	QA/QC	SR STRUCT	JR STRUCT	STRUCT CAD	SR MECH	JR MECH	MECH CAD	SR ELECT	ELEC CAD	ADMIN. CLERICAL	CLERICAL	TOTAL HOURS
<b>LABOR SUMMARY</b>																
Task Series 100 - Equipment Procurement	18	4	18	0	0	0	0	0	0	0	0	4	0	0	0	44
Task Series 200 - Planning/Basis of Design	28	12	24	7	2	0	0	0	0	0	0	6	12	0	6	97
Task Series 300 - PRELIMINARY AND FINAL DESIGN	70	6	112	176	8	2	20	8	2	16	24	51	40	4	2	541
Task Series 400 - Submit Plans and Specification to NDHHS	6	0	6	0	0	0	0	0	0	0	0	0	0	0	2	14
Task Series 500 - BIDDING PHASE ASSISTANCE	8	0	8	0	0	0	0	0	0	0	0	0	0	0	4	20
Task Series 600 - CONSTRUCTION PHASE SERVICES	12	0	12	0	0	0	0	0	0	0	0	4	0	0	0	28
Task Series 700 - CONSTRUCTION PHASE OBSERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Task Series 800 - POST CONSTRUCTION AND CLOSE-OUT SERVICES	38	0	22	0	0	0	0	0	0	0	0	8	0	0	0	76
<b>TOTAL HOURS</b>	180	22	202	183	10	2	20	8	2	16	24	73	52	13	14	820
<b>Total Job Cost</b>																<b>\$111,728</b>

RESOLUTION 2011-226

WHEREAS, at the October 27, 2009 Council approved the proposal from HDR Engineering, of Lincoln, Nebraska for Uranium Removal Methods Evaluation Engineering Services; and

WHEREAS at the August 10, 2010 Council meeting, the Utilities Department was authorized to proceed with the procurement and installation of a large-scale pilot uranium removal system at the City's Platte River Well Field; and

WHEREAS, a contract for this uranium removal system equipment was awarded to Water Remediation Technologies, LLC of Wheat Ridge, Colorado, by Council on July 26, 2011 and

WHEREAS, in order to proceed with the installation, the City's consultant for the project, HDR Engineering, was directed to provide a proposal for detailed engineering required to complete the project; and

WHEREAS, this detailed engineering proposal is in accordance with the engineering services agreement entered in to with HDR for the original uranium treatment evaluation; and

WHEREAS, the engineering services agreement with HDR was designed to define a study of uranium treatment or removal options and provide a method for continuity for efficient completion of the project; and

WHEREAS; the proposal received from HDR for detailed engineering services – Task Order No. 2, will be billed at actual costs not to exceed \$111,728.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that Task Order No. 2, from HDR Engineering, Inc., of Lincoln, Nebraska, is hereby approved.

- - -

Adopted by the City Council of the City of Grand Island, Nebraska, August 23, 2011.

---

Jay Vavricek, Mayor

Attest:

Approved as to Form	☐ _____
August 19, 2011	☐ City Attorney



---

RaNae Edwards, City Clerk