Grand Island, Nebraska
Grand Island WWTP
Headworks Improvements

City Project WWTP–2013–1
B&V PN 175144
OA PN 011-2347

ADDENDUM NO. 1
April 18, 2013

A. SCOPE

This Addendum No. 1 consists of pages AD1-1 through AD1-8 and attachments. This addendum covers the following clarifications, additions, or changes to the specifications and drawings previously issued. Attachments to Addendum No. 1 include the following:

- SECTION 02930 – SEEDING AND SODDING
- 15102-S01 Schedule Notes

Attachments to this addendum that are not part of the Contract Documents but are solely for the bidders' information include:

- Attachment 01015A: Preselected Equipment Proposal, Section 11321 and 11322 – Grit Removal Equipment, Gravity Type and Grit Separation and Classification Equipment
- WWTP Flood Plain
- Pre-Bid Meeting Minutes with Attachments
- Plan Holders List

B. SPECIFICATIONS

1. SECTION 00080 – INVITATION TO BID

   Page 00080-2. Revise the first bulleted item at the top of the page to read as follows.

   "Successful completion of at least three (3) projects within the last ten (10) years for projects similar in size and scope to the proposed project. Acceptable projects include those at municipal water and wastewater treatment facilities of $6,000,000.00 or larger. At least one project must include installation of headworks equipment and similar facilities."

2. SECTION 00100 – INSTRUCTIONS TO BIDDERS

Page 00100-1, Article 3.1. Delete "references for" from the second sentence of the first paragraph. The second sentence shall read, "To be considered a responsive bidder, the Bidder must submit the following:"

Page 00100-1, Article 3.1. Revise the first bulleted item to read as follows.

"Successful completion of at least three (3) projects within the last ten (10) years for projects similar in size and scope to the proposed project. Acceptable projects include those at municipal water and wastewater treatment facilities of $6,000,000.00 or larger. At least one project must include installation of headworks equipment and similar facilities."

Page 00100-2, Article 3.1. Revise the last sentence of this article to read as follows.

"Include phone numbers, contact name(s) and a brief description of the work completed by Bidder for the reference projects. EMRs for the last three years shall be provided on insurance company letterhead."

3. SECTION 00700 – GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Page 00700-37, Article 6.09. Add the following sub-article E to Article 6.

"E. Work in Confined Spaces: The provisions of 29 CFR Section 1910.146, "Permit-Required Confined Spaces", have been adopted by Owner and shall apply to Work under this Contract. Owner has established a confined-space entry program for its own use, and will be responsible for enforcement of the program for Owner's personnel only.

Contractor is hereby notified that manholes and other structures included under the confined-space definition of 29 CFR 1910.146, shall be considered as hazardous locations with hazardous atmospheric conditions. The structures may contain methane, hydrogen sulfide, carbon dioxide, and other gases which are dangerous to life or health. Contractor shall allow its personnel or Subcontractors to enter these confined spaces only through compliance with an entry permit program as specified herein.

Contractor shall establish and maintain a confined-space entry program appropriate to the structures and conditions encountered. The program shall meet the requirements of 29 CFR 1910.146 and shall specifically address the provisions of Paragraph (d) therein. Contractor shall enforce the requirements of Paragraphs (e) and (f), shall establish and conduct a training program in accordance with Paragraph (g), and shall comply with all other applicable requirements of the

referenced regulation.

Contractor shall prepare a complete written program covering the requirements of this paragraph and the referenced regulation. The written program shall be submitted through Engineer for review and approval by Owner, and shall be modified and resubmitted if required. No Work shall be done by Contractor or any of Contractor's personnel or Subcontractors in any confined spaces until Owner is satisfied that the program provisions are in place.

Upon request, Owner's confined-space entry program will be made available to Contractor for review, but Owner's program shall not be considered as necessarily addressing all steps and measures to be taken into account. Contractor shall cooperate with Owner for coordination of activities whenever Contractor's personnel and Owner's personnel will both be working in or near the confined spaces at the same time."

Page 00700-64, Article 13.07.C. Delete Article 13.07.C in its entirety and replace with the following.

"C. Not used."

4. SECTION 01015 – PROJECT REQUIREMENTS

Page 01015-8, Article 25. Add the following after the third sentence.

"Contractor shall make a request to Owner at least fourteen (14) days in advance of its intentions to remove the primary clarifiers from service. Owner will notify NDEQ when bypassing of the primary clarifiers is expected to occur."

Page 01015-15, Article 34. Delete Article 34 in its entirety and replace with the following.

"34. USE OF PREMISES. Contractor shall limit site disturbance on the entire site to the areas adjacent to the new Work and to the limits of the former sludge storage lagoon area, unless permission is granted by Owner or Engineer to use other areas of the site. The area west of the former sludge storage lagoon is used by Owner for composting, and is subject to flooding. This area is not available for temporary storage or staging by Contractor."

Page 01015-15. Replace the corresponding preselected equipment attachment fly sheet with the following attached proposal: Attachment 01015A: Preselected Equipment Proposal, Section 11321 and 11322 – Grit Removal Equipment, Gravity Type and Grit Separation and Classification Equipment

5. SECTION 01610 – GENERAL EQUIPMENT STIPULATIONS

   Pages 01610-2 and 3, Article 5. Delete the second and third sentences from this article in their entirety.

6. SECTION 01611 – METEOROLOGICAL AND SEISMIC DESIGN CRITERIA

   Page 01611-2, Article 3. Delete Article 3 in its entirety and replace with the following.

   "3. SEISMIC DESIGN. Not applicable for Seismic Design Category (SDC) A."

   Page 01611-3, Article 4. Add Article 4 to the specification section as follows.

   "4. WIND ANCHORAGE. Outdoor equipment listed below shall have anchor bolts designed for the effects of wind forces, as determined in accordance with ASCE 7, Chapter 6. Shop drawings shall include full anchor bolt details, and shall be sealed by a professional engineer licensed in the state of the project. Calculations shall be furnished when requested by Engineer.

   - Carbon Absorption Units, Section 11354
   - Odor Control Fans, Section 11356
   - Engine-Generator, Section 11910
   - Exterior Pipe Supports for Air Service, Section 15066
   - Exterior Duct Supports, Section 15500
   - Makeup Air Units, Section 15500
   - Packaged Air Conditioning Units, Section 15650"

7. SECTION 02200 – EXCAVATION AND FILL FOR STRUCTURES

   Page 02200-13, Article 3-2.06. Add the following paragraph to the end of this article.

   "Contractor may utilize the dry slough adjacent to Greer Lake for dewatering discharges, which will ultimately travel to Wood River. If the dry slough is used, Contractor shall construct an earthen berm on the south side of the dry slough to prevent the dewatering discharge from backing up onto Greer's property."

8. SECTION 02930 – SEEDING AND SODDING

   Delete this section in its entirety and replace with the attached "SECTION 02930 – SEEDING AND SODDING" specification attached to the end of this addendum.

9. SECTION 11150 – SUBMERSIBLE PUMPS

Page 11150-1, Article 1-2. Add "ABS" to the list of acceptable manufacturers.

Page 11150-5, Article 2-2. Revise the "Maximum power required at pump input shaft at any point from minimum operating head to shutoff head" to "120 bhp".

Page 11150-5, Article 2-2. Revise the "Operating head range for full speed continuous operation" to "45 to 52 ft".

10. SECTION 11312 – MECHANICALLY CLEANED BAR SCREENS

Page 11312-9, Article 2-6.03. Delete "or NEMA 4X where powered by intrinsically safe circuits" from the first sentence of the second paragraph of this article.

Page 11312-11, Article 2-6.03.02. Delete "Nema 4X rated." from the first line of this page.

Page 11312-11, Article 2-6.03.02.01. Revise the second sentence of this article to read as follows.

"The PLC shall be an Allen-Bradley MicroLogix 1400 without exception."

Page 11312-14, Article 2-8. Add the following article preceding Part 3 – Execution.

"2-8. ACCESSORIES.

2-8.01. Safety Guards. Safety guards shall be provided for each screening unit and shall enclose the three open sides (front and two sides) of the screen. Safety guards shall provide fall protection from the open penetrations in the operating floor for the screen unit and protection from the operating equipment from personnel. Safety guards shall be securely mounted to the operating floor and shall be a minimum of 6'-0" tall. Safety guards shall be fabricated 304 stainless steel with posts, fencing mesh, and lockable hinged gates on two sides for access to the screening unit."

11. SECTION 11322 – GRIT SEPARATION AND CLASSIFICATION EQUIPMENT

Page 11322-10, Article 2-6.01. Add the following sentence to the end of this article.

"Local control stations installed in the Dewatering Room shall be provided with NEMA 4X stainless steel enclosures."

Page 11322-11, Article 2-6.02. Delete "Nema 4X rated" following the item "LED type

indicating lights (on door) (press-to-test type)."

12. SECTION 11325 – SCREENINGS WASHER/COMPACTOR EQUIPMENT

    Page 11325-11, Article 2-6.02. Delete "Nema 4X rated" following the item "LED type indicating lights (on door) (press-to-test type)."

13. SECTION 13564 – PROCESS ANALYTICAL INSTRUMENTS

    Page 13564-3, Article 2-3.01. Add the following sentence to the end of the first paragraph of this article.

    "Detector systems and all appurtenances and enclosures shall be suitable for the areas in which they are installed including appropriate NEMA ratings."

    Page 13564-4, Article 2-3.01. Delete the last sentence of this article and replace with the following.

    "Gas detector systems shall be Scott Instruments Freedom 6000 Utilizing IR; or MSA Ultima XIR Series."

    Page 13564-4, Article 2-3.01.01. Delete Article 2-3.01.01 in its entirety and replace with the following.

    "2-3.01.01. Sensors. Sensors shall be of the microprocessor based infrared type contained in corrosion resistant weatherproof housings. Sensors shall be rated either intrinsically safe or explosion proof, and shall be suitable for the environment in which they will be located. Sensors shall not require any addition of chemical reagents and shall require no routine maintenance other than calibration checks. Combustible gas sensors shall not be adversely affected by exposure to hydrogen sulfide gases. Minimum sensor life shall be 5 years. A sufficient length of cable shall be provided for connecting the sensor to the alarm module enclosure. The transmitter shall be provided with a serial output for instrument diagnostics and process monitoring."

    Page 13564-4, Article 2-3.01.02. Delete "NEMA 4X" from the second sentence of this article.

14. SECTION 15102 – ECCENTRIC PLUG VALVES

    Page 15102-S01-1. Add "15102-S01 Schedule Notes" attached at the end of this addendum after page 15102-S01-1.

    Pages 15102-S02-2, -3, and -4. Revise the indicated page numbers to 15102-S02-1, -2, and -3, respectively.

15. SECTION 15114 – FABRICATED STAINLESS STEEL SLIDE GATES

Page 15114-2, Article 1-3. Add the following paragraph to the end of this article.

"Shop drawings of face (wall) mounted gates shall include full anchor bolt details, and shall be sealed by a professional engineer licensed in the state of the project. Calculations shall be furnished if requested by Engineer."

C. DRAWINGS

1. Drawing BC8, Sheet 34 of 206. Add Note 2 to this drawing as follows.

   "INSTALL ONE (1) 6" PIPE AND ONE (1) 1" PIPE UNDER THE PROPOSED PAVEMENT FOR FUTURE SPRINKLER LINES AND SPRINKLER CONTROL LINES IN SIX (6) SEPARATE LOCATIONS. THE LOCATIONS OF THE PIPES WILL BE DETERMINED IN THE FIELD BY OWNER OR ENGINEER. THE PIPES SHALL BE INSTALLED TO A DEPTH OF 24" UNDER THE PAVEMENT SECTION AND EXTENDED TO 24" BEHIND THE EDGE OF PAVEMENT AND CAPPED. THE 6" AND 1" PIPES SHALL BE SCH 80 PVC (PVC-2) WITH SCH 40 (PVC-1) CAPS. PIPES SHALL BE MARKED WITH BRASS MARKERS SET IN THE CONCRETE. CONTRACTOR SHALL PROVIDE A TOTAL OF 200 FEET OF PIPE AND 12 CAPS FOR BOTH SIZES OF PIPE."

2. Drawing CS3, Sheet 98 of 206. Delete the removable aluminum guardrail around the bar screen floor openings.

3. Drawing CS5, Sheet 100 of 206. Delete the removable aluminum guardrail around the bar screen floor openings.

4. Drawing CS8, Sheet 103 of 206. Delete the removable aluminum guardrail around the bar screen floor openings.

5. Drawing CH1, Sheet 110 of 206. Revise Plan Note 1 to read as follows "FRP PIPE, SEE HVAC/ODOR CONTROL DETAIL J/KH2 AND STRUCTURAL DETAIL L/KS12 FOR INDOOR SUPPORTS…"

6. Drawing DH1, Sheet 130 of 206. Revise Plan Note 1 to read as follows "FRP PIPE, SEE HVAC/ODOR CONTROL DETAIL J/KH2 AND STRUCTURAL DETAIL D/KS8 FOR INDOOR SUPPORTS…"

7. Drawing DH1, Sheet 130 of 206. Revise the bubble callout referenced to GUH-28 located in the interior of the Dewatering Room along the south wall to read "D/KS8".

8. Drawing KH1, Sheet 191 of 206. Reference the MAKEUP AIR UNIT SCHEDULE, revise the column heading "OUTPUT CAPACITY (KW)" to "OUTPUT CAPACITY (BTUH)".

D. GENERAL CLARIFICATIONS AND COMMENTS

1. Bid Bond. Question: Is an AIA bid bond form acceptable? If not, please provide the acceptable bid bond form.

   Answer: An AIA bid bond form would be acceptable.

2. Bid Form Corporation Corporate Seal. Question: The Section 00100, Instructions to Bidders, paragraph 14.3 requires the corporate seal be affixed and attested by the secretary or an assistant secretary. If this is a requirement for the proposal form, then where are the seal and the signature to be placed? There is not a designated space on the proposal form.

   Answer: The corporate seal and certification by the secretary or assistant secretary should be attached to the Bid Form.

3. Disadvantaged Business Enterprise (DBE) Utilization. Question: With regards to the Grand Island WWTP Headworks Improvement project, will there be any requirements to solicit minority and female business enterprises?

   Answer: There are no contract requirements to solicit minority and female business enterprises. Attention is directed to Section 00100, Article 12, regarding nondiscrimination.

4. Davis-Bacon Wage Rate Requirements. Question: Will there be any Davis-Bacon wage rate requirements?

   Answer: There are no Davis-Bacon wage rate requirements. Attention is directed to Section 00100, Article 13, regarding fair labor standards.

5. Flood Plain. Question: The builder's Risk insurance lists "flood" as a peril or cause of loss, in which flood plain does this project lie?

   Answer: The WWTP site is in the Wood River Flood Zone A2. See the attached "WWTP Flood Plain" for additional information.

Acknowledge receipt and acceptance of this addendum in the appropriate space on the Bid Form.

Section 02930

SEEDING AND SODDING

PART 1 - GENERAL

1-1. SCOPE. This section covers seeding and sodding to be performed after backfilling and final grading are complete. All areas disturbed by construction operations shall be treated as specified herein.

1-2. GENERAL.

1-2.01. Governing Standard. The governing standard for the seeding and sodding Work shall be the City of Grand Island Standard Specifications.

1-2.02. Experience. Work shall be performed by a contractor acceptable to the Engineer, with at least four (4) years seeding and sodding experience.

1-2.03. Completion. Seeding Work shall be completed during the period between March 1 and May 15 or August 1 and September 15. At Owner's option, a portion of the final payment not to exceed one (1) percent of the contract price may be retained until an acceptable stand for all grass/ground cover is established. Seeding requirements are as follows:

Locations to be seeded.	All disturbed areas except the areas to be sodded.
Area to be seeded.	Approximately 4.1 acres

Sodding shall not be completed during the months of July and August. Sodding requirements are as follows:

Locations to be sodded.	All disturbed areas that were established lawn areas except the areas west of plant grid line E 4400.
Area to be sodded.	Approximately 0.9 acres

1-3. SUBMITTALS.

1-3.01. Soil Test. Soil shall be tested to determine nutrient needs by the state Extension Service or an independent agricultural soil testing lab. Composite sample(s) shall be collected and submitted in accordance with lab instructions. Lab report and nutrient recommendations shall be provided to the Engineer.

1-3.02. Invoices and Analysis Labels. A copy of supplier's invoices for all seed, mulch, and fertilizer which shows the quantity by weight purchased for the project and representative labels bearing the manufacturer's or vendor's guaranteed statement of analysis shall be submitted to Engineer for review and approval to assure compliance with specified requirements for quality and application rates.

1-4. GUARANTEE.

1-4.01. Seeding. Contractor shall guarantee a uniform stand by seeding, free of weeds to the extent practical, and acceptable to Owner.

1-4.02 Sodding. Contractor shall guarantee the sodding Work to the extent that all transplanted sod shall be uniform in color, leaf texture, shoot density, and reasonably free of visible imperfections at acceptance.

1-5. DELIVERY, STORAGE, AND HANDLING. Shipping shall be in accordance with the Product Delivery Requirements section. Handling and storage shall be in accordance with the Product Storage and Handling Requirements section.

Prior to use, all products shall be kept dry and in a weatherproof location so that their effectiveness will not be impaired.

PART 2 - PRODUCTS

2-1. MATERIALS. All materials shall conform to the requirements of the Governing Standard, except where otherwise specified.

2-1.01. Starter Fertilizer. Fertilizer shall be a complete pelleted or granulated fertilizer. The analysis in percent by weight shall be as follows:

	Seeded Areas
Nitrogen	18 %
Phosphorus	46 %
Potassium	0 %

2-1.02. Seed. The seed species and the mixture shall be.

Sheep Fescue	35.0%
Buffalograss	25.0%
Annual Ryegrass	35.0%
Blue Grama	5.0%

2-1.03. Sod. Sod shall have been planted on cultivated agricultural land and grown specifically for sod purposes and shall conform to the quality standards of Nursery Grown Sod as defined by the Turfgrass Producers International. Sod shall be free of objectionable grassy and broad leaf weeds. Sod shall be considered free of such weeds if less than five such plants are found per 100 square feet of area. The sod species shall be Kentucky blue grass.

2-1.04. pH Adjustment. If laboratory soil testing indicates the need for increased soil pH, the Contractor shall add agricultural lime as a soil amendment. Addition rate(s) shall be determined by analysis of soil sample(s) subjected to laboratory testing. Addition rate(s) shall be as recommended by state Extension Service guidelines and/or local horticultural agencies and as approved by Engineer. If laboratory soil testing indicates the need for decreased soil pH, the Contractor shall add agricultural sulfur, aluminum sulfate or iron sulfate as a soil amendment. Addition rate(s) shall be determined by analysis of soil sample(s) subjected to laboratory testing. Addition rate(s) shall be as recommended by state Extension Service guidelines and/or local horticultural agencies and as approved by Engineer.

2-1.05. Topsoil. Topsoil shall be fertile, natural soil, typical of the locality, free from stones, roots, sticks, clay, peat, weeds, and sod, and obtained from naturally well drained areas. It shall not be excessively acidic or alkaline nor contain toxic material harmful to plant growth. Stockpiled topsoil may be used but the Contractor shall furnish additional topsoil at his/her own expense if required. Topsoil thickness shall be as specified in the Excavation and Fill for Structures section and Trenching and Backfilling section.

2-1.05. Mulch. Mulch shall be a specially processed cellulose fiber containing no growth or germination inhibiting factors, or shall consist of straw from hay and shall include a tackifier. Mulch for hydroseeding operation shall be a wood mulch or combination wood and paper mulch in accordance with the Governing Standard.

PART 3 - EXECUTION

3-1. GENERAL. Execution of seeding and sodding Work shall conform to the Governing Standard, or shall be as specified herein, whichever is the most stringent.

3-1.01. Clearing Prior to finish grading, areas to be seeded or sodded shall be cleared to remove stumps, stones larger than three (3) inches, roots, cable, wire, debris or other materials that might hinder seeding and/or sodding and future turf maintenance.

3-1.02. Finish Grading. Seeding and/or sodding shall not be started until all earthwork has been substantially completed. Backfills and fills shall be allowed to settle, the topsoil spread, and finish grading completed before the Work is started.

Finish grading shall result in a surface conforming to the contours indicated on the Drawings.

3-1.03. Application of Fertilizer and pH Adjustment. After finish grading, any fertilizer or chemicals for pH adjustment specified shall be applied uniformly to areas to be seeded.

Fertilizer application rate shall be 240 lbs/acre. Chemicals for pH adjustment shall be applied at a rate based on a soil test for pH. The rate shall be adequate to neutralize the soil.

3-1.04 Final Preparation. Following application of additives and/or fertilizers the areas to be seeded and/or sodded shall be tilled to a true depth of six (6) inches by disking, harrowing, or other accepted methods to thoroughly incorporate the additives and fertilizer, destroy vegetation, and pulverize the soil. After tilling, the bed shall be smoothed by dragging or floating. The surface shall be cleared of all stones, stumps or other objects larger than 1 1/2 inches in thickness or diameter; roots, wire, grade stakes, and other objects that might hinder future turf maintenance operations.

When results are not satisfactory because of drought, excessive moisture or other causes, the Work shall be stopped until such conditions have improved or have been corrected.

When possible, operations shall be performed parallel to the contour lines and operations uphill and downhill shall be avoided.

3-2. SEEDING.

3-2.01 Seed Application. Seed shall be applied within 72 hours after preparation of the seedbed. Seed shall be applied with equipment designed to give uniform application. Any method or combination of methods which uniformly distributes the seed directly in contact with the soil, covers the seed, and firms the bed, may be selected. Seed shall be placed approximately 1/4 inch below the surface at a rate of 110 lbs/acre.

3-2.02. Mulching. All seeded areas shall be mulched within 24 hours following seed application. The mulching operation shall be in accordance with the Governing Standard. Mulch shall be placed at a rate of 4,000 lbs/acre.

3-3. HYDROSEEDING. Not used.

3-4. SODDING.

3-4.01. Application of Sod. Sod shall be placed within 72 hours after preparation of the sod bed. Sod shall be cut and moved only when the soil moisture

conditions are such that favorable results can be expected. When the soil is too dry, the sod shall be cut only after Contractor has watered the sod sufficiently to moisten the soil to the depth at which the sod is to be cut.
Care shall be exercised at all times to retain the native soil on the roots of the sod during the process of stripping, transporting, and planting. Dumping from vehicles will not be permitted.
The sod shall be transplanted within 24 hours from the time of stripping, unless stored in a satisfactory manner. During delivery and while in stacks, the sod shall be kept moist and shall be protected from exposure to the air and sun.

Sod shall be laid smoothly, edge-to-edge, and with staggered joints. The sod shall be immediately pressed firmly into contact with the sod bed by tamping or rolling with acceptable equipment so as to eliminate all air pockets, provide a true and even surface, and assure knitting.

Staking is not required, except in ditch flow lines; however, Contractor will be responsible for replacing all sod that is displaced by erosion during the maintenance period. Only wooden (lath) stakes shall be used.

3-5. WATERING.

3-5.01. Seeded Areas. Watering for seeded areas will not be required; however, Contractor shall guarantee a uniform stand of grass by seeding as specified in the Guarantee paragraph.

3-5.02. Sodded Areas. Contractor shall provide all water, labor, and equipment for watering sodded areas. Sodded areas representing one day's planting shall be watered sufficiently to wet the sod pads and at least 2 inches of the sod bed. Thereafter, in the absence of adequate rainfall, watering shall be performed daily and as often as necessary to keep the sod pads moist at all times. Watering of sod shall continue as needed until final acceptance.

3-6. REPLANTING.

3-6.01. Seeded Areas. Unacceptable seeded areas shall be overseeded or completely reseeded as instructed by Engineer. Unless otherwise permitted by Engineer, reseeding shall be performed during the next planting season.

3-6.02. Sodded Areas. Prior to acceptance, sodded areas that show signs of substantial desiccation as evident by a loss of color and a distinct yellowing shall be resodded and shall continue to be resodded until an acceptable sod cover is obtained. Replanting operations shall be as specified except that fertilizer and lime shall be deleted from the operation.

3-7. MAINTENANCE. All areas shall be maintained until final acceptance of the project.

3-7.01. Seeded Areas. Maintenance shall include any necessary reseeding, repair of erosion damage, and replacement of displaced mulch until covered with seedlings. In the event erosion occurs from either watering operations or rainfall, such damage shall be repaired.

3-7.02. Sodded Areas. Original grades of the sodded areas shall be maintained after commencement of planting operations and until acceptance. Any damage to the finished surface shall be repaired. In the event erosion occurs from either watering operations or rainfall, such damage shall be repaired. Ruts, ridges, tracks, and other surface irregularities shall be corrected and areas resodded.

During the maintenance period prior to acceptance, all sodded areas shall be mowed to height of 3 inches as soon as, and each time that, the grass reaches an average height of 5 inches. Clippings shall be collected and removed from the Site.

End of Section

Notes:
(1) Actuators designated "O-C" are for "Open-Close" service. Actuators designated "M" are for "Modulating" service.

(2) Abbreviations for installation types are as follows:

B4	Buried, depth of 4 feet or less
B20	Buried, depth greater than 4 feet but 20 feet or less
SV20	Submerged or vaulted, depth 20 feet or less
IP	In plant

(3) Abbreviations for valve ends are as indicated:

F	Flanged
MJ	Mechanical joint
P	Push-on joint
G	Grooved

(4) Abbreviations for manual actuator types are as indicated:

WN	Wrench Nut
LVR	Lever
CW	ChainWheel
HW	HandWheel

(5) Abbreviations for high pressure side of plug are as indicated:

S	Seating (plug shaft side)
U	Unseating (plug seat side)

(6) Abbreviations for limit switches on manual and cylinder operated valves.

EOT	End of travel (open - close)
PSS	Pump start - stop (two intermediate positions)
ELSCH	See electrical schematics

(7) Abbreviations for electronic or electric actuator housing.

WP	Weatherproof
EXP	Explosion proof

(8) Abbreviations for control devices are as indicated.

Table 1: Control Devices				
Abbreviations	Open-Close Push Button	Open-Stop-Close Push Button	Local-Off-Remote	Red and Green Indicator Lights
A	Required		Required	Required
B	Required		Required	
C		Required	Required	Required
D		Required	Required	
E		Required		
F	Required			
G	Required			Required
H		Required		Required

(10) Abbreviations for electric actuator types are as follows:

SE Standard Electric
IE Intelligent Electric
NE Networked Electric

(11) Abbreviations for remote control station types:

CS Control Station without indicating lights.
CIS Control Station with indicating lights.

END OF SCHEDULE

Attachment 01015A: Preselected Equipment Proposal, Sections 11321 and 11322 – Grit Removal Equipment, Gravity Type and Grit Separation and Classification Equipment

04/11/13

To: **All Bidding Contractors**

Re: **Sections 11321 & 11322**
Grand Island WWTP Improvements
Grand Island, NE
File #09-3694

Hydro International is pleased to present our quote for a Eutek HeadCell® Grit Removal, Classification, Washing, and Dewatering System. The system will meet the requirements described in Sections 11321 & 11322 with comments noted below.

Comments / Exceptions

1. Harmonic filters, output filters, and motor protection relays have not been included in this quote for the Grit Snail® VFD.
2. Local controls panels 8105 shown on AI6 for the influent gates and 8115 shown on AI7 for the pumps are not included in this scope of supply. Hydro's main panels PLC based panels will interact with 8105 and 8115. Only local E-Stop stations for the Eutek Grit Snail® units are included in this scope of supply.
3. Hydro has not supply motor starters or motor power for the influent slide gates on the HeadCell® units.
4. Screening with a 3/4 inch opening or better is necessary prior to the Hydro equipment.
5. Please see the exclusions detailed in the proposal below.

System Performance

The grit removal system shall be designed to remove 85-95% of all grit particles with specific gravity of 2.65 greater than or equal to 150 microns at a total peak design flow of 60.0 mgd.

System Components

1. Two (2) 12' 10 tray Eutek HeadCell® Grit Concentrator unit s shall be supplied. Each Eutek HeadCell® shall consist of a stack of nested trays. The trays shall be fabricated from UV stabilized LDPE and shall be supported by a 304 SS frame integral to the unit. All flow passages shall be self-cleaning and free of sharp projections or fittings that may snag stringy or fibrous materials. The Eutek HeadCell® trays shall be constructed with a minimum ¼ inch material pans and sidewalls. The Tray Supports shall be fabricated to provide a means to independently support each tray and transfer the weight of each tray to the support structure frame. The Eutek HeadCell® will securely fit into a support structure frame containing the screened raw wastewater inlet connection, necessary hardware, and connections. The Eutek HeadCell® Concentrator shall be equipped with a settled solids underflow connection for collection and removal of settled solids. The settled solids are pumped to the Eutek SlurryCup™ Grit Washing units from the each Eutek HeadCell® unit.

   Each unit shall remove 95% of all grit (S.G. 2.65) 150 micron and larger at a peak flow of 30.0 mgd. Each unit shall have 12 inches of headloss at the peak flow.

2. Two (2) 32" Eutek SlurryCup™ Solids Classifier units shall be provided. Each Eutek SlurryCup™ unit shall be fabricated from 304 SS and be self-standing and mounted on a support structure above the

Eutek Grit Snail® clarifier to provide clearance between the bottom of the grit underflow pipes and the Dewatering Unit clarifier surface. Each unit shall have one (1) 6" flanged inlet connection and one (1) 8" flanged outlet connection. Flanges will be rotatable and conform to ANSI B16.1 bolt patterns. Each unit shall have one (1) - 1.5" grit underflow connection, one (1) - 3" threaded drain connection, and one (1) - 1.5" NPT fluidizing water for the Hydraulic Valve. Exterior surfaces shall be acid washed and bead blasted to a uniform finish.

Each unit shall remove 95% of all grit (S.G. 2.65) 75 micron and larger at flow of 280-400 gpm. Each unit shall have a headloss of 15 feet at a flow rate of 300 gpm.

3. Two (2) 2.0 yd^3/hr Eutek Grit Snail® continuous dewatering units shall be supplied. Each unit shall be equipped with a 12" wide rubber belt, 60" square clarifier, and a 1/3 hp inverter duty motor. One (1) 6" flanged overflow discharge connection and one (1) 3" flanged drain connection shall be supplied. Flanges will be rotatable and conform to ANSI B16.1 bolt patterns. Each unit shall be fabricated from 304 SS. The support structure at the head end shall be an A-frame. A flanged discharge chute adaptor shall be supplied.

   Each unit shall remove 95% of all grit (S.G. 2.65) 75 micron and larger with less than 15% volatile solids and greater than 60% total solids.

4. Two (2) control panels shall be supplied. Each control panel shall have a NEMA 4X stainless steel enclosure, and shall be rated at three phase, 480 VAC, 15 amp. Each panel shall be PLC based and contain all relays, timers, switches, Allen Bradley Powerfled 70 variable frequency drive for Eutek Grit Snail®, Allen-Bradley MicroLogix 1400 PLC and Panelview Plus 1000 HMI and indicator lights to operate one (1) Eutek SlurryCup™ unit, one (1) Eutek Grit Snail® unit, one (1) HeadCell® influent slide gate and solenoid valve open/close, one (1) Grit Pump on/off, and one (1) grit pump suction valve open/close, in either fully automated or manual mode.

   a. Additionally, one (1) NEMA 4X E-Stop station for each Eutek Grit Snail® shall be provided.

Utility Requirements

Clarified NPW or Reuse Water:

Each Eutek HeadCell® unit requires continuous 20 gpm @ 50 +/- 10 psig of clarified water for “fluidizing” to function properly.

Each Eutek SlurryCup™ unit requires continuous 30 gpm @ 50 +/- 10 psig of clarified water to function properly.

Each Eutek Grit Snail® unit requires continuous 10 gpm @ 50 +/- 10 psig of clarified water for tail roll and belt rinse.

Each Eutek SlurryCup™ requires an additional intermittent 47 gpm @ 50 psig of clarified water for fluidizing and backwashing for 1-2 minutes every 2-4 hours.

Appurtenances Per Unit

Eutek HeadCell® Grit Concentrator

DESCRIPTION	QTY
Fluidizing Water Throttling Globe Valve 1” Globe Valve, Stainless Steel	1
Fluidizing Water Shut-off Valve 1” Ball Valve, Stainless Steel	1
Fluidizing Water Flow Meter 1” 4-80 Flow Meter, Acrylic	1
Anchor Bolts – Frames	4
Anchor Bolts – Underflow Collectors	4
Anchor Bolts – For Fastening Inlet Duct to Channel	20

Eutek SlurryCup™ Washing Unit

DESCRIPTION	QTY
Supply Water Flow Meter 1-1/2” Flow Meter, 3.5-35 gpm, Stainless Steel	1
Manual System Shut-Off Valve 1-1/2” Ball Valve, Stainless Steel	1
Supply Water Throttling Globe Valve 1-1/2” Globe Valve, Stainless Steel	1
Backwash Water Valve and Supply Water Shut-off 1-1/2” Solenoid Valve, Stainless Steel (NEMA 4X, 120VAC)	2
System Water Supply Pressure Gauge 0-100psi, w/ Diaphragm Seal	1
Inlet Pressure Gauge 0-30psi, w/ Diaphragm Seal	1
Backwash Pressure Gauge 0-30psi, w/ Diaphragm Seal	1
Gauge Isolation Valves ¼” Ball Valve, Stainless Steel	3

Eutek Grit Snail® Dewatering Unit

DESCRIPTION	QTY
Rinse water Valve 1” Solenoid valve, Stainless Steel (NEMA 4X, 120VAC)	1
Manual Water and Tail Rinse Shut-off Valve 1” Ball Valve, Stainless Steel	2
Tail Rinse Flow Meter 1" Flow Meter, 1-10 gpm, Acrylic	1

Tail Rinse Throttling Valve 1” Globe Valve, Stainless Steel	1
Rinse Bar Shutoff Valves ¾” Ball Valve, Stainless Steel	1
Drain Valve 3” Eccentric Plug Valve, Cast Iron	1
Inductive Proximity Sensor	1
Inverter Duty Drive Motor 1/3 hp, 3 phase 230/460 VAC Motor, TENV	1
Gear Reducer	1
Anchor Bolts – Grit Snail® Frames	8

Spare Parts
No spare parts are included or recommend in this scope of supply.

Start-up
One (1) man, three (3) trips, for start-up and instruction services as required totaling six (6) days.

Seismic Analysis
Seismic anchorage and bracing calculations in accordance with specification section 01611.

Exclusions
Any item(s) not specifically described above are excluded and are not to be supplied by Hydro International including but not limited to the following:

- Erection and installation
- Interconnecting piping and valving not expressly stated above
- Pipe connections and fittings not expressly stated above
- All pipe supports, hangers and braces
- Controls, switches, control panels and instrumentation of any kind not expressly stated above
- Wiring and conduit
- Field or touch-up paint, painting, blasting and touch-up of surface finish
- Spare parts not specifically stated above
- Unloading, hauling and storage charge
- Lubricating oil and greases
- Field performance testing, laboratory testing and sample collection and analysis
- All concrete and grouting work
- Insulation and heat tracing of any kind
- Seismic analysis
- Dumpsters of any kind
- Grit pump(s)/pump motor starters/VFD, associated piping and valving
- Access platforms, walkways, ladders, covers
- Grit Study
- Extended discharge chutes
- PLC and HMI software licenses
- Influent slide gates and associated motor starters.
- Local control panels 8105 and 8115

Limitations
- General Liability is limited to $2,000,000 per each occurrence
- Products Completed & Operations Liability is limited to $2,000,000 per each occurrence
- Worker’s Compensation is limited to $1,000,000 per each accident

Warranty
Hydro International's Standard Warranty shall apply per the attached Terms and Conditions of Sale.

Delivery
Please allow 4 weeks after receipt of purchase order for approval drawings. Shipment is typically a maximum of 16 weeks after receipt of "Approved" or "Approved As Noted, Resubmittal Not Required" submittal package. The grit removal system shall be delivered to site fully fabricated, subject to size, packaging and transportation constraints. The General Contractor shall inspect equipment prior to unloading and notify Hydro International of any damage to equipment to effect proper remedial action. Failure to notify Hydro International of damage to equipment prior to unloading will void all warranties pertaining to subject equipment.

Terms & Conditions
Hydro International payment terms are detailed in the attached terms and conditions. Price includes truck freight to jobsite and does not include any state or local taxes if required. The prices quoted are firm based on a receipt of a purchase order by September 22, 2013 and shipment of the equipment prior to March 9, 2014.

Purchase Order
Please make purchase orders to:
Hydro International
2925 NW Aloclek Drive
Suite #140
Hillsboro, OR 97124

Local Representative
Mr. Brittany Travers
Water Technology Group Midwest
643 N. 98th Street, MB 145
Omaha, NE 68114
Ph: (402) 201-2023
Mobile: (402) 880-0321
Fx: (888) 421-2856
brittany@wtgmidwest.com

If you have any questions or concerns, do not hesitate to contact me.

Regards,
Hydro International

Lindsey Schweitzer
Sr. Applications Engineer

Standard Terms & Conditions of Sale

1. **DEFINITIONS**. "Hydro" is Hydro International Wastewater, Inc., with an address of 2925 NW Aloclek Drive #140 in Hillsboro, Oregon. "Buyer" is the party purchasing the goods from Hydro.

2. **GENERAL.** Hydro's agreement is based on these terms and conditions of sale. This document, together with any additional writings signed by Hydro, represents a final, complete, and exclusive statement of the agreement between the parties and may not be modified, supplemented, explained, or waived by parol evidence, Buyer's purchase order, any course of dealing, Buyer's payment or acceptance, or in any other way except in writing signed by Hydro through its authorized representative. These terms and conditions are intended to cover all activity of Hydro and Buyer hereunder, including sales and use of products, parts, and work, and all related matters (references to products include parts and references to work include construction and installation). Hydro's obligations hereunder are expressly conditioned on Buyer's assent to these terms and conditions. Hydro objects to any terms that are different from, or additional to, these terms and conditions. Any applicable detail drawings and specifications are hereby incorporated and made a part of these Terms and Conditions of Sale insofar as they apply to the material supplied hereunder.

3. **SPECIFICATIONS.** Products are supplied in accordance with information received by Hydro, or its duly authorized agent, from Buyer. Hydro shall have no responsibility for products created or sold based upon inaccurate and/or incomplete information supplied to it. Buyer shall ensure that Hydro receives all relevant information in time to enable it to supply the appropriate products.

4. **INSTALLATION AND APPLICATION OF PRODUCTS.** Products supplied hereunder shall be installed and used only in the particular application for which they were specifically designed. Buyer should not presume that any products supplied by Hydro may be utilized for any applications other than those specified; nor shall Hydro's obligations, including, without limitation, any warranty obligations, survive Buyer's transfer of products supplied hereunder to third parties unless the products are transferred with Hydro's consent. In addition, Buyer shall not use any product supplied hereunder at any location other than at the location for which Hydro has previously received notice from Buyer. Any breach of any of the foregoing restrictions may amount to an infringement of the patent for the products in question and will in any event void all express or implied warranties relating to the products supplied hereunder.

5. **PURCHASE PRICE AND PAYMENT TERMS.** All prices are in U.S. dollars and all payments shall be made in U.S. dollars. Payment terms are as follows:

	Incremental Payment	Cumulative Payment
Upon Approval of Shop Drawings	10%	10%
Upon Delivery of Equipment to Site	80%	90%
Upon Final Acceptance or 45 days following completion of equipment start up	10%	100%

If payments are not made in conformance with the terms stated herein, any unpaid balance shall be subject to interest at a rate 1½% per month, but not to exceed the maximum amount permitted by law. If shipment is delayed by Buyer, the previously agreed date of readiness for shipment shall be deemed to be the date of shipment for payment purposes. If manufacture is delayed by Buyer, a payment shall be made based on purchase price and percentage of completion, with the balance payable in accordance with the terms as stated. If at any time in Hydro's judgment Buyer may be or may become unable or unwilling to meet the terms specified, Hydro may require satisfactory assurance or full or partial payment as a condition to commencing, or continuing manufacture, or in advance of shipment.

Until payment in full has been received by Hydro, this Standard Terms and Conditions of Sale shall constitute a security agreement and Buyer hereby grants Hydro a purchase money security interest in and to the products produced by Hydro hereunder, and any products or proceeds thereof. In particular:

(i) Hydro will retain an express purchase money security interest in and to the products and all proceeds thereof.

(ii) Until full payment for the products is received by Hydro, Hydro reserves the right to retake possession of the products at any time and for this purpose Buyer authorizes Hydro or its duly authorized agent to enter upon land or premises where it believes the product may be.

(iii) Proceeds of any disposal of the products shall be held in trust for Hydro pursuant to the terms of the Maine Uniform Commercial Code.

(iv) Buyer grants Hydro a power of attorney for the purpose of filing a UCC-1 financing statement in the name of Buyer to evidence Hydro's security interest in the products.

6. **BACKCHARGES.** In the event that Buyer is required to make repairs, corrections or modifications to the goods supplied by Hydro, it shall only do so upon written approval from Hydro. Backcharges shall be limited to the costs directly associated in making the repairs, corrections or modifications to the goods supplied by Hydro. The costs of such backcharges shall be subject to approval by Hydro and shall be limited to: (1) directly related labor and material costs, (2) directly related equipment and tool rental at prevailing rates in the project location and (3) Buyer's overhead & supervision costs to make repairs, corrections or modifications to the goods

supplied by Hydro. Buyer shall submit complete documentation to Hydro's satisfaction including but not limited to labor time sheets, material lists, and rental fees detailing the nature of the back charges. Backcharges shall be in the form of an adjustment to the contract price or reduction in retained payments and not a direct payment. No incidental or consequential backcharges shall be allowed.

7. **DELIVERY.** The goods are sold F.O.B. manufacturing site, freight prepaid to Buyer at job site. Except as outlined in Paragraph 8 below, the risk of loss passes to Buyer after Hydro delivers the goods to the carrier. Hydro reserves the right to select the method of shipment and carrier. Delivery dates are approximate only and are not a guarantee of delivery on a particular day. Hydro is not liable for failure or delays in deliveries of any cause whatsoever beyond the control of Hydro.

8. **TITLE & INSURANCE:** Title to the product(s) and risk of loss or damage shall pass to Buyer upon delivery to a carrier as outlined in Paragraph 7 above, or, in the event Buyer delays shipment, by the previously agreed date of readiness for shipment, except that a security interest in the product(s) or any replacement shall remain in Hydro's name, regardless of the mode of attachment to realty or other property, until the full price has been paid in cash. Buyer agrees to protect Hydro's interest by adequately insuring the product(s) against loss or damage from any external cause with Hydro named as insured or co-insured.

9. **ERECTION:** Unless otherwise stated in writing, the goods provided hereunder shall be assembled and erected by and at the expense of Buyer.

10. **CANCELLATION & BREACH:** Orders placed cannot be canceled, nor shipments of goods made up, or in process, be deferred beyond the original shipment dates specified, except with Hydro's written consent and upon terms which shall indemnify Hydro against all loss. In the event of cancellation or the substantial breach of Buyer's obligations, as by failing to make any of the payments when due, the parties agree that Hydro will suffer a serious and substantial damage that will be difficult, if not impossible, to measure, both as of the time of entering into this purchase agreement and as of the time of such cancellation or breach. Therefore, the parties agree that, upon such cancellation or breach, Buyer shall pay to Hydro the sums set forth herein below, which sums the parties do hereby agree shall constitute agreed and liquidated damages in such event:

    - If cancellation or breach shall occur after the acceptance of the purchase order but prior to mailing of submittal documents by Hydro to Buyer, liquidated damages shall be 10% of the selling price.
    - If cancellation or breach shall occur within thirty (30) days from the mailing of submittal documents by Hydro to Buyer, the liquidated damages shall be 20% of the selling price.
    - If the cancellation or breach occurs after thirty (30) days from the mailing of submittal documents by Hydro to Buyer, but prior to notification that the order is ready for shipment, the liquidated damages shall be the total of 30% of the selling price plus the expenses incurred, cost of material, and reasonable value of the work expended to fill the order involved herein by Hydro's engineers and other employees, agents and representatives after the mailing of general arrangement drawings by Hydro to Buyer, said sums to be determined at the sole reasonable discretion of Hydro; provided, however, that the total liquidated damages under this provision shall not exceed the total selling price.
    - If cancellation or breach shall occur after Hydro has notified Buyer that the order is ready for shipment, then the liquidated damages shall be the total selling price, less costs associated with startup or field testing.

11. **MATERIALS OF CONSTRUCTION, PAINTS AND COATINGS:** Buyer is responsible for determining the suitability of, and for giving final approval of, the materials of construction, paints, coatings, etc. to be used by Hydro.

12. **WARRANTY:** Any product that proves defective in material, workmanship or design within twelve (12) months after delivery (or entry into storage) will be, at the discretion of HYDRO, modified, repaired or replaced, or Buyer's payment for the products will be refunded. This shall be Buyer's sole remedy. HYDRO EXPRESSLY EXCLUDES AND DISCLAIMS ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTIES, EXPRESS OR IMPLIED.

    This warranty does not cover any defects or costs caused by: (1) normal wear and tear of equipment from designed operation. (2) modification, alteration, repair or service of the goods by anyone other than Hydro; (3) physical abuse to, or misuse of, the goods, or operation thereof in a manner contrary to Hydro's instructions; (4) any use of the goods other than that for which they were intended; (5) chemicals or components which were not disclosed to Hydro; (6) storage contrary to Hydro's instructions; or (7) failure to maintain the goods in accordance with Hydro's instructions.

    This warranty does not apply to component parts of the goods that were not both originally designed and manufactured by Hydro, including, but not limited to, valves and controls. These component parts do not carry any warranties by Hydro, and only carry the warranties, if any, of their manufacturers.

    In order for Buyer to make a claim under this warranty, Buyer must promptly, and within the warranty period, notify Hydro in writing of any defect(s) in the goods covered by this warranty. If any defect(s) in the goods covered by this warranty are visible at the time of delivery, Buyer must notify Hydro of the defect(s) in writing within five working days. To make any claim under this warranty, Buyer must also fully comply with written authorization and return instructions from Hydro.

13. **FIELD SERVICE:** Startup/Field Service will only be scheduled upon written request. Buyer shall notify Hydro of schedule requirements at least ten (10) working days in advance, or additional charges may be added to cover late-scheduled travel costs. Additional costs will be limited to those arising out of late-scheduled costs. Should Buyer have outstanding balances due Hydro, no startup / field service will be scheduled until such payments are received by Hydro. Hydro will send documents to Buyer defining the service or startup requirements. Buyer assumes all responsibility for the readiness of the system when it requests startup service. Should Hydro's Field Service Engineer arrive at the jobsite and determine that the system cannot be started up within a reasonable

time, Hydro shall have the option to bring the Field Service Engineer home and bill Buyer for time, travel and living expenses. Additional field service is available from Hydro at the prevailing per-diem rate at the time of the request for service plus all travel and living expenses, portal-to-portal. A purchase order or change order will be required prior to scheduling this additional service.

14. **LIMITATION OF HYDRO'S LIABILITY.** Hydro assumes no liability or responsibility for the misuse of its products by Buyer, Buyer's employees, agents or assigns, or other use inconsistent with the use appropriate to the performance specification requirements submitted to Hydro, and Buyer agrees to indemnify and hold harmless Hydro for any loss, costs, expense or liability that it may incur or be put to as a result of misuse or inconsistent use of the products. In addition, Hydro shall have no liability to Buyer for any consequential or incidental damages incurred by Buyer in connection with the contract documents or the products purchased by Buyer. Hydro shall not be liable for any loss which results from delay in delivery caused by any reason beyond its control, including, but not limited to, acts of God, casualty, civil disturbance, labor disputes, strikes, transportation or inability to obtain materials or services, any interruption of its facilities, or act of any governmental authority. The time for delivery shall be extended during the continuance of such conditions.

15. **CONFIDENTIAL INFORMATION.** The information contained herein and in related contract documents is considered proprietary and confidential information. Buyer agrees to keep such information confidential and not to disclose such information to third parties.

16. **INTERPRETATION OF CONTRACT.** This contract shall be construed according to the laws of the State of Maine.

17. **CHOICE OF FORUM.** Buyer and Hydro hereby consent and agree that the United States District Court for the District of Maine or the District Court or Superior Court located in the City of Portland, County of Cumberland, Maine will have exclusive jurisdiction over any legal action or proceeding arising out of or relating to the contract documents, and each party consents to the personal jurisdiction of such Courts for the purpose of any such action or proceeding. Buyer and Hydro further hereby consent and agree that the exclusive venue for any legal action or proceeding arising out of or relating to the contract documents will be in the County of Cumberland, Maine. Each party hereby waives all rights it has or which may hereafter arise to contest such exclusive jurisdiction and venue.

18. **ATTORNEYS' FEES.** If any judicial or non-judicial proceeding is initiated for the purpose of enforcing a provision of this contract, the prevailing party shall be awarded reasonable attorneys' fees in addition to all other costs associated with the proceeding, whether or not the proceeding advances to judgment.

19. **SEVERABILITY.** If any provisions of this contract are held invalid by a court of competent jurisdiction, the remainder of this contract shall not be rendered invalid, and such invalid provisions shall be modified, in keeping with the letter and spirit of this contract, to the extent permitted by applicable law so as to be rendered valid.

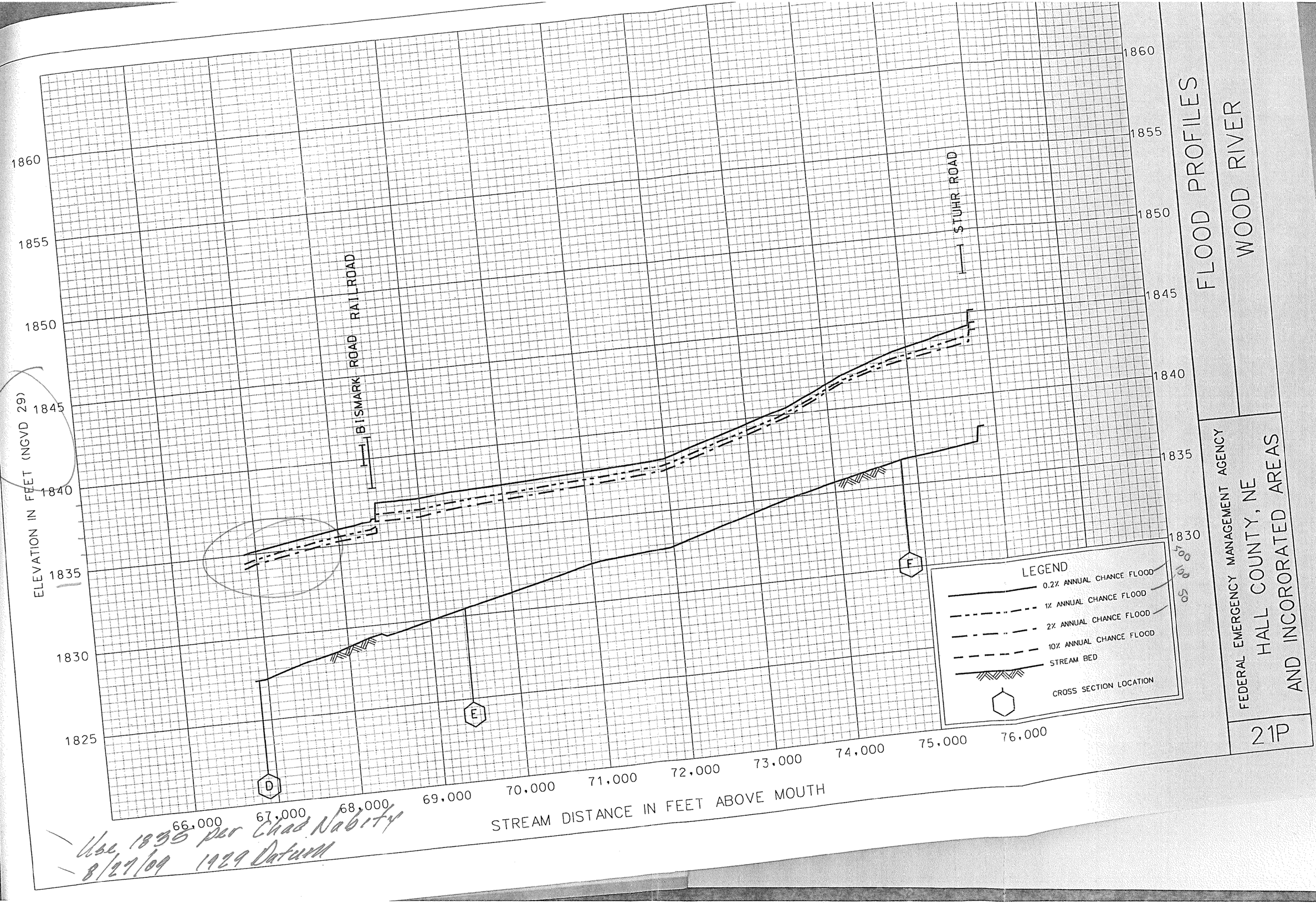
20. **ANTI-BRIBERY.** Hydro International will not engage in any form of bribery or corruption. The offering, giving or receiving of bribes is contrary to Hydro International's values and can play no part in the way in which it carries out its business. Hydro requires you to support our approach and implement provisions consistent with our policy through your own organization and your supply chain. Please find a copy of our Anti-Bribery and Corruption Policy on our website at http://plc.hydro-intl.com/content/view/296/247/

Firm Pricing

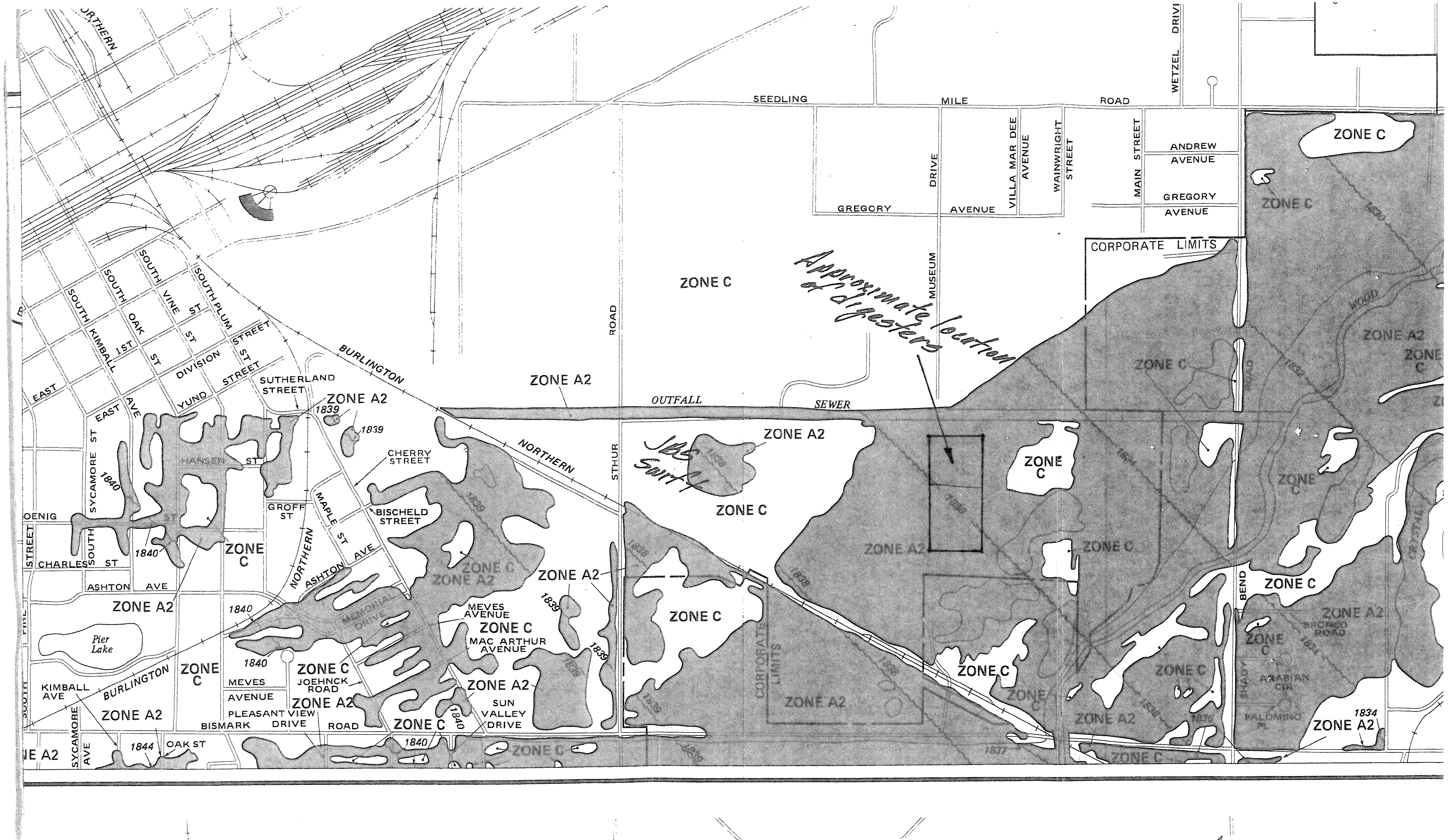
Project Name:	Grand Island, NE WWTP	Date Prepared:	April 11, 2013
Project Number:	09-3694	Validity:	September 22, 2013
Representative:	Water Technology Group Midwest	Engineer:	Black & Veatch

Equipment	Quantity	Price
Primary Grit Removal 30 mgd/unit		
12 ft. 10 Tray 150 micron Eutek HeadCell® Grit Removal unit	2	
Eutek HeadCell® inlet flow distribution header, 304 Stainless Steel	2	
Grit slurry underflow collector, 304 Stainless Steel	2	
Grit Classifying and Washing		
32" Eutek SlurryCup™ : 304 Stainless Steel, w/ Hydraulic Valve	2	
Valves, gauges, plumbing, and single-point water connection	2	
Grit Dewatering		
2.0 yd^3/hr Eutek Grit Snail®: 304 Stainless Steel, 12" Belt, 60" Clarifier	2	
Complete with drive unit, valves , odor control cover	2	
Valve Upgrade for SlurryCup/Grit Snail equipment		
Upgrade solenoid valves to 304 stainless steel in lieu of brass	2	
Control Panel		
NEMA 12, 304 Stainless Steel Enclosure, 480 VAC, Three Phase, VFD	2	
Allen-Bradley MicroLogix 1400 PLC and Paneview Plus 1000 HMI		
Teleconference software coordination meeting		
Local Station		
Local emergency stop station for Eutek Grit Snail®	2	
Anchor Bolts		
316 Stainless Steel Anchor Bolt set for Eutek HeadCell® unit	2	
316 Stainless Steel Anchor Bolt set for Eutek Grit Snail® unit	2	
Equipment Subtotal		$649,200.00
Freight		
Freight to jobsite	1	$35,800.00
Start-up		
One (1) factory representative for three (3) trips for a total of six (6) days	1	$9,000.00
Total Firm Price:		**$694,000.00**

Terms & Conditions: As defined by Hydro International standard Terms & Conditions.



Use 1835 per Chad Nabity
8/27/09 1929 Datum


SEEDLING MILE ROAD
WETZEL DRIVE
ANDREW AVENUE
GREGORY AVENUE
VILLA MAR DEE AVENUE
WAINWRIGHT STREET
MAIN STREET
MUSEUM DRIVE
CORPORATE LIMITS
Approximate location of digesters
ZONE C
ZONE A2
STHUR ROAD
OUTFALL SEWER
BURLINGTON NORTHERN
JBS Swift
NORTHERN
SOUTH VINE ST
SOUTH PLUM ST
SOUTH OAK ST
SOUTH KIMBALL ST
1ST ST
DIVISION STREET
YUND STREET
EAST AVE
SUTHERLAND STREET
CHERRY STREET
HANSEN ST
SYCAMORE ST
GROFF ST
MAPLE ST
BISCHELD STREET
ASHTON AVE
CHARLES ST
KOENIG
PINE STREET
Pier Lake
MEMORIAL DRIVE
MEVES AVENUE
MAC ARTHUR AVENUE
JOEHNCK ROAD
PLEASANT VIEW DRIVE
BISMARK ROAD
SUN VALLEY DRIVE
KIMBALL AVE
OAK ST
WOOD
BEND ROAD
BRONCO ROAD
ARABIAN CIR
PALOMINO PL
SHADY
1834
1837
1838
1839
1840
1844

29 Datum

PRE-BID CONFERENCE MINUTES

City of Grand Island, NE
Grand Island WWTP
Headworks Improvements
City Project WWTP-2013-1

B&V Project 175144
OA Project 011-2347
B&V File 80.1120
April 11, 2013

These minutes are for general information only, and are <u>NOT</u> included in the Contract Documents for the project.

A mandatory pre-bid conference was held on April 9, 2013 at 2:00 p.m. at the Grand Island City Hall, Community Meeting Room. A copy of the pre-bid conference attendance list is attached to these minutes.

1. Introductions and Project Overview. City of Grand Island, Black & Veatch, and Olsson personnel were introduced. A graphic showing the primary roles and responsibilities for the Owner and Engineer project team personnel for the construction phase of the project was distributed and briefly discussed. A copy of the graphic is attached to these minutes.

2. Description of Project *(Invitation to Bid; Section 01015).* An annotated version of Drawing BC8 was presented to show the project site and major facility locations.
    a. New Headworks Facilities to Replace Existing
        i. Raw Wastewater Pump Station
        ii. Influent Meter Vault
        iii. Grit Facility
        iv. Flow Distribution Structure
    b. New Ancillary and Support Facilities
        i. Electrical Building
        ii. Engine-Generator
        iii. Odor Control Systems
        iv. Non Potable Water System
        v. Septage Receiving Area
        vi. JBS Meter and Sampler Building
    c. Sitework, Piping, and Utility Improvements
        i. Septage Receiving Area
        ii. North, West, and South Interceptors
        iii. Re-routing Plant Drain and Filtrate to New Pump Station

    The above items essentially comprise the work to be completed for the Intermediate Construction Milestone.
    d. Demolition of Grit Basins, Modifications to Primary Clarifiers and Completion of Flow Distribution Structure. This work cannot be undertaken until the new facilities are operational with wastewater. Partial demolition of the grit basins is required to allow the new clarifier influent lines to be installed and to install new electrical conduit to the flow distribution structure. De-gritted wastewater will be bypassed to the aeration basins while the clarifiers are out-of-service. This work must be finished to achieve Substantial Completion.

    e. Modifications to Existing Raw Wastewater Pumping Station, Demolition of

Parshall Flume and Sampler Building. This work can be completed after Substantial Completion.

3. Project Schedule *(Invitation to Bid; Section 00500, Article 3)*

• Bid Opening	April 25, 2013, 2:00 p.m.
• Notice of Award	May 14, 2013 (Anticipated)
• Notice to Proceed (NTP)	Early June 2013 (Anticipated)
• Intermediate Construction Milestone	580 calendar days from NTP
• Substantial Completion	640 calendar days from NTP
• Final Completion	730 calendar days from NTP

4. Bidder Qualifications Changes *(Section 00080 and 00100.3.1)*
   a. Acceptable projects include those at municipal water and wastewater treatment facilities of $6,000,000.00 or larger. At least one project must include installation of headworks equipment and similar facilities.
   b. EMRs from last three years to be provided on insurance company letterhead.
   c. Changes to be included in Addendum No. 1.

5. Bid Forms/Submission of Bids *(Section 00400)*
   a. Submit to City Clerk at the Grand Island City Hall.
   b. Lump sum bid with unit price items and estimated quantities (Lump Sum Base Bid). Refer to item 12 below for additional discussion.
   c. Bid alternatives. Not necessary to include price for all bid alternatives, but is encouraged.
   d. Bid evaluations to consider lump sum base bid and any order or combination of bid alternatives to provide best value to City *(Section 00100, Article 20.3).*

6. Items to Be Submitted with Bid
   a. Bid Form (If corporation, attach a separate document with corporate seal and certification).
   b. Bid Security (submitted in a separate envelope attached to the outside of the bid envelope).
   c. Certificate of Compliance Fair Labor Standards.
   d. Evidence of Bidder's Qualifications to do Business in Nebraska.
   e. Equipment Questionnaire.
   f. List of Subcontractors.
   g. Bidder Checklist Form and Exceptions Page.
   h. Bidders Qualifications.
   i. Two copies of everything except Bid Security. One set of information may be the original with one set as a copy.

7. Items to be Submitted after Bid Opening (If Requested)
   a. AGC Document No. 220 Contractor Qualifications *(Section 00100, Article 26).*
   b. Subcontractor Qualifications *(Section 00100, Article 25).*

8. Examination of Previous Contract Documents and Site Visit / Questions

a. Grand Island Contact: Jue Zhao (308) 385-5430; provide 24 hours notice.
b. Any questions are to be directed to Jue Zhao via e-mail with copy to Nathan White as noted in the Instructions to Bidders.

9. Substitutes and "Or-Equal" Items *(Section 00100, Article 11.1)*
    a. These items will only be reviewed for acceptance after the Effective Date of the Agreement.

10. Liquidated Damages *(Section 00500, Article 3.03)*
    a. Substantial Completion, $1,000/day *(refer to Section 00700, Article 14.04.A.1 for definition).*
    b. Intermediate Construction Milestone and Final Completion, $600/day .

11. Project Requirements *(Section 01015)*
    a. Other Construction Contracts & Coordination *(Articles 2 & 3).*
        i. North Interceptor Contract is on same schedule for bidding and commencement of construction. The new North Interceptor will terminate at a junction structure near the new Raw Wastewater Pump Station on the WWTP site. Refer to Drawings for extent of North Interceptor project.
    b. Work by Public Utilities *(Article 4).*
        i. Transformer and primary conductors provided and installed by Grand Island Electrical Utilities Dept.
    c. Work by Owner/Items Furnished by Owner *(Article 5).*
        i. Owner will drain and provide initial cleaning of existing facilities to be modified.
        ii. SCADA system programming and configuration by Engineer's Consultant (Dakota Hogback).
        iii. Two influent pumps provided by Owner for installation by Contractor.
        iv. Composite samplers provided by Owner for installation by Contractor.
        v. Dumpsters at Raw Wastewater Pump Station and Grit Facility provided by Owner.
    d. Operation of Existing Facilities *(Article 11).*
        i. All facilities must remain in operation during construction, unless specified otherwise. Schedule shutdowns in advance during periods of minimum service demands.
    e. Pre-Selected Equipment *(Article 15).*
        i. Proposals from equipment suppliers will be provided by addendum.
    f. City Building Permit *(Article 24).*
        i. Contractor is responsible for obtaining permit and paying fee.
        ii. Contact Craig Lewis for fee.
    g. NDEQ Construction Permit *(Article 25; Attachment A).*
        i. Application has been submitted. No fees. NDEQ verbally indicated that approval is forthcoming after receipt of addenda.

    h. NDEQ NPDES Storm Water Discharge Permit and SWPPP *(Article 26;*

Attachment B).

i. Engineer's Consultant has prepared draft Storm Water Pollution Prevention Plan (SWPPP). Will submit Notice of Intent. No fees
ii. Contractor to implement SWPPP and erosion control measures on the Drawings.
iii. Contractor to submit Notice of Termination following construction.

i. City Dewatering Permit *(Article 27).*
   i. Owner has general permit from NDEQ (see Attachment C).
   ii. Contractor to obtain NDEQ NPDES permit as needed for groundwater discharges and pay any fees.
   iii. See item 18.c for additional discussion.
j. Overexcavation Requirements *(Article 28).*
   i. Most new structures, piping, and concrete drives located within former sludge storage lagoon. Former lagoon has been partially backfilled with sandy soils that have varying strengths and densities. Soils to be removed to former lagoon bottom (El, 1825.0). Excavated soils can be re-used, if suitable, and compacted (select fill).
k. New Raw Wastewater Pump Station, Grit Facility, and Flow Distribution Intermediate Construction Milestone *(Article 29)* as discussed above. Definition is included in Article 29.
l. Schedule Requirements and Proposed Sequence *(Article 30)* as partially discussed above. Primary clarifiers cannot be out-of-service for more 45 calendar days. Refer to Article 30 for additional discussion.
m. Use of premises paragraph includes restrictions to limit site disturbance. These restrictions were inadvertently and were based on LEED projects *(Article 34).* Changes will be included in an addendum.

12. Measurement and Payment *(Section 01025)*
    a. Lump Sum Base Bid, Item 1.0 and Unit Price Items, Items 2.0 through 14.0 outlined in Article 4 comprise the Total Lump Sum Base Bid. Descriptions for overexcavation items (2.0 through 7.0) include work to be included in Item 1.0 of Bid Form and what work is required if unit price work is directed by Engineer based on geotechnical observation. Items 8.0 through 10.0 include the addition of crushed rock, geogrid, and geotextile, respectively, to stabilize sub-grades if directed by Engineer. Items 11.0 through 13.0 cover the non potable well work. Item 14.0 covers concrete crack repair directed by Engineer.
    b. Bid alternative descriptions are included in Article 5, which include alternative pipe materials for the interceptors (Items 1.0 and 2.0), de-gritted wastewater line (Item 3.0), and plant drain piping (Item 4.0). Item 5.0 covers the two (2) year correction period (one (1) additional year).

13. Submittals Procedures *(Section 01300)*
    a. Electronic shop drawings and O&Ms are required.
    b. Project website will be established by Engineer.
    c. Engineer's review is twenty one (21) calendar days.
    d. Submittals and resubmittals are limited two hundred and ten (210)

(excludes O&Ms).

e. Contractor to reimburse Owner for Engineer's review of submittals and resubmittals greater than two hundred and ten (210).
f. Contractor to provide hard copies of submittals after Engineer's review.

14. Construction Progress Schedule *(Section 01310)*
    a. Primavera P6 scheduling software is required.
    b. Cost-loaded schedule is required and will be used for monthly payment applications.
    c. Monthly electronic submittals are required for review by Engineer.

15. Quality Control *(Section 01400)*
    a. Testing by Contractor is covered in Article 1.01.
    b. Testing and Special Inspections by Engineer/Engineer's Consultant is covered in Article 1.02.

16. Temporary Facilities *(Section 01500)*
    a. Contractor is responsible for all temporary facilities as specified in Section 010500:
        i. Office at the Site, including RPR Offices (*Article 1*)
        ii. Potable Water *(Article 2)*
        iii. Power *(Article 3)*
        iv. Voice and Data Services *(Article 4)*
        v. Sanitary Facilities (*Article 5*)
        vi. Security *(Article 10)*
    b. Non potable water would be available from Owner well onsite, but would require pumps and power, or from the new wells under this Contract.

17. Startup Requirements *(Section 01650)*
    a. Qualified startup manager by Contractor required to oversee startup team *(Article 3).*
    b. Functional testing to be performed with non potable water (*Article 5.02).*
    c. Functional acceptance testing required (*Article 5.03).*
    d. Operational acceptance testing to be performed with wastewater, 7 days durationfor both the Intermediate Construction Milestone and Substantial Completion *(Article 7).*

18. Civil/Sitework
    a. Contractor Staging Areas *(Drawing BC8).* An aerial photo of the WWTP site was presented to show surrounding areas and acceptable staging areas. A separate construction entrance is required, particularly for deliveries.
    b. Construction Sequencing and Bypass Pumping *(Section 02070)*
        i. Existing South Interceptor and New De-Gritted Wastewater Line *(Drawing BC33).*
        ii. Existing South Interceptor and New Sanitary Sewer/Plant Drain *(Drawing BC31).*
        iii. Bypass pumping requirements.

c. Excavation and Fill for Structures *(Section 02200)*
    i. Off-site fill material required. Contractor to provide source *(Article 2-1.03).*
    ii. Select fill/excavated materials to have LL < 45, PI < 25 *(Article 2-1.06).* Based on review of geotechnical borings, excavated materials should be able to be used for select fill as well as for structure backfill.
    iii. Dewatering requirements (*Articles 1-3.05, 1-3.06 & 3-2.06)*
        - Plans to be sealed by Nebraska P.E.
        - 1,000 gpm (max) to be diverted to Greer Lake (residence).
        - Owner to provide sample bottles and lab testing of discharge.
        - Admin Bldg #2 pre- & post-construction survey and monitoring.

19. Other Technical Specifications and Requirements
    a. Seismic and Anchorage Design Changes *(Sections 01610, 01611, and 05550)* will be addressed via addendum. Basically, sealed Nebraska P.E. drawings for anchorage and seismic design analysis will not be required. This project is in Seismic Design Category A, therefore no seismic design is applicable. Sealed Nebraska P.E. drawings will be required for exterior equipment with regards to wind anchorage.
    b. Cast-in-Place Concrete *(Section 03300)*
        i. Specifications and submittals have strict requirements that will be followed as indicated in the documents.
        ii. A1 structural concrete required for most structures.
        iii. Fly ash, if used, should be Class F, or Class C that passes ASTM C1012 testing for moderate sulfate resistance, except loss on ignition shall not exceed 4 percent.
        iv. Specific testing such as shrinkage and alkali-aggregate reactivity tests are required; therefore the cost and time for these items should be included.
        v. There are additional requirements for liquid-containing structures.
    c. Concrete Forming (*Section 03100)*
        vi. No tapered form ties are allowed.
    d. Mass Concrete *(Section 03700)*
    e. Overhead Rolling Doors *(Section 08331)*
        i. Only two acceptable suppliers (Cornell and Overhead Door).
        ii. Two-year warranty specified.
    f. Elastomeric High-Solids Urethane Lining Systems *(Section 09886)*
        i. Extensive coating applicator and coating supplier field service requirements.
        ii. Areas to be covered at all times.
    g. Protective Coatings *(Section 09940)*
        i. Exterior monorail frame at Raw Wastewater Pump Station requires field-painting of the galvanized steel.
    h. Instrumentation and Control System *(Division 13)*
        i. Supply of equipment by Contractor, SCADA system programming and configuration by Engineer's Consultant (Dakota Hogback).

20. Miscellaneous
    a. Drug Free Workplace Policy *(Section 00700, Article 6.02.A)*
        i. Contractor to have and maintain a Drug Free Workplace Policy.
    b. Working Hours *(Section 00700, Article 6.02.C)*
        i. Regular working hours between 7:00 am and 6:00 pm, excluding Saturdays, Sundays, and holidays.
    c. Taxes *(Section 00700, Article 6.10)*
        i. Exemption certificate and the Purchasing Agent Appointment form are included in the specifications.
    d. Safety and Protection *(Section 00700, Article 6.13)*
        i. Contractor shall be solely responsible for safety in connection with the Work.
        ii. Work in confined spaces will be required. Contractor is responsible for maintaining a confined space entry program per 29 CFR Section 1910.146, "Permit-Required Confined Spaces". Owner has its own program. Will be added via addendum.
    e. Access to Work *(Section 00700, Article 13.02.A and C)*
        i. Contractor to provide safe conditions for access for inspections.
    f. Smoking Restrictions/Designated Areas.
        i. No smoking is allowed in City of Grand Island buildings, including those at the WWTP.
        ii. Owner does not have restrictions on exterior smoking areas at this time.

21. Addenda
    a. These minutes are attached to Addendum No. 1. Addendum No. 2 is planned for third week of April.
    b. Acknowledge Receipt of Addenda on Bid Form *(Section 00400, Article 3.01.A).*

22. Questions. The following questions were asked at the conference and the following responses were provided.

    Question: Hot weather temperature requirements for mass concrete may not be able to be achieved without liquid nitrogen and it is not available locally.

    Answer: Provisions for temperature control must be followed. Consult with bidding contractors regarding approximate schedule for this work and how these requirements should be handled.

A plant tour was not conducted due to inclement weather. Bidders were allowed to stop by WWTP site.

Attachments:
Pre-Bid Conference Attendance List
Graphic of Responsibilities

HEADWORKS IMPROVEMENTS; PROJECT WWTP-2013-1
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April 9, 2013

NAME	COMPANY	ADDRESS	EMAIL	PHONE #
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Fred Trusty	City of GI	P.O. Box 1968		308-390-5503
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Chris deCathelineau	S. J. Louis Const. Inc	Box 459 Rockville, MN 56369	Kaykapals@sjlouis.com	320-253-9291 Ext. Pipe 361 Sub
Jim MAhony	Hobas Pipe	12701 W 129th Street Overland Park KS 66213	JMAhony@hobaspipe.com	515-306-6000
Jamie Simmermann	Vankirk Bros.	1200 W ASH ST. SUTTON, NE 68979	jamie@vkbros.net	402-773-5250
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SCOTT NIELSEN	KRIZ-DAVIS	2400 W THIRD	snielsen@krizdavis.com	308.382.2230
Randy Leiser	GI Utilities Elect.	1116 W. North Front	rleiser@grand-island.com	308-382-5470
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Terry Brown	GI			
JUE ZHAO	G.I.			
ROGER SCOTT	GI			

CITY OF GRAND ISLAND

Public Works Director – John Collins, P.E.
Manager of Engineering – Terry Brown, P.E.
Operations Manager – Marvin Strong, P.E.
Wastewater Operations Engineer & Project Manager – Jue Zhao, P.E.
Engineering Technician – Roger Scott

Legend
- Black & Veatch
- Olsson Associates (Engineer's Consultant)

PROJECT MANAGEMENT

Derek Cambridge, P.E. Michael Yost, P.E.

CONSTRUCTION PHASE SERVICES

Design Team

Engineering Mgr – Gary Schnettgoecke, P.E.
Lead Civil Engineer – Nathan White, P.E.
Bldg Mechanical Engineer– Michelle Roth, P.E.
Structural Engineer – Chris Leaton, P.E.
Architect – Duart Duff, R.A.
Sitework/Civil Engineer – Joe Baxter, P.E.
I&C Engineer – Warren Humphrey, P.E.
Electrical Engineer – Corry Jones, P.E.

Resident Project Representative & Materials Testing

RPR
Geotechnical Observation
Special Inspections
Materials Testing

*Black & Veatch may provide part-time RPR during peak construction or critical activities

SCADA System Integration

Dakota Hogback Automation, Inc.

City of Grand Island, Nebraska
Headworks Improvements, Project No. WWTP-2013-1

Contact	Company Name	Address	City, State, Zip	Phone	E-mail
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Dave Loeffler	Island Landhandlers, Inc.	2419 S. North Road	Grand Island, NE 68802	308-380-1140	davidl@islandlandhandlers.com
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Plan Room	Omaha Builders Exchange	4255 South 94th Street	Omaha, NE 68127		N/A
Plan Room	Reed Construction	30 Technology Parkway South; Suite 100	Norcross, GA 30092		N/A
Plan Room	Builders Plan Service	309 W. 2nd Street	Grand Island, NE 68801		N/A