Addendum #1

BOARD OF PUBLIC UTILITIES
CITY OF CHEYENNE, WYOMING
SHERARD HYDROELECTRIC GENERATION FACILITY
2020WPI01-B2

January 14, 2021

NOTICE:

This Addendum forms a part of the Specifications and Contract Documents for the Sherard Hydroelectric Generation Facility Project 2020WPI01-B2 (Documents) and modifies the original Documents dated December 2020. Prospective Bidders must acknowledge receipt of this Addendum in the space provided within the Documents. Failure to do so may subject the Prospective Bidders to disqualification. This Addendum consists of three (3) pages with three (3) attachments.

THE FOLLOWING CHANGES ARE MADE TO THE SPECIFICATIONS AND CONTRACT DOCUMENTS:

SECTION 02820 – CHAIN LINK FENCES AND GATES:

Add the attached specification Section 02820 – Chain Link Fences and Gates in its entirety to the specifications and Contract Documents.

CLARIFICATION TO QUESTIONS AND ADDITIONAL INFORMATION:

Listed below is clarifications to questions received, and additional information.

Question #1: There is a duct bank detail on Sheet C11 left side. What duct bank is this detail referring too? Is this existing duct bank or new, and to and from which locations?

Response: This is the existing duct bank between the Pressure Reducing Station (PRS) and the LMH adjacent to the access road southeast of the PRS. The proposed penstock will cross this duct bank as shown on Sheet C11.

Question #2: Is there any electrical or communications or signal wiring required in the new Tailrace Valve Vault or in the new Penstock Valve Vault at the water feeder tie in location?
Response: There is electrical and signal wiring and instrumentation in the 36” Valve Vault (high pressure valve vault). See Sheet C12 and notes 2 and 3 on Sheet C11. There is no electrical/communications/signal wiring in the 48” Tailrace Pipe Tie-In vault (low pressure valve vault).

Question #3: Drawing E5.2 (the last sheet of the OS Engineering grounding set) shows fence grounding and bonding, Details 17, 18 and 19.

Response: The chain link fence and gate inside on the 1st floor of powerhouse and the chain link fence and gates around the proposed service entrance switchgear and existing utility transformer shall be grounded and bonded in accordance with the NEC and in accordance with Sheet E0.1 and details 17, 18, and 19 on Sheet E5.2

Question #4: Throughout the structural drawings, there are notes that say the handrail or railing is by others. Can you please verify that we are expected to have the provision and install of this material in our scope or not?

Response: The aluminum railing is to be designed, provided and installed by the Contractor. See specification section 05520 Aluminum Handrails and Railings.

Question #5: What is the coating of the penstock and turbine building?

Response: See specification Section 02960 – Steel Pipe for coating requirements of the penstock. See specification 09900 – Coating Systems for coating requirements in the powerhouse building.

Question #6: Is there any pavement/asphalt replacement in the bid?

Response: Yes, there is pavement/asphalt replacement for disturbed areas and is to be included in Add-Alternate 3 – Asphalt Paving Complete of the bid.

Question #7: Drawing E9 shows Black Hills Energy is to be contacted about lifting the utility transformer if required and the contractor shall carry the cost. How do you propose we navigate getting pricing for this contingency?

Response: Reach out to Black Hills Energy if this information is needed.

Question #8: Is Eaton’s scope of work defined?

Response: Yes, see specification Section 16428 – Switchboards.

Question #9: Do smaller coordinated shutdowns of equipment, like for the relocated conduit affected by Panel 7’s replacement count as a shutdown?
Response: The intent is for additional shutdowns of minor equipment that do not adversely affect the operation of the water treatment plant to not count as a shutdown; however, these minor equipment shutdowns will be determined and approved by Engineer on a case by case basis.

Addendum Number 1

Skylor Wade, PE
SECTION 02820

CHAIN LINK FENCES AND GATES

PART 1  GENERAL

1.1 WORK INCLUDES

A. Chain link fence and gates at the following locations:
   1. As shown on the Drawings.

1.2 REFERENCES

A. The following is a list of standards which may be referenced in this Section:
      a. A 121 - Standard Specification for Zinc-Coated (Galvanized) Steel Barbed Wire
      b. A 392 - Standard Specification for Zinc-Coated Steel Chain Link Fence Fabric
      c. A 491 - Standard Specification for Aluminum-Coated Steel Chain-Link Fabric
      d. A 570 - Standard Specification for Steel, Sheet and Strip, Carbon, Hot-Rolled
      e. A 585 - Standard Specification for Aluminum-Coated Steel Barbed Wire
      f. F 552 - Standard Terminology Relating to Chain Link Fencing
      g. F 567 - Standard Practice for Installation of Chain Link Fence
      h. F 626 - Standard Specification for Fence Fittings
      i. F 668 - Standard Specification for Poly (Vinyl Chloride) (PVC)-Coated Steel Chain Link Fence Fabric
      k. F 1043 - Standard Specification for Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework
      l. F 1083 - Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

2. American Institute of Steel Construction (AISC):

3. American Welding Society (AWS):
   b. “Structural Welding Code.”

4. State and local building codes, together with applicable state and local laws.
1.3 SUBMITTALS

A. Shop Drawings:

1. Submit drawings of fabricated items. The following shall be included in the submittal:
   a. Describe all fabricated items and show all dimensions, sizes, finishes, fasteners and welds, and relationship of work to adjoining construction.
   b. Reference all construction materials by ASTM designations and grades. Catalog work sheets showing illustrated cuts of items to be furnished, including scale details, dimensions and materials, may be submitted for standard manufactured items.

2. Submit placement or erection drawings which indicate locations of fabricated items. Reproduction of Contract Documents will not be accepted for this purpose. Verify all dimensions to ensure proper fit of all fabricated items.

B. Samples:

1. Approximately 6 inches square, or 6 inches long of posts, rails, braces, fabric, wire, ties, and fittings.

PART 2 PRODUCTS

2.1 CHAIN LINK FENCE FABRIC

A. Chain link fence fabric shall be zinc-coated steel fabric, No. 9 gage conforming to the requirements of ASTM A 392, Class 1.

B. Galvanize after weaving.

C. Height: 72 inches.

D. Pattern: 2-inch diamond mesh.

2.2 POSTS AND RAILS

A. General:

1. Strength and Stiffness Requirements: ASTM F 1043, Light Industrial Fence, except as modified in this Section.
3. Roll-Formed Steel Shapes: Roll-formed from ASTM A 570, Grade 45, steel.
4. Lengths: Manufacturer’s standard with allowance for minimum embedment below finished grade of 22 inches plus 3 inches for each 1 foot of fence height greater than 4 feet.
5. Protective Coatings:
   a. Zinc Coating: ASTM F 1043, Type A external and internal coating.

B. Line Posts:

1. Steel Pipe:
a. Outside Diameter: 2.375 inches.
b. Weight: LI: 2.96 pounds per foot.

C. End, Corner, Angle, and Pull Posts:

1. Steel Pipe:
   a. Outside Diameter: 2.875 inches.
   b. Weight: LI: 4.69 pounds per foot.

D. Posts for Swing Gates:

1. ASTM F 900.
2. Roll-formed steel shapes may be substituted for steel pipe posts for gate leaf widths up to 6 feet and fabric heights up to 8 feet.
   a. Outside Dimensions: 3.5 inches by 3.5 inches.
   b. Weight: 4.85 pounds per foot.

2.3 CHAIN LINK FABRIC GATE

A. General

1. Gate Operation: Opened and closed easily by one person.
3. Chain Link Fabric: Same fabric as chain link fence. Attached securely to gate frame at intervals not exceeding 15 inches.

B. Swing Gates: ASTM F 900.

1. Hinges:
   a. Furnished with large bearing surfaces for clamping in position.
   b. Designed to swing either 180 degrees outward, 180 degrees inward, or 90 degrees in or out, as shown, and not twist or turn under action of gate.

2. Latches: Plunger bar arranged to engage stop, except single gates of openings less than 10 feet wide may each have forked latch.
3. Gate Stops: Mushroom type or flush plate with anchors, suitable for setting in concrete.
4. Locking Device and Padlock Eyes: Integral part of latch, requiring one padlock for locking both leaves of double gate.
5. Hold-Open Keepers: Designed to automatically engage gate leaf and hold it in open position until manually released.

C. The gate widths shall be as shown on the Drawings.

2.4 OTHER

A. Top rails and brace rails

1. Galvanized steel pipe or roll-formed steel C shapes.
2. Strength and Stiffness Requirements: ASTM F 1043, Top Rail, Heavy or Light Industrial Fence.
3. Steel Pipe:
a. ASTM F 1083.
b. Outside Diameter: 1.66 inches.
c. Weight: 2.27 pounds per foot.

4. Roll-Formed Steel C Shapes:
   a. Roll-formed from ASTM A 570, Grade 45.
   b. Outside Dimensions: 1.625 inches by 1.25 inches.
   c. Weight: 1.40 pounds per foot.

B. Fence Fittings
   1. General: In conformance with ASTM F 626, except as modified in this Section.
   2. Post and Line Caps: Designed to accommodate passage of top rail through cap, where top rail required.
   3. Tension and Brace Bands: No exceptions to ASTM F 626.
   4. Tension Bars:
      a. One-piece.
      b. Equal in length to full height of fabric.

5. Truss Rod Assembly: 3/8-inch-diameter.

C. Tension Wire
   1. Zinc-coated steel marcelled tension wire conforming to ASTM A 824, Type II, Class 2.

PART 3 EXECUTION

3.1 GENERAL
   A. Install chain link fences and gates in accordance with ASTM F 567, except as modified in this Section, and in accordance with fence manufacturer’s recommendations, as approved by ENGINEER. Erect fencing in straight lines between angle points.

   B. Provide all necessary hardware for a complete fence and gate installation.

3.2 PREPARATION
   A. Establish locations of fence lines, gates, and terminal posts.

3.3 POST SETTING
   A. Driven posts are not acceptable.

   B. Set posts in the ground with minimum embedment below finished grade of 22 inches plus 3 inches for each 1 foot of fence height greater than 4 feet, and with top rail at proper height above finished grade. Brace posts, as necessary, to maintain correct position and plumbness until concrete sets.

   C. Backfill post holes in the ground with concrete meeting the requirements re: S-102 ‘Exterior Slab-On-Grade’ to 2 inches above finished grade. Before concrete sets, crown and finish top of concrete to readily shed water.
D. Fence posts set in the top of a concrete wall shall be located in the center of the wall.

E. Set fence post in concrete walls by either casting fence posts in place, casting blockouts in the top of the wall, or coring the concrete in the top of the wall.


2. Cast in place blockouts: Place blockouts 12 inches deep and 4 inches in diameter.

3. Coring: Core holes 4 inches in diameter and 12 inches deep.

F. Posts set in blockout holes or core holes shall be grouted in place with non-shrink grout in accordance with the requirements of Section 03410.

3.4 BRACING

A. Brace gate and corner posts diagonally to adjacent line posts to ensure stability.

3.5 TOP RAILS

A. Install top rail sleeves with springs at 100 feet maximum spacing to permit expansion in rail.

3.6 CHAIN LINK FABRIC

A. Do not install fabric until concrete has cured minimum 7 days.

B. Install fabric with twisted and barbed selvage at top.

3.7 GATES

A. Hang gates and adjust hardware so gates operate satisfactorily from open or closed position.

B. Set gate stops in concrete to engage center drop rod or plunger bar.

3.8 GROUNDING AND BONDING

A. All chain link fences and gates shall be grounded and bonded in accordance with the NEC and in accordance with Sheet E0.1 and details 17, 18, and 19 on Sheet E5.2.

3.9 FIELD QUALITY CONTROL

A. Gate Tests: Prior to acceptance of installed gates, demonstrate proper operation of gates.

END OF SECTION
Board of Public Utilities
City of Cheyenne, Wyoming

Sherard Hydroelectric Generation Facility

Bid Number: 2020WPI01-B2

Pre-Bid Meeting
January 6, 2020
Stay Healthy!
Stay Well!
Be Diligent!
We’re all in this together!
Agenda

• Introductions
• Project Schedule
• Project Background
• Bidding Requirements
• Contract Requirements
• Project Overview
• Virtual Tour
• Q&A
Introductions

Board of Public Utilities
• Project Owner
  Clint Bassett, Water Treatment Division Manager

Wenck Associates, Inc.
• Prime Consultant
  Skylor Wade, PE
  307-631-0730 cell
  swade@wenck.com

ESC Engineering, Inc.
• Electrical Engineer
  Chris Booth, PE

KL&A Engineers & Builders
• Structural Engineer
  Chad Lockman, PE

With Funding Provided By:

Drinking Water State Revolving Fund
Wade Verplancke, DWSRF Project Manager
Proposed Project Schedule*

*Schedule is Draft and subject to final approvals

- Advertisement for Bid – December 9, 2020 through January 27, 2021
- Pre-Bid Conference – January 6, 2021
- Bid Opening – 2:00 P.M. MST on Wednesday January 27, 2021
- Anticipated Notice of Award – February 16, 2021
  - Allowed up to 61 days to award
- Anticipated Notice to Proceed – March 16, 2021
- Substantial Completion – March 31, 2022
- Final Completion – April 30, 2022
Project Background

- BOPU contracted with Wenck to provide professional services for the design and construction management in April 2013
  - Feasibility and Economic Analysis completed in August 2013
  - Power Purchase and Sale Agreement executed in April 2015
  - FERC determined project met the statutory criteria for qualifying conduit hydropower facility and did not require the project to be licensed under Federal Power Act in 2015
  - Interconnection Agreement for Small Generator Facility executed in June 2017
  - Contracted with Gilkes Hydro to construct and commission the water to wire turbine/generator package (Owner supplied equipment) in April 2018
  - Turbine/generator package arrived in June 2019
  - First bid opening on May 29, 2020
    - No bid was awarded
    - Additional funding secured and currently re-bidding
Bidding Requirements

- Defined Terms
  - Issuing Office/Owner: The City of Cheyenne Board of Public Utilities
  - Engineer: Wenck Associates, Inc.
- Bid Documents are located at www.cheyennebopu.org/Bids-and-Proposals
- Submit Bids to:
  
  BID ENCLOSED  
  ATTN: Clint Bassett  
  2416 Snyder Ave.  
  Cheyenne, WY 82001
- Electronic bids accepted at: cbassett@cheyennebopu.org
  - Hardy copy with original signatures and bonds shall follow and postmarked on or before Bid Opening date.
- If hand delivering Bids, please coordinate prior and deliver to Customer Service staff at 2416 Snyder Ave.
- Public Bid opening will be via GoToMeeting
Bidding Requirements Cont.

- 5% Bid Bond
- Performance and Payment Bond
- 5% In-state Preference
- Subcontractor and Suppliers List
- Non-Collusion Affidavit
- Qualifications Statement
- State Revolving Fund (SRF) Requirements
  - Certification Regarding Debarment
  - Disadvantage Business Enterprises (DBE) Good Faith Effort Documentation Form
    - EPA Form 6100-3-DBE and EPA Form 6100-4-DBE (if using any DBEs)
- Copy of Certificate of Residency (if bidding as a resident)
Bidding Requirements Cont.

• Basis of Bid
  • Lump Sum Bid
  • Add-Alternate 1 – Water Treatment Plant Electrical Upgrades
  • Add-Alternate 2 – Split Face Block Veneer
  • Add-Alternate 3 – Asphalt Paving
  • Lump Sum Contingency Allowance
  • Lump Sum Material Testing Allowance
  • Award shall be to the responsible Bidder submitting the lowest responsive Bid.
Addenda

- Acknowledge Addenda on Bid Form
- Questions received less than seven days prior to Bid opening may not be answered
- Last day to issue Addenda will be seven days prior to Bid opening
- Only questions answered by Addenda will be binding
• Substitute and “Or-Equal” Items
  • Require approval by Engineer at least ten days prior to Bid opening
  • Assumptions regarding the possibility of post-Bid approvals are made at Bidder’s sole risk
Contract Requirements

• Contract Dates
  • Substantial Completion – March 31, 2022
  • Plant shut down and tie-in – see specification 01042
    • 2 shut downs are allowed between November 1 and April 1
    • Shut down duration cannot exceed 48 hours

• Liquidated Damages
  • $3,000 per day after Substantial Completion
  • $1,000 per day after Final Completion

• 5% Retainage

• Insurance requirements as described in the General Conditions and as modified in Supplementary Conditions
Contract Requirements Cont.

- State Revolving Fund Special Conditions
  - Compliance with American Iron and Steel Requirements
    - Waiver for stainless steel nuts and bolts has expired
  - Disadvantage Business Enterprise Utilization
  - Davis Bacon Prevailing Wage Requirements
- Executed Agreement is due 30 days after Notice of Award
Project Overview

- Steel penstock with appurtenances
- Concrete and masonry powerhouse building
- Site electrical and interconnection to existing facilities
- Water treatment plant tie-in
- Site grading
- SCADA integration
- Installation and interconnection of an 850 kW hydroelectric turbine/generator
Project Overview Cont.

• Primary purpose of the facility is water treatment and the water treatment plant will continue to operate while Work is completed for this Project
  • Limited water treatment plant shutdowns
    • See specification 01042
    • Coordinate for multiple utility tie-in
  • Chlorine gas, acidic and caustic chemicals are used on site for water treatment
  • Maintain access to water treatment plant for plant deliveries
Project Overview Cont.
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• Items to consider:
  • Standard Specifications
    • City of Cheyenne and Board of Public Utilities Construction Specifications and Standard Drawings 2014
  • Supplemental Specifications and Drawings
    • Include new sections of specifications and drawings not covered in the standard specifications and drawings
  • Permitting requirements
    • WY DEQ Construction General Permit, Laramie County Standard Grading, Erosion, and Sediment Control Permit, SWPPP, WYPDES Discharge Permit
  • Section 11200 – Owner Supplied Equipment
    • Technical Appendix A
  • Turbine/Generator installation oversite by Gilkes Hydro
  • Hydro generator commissioning to be completed by Gilkes Hydro
Project Overview Cont.

• More items to consider:
  • Section 16010 – Electrical General Provisions
    • Electrical equipment and protection relays to be commissioned by independent testing company and paid for as part of Contract
  • Existing SWGR 8001 Panel 7 replacement to be designed and built by Eaton, installed and connected by electrical contractor
    • Location of proposed tie breaker 52-M1
  • SCADA integration – programming only, not anticipated to require any design
    • “Copy” control screens from Owner supplied turbine control panel into existing WTP SCADA system
  • Section 16400 – Service and Distribution
    • Requires building lightning protection system to be designed by a Wyoming Professional Engineer in accordance with NFPA 780 and paid for as part of Contract
Virtual Tour
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Questions?
Board of Public Utilities
City of Cheyenne, Wyoming

Sherard Hydroelectric Generation Facility

Bid Number: 2020WPI01-B2

Pre-Bid Meeting
January 6, 2021
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<th>Individual/Personal Name</th>
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<th>Secondary E-Mail</th>
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<td><a href="mailto:jkirby@badgerinc.com">jkirby@badgerinc.com</a></td>
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## Sherard Hydroelectric Generation Facility (2020WPI01-B2)

### Plan Holder’s List

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