

Owner: City of Rawlins, A Wyoming Municipal Corp.
Project: Sage Creek Pipeline Cathodic Protection

RE: 3 Addendum #1 Cover letter

Dated: March 30th, 2026

To: Prospective Bidders and Attendees

Extension of Bid Due Date to April 21st, 2026

Please provide any requested equals for approval prior to April 9th at 5:pm

This Addendum will modify the original RFP Dated “Spring 2026” and must be acknowledged in the final bid submittal in section 01002 Submittal of Bids. There will be a complete project manual with any changes in “***Bold Italics***”. The revised project manual will have ***Addendum #1*** On the Coversheet. Please note that the original plans are still on the City website. The Project Manual with Addendum has a placeholder for plans only.

Project Notebook Revisions and Comments:

- **Section 01012 Bid Form.** Change bid quantity of Atypical Test Stations from 15 to 10, to match Spec 15020.
- **Section 01012 Bid Form.** Change bid quantity of Atypical Joint Bonds from 40 to 10, to match Spec 15010.
- **Section 15020 Test Stations.** added Section “F. For Atypical test stations, contractor will be paid for a minimum of 5 atypical test stations if equipment is mobilized onsite for any single atypical test station”.
- **Section 15020 Test Stations.** Added “Blue” Carsonite posts.
- **Section 15020 Test Stations.** Added to 4. “*In 1” conduit riser* “
- **Section 15010 Joint Bonds.** added Section “F. For Atypical Joint Bonds, contractor will be paid for a minimum of 5 atypical Joint Bonds if equipment is mobilized onsite for any single atypical Joint Bond.”
- **Section 01011 Contract.** Added to 7.04 Contractor may retain subcontractors and suppliers for the performance of up to “*forty-five percent (45%) of the contract amount*”.
- **Reference and clarification of GPS Files.** Survey grade location is not required – sub meter accuracy is expected and files provided should be suitable for GIS shape file creation.
- **Certified CP-4 Cathodic Protection Specialist** will oversee all work performed. CP-4 is not required onsite during all work performed but will maintain reasonable oversight that work meets the specifications and requirements of the project.
- **WWDO Concurrence** Just a reminder that the project award will be dependent upon our funding partner, the WWDO, concurrence with regard to the bid award as well as final contract, change orders etc.

PreBid Questions

1. Whether backfilling is required for hydro-excavations around each test station? Yes, site material OK.
2. Who is responsible for backfilling (prime contractor, subcontractor, or owner)? Contractor
3. If required, whether there is a specified backfill material and method, or if native material is acceptable? Site material OK

Modified Project Manual Sections

1. Section 01002 - Submission of Bids – Bid will be awarded to lowest qualified bidder under the terms and conditions of this RFP.
2. Section 015000 – Corrosion Assessment
 - a. Modified Pipeline Assessment Section 2
 - b. Modified Anode Assessment Section 1
3. Section 015000 – Corrosion Assessment
 - a. Modified Pipeline Assessment Section 2
4. Section 15010 Joint Bond
 - a. Section 1 – Joint Bonds
 - b. Additional details in Pay Items
 - c. Two (2) Additional contract days for each atypical joint bond after five (5) have been completed may be requested via change order.
5. Section 15020 Test Stations
 - a. Modified Section 1 – Test Stations
 - b. Modified Section 4 Test Stations
 - c. Modified Pay Items to recognize additional atypical joint bond repairs.
6. Section 15030 Anode and Rectifier
 - a. Modified Section 1 Deepwell Anode
 - b. Modified Section 4 Rectifier and Junction Box
 - c. Modified Section 8 to Reference Contract Subcontractor amounts of work allowed.
 - d. Added Section 9 “Commissioning”
 - e. Add Section 11 “Submittals”

Specified Materials, Products and Tools and Approved Equals

Specific materials, products and Tools are referenced in the revised project manual. Approval for equal materials, products and tools must be in writing prior to bid submittal. The following materials, products and tools are specified. Please provide any requested equals for approval prior to April 9th at 5:pm. The following specified products subject to approved equal can be found in the project manual:

1. Digital low resistance ohmmeter (DLRO) meter. Provide Biddle 247000 Series. Megger DLRO instruments (Megger Ductor DLRO 10 or DLRO 10X., AEMC Model 5600 Manual Adjustment Type Micro-Ohmmeter or the newer style automatic current adjusting AEMC 6240 or 6250 Micro-Ohmmeters or equal.

2. Provide one set of 10-amp duplex test leads heavy duty fixed point current and potential handspikes. (Biddle Model No. 242002-7 with seven-foot lead length) or equal
3. Weld Caps should be Roysten Handycap IP XL or Trenton patches or approved equal
4. Test stations shall be 2 terminal testox 300 stations, or Gerome Testox 700 Series (minimum five-terminal, threaded test head) or approved equal.
5. The twenty (20) or more deep groundbed anodes shall be resin treated minimum 3"x 60" sized graphite anodes, center connected with extended epoxy, polyurethane or heat shrink anode end cap and individual No. 8 AWG HMWPE insulated anode leads at 10-foot spacing,. Manufacturer to be Mesa or Farwest or approved equal.
6. The vend pipe shall be either a drilled or slotted plastic one-inch or larger vent pipe in the bottom minimum 220-foot active column area (with drilled perforations and encased in a Nilex geotextile sock or slotted Loresco, Allvent or approved equal.
7. Backfill deep anode groundbed active column area with NSF approved low resistance calcined petroleum coke breeze suitable for pumping (Loresco SC-3 or RS-3 or approved equal).
8. The deep groundbed individual anode leads shall be terminated in an above grade post mounted, lockable weathertight NEMA 4X post mounted fiberglass anode junction box (Stahlin, Hoffman, etc.). Provide sufficiently sized anode junction box to house terminal strip or block, with minimum twenty (20) Holloway Type RS 0.01-ohm manganin wire shunts and lug type connections with two each two-inch (2") bottom knockouts with Myers Hub (Mesa, Universal, Farwest, or approved equal.).
9. The Rectifier shall be air cooled, manually controlled, dual AC input of 120/240 volts, single-phase, 60-Hz with a suitably sized magnetic-type circuit breaker on front of rectifier panel. The rectifier shall be a pole mounted, single-phase bridge type with a silicon diode stack. Supply the rectifier with combination DC voltage and current meters and external panel mounted shunt, Holloway type, in series with the ammeter. Provide with AC and DC lightning protection, efficiency filter, meter on/off switch, minimum manual tap adjustments of 20 steps or more, 115 Volt AC convenience outlet, access provided by removable doors in front and both sides, rectifier split type rack assembly and one size larger case. Either IRT Model No. ADASFS 40-volt 40-amp EGOAZ (Z1= Larger Rectifier Case Size and Split Rack), Universal Rectifier Standard Air Cooled Model ASAI 40-volt 40-amp AACFHMRPQ (P= minimum 20 steps, Z= Larger Rectifier Case Size and Split Rack) or approved equal.
10. Provide remote monitoring capability either using existing City SCADA (Supervisory Control and Data Acquisition) system or with a commercial remote monitoring unit (RMU) that can monitor and transmits selected channels of information and provide synchronized interruption such as the Mobiltex RMU3 or approved equal.

Karl Smith
City Engineer

3/30/2026

CITY OF RAWLINS
PROJECT MANUAL
FOR
2026 SAGE CREEK SPRINGS
CATHODIC PROTECTION
REHABILITATION
Addendum #1

SPRING 2026



**01001-City of Rawlins Request for Bids - 2026 SAGE CREEK PIPELINE CATHODIC
PROTECTION REHAB**

The City of Rawlins, a Wyoming Municipal Corporation, will receive sealed bid packages (No faxed bids) in the City Clerk's Office, City Hall, PO BOX 953/521 W Cedar St. Rawlins, Wyoming 82301 until **1:30 PM (Mountain Daylight Savings Time)** April 7th, 2026, at which time they will be publicly opened for the following project:

2026 SAGE CREEK PIPELINE CATHODIC PROTECTION REHAB

A **Mandatory** Pre-Bid Meeting has been scheduled for 10:00 am March 12th, 2026 at the City of Rawlins Public Works Building, 915 Third Street Rawlins, WY 82301. Bid documents are available at the City website: <https://www.rawlinswy.gov/bids.aspx>.

All participants will be expected to print off their own physical copy. This RFP is let pursuant to the provision of Wyo. State Stat. §15-1-113.

All proposals shall be on the provided "01012 - Bid Form" per "01002 – Submittal of Bids" instructions and in individual envelopes clearly marked with the name of the project:

"2026 SAGE CREEK PIPELINE CATHODIC PROTECTION REHAB"

in the lower left-hand corner.

Minimum Proposal Requirements are:

- Competent firm with specific experience in execution of the project work.
- Compliance with all Federal, State and Local Laws.
- Execute and comply with the provisions of the Project Manual for this project which is available Online: <https://www.rawlinswy.gov/bids.aspx>
- Compliance with City contract requirements including performance bond and payment bond or other assurances acceptable to the guarantee shall meet the requirements of W.S. § 16-6-112.
- Comply with the general conditions, specifications, drawings and requirements as presented in the Project Manual
- Submit bids with provided documents complete including any addendums.
- The Project is partially funded by Wyoming Water Development Commission (WWDC) and subject to all applicable State Statutes during Bidding and Negotiation, Construction and Close-Out.
- Preference is hereby given to materials, supplies, agricultural products, equipment machinery and provisions produced, manufactured, supplied or grown in Wyoming, quality being equal to articles offered by the competitors outside of the state, see W.S. § 16-6-106.

The City reserves the right to reject all bids or accept any bid, which in its sole and absolute judgment, shall under all circumstances best serve the City's interests. The City reserves the right to waive any and all informalities of any proposal. The City may require up to 30 days after opening for acceptance of any proposal.

Issued: February 12th, 2026

Matthew Hall, City Manager

Publication: Twice in the *Casper Star-Tribune* on 2/12/2026, and 2/26/2026

01002 – SUBMITTAL OF BID

Each prospective Bidder is furnished with the Bidding Documents electronically. The Bid Form (01012) is to be printed, copied, or removed, completed, and submitted along with the following:

- A. Bid Security in the form of a Bid Bond or other acceptable security, in amount of 5% of the total submitted bid to be held for 45 days after the bid due date or until the project has been awarded by the City Council and upon receipt of fully executed agreement. A bid bond is the only acceptable security unless approved by the City, in writing, a minimum of 10 days prior to the bid due date.
- B. Wyoming Residency Certificate, if bidding as a resident.
- C. Bidder's Qualification Statement. Minimum of three projects similar in scope and price to the bid project.
- D. Completed Bid Form (must have an Addendum Acknowledgment.)
- E. Tabulation of Suppliers and Sub-Contractors

A mandatory Pre-Bid meeting will be held at the time and location stated in the "01001-Notice". Representatives of Owner and Engineer will be present to discuss the Project. Bidders are required to attend and participate. Engineer will transmit to all prospective Bidders of record such Addenda as Engineer considers necessary in response to questions arising at the meeting. Oral statements may not be relied upon and will not be binding or legally effective.

All questions about the meaning or intent of the Bidding Documents shall be submitted to Engineer in writing prior to the "Last Date for Addendum Questions" shown on the project summary page. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda delivered to all parties recorded on bidders list.

Specific products and materials are specified in the bidding documents. Requests for substitution of these Specific products and materials by approved equals must be submitted in writing to the City Engineer prior to the "Last Date for Addendum Questions" shown on the project summary page. The substitutions, if approved, will be made part of the final addendum. No substitutions or "or equals" will be allowed after the bid.

Bidding Documents. Questions received after the "Last Date for Addendum Questions" may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without any legal effect.

A bid shall be received no later than the date and time prescribed and at the place indicated in the advertisement or invitation to bid and shall be enclosed in a plainly marked sealed package with the Project title (and, if applicable, the designated portion of the Project for which the bid is submitted), the name and address of bidder, and shall be accompanied by the bid security and other required documents.

If a bid is sent by mail or other delivery system, the sealed envelope containing the bid shall be enclosed in a separate package plainly marked on the outside with the notation "BID ENCLOSED." A mailed bid shall be addressed to Owner. Owner takes no responsibility for delivery of bids through the mail.

No FAX or email bids will be accepted. All bids must be submitted in original form with original signature of bidder.

Bids received after the date and time prescribed for the opening of bids or not submitted at the correct location or in the designated manner, shall not be accepted and will be returned to the bidder unopened. Bidders who are residents of Wyoming in accordance with Section 16-6-101 of the Wyoming Statutes shall be given preference over bidders who are not residents of Wyoming, provided the bid of the resident bidder is not more than five percent (5%) higher than that of the lowest nonresident bidder. A photocopy of the Wyoming resident contractor certification from the Wyoming Department of Employment, Labor Standards Office must be submitted with each resident contractor's bid package.

Evaluation of Bids: All Bids shall be reviewed to verify that the Company has met the minimum requirements as stated in this RFP. Bids that do not meet minimum content and/or do not provide references will be rejected as non-responsive. ***Bid will be awarded to lowest qualified bidder after review by the City and Wyoming Water Development Office for completeness under the terms of this RFP.*** The review team will score each of the following categories based on a 1-3 scale (1 as least and 3 as best) and the scores weighted as follows. High score to be recommended for award:

- ~~1. Experience and qualifications of the firm and key personnel (20)~~
- ~~2. Pricing with options (25)~~
- ~~3. Minimum of Three completed project references (10)~~
- ~~4. Technical approach and methodology for Corrosion Protection system assessment and replacement (20)~~
- ~~5. Cost effectiveness of the proposal in relation to the scope of work, future support, and budgetary constraints (10)~~
- ~~6. Feasibility of project delivery Timeline (10)~~

When Owner issues a "01015-Notice of Award" to the Successful Bidder, it shall be accompanied by unexecuted counterparts of the "01011 Project Contract" along with other Contract Documents as identified in the Project Contract.

Within 45 calendar days thereafter, successful bidder shall execute and deliver the required number of counterparts of the Project Contract (and any bonds, insurance and other documentation required to be delivered by the Contract Documents) to Owner.

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul the Notice of Award, and declare your Bid forfeited and recoup Bid Bond.

Within ten calendar days thereafter, Owner shall deliver one fully executed counterpart of the Project Contract to successful bidder along with an executed Notice to Proceed.

"The award of this project is subject to final approval by the Wyoming Water Development Office (WWDO)."

END OF SECTION

01003 - TABLE OF CONTENTS

GENERAL REQUIREMENTS

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PROJECT SPECIFICATIONS

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02010	Traffic Control
02021	Stormwater Permit
02071	Construction Water
03000	Stormwater Permit
15000	Corrosion Assessment
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15030	Deepwell Anode and Rectifier
15040	Reporting and Closeout

30000—PROJECT DRAWINGS

01010 SUMMARY OF WORK

The City of Rawlins, a Wyoming Municipal Corporation, (City) is seeking comprehensive proposals from experienced contractors for corrosion mitigation services on the Sage Creek Transmission Pipeline (SCTP). This project seeks to safeguard the pipeline's integrity, safety, and operational lifespan through advanced corrosion prevention and control measures. An overview exhibit of the project area is presented in Section 3000 Project Drawings.

The Sage Creek Transmission Pipeline delivers water from the Sage Creek Springs and the Nugget Wellfield to Atlantic Rim Reservoir, about 2 miles south of the Rawlins Water Treatment Plant (WTP). PVC and AC (asbestos cement) pipelines deliver the raw water from Atlantic Rim Reservoir, at the end of the SCTP, to the WTP. The SCTP was installed circa 1987-89 in three phases to replace the original wood stave pipeline built in 1924. Project also includes approximately 2.5 miles of well field pipeline similar in construction to the SCTP.

The SCTP is a cement mortar lined steel pipe, with a wrapped coating and an impressed current cathodic protection system. Pipe joints are gasketed push-on at most locations. Pipe diameters include 24-inch, 20-inch, 14-inch and 12-inch, with the two smallest pipe diameters used in the wellfield area.

The purpose of this project is to deliver a complete and turnkey corrosion protection project for the SCTP from the outlet structure in Sage Creek Basin, well field pipeline to vault and continuing to its terminus adjacent to the Atlantic Rim Reservoir to include the following:

- Location: Sage Creek Transmission Pipeline, Rawlins WY, see attached exhibit.
- Length: 24.4 Miles of main pipeline and 2.5 miles of wellfield pipeline.
- Objective: Assess and implement effective corrosion mitigation strategies for entire pipeline segments.
- Major tasks: permit and install one deepwell anode, appropriate test stations for pipeline, verify and remediate pipeline continuity issues.

CORROSION ASSESSMENT

1. Conduct thorough corrosion assessment of the Sage Creek Transmission Pipeline
 - a. Assessment to include "as-found" CP potential survey of all existing test stations and above grade assets
 - b. Continuity testing of entire pipeline – utilizing above grade assets as connection points
2. Repair continuity issues once identified – these may vary from no issues to installing joint bonds at every pipe joint for the duration of the pipeline.
3. After continuity has been established
 - a. Perform an influence study to include all foreign operator current sources within 1 mile of the pipeline – quantity and location unknown at this time.
 - b. Perform current requirement testing for the pipeline.

ANODE ASSESSMENT

1. Assess and recommend a replacement deepwell impressed current CP anode System to replace the aging shallow anode bed.
2. Assess and recommend a complete test station layout to facilitate future CP testing.

3. Permit Deepwell with WY DEQ and create exhibits and necessary procedure for work on BLM land.
4. Assess interference mitigation components for any foreign operators where interference is anticipated, based on earlier testing.

EXECUTION

1. Install joint bonds if necessary
 - o Joint bonds should be installed where needed at 2 joint bonds per location
 - o Joint bonds should be #2 HMWPE or larger
 - o Joint bonds shall be installed via vacuum excavation and downhole tooling where it is possible to minimize pipeline excavation
 - o Joint Bonds will be bid as Typical and Atypical depending on estimated time to install.
2. Install test stations
 - o Assume 53 test station installs
 - o Test stations shall be mounted on 4x4 treated wood post with rigid conduit extending into the ground.
 - o Test station posts shall be set in concrete and marked with a minimum 4' above grade carsonite post marked "City of Rawlins Property"
 - o Test stations shall utilize #10 Blue THHN wire – 2 pipeline connections/wires per test station
 - o Test stations shall be installed via vacuum excavation and downhole tooling where possible to minimize pipeline excavation.
 - o Test stations will be bid as Typical and Atypical depending on estimated time to install.
3. Install Deepwell
 - o Assume 1 deepwell
 - o Deepwell installation to include portable drilling containment pit and disposal of cuttings.
 - o New rectifier and junction box to be included
 - o AC power meter upgrade, to meet local codes, to be included
 - o New structure connection #4 HMWPE or larger
 - o Work on the Deepwell, if located on BLM land, shall be subject to BLM requirements and direction regarding wildlife protection, work periods, erosion control and etc.

COMMISSIONING

1. Set Rectifier at target amperage based on assessment.
2. Return after 4 weeks to perform an interrupted survey of the pipeline at all test points and readjust if necessary.

REPORTING

Detailed reporting of the following is required:

1. As-Found pipeline potential CP data.
2. As-Left pipeline potential CP data.
3. As-built for deepwell.
4. As-built for each test station:
 - A. Includes pipeline depth
 - B. GPS Locations
 - C. Pipeline UT measurement
 - D. Potentials before and after test lead installation
 - E. Picture of pipeline before, during and after test lead attachment
5. As-built for each set of joint bonds installed: Includes:

- A. Pipeline depth
 - B. GPS
 - C. Pipeline UT measurement.
 - D. Potentials before and after test lead installation.
 - E. Picture of pipeline before, during and after test lead attachment
- 6. GPS file of all test points, joint bonds, ground beds.
 - 7. CP calculations based on industry standards.

END OF SECTION

01011- CITY OF RAWLINS: PROJECT CONTRACT SUMMARY

Paragraph/Sec	Project-Specific Information
1.01.B	2026 Sage Creek Pipeline Cathodic Protection Rehab
1.01.B	Corrosion assessment of the Sage Creek Pipeline with anticipated replacement of a deepwell anode, rectifier and test stations along with rehab of joint bonds.
2.02.A	Project Notebook including: City of Rawlins Project Contract, Specifications and Project Drawings
3.01.A	City Engineer
4.01.A	The Work will be "substantially completed" within 90 (ninty) days after the Effective Date of the Contract and completed and ready for final payment within 180 (one hundred and eighty) days after the Effective Date of the Contract
4.01.B	The Contractor agrees to complete work in the construction season of 2026. No Winter Shutdown - Liquidated Damages will accrue.
4.02.A	Liquidated damages amount: \$1,500 per Calendar Day over contract days.
5.01.A	The Owner agrees to pay Contractor for services described in the Contract Documents in the amount of _____ subject to approved final quantities. Said project will be paid according to the Contractors Bid as presented in the Project Notebook Section 01012 Bid Form
5.01.B	Progress payment and final payment will be subject to quantities installed per plan and specifications provided in the Project Notebook.
01002	Specified products and materials or approved equals

IMPORTANT DATES

2/12/2026 First Publication - Casper Star-Tribune
2/26/2026 Second Publication - Casper Star-Tribune
3/12/2026 Pre-Bid Meeting - 10:00am mst Public Works
3/26/2026 Final Questions Due - 5:00pm mst
4/7/2026 Bid due - 1:30pm mst City Hall

01011 - CITY OF RAWLINS, CONTRACT FOR PROJECT CONSTRUCTION – SAGE CREEK CORROSION

This Contract is by and between City of Rawlins, Wyoming, a Wyoming Municipal Corporation (Owner) and _____ (Contractor).

Owner and Contractor hereby agree as follows:

ARTICLE 1 - THE WORK

1.01 Work

- A. Work includes all labor, materials, equipment, services, and documentation necessary to construct the Project defined herein. The Work may include related services such as testing, start-up, and commissioning, all as required by the Contract Documents.
- B. The Contractor shall complete all Work as specified or indicated in the Contract Documents. The Project is generally described as follows:
 - 1. Corrosion assessment of the Sage Creek Pipeline with anticipated replacement of a deepwell anode, rectifier and test stations along with rehab of joint bonds.

ARTICLE 2 - CONTRACT DOCUMENTS

2.01 Intent of Contract Documents

- A. It is the intent of the Contract Documents to describe a functionally complete project. The Contract Documents do not indicate or describe all of the Work required to complete the Project. Additional details required for the correct installation of selected products are to be provided by the Contractor and coordinated with the Owner and Engineer. This Contract supersedes prior negotiations, representations, and agreements, whether written or oral. The Contract Documents are complementary; what is required by one part of the Contract Documents is as binding as if required by other parts of the Contract Documents.
- B. During the performance of the Work and until final payment, Contractor and Owner shall submit all matters in question concerning the requirements of the Contract Documents, or relating to the acceptability of the Work under the Contract Documents to the Engineer. Engineer will be the initial interpreter of the requirements of the Contract Documents, and judge of the acceptability of the Work thereunder.
- C. Engineer will render a written clarification, interpretation, or decision on the issue submitted, or initiate a modification to the Contract Documents.
- D. Contractor, and its subcontractors and suppliers, shall not have or acquire any title to or ownership rights to any of the Drawings, Specifications, or other documents (including copies or electronic media editions) prepared by Engineer or its consultants.

2.02 Contract Documents Defined

A. The Contract Documents consist of the following documents:

1. Notice of Award
2. This Contract
3. Performance bond
4. Specifications listed in the Table of Contents.
5. Drawings as listed on the Drawing Sheet Index
6. Addenda
7. Exhibits to this Contract (enumerated as follows):
 - a. To be determined
8. Project Manual including: City of Rawlins Project Contract, Specifications and Project Drawings
9. The following which may be delivered or issued on or after the Effective Date of the Contract:
 - a. Change Orders
 - b. Work Change Directives
 - c. Field Orders
10. Wyoming Public Works Specifications as Adopted by the City of Rawlins are made part of this contract as referenced.

ARTICLE 3 - ENGINEER

3.01 Engineer

- A. The Engineer for this Project is Karl Smith, Rawlins City Engineer.
- B. The Engineer, or Engineer's project representative, shall perform technical inspection of the Work. They have authority to stop the Work whenever such stoppage may be necessary to insure the proper execution of the Contract. They shall also have authority to reject all Work and materials which do not conform to the Contract and to decide questions which arise in the execution of the Work.
- C. The Engineer shall, within a reasonable time after their presentation to them, make decisions in writing on all claims of the Contractor and on all other matter relating to the execution and progress of the Work or the interpretation of the Contract Documents.

ARTICLE 4 - CONTRACT TIMES

4.01 Contract Times

- A. The Work will be substantially completed within ninety (90) days after the Effective Date of the Contract and completed and ready for final payment within one hundred and eighty (180) days after the Effective Date of the Contract.

- B. Contractor agrees to complete work during the 2026 construction season.
- C. Liquidated damages will be assessed if Contractor goes into winter shutdown

4.02 Liquidated Damages

- A. Contractor and Owner recognize that time is of the essence in the performance of the Contract, and that Owner will incur damages if Contractor does not complete the Work according to the requirements of Paragraph 4.01. Because such damages for delay would be difficult and costly to determine, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay Owner \$1,500 for each day that expires after the Contract Time for substantial completion. There will be no partial days.

4.03 Delays in Contractor's Progress

- A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Times and Contract Price. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
- B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor or their subcontractors or suppliers.
- C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times.
- D. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor or Contractor's subcontractors or suppliers.
- E. Adverse Weather Days; Time Extension
 - 1. Contractor will be granted an extension of time for Adverse Weather Days occurring during the performance of the Work upon written request submitted by the Contractor and approved by Owner. An Adverse Weather Day is a day where weather precludes five (5) or more hours of the Work, the Contractor has a workforce on the project attempting the Work, and would otherwise be a working day.
 - 2. Requests for an extension of Contract Time due to Adverse Weather Days must be submitted in writing to Engineer within Three (3) after the occurrence of the claimed Adverse Weather Day, and must include sufficient documentation to substantiate the request. All such requests are subject to approval by the Owner and the Wyoming Water Development Office (WWDO).
 - 3. If such request is approved, Contractor shall be entitled to an equitable adjustment of the Contract Times. No extension under this Section shall entitle Contractor to additional compensation unless expressly authorized by the Contract.
 - 4. Failure to submit a written request for an extension of Contract Time under this Section shall constitute a waiver of any time extension based on Adverse Weather Days.

4.04 Progress Schedules

- A. Contractor shall schedule a Pre-Construction meeting with the City at least ten (10) days prior to start of project. The meeting will address public notice, project workflow, material delivery and project access.
- B. Contractor shall develop a progress schedule and submit to the Engineer for review at least twenty (20) days before start and comment at the Pre-Construction meeting and before mobilization of equipment and crews and before starting Work on the Site. The Contractor shall modify the schedule in accordance with the comments provided by the Engineer.
- C. The Contractor shall update and submit the progress schedule to the Engineer each month. The Owner may withhold payment if the Contractor fails to submit the schedule.

ARTICLE 5 - CONTRACT PRICE

5.01 Payment

- A. The Owner agrees to pay Contractor for services described in the Contract Documents in the amount of \$ _____ subject to approved final agreed quantities. Said project will be paid in full according to the Contractor's Bid as presented in Project Manual Section 01012 Bid Form.
- B. It is understood that the project bid is based on a good faith estimate of project quantities. Progress payment and final payment will be subject to quantities installed per plan and specifications provided in the Project Notebook.

ARTICLE 6 - BONDS AND INSURANCE

6.01 Bonds

- A. When Contractor delivers the signed counterparts of the Contract to Owner, Contractor shall furnish a performance bond and a payment bond from surety companies that are duly licensed or authorized to issue bonds in the required amounts pursuant to W.S. 16-6-112. Each bond shall be in an amount equal to the Contract Price, as security for the faithful performance and payment of all of Contractor's obligations under the Contract. These bonds shall remain in effect until the completion of the correction period specified in Paragraph 7.12 but, in any case, not less than one year after the date when final payment becomes due.

6.02 Insurance

- A. When Contractor delivers the signed counterparts of the Contract to Owner, Contractor shall furnish certificates, endorsements, and any other evidence of insurance to Owner. Insurance shall be provided by companies that are duly licensed or authorized in the jurisdiction in which the Project is located with a minimum AM Best rating of A-VII or better. Contractor shall provide insurance in accordance with the following:
 - 1. Contractor shall provide coverage for not less than the following amounts, or greater where required by Laws and Regulations:
 - a. Wyoming Workers' Compensation: Workers Compensation coverage as outlined in Chapter 14 of Wyoming Title 27 must be purchased through the State fund at the statutory amount.

- b. Comprehensive General Liability: \$5,000,000 combined single limit to include bodily injury, death or property damage
 - c. Automobile Liability herein: \$1,000,000 combined single limit
- B. All insurance policies required to be purchased and maintained will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least ten (10) days prior written notice has been given to the insured and additional insured.
- C. Automobile liability insurance provided by Contractor shall provide coverage against claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance, or use of any motor vehicle. The automobile liability policy shall be written on an occurrence basis.
- D. Contractor's commercial general liability policy shall be written on a 1996 or later ISO commercial general liability occurrence form and include the following coverages and endorsements:
 - 1. Products and completed operations coverage maintained for three years after final payment;
 - 2. Blanket contractual liability coverage to the extent permitted by law;
 - 3. Broad form property damage coverage; and
 - 4. Severability of interest; underground, explosion, and collapse coverage; personal injury coverage.
- E. The Contractor's commercial general liability and automobile liability policies shall include and list City of Rawlins, officials, governing body, directors, members, partners, employees, agents, consultants, and subcontractors of each as additional insureds; and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby (including as applicable those arising from both ongoing and completed operations) on a non-contributory basis.
 - 1. Additional insured endorsements will include both ongoing operations and products and completed operations coverage through ISO Endorsements CG 20 10 10 01 and CG 20 37 10 01 (together). If Contractor demonstrates to Owner that the specified ISO endorsements are not commercially available, then Contractor may satisfy this requirement by providing equivalent endorsements.
 - 2. Contractor shall provide ISO Endorsement CG 20 32 07 04, "Additional Insured—Engineers, Architects or Surveyors Not Engaged by the Named Insured" or its equivalent for design professional additional insureds.
- F. Umbrella or excess liability insurance shall be written over the underlying employer's liability, commercial general liability, and automobile liability insurance. Subject to industry-standard exclusions, the coverage afforded shall be procured on a "follow the form" basis as to each of the underlying policies. Contractor may demonstrate to Owner that Contractor has met the combined limits of insurance (underlying policy plus applicable umbrella) specified for employer's liability, commercial general liability, and automobile liability through the primary policies alone, or through combinations of the primary insurance policies and an umbrella or excess liability policy.

- G. The Contractor shall provide property insurance covering physical loss or damage during construction to structures, materials, fixtures, and equipment, including those materials, fixtures, or equipment in storage or transit.
- H. If Contractor has failed to obtain and maintain required insurance, Owner may exclude the Contractor from the Site, impose an appropriate set-off against payment, and exercise Owner's termination rights under Article 15.

ARTICLE 7 - CONTRACTOR'S RESPONSIBILITIES

7.01 Supervision and Superintendence

- A. Contractor shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, safety, and procedures of construction.
- B. Contractor shall assign a competent resident superintendent who is to be present at all times during the execution of the Work. This resident superintendent shall not be replaced without written notice to and approval by the Owner and Engineer except under extraordinary circumstances.
- C. Contractor shall at all times maintain good discipline and order at the Site.
- D. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours, Monday through Friday 7 AM – 7 PM.

7.02 Other Work at the Site

- A. In addition to and apart from the Work of the Contractor, other Work may occur at or adjacent to the Site. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the Work of Owner, any other contractor, or any utility owner performing other Work at or adjacent to the Site.
- B. Contractor shall notify Owner, the owners of adjacent property, the owners of underground and overhead facilities and other utilities, and other contractors and utility owners performing work at or adjunct to the Site when Contractor knows that the performance or progress of the work may affect them; and Contractor shall cooperate with them in the removal, relocation, and replacement of their property or work in progress.

7.03 Services, Materials, and Equipment

- A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start up, and completion of the Work, whether or not such items are specifically called for in the Contract Documents.
- B. All materials and equipment incorporated into the Work shall be new, of good quality and shall be stored, applied, installed, connected, erected, protected, used, cleaned, and

conditioned in accordance with instructions of the applicable supplier, except as otherwise may be provided in the Contract Documents.

7.04 Subcontractors and Suppliers

- A. Contractor may retain subcontractors and suppliers for the performance of up to **forty-five percent (45%) of the contract amount**. Such subcontractors and suppliers must be acceptable to Owner.
- B. Contractor agrees that all persons providing materials or labor and all subcontractors acting at the request of Contractor shall be paid by contractor.
- C. Just as Contractor is responsible for its own acts and omissions, Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of Contractor's employees; of suppliers and subcontractors, and their employees; and of any other individuals or entities performing or furnishing any of the Work. The Contractor's retention of a subcontractor or supplier for the performance of part of the Work will not relieve Contractor's obligation to Owner to perform and complete the Work in accordance with the Contract Documents.

7.05 Quality Management

- A. Contractor is fully responsible for the managing quality to ensure Work is completed in accordance with the Contract Documents.

7.06 Licenses, Fees and Permits

- A. Contractor shall pay all license fees and royalties and assume all costs incident to performing the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others.
- B. Contractor shall obtain and pay for all construction permits and licenses unless otherwise provided in the Contract Documents.
- C. Contractor shall possess a current City of Rawlins Contractor's License prior to commencing any contracted Work. If a subcontractor is performing work that would require a contractor's license if done directly, the subcontractor must also possess a current City of Rawlins Contractor's License. For details on the Contractor's License please contact Community Development at 307-328-4599.

7.07 Laws and Regulations; Taxes

- A. Contractor shall give all notices required by and shall comply with all local, state, and federal Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.
- B. Furthermore, this Contract is awarded subject to Wyoming Water Development Commission (WWDO) oversight and Wyoming statutes regulating public improvement contracts.
- C. Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages if Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations.

- D. Contractor shall pay all applicable sales, consumer, use, and other similar taxes Contractor is required to pay in accordance with Laws and Regulations.

7.08 Record Documents

- A. Contractor shall maintain one printed record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, written interpretations and clarifications, and approved shop drawings in a safe place at the Site. Contractor shall annotate them to show changes made during construction. Contractor shall deliver these record documents to Engineer upon completion of the Work.

7.09 Safety and Protection

- A. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work.
- B. Contractor shall designate a qualified and experienced safety representative whose duties and responsibilities are the prevention of Work-related accidents and maintenance and supervision of safety precautions and programs.
- C. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:
 - 1. All persons on the Site or who may be affected by the Work;
 - 2. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
 - 3. Other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other Work in progress, utilities, and underground facilities not designated for removal, relocation, or replacement in the course of construction.
- D. All damage, injury, or loss to any property caused, directly or indirectly, in whole or in part, by Contractor, or anyone for whose acts the Contractor may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Contract Documents or to the acts or omissions of Owner or Engineer and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor).
- E. Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.
- F. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor shall act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

7.10 Shop Drawings, Samples, and Other Submittals

- A. Contractor shall review and coordinate the shop drawing and samples with the requirements of the Work and the Contract Documents and shall verify all related field measurements,

quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information.

- B. Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that submittal, and that Contractor approves the submittal.
- C. With each submittal, Contractor shall give Engineer specific written notice, in a communication separate from the submittal, of any variations that the shop drawing or sample may have from the requirements of the Contract Documents.
- D. Engineer will provide timely review of shop drawings and samples.
- E. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions or programs.
- F. Engineer's review and approval of a separate item does not indicate approval of the assembly in which the item functions.
- G. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of shop drawings and submit, as required, new samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.
- H. Shop drawings are not Contract Documents.

7.11 Warranties and Guarantees

- A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its officers, directors, members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on the Contractor's and manufacturer's warranty and guarantee.

7.12 Correction Period

- A. If within two (2) years after the date of substantial completion, any Work is found to be defective, or if the repair of any damages to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas used by Contractor as permitted by Laws and Regulations, is found to be defective, then Contractor shall promptly and without cost to Owner, correct such defective Work.
- B. Notice of defective Work shall be made to contractor at the address listed on this contract by certified mail. Response is expected within 30 days of Notice and acceptable action on correction taken within 45 days of Notice. The Owner will file a claim on the Performance Bond within 45 days of Notice if corrective action is not acceptable to the Owner.

7.13 Indemnification

- A. To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under the Contract or otherwise, Contractor shall indemnify and hold harmless Owner and Engineer, and the officials, governing body, representatives, designees, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and chargers of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage including the loss of use

resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any subcontractor, any supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts they may be liable.

ARTICLE 8 - OWNER'S RESPONSIBILITIES

8.01 Owner's Responsibilities

- A. Except as otherwise provided in the Contract Documents, Owner shall issue all communications to Contractor through Engineer.
- B. Owner shall make payments to Contractor as provided in this Contract.
- C. Owner shall provide Site and easements required to construct the Project.
- D. If Owner intends to contract with others for the performance of other Work at or adjacent to the Site, unless stated elsewhere in the Contract Documents, Owner shall have sole authority and responsibility for such coordination.
- E. The Owner shall be responsible for performing inspections and tests required by applicable codes.
- F. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.
- G. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.
- H. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION

9.01 Engineer's Status

- A. Engineer will be Owner's representative during construction. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in this Contract.
- B. Neither Engineer's authority or responsibility under this Article or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any subcontractor, any supplier, any other individual or entity, or to any surety for or employee or agent of any of them.
- C. Engineer, or Engineer's project representative, will be present on the Site acting as an inspector on behalf of Owner during construction.
- D. Engineer has the authority to reject Work if Contractor fails to perform Work in accordance with the Contract Documents.

- E. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work.
- F. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determination on such matters before rendering a written decision thereon by recommendation of an Application for Payment or otherwise.
- G. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.
- H. Engineer may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on Owner and also on Contractor, who shall perform the Work involved promptly. If Owner or Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, Owner may authorize such changes as provided in Article 10.
- I. All project Work shall be in compliance with federal, state, and local regulations and pursuant to this project manual. The City Engineer will be on Site to perform all inspections necessary to ensure compliance. Inspections shall be made throughout this project.

ARTICLE 10 - CHANGES IN THE WORK

10.01 Authority to Change the Work

- A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work.

10.02 Change Orders

- A. Owner and Contractor shall execute appropriate Change Orders covering:
 - 1. Changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;
 - 2. Changes in the Work which are: (a) ordered by Owner or (b) agreed to by the parties or (c) resulting from the Engineer's decision, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters; and
 - 3. Changes in the Contract Price or Contract Times or other changes which embody the substance of any final binding results under Article 12.
- B. If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be

Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

ARTICLE 11 - DIFFERING SUBSURFACE OR PHYSICAL CONDITIONS

11.01 Differing Conditions Process

- A. If Contractor believes that any subsurface or physical condition, including but not limited to utilities or other underground facilities, that are uncovered or revealed at the Site either differs materially from that shown or indicated in the Contract Documents or is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract Documents, then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so.
- B. After receipt of written notice, Engineer will promptly:
 - 1. Review the subsurface or physical condition in question;
 - 2. Determine necessity for Owner obtaining additional exploration or tests with respect to the condition;
 - 3. Determine whether the condition falls within the differing site condition as stated herein;
 - 4. Obtain any pertinent cost or schedule information from Contractor;
 - 5. Prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and
 - 6. Advise Owner in writing of Engineer's findings, conclusions, and recommendations.
- C. After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor regarding the subsurface or physical condition in question, addressing the resumption of Work in connection with such condition, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations, in whole or in part.

ARTICLE 12 - CLAIMS AND DISPUTE RESOLUTION

12.01 Claims Process

- A. The party submitting a claim shall deliver it directly to the other party to the Contract and the Engineer promptly (but in no event later than ten (10) days) after the start of the event giving rise thereto.
- B. The party receiving a claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the claim through the exchange of information and

direct negotiations. All actions taken on a claim shall be stated in writing and submitted to the other party.

- C. If efforts to resolve a claim are not successful, the party receiving the claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the claim within forty-five (45) days, the claim is deemed denied.
- D. If the dispute is not resolved to the satisfaction of the parties, Owner or Contractor shall give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction unless the Owner and Contractor both agree to an alternative dispute resolution process.

12.02 Governmental Impunity

- A. Contractor acknowledges the governmental immunity of the Owner and agrees that nothing herein shall be construed to void the government immunity granted to the Owner. A governmental entity and its public employees while acting within the scope of duties are granted immunity from liability for any tort except as provided by W.S 1-39-105 through 1-39-112 and limited by W.S. 1-39-121. The claims procedures of W.S. 1-39-113 apply to contractual claims against governmental entities.

ARTICLE 13 - TESTS AND INSPECTIONS; CORRECTION OF DEFECTIVE WORK

13.01 Tests and Inspections

- A. Owner and Engineer will have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access.
- B. Contractor shall give Engineer timely notice of readiness of the Work for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests.
- C. If any Work that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering shall be at Contractor's expense.

13.02 Defective Work

- A. Contractor shall ensure that the Work is not defective.
- B. Engineer has the authority to determine whether Work is defective, and to reject defective Work.
- C. Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.
- D. The Contractor shall promptly correct all such defective Work.
- E. When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's warranty and guarantee, if any, on said Work.
- F. If the Work is defective or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated.

- G. Owner may withhold progress payment for rejected Work when noted as described above.

ARTICLE 14 - PAYMENTS TO CONTRACTOR

14.01 Progress Payments

- A. The Contractor shall prepare a schedule of values that will serve as the basis for progress payments. The schedule of values will be in a form of application for payment acceptable to Owner after review by Engineer. The unit price breakdown submitted with the bid will be used for unit price Work. Break lump sum items into units that will allow for measurement of Work in progress.

14.02 Applications for Payments:

- A. Contractor shall submit an application for payment in a form acceptable to the Engineer, no more frequently than monthly, to Engineer. Applications for payment will be prepared and signed by Contractor. Contractor shall provide supporting documentation required by the Contract Documents. Noted defective Work will not be accepted for payment. Payment will be paid for accepted Work completed as of the date of the application for payment.
- B. Beginning with the second application for payment, each application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior applications for payment.

14.03 Retainage

- A. The Owner shall retain 5% as a percentage of the earned value for Work completed as retainage. Retainage may be deposited in an interest-bearing account at Contractors request. The withheld percentage of the contract price of the Work may be retained in an account in the name of the Contractor which has been assigned to the Owner, until the contract is completed satisfactorily and finally accepted by the Owner. All account fees are the Contractors responsibility.

14.04 Review of Applications and Payment.

- A. Within ten (10) days after receipt of each application for payment, the Engineer will either indicate in writing a recommendation for payment and present the application for payment to Owner or return the application for payment to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. The Contractor will make the necessary corrections and resubmit the application for payment.
- B. Engineer will recommend reductions in payment (set-offs) which, in the opinion of the Engineer, are necessary to protect Owner from loss because the Work is defective and requires correction or replacement.
- C. The Owner is entitled to impose set-offs against payment based on any claims that have been made against Owner on account of Contractor's conduct in the performance of the Work, incurred costs, losses, or damages on account of Contractor's conduct in the performance of the Work, or liquidated damages that have accrued as a result of Contractor's failure to complete the Work.

- D. Payment. Contractor's payment applications will be issued by Owner within forty-five (45) days after receipt of Engineer's final recommendation for payment, pursuant to W.S. § 16-6-602.

14.05 Contractor's Warranty of Title

- A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than seven (7) days after the time of payment by Owner.

14.06 Substantial Completion

- A. The Contractor shall notify Owner and Engineer in writing that the Work is substantially complete and request the Engineer issue a certificate of substantial completion when Contractor considers the Work ready for its intended use. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.
- B. Engineer will make an inspection of the Work with the Owner and Contractor to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor and Owner in writing giving the reasons therefor.
- C. If Engineer considers the Work substantially complete or upon resolution of all reasons for non-issuance of a certificate identified in 14.06.B, Engineer will deliver to Owner a certificate of substantial completion which shall fix the date of substantial completion and include a punch list of items to be completed or corrected before final payment.
- D. Pursuant to W.S. § 16-6-116, when any public work is let by contract, the public entity under whose direction or supervision the work is being carried on and conducted shall:
 - 1. Issue a certificate of substantial completion after determination that the public work, or designated portion thereof the public entity agrees to accept separately, is substantially complete;
 - 2. Upon issuance of a certificate of substantial completion, cause notice to be published in a newspaper of general circulation, published nearest the point at which the work is being carried on, once a week for two (2) consecutive weeks, and posted on the public entity's official website. The notice shall set forth in substance that the public entity has accepted the work, or designated portion thereof, as substantially complete according to the contract and associated documents and that the general contractor is entitled to payment as provided in paragraph (iii) of this subsection upon the forty-first day (and the notice shall specify the exact date) after the notice was first published and posted. If the contract provides for multiple substantial completions, this paragraph shall apply to each substantial completion designated in the contract;

14.07 Final Inspection

- A. Upon written notice from Contractor that the entire Work is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

14.08 Final Payment

- A. Contractor may make application for final payment after Contractor has satisfactorily completed all Work defined in the Contract, including providing all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, annotated record documents and other documents.
- B. The final application for payment shall be accompanied (except as previously delivered) by:
 - 1. All documentation called for in the Contract Documents;
 - 2. Consent of the surety to final payment;
 - 3. Satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any liens or other title defects, or will so pass upon final payment;
 - 4. A list of all disputes that Contractor believes are unsettled; and
 - 5. Complete and legally effective releases or waivers (satisfactory to Owner) of all lien rights arising out of the Work, and of liens filed in connection with the Work.
- C. The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment.
- D. Posted Public Notice for final settlement shall be the responsibility of the Owner – this includes publication in the "Rawlins Times" and "Casper Star-Tribune" pursuant to W.S. § 16-6-116 and WWDO requirements.
- E. Pursuant to W.S. § 16-6-116, when any public work is let by contract, the public entity under whose direction or supervision the work is being carried on and conducted shall:
 - 1. Issue a certificate of final completion after determination that the contract is fully performed and all portions of the public work are acceptable under the contract and associated documents. Any amounts withheld under paragraph (iii) of this subsection for the portion of the public work that was determined incomplete or not in accordance with the contract and associated documents and due under the contract shall be paid to the general contractor. The public entity shall post the date of final completion for the public work on the state procurement website or the public entity's official website.
 - 2. This section does not relieve the Contractor and the sureties on his bond from any claims for work or labor done or materials or supplies furnished in the execution of this Contract.

14.09 Waiver of Claims

- A. The making of final payment will not constitute a waiver by Owner of claims or rights against Contractor.
- B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 Owner May Suspend Work

- A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than sixty (60) consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension.

15.02 Owner May Terminate for Cause

- A. Contractor's failure to perform the Work in accordance with the Contract Documents or other failure to comply with a material term of the Contract Documents will constitute a default by Contractor and justify termination for cause.
- B. If Contractor defaults in its obligations, then after giving Contractor and any surety ten (10) days written notice that Owner is considering a declaration that Contractor is in default and termination of the Contract, Owner may proceed to:
 - 1. Declare Contractor to be in default, and give Contractor and any surety notice that the Contract is terminated; and
 - 2. Enforce the rights available to Owner under any applicable performance bond.
- C. Owner may not proceed with termination of the Contract under Paragraph 15.02.B if Contractor within seven (7) days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.
- D. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.
- E. In the case of a termination for cause, if the cost to complete the Work, including related claims, costs, losses, and damages, exceeds the unpaid contract balance, Contractor shall pay the difference to Owner.

15.03 Owner May Terminate for Convenience

- A. Upon seven (7) days written notice to Contractor, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for, without duplication of any items:
 - 1. Completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
 - 2. Expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and

3. Other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
- B. Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

15.04 Contractor May Stop Work or Terminate

- A. If, through no act or fault of Contractor, (1) the Work is suspended for more than ninety (90) consecutive days by Owner or under an order of court or other public authority, or (2) Owner fails to pay Contractor any sum finally determined to be due in accordance with W.S. § 16-6-602, then Contractor may, upon seven (7) days written notice to Owner, and provided Owner does not remedy such suspension or failure within that time, either stop the Work until payment is received, or terminate the Contract and recover payment from the Owner.

ARTICLE 16 - CONTRACTOR'S REPRESENTATIONS

16.01 Contractor Representations

- A. Contractor makes the following representations when entering into this Contract:
 1. Contractor has examined and carefully studied the Contract Documents, and any data and reference items identified in the Contract Documents.
 2. Contractor has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Contractor is familiar with and is satisfied as to all Laws, Regulations, and market conditions that may affect cost, progress, and performance of the Work.
 4. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on:
 - a. The cost, progress, and performance of the Work;
 - b. The means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and
 - c. Contractor's safety precautions and programs.
 5. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 6. Contractor is aware of the general nature of Work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
 7. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

8. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
9. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that, without exception, all prices in the Contract are premised upon performing and furnishing the Work required by the Contract Documents.

ARTICLE 17 - MISCELLANEOUS

- 17.01 Notice. All notices, requests, applications, demands, and other communications under this Contract shall be in writing and shall be deemed to have been duly given on the date of service is personally served on the party to whom notice is to be give, or on the day of mailing if mailed to the party to whom notice is to be given, by first class, registered or certified, postage prepaid, or by express delivery with handling prepaid, and properly addressed as follows:

OWNER: City of Rawlins
Attn: City Manager
521 West Cedar Street
PO Box 953
Rawlins, WY 82301

CONTRACTOR: _____

Attn: _____

ENGINEER: Karl Smith
City of Rawlins Public Works Department
915 3rd Street
Rawlins, WY 82301

- 17.02 Cumulative Remedies. The duties and obligations imposed by this Contract and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.
- 17.03 Limitation of Damages. Neither Owner, Engineer, nor any of their governing body, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.
- 17.04 No Waiver. A party's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Contract.
- 17.05 Survival of Obligations. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract, as well as all continuing obligations

indicated in the Contract, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

- 17.06 Modification and Waiver. This Contract, including any exhibits or addendums, constitutes the entire agreement between the parties pertaining to the subject matter contained in it and supersedes all prior and contemporaneous agreements, representations and understandings of the parties. No supplement, modification or amendment of this Contract shall be binding unless executed in writing by all the parties. No waiver of any of the provisions of this Contract shall be deemed or shall constitute a waiver of any other provision, whether not similar, nor shall any waiver constitute a continuing waiver. No waiver shall be binding unless executed in writing by the party making the waiver.
- 17.07 Applicable Law. The construction, interpretation and enforcement of this Contract shall be governed by the laws of the State of Wyoming. The courts of the State of Wyoming shall have jurisdiction over any action arising out of this Contract and over the parties, and venue for any suit or action on or under this Contract shall be vested solely in the District Court for the Second Judicial District of the State of Wyoming, in Carbon County, Wyoming.
- 17.08 Assignment. Contractor may not assign any interest in this Contract, and shall not transfer any interest in the same (whether by assignment or novation) without the prior written approval of Owner.
- 17.09 Governmental Immunity. Owner specifically retains all immunities and defenses available to it as a governmental entity pursuant to the Wyoming Governmental Claims Act, Wyoming State Statute §1-39-101 et seq., and all other applicable laws. Designation of venue, choice of law, enforcement action, and similar provisions should not be considered as a waiver of governmental immunity.
- 17.10 Kickback. Contractor certifies and warrants that no gratuities, kickbacks, or contingency fees were paid in connection with this Contract, nor were any fees, commissions, gifts, or other considerations made contingent upon the award of this Contract. Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations of Anti-Kickback Act of 1986 in its own operations and direct business relationships. When Contractor has reasonable grounds to believe that a violation may have occurred, Contractor shall promptly report to Owner in writing the possible violation. If Contractor breaches or violates this warranty, Owner may, at its discretion, terminate this Contract without liability to Owner, or deduct from the Contract price or consideration, or otherwise recover, the full amount of any commission, percentage, brokerage, or contingency fee.
- 17.11 Preference for Wyoming Contractors. If applicable, preference shall be given to Wyoming contractors as required by W.S. §16-6-102. Under said statute resident contractors are granted a preference of 5 percent (5%) of the amount of the bid of the lowest non-resident bidder.
- 17.12 Preference to Wyoming Materials and Agricultural Products. If applicable, preference shall be given to Wyoming materials and agricultural products as §16-6-105.
- 17.13 Independent Contractor. Contractor shall function as an independent contractor for the purposes of this Contract, and shall not be considered an employee of Owner for any purpose. Contractor shall assume sole responsibility for any debts or liabilities that may be incurred by the Contractor in fulfilling the terms of this Agreement, and shall be solely responsible for the payment of all federal, state, and local taxes which may accrue because of this Contract. Nothing in this Contract shall be interpreted as authorizing Contractor or its agents and/or employees to

act as an agent or representative for or on behalf of Owner to incur any obligation of any kind on the behalf of Owner. Contractor agrees that no health/hospitalization benefits, workers' compensation and/or similar benefits available to Owner's employees will inure to the benefit of Contractor or Contractor's agents and/or employees as a result of this Contract.

- 17.14 Indemnification. Contractor shall indemnify up to the limitation of liability as set forth in Wyoming State Statute §1-39-118, as it may, from time to time, be amended, and hold harmless Rawlins and its agents and employees from and against all claims, damages, losses and expenses, including attorney's fees arising out of or resulting from acts or omission caused in whole or in part by any negligent act or omission of Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. Owner, without waiving Governmental immunity or protections of the Wyoming Governmental Claims Act, will be responsible for damages or losses resulting from its negligence.
- 17.15 Survival. All express representations, waivers, indemnifications, and limitations of liability included in this Agreement will survive its completion or termination.
- 17.16 Binding Effect. This Contract shall be binding on, and shall inure to the benefit of, the parties to it and their respective heirs, legal representatives, successors and assigns.
- 17.17 Assignment/Agreement Not Used as Collateral. Neither party shall assign or otherwise transfer any of the rights or delegate any of the duties set forth in this Contract without the prior written consent of the other party. Company shall not use this Contract, or any portion thereof, for collateral for any financial obligation, without the prior written permission of Owner.
- 17.18 Gender and Number. Unless the context clearly indicates the contrary, the singular number shall include the plural, the plural the singular and the use of any gender shall be applicable to all genders.
- 17.19 Nondiscrimination. Contractor shall comply with the Civil Rights Act of 1964, the Wyoming Fair Employment Practices Act, W.S. §27-9-101 et seq., and the Americans with Disabilities Act (ADA), 42 W.S.C. §12101, et seq. Contractor shall assure that no person is discriminated against based on the grounds of age, race, sex, creed, color, national origin, ancestry, qualified disability, or pregnancy in connection with the performance of this Contract.
- 17.20 Severability. Should any portion of this Contract be judicially determined to be illegal or unenforceable, the remainder of this Contract shall continue in full force and effect, and either party may renegotiate the terms affected by the severance.
- 17.21 Documented Workers. Contractor will not knowingly employ or contract with an illegal alien; Contractor shall not enter into a contract with a subcontractor that fails to certify to Contractor that the subcontractor shall not knowingly employ or contract with an illegal alien.
- 17.22 Mediation. The parties agree that in the event of any disagreement between the parties concerning the interpretation or implementation of this Contract and its attachments, the parties may mediate the issue as described in the Wyoming Mediation Act, W.S. §1-43-101 et. seq. Nothing herein will be binding on Owner if it violates its governmental immunity or protections under the Wyoming Governmental Claims Act or violates the governmental claims act. Any mediator must be acceptable to both parties.
- 17.23 Costs and Attorney's Fees. In the event either party defaults and the injured party elects to exercise rights through court action or otherwise, and that party incurs any costs, expenses or attorney fees by reason of such exercise, the defaulting party agrees to pay the non-defaulting

party all such reasonable costs, expenses and reasonable attorney fees in connection with the enforcement of the non-defaulting parties rights.

- 17.24 Preparation of Agreement. The parties acknowledge this Agreement has been prepared by the Rawlins City Attorney who represents only the interests of Owner in this transaction. Contractor certifies and agrees Contractor has either been represented by counsel or has voluntarily chosen not to have counsel prior to or at the execution of this agreement.
- 17.25 Successors. The terms, covenants, and conditions hereof shall be binding upon, and inure to the benefit of, the heirs, personal representatives, or successors of the parties.
- 17.26 Entirety of Agreement. This Contract, including any exhibits, addenda, and attachments, represents the entire and integrated Contract between the parties and supersedes all prior negotiations, representations, and agreements, whether written or oral.
- 17.27 Prior Approval. This Contract shall not be binding upon either party unless this Contract has been reduced to writing and executed by all parties hereto before performance begins as described under the terms of this Contract, and unless this Contract is approved as to form by the Rawlins City Attorney.
- 17.28 Ambiguities. The parties agree that any ambiguity in this Contract shall be constructed to carry out the intent of this Agreement.
- 17.29 Third Party Beneficiary Rights. The parties do not intend to create any other individual or entity with the status of third-party beneficiary, and this Contract shall not be construed so as to create such status. The rights, duties and obligations contained in this Agreement shall operate only between the parties to this Contract, and shall inure solely to the benefit of the parties to this Contract. The provisions of this Contract are intended only to assist the parties in determining and performing their obligations under this Contract.
- 17.30 Captions. The captions and headings of the various sections and paragraphs of this Contract have been inserted only for the purpose of convenience of reference, and are not part of this Contract and shall not be deemed any manner to modify, enlarge or restrict any of the provisions of this Contract.
- 17.31 Counterparts and Facsimile Signatures. This Contract may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Facsimile transmission of a signature shall be sufficient to evidence execution of this Contract.
- 17.32 Signatures. The parties to this Contract, through their duly authorized representatives have executed this Contract on the dates of signing, and certify that they have read, understood, and agreed to the terms and conditions of this Contract as forth herein. Each individual executing this Contract for and on behalf of their principals hereby state that they have requisite authority to bind their principals to each and every term of this Contract.

[THIS AREA INTENTIONALLY LEFT BLANK – SIGNATURES FOLLOW]

This Contract was available to the Contractor for review prior to submitting a bid on this project. The Contractor acknowledges Contractor has not acted under duress or compulsion, whether legal, economic or otherwise. Accordingly, the terms and provisions hereof shall be construed in accordance with their usual and customary meanings. The parties hereby waive the application of any rule of law which otherwise might be applicable to the construction of this Agreement that ambiguous or conflicting terms or provisions should be construed against the party who (or whose attorney) prepared the executed Agreement or any earlier draft of the same.

The Contract date is the date of the last signature affixed to this page.

OWNER:

CITY OF RAWLINS, A Wyoming Municipal Corporation

Dated: _____

BY: _____
JACQUELIN R. WELLS, Mayor

(SEAL)

Attest:

Lynn Shearer, City Clerk

Approved as to form:

Pinita Maberry-Nave, City Attorney

Dated: _____

Contractor's signatory hereby represents and warrants that s/he is duly authorized to execute and deliver this Contract on behalf of the Contractor and that this Contract is binding upon Contractor in accordance with its terms.

SUBSCRIBED AND SWORN to before me on this ____ day of _____, 202____, by _____ with actual and requisite authority to bind [CONTRACTOR] to this agreement and does so as their free and voluntary act and deed.

Notary Public
My commission expires: _____

01012 BID FORM

CITY OF RAWLINS - 2026 SPRING CREEK PIPELINE CATHODIC PROTECTION REHAB

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to the CITY OF RAWLINS, a Wyoming Municipal Corporation

1.02 This Bid is submitted by: Bidder Name:

1.03 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner on the Project Contract (01011) included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Submittal of Bid (01002), including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 45 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

- A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.1 Addendum 3/29/2026

- B. Bidder has investigated the Site, conducted a thorough, alert examination of the existing plans, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on
- a. The cost, progress, and performance of the Work
 - b. The means, methods, techniques, sequences, and procedures of construction to be employed by Bidder
 - c. Bidder’s safety precautions and programs.

- E. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- F. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- G. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- H. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.

The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D
 - a. "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 - b. "Fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - c. "Collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 - d. "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

BASE BID _____

Project: 2026 Sage Creek Springs Pipeline
Cathodic Protection ReHab

Section	Item	Units	Estimated Quantity	Unit Cost	Cost
02001	Mobilization	LS	1		
02010	Traffic Control	LS	1		
02021	Stormwater Permit	LS	1		
15000	Corrosion Assessment	LS	1		
15010	Joint Bonds - TYP	EA	40		
15010	Joint Bonds - ATYP	EA	10		
15020	Test Stations-TYP	EA	30		
15020	Test Stations-ATYP	EA	10		
15030	Deep Well Anode and Rectifier	LS	1		
15040	Post Install Reporting	LS	1		
				TOTAL	

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

Bidder acknowledges that the contract days specified are considered by Bidder to be adequate for project completion and there are liquidated damages for exceeding specified contract days. Contract days shall be counted as Calendar days and not business days.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security in the form of a Bid Bond.
- B. Wyoming Residency Certificate: Yes____ No____
- C. Tabulation of Subcontractors, Suppliers
- D. Required Bidder Qualification Statement with supporting data

ARTICLE 8 – BID SUBMITTAL

9.01 FULL BIDDER NAME:

By:

[Signature]

[Printed name and Title]

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature]

[Printed name] Title:

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Contact: _____

Email: _____

01015-NOTICE OF AWARD

Date of Issuance:

OWNER: City of Rawlins, A Wyoming Municipal Corporation

CONTRACT: **2026 SAGE CREEK PIPELINE CATHODIC PROTECTION REHAB**

ENGINEER: City Engineer

BIDDER: _____

BIDDER'S
ADDRESS: _____

TO BIDDER:

You are notified that Owner has accepted your Proposal dated _____ for the above Contract, and that you are the Successful Bidder and are awarded a Contract for the following project:

2026 SAGE CREEK PIPELINE CATHODIC PROTECTION REHAB

Additional details:

1. The Awarded Contract is based on an estimate of installed quantities per Bid Form 01012.
2. City Engineer will be the Project Contact and provide Project Review.
3. Additional documents may be incorporated by reference into the contract documents. In the event of any discrepancies, the City of Rawlins: Small Project Contract will supersede any referenced documents.

You must comply with the following conditions within 30 calendar days of the date of receipt of this Notice of Award that is by:

Deliver to Owner 3 executed counterparts of the Project Notebook provided.

Provide an acceptable Performance Bond for the estimated services.

Certificates of Insurance listing the City of Rawlins as Additional Insured.

Within ten days after you comply with the above conditions, Owner will return to you one fully executed counterpart of the Agreement and Project Notebook.

At the Contractor's request, a Notice to Proceed can accompany the executed contract documents. The contract days will commence upon issuance of the Notice to Proceed. The Notice to Proceed will be issued no later than _____ and contract days will commence under the terms of the contract documents.

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Proposal forfeited and recoup Bid Bond.

OWNER: CITY OF RAWLINS, A WYOMING MUNICIPAL CORPORATION

BY: _____

(Authorized Signature)

NAME
& TITLE _____

01016 - BID BOND

Any singular reference to Bidder, Surety, Owner, or other party shall be consider plural where applicable

BIDDER (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

City of Rawlins, a Wyoming Municipal Corporation
521 W Cedar Street
PO Box 953
Rawlins, WY 82301

BID

Bid Due Date:

Project (Brief Description Including Location):

BOND

Bond Number:

Date (Not later than Bid due date):

Penal sum _____
(Words) (Numerals)

Surety and Bidder, intending to be legally bound hereby, subject to the term printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER

SURETY

(Seal) (Seal-If Avail)
Bidder's Name and Corporate Seal (If Avail) Surety's Name and Corporate Seal

By: _____
Signature and Title

By: _____
Signature and Title
(Attach Power of Attorney)

Attest: _____
Signature and Title

Attest: _____
Signature and Title

Note: Above addresses are to be used for giving required notice.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - a. Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - b. All Bids are rejected by Owner, or
 - c. Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

**01017 - CITY OF RAWLINS, A WYOMING
MUNICIPAL CORPORATION
NOTICE TO PROCEED**

To: _____
Contractor

Address: _____

Project Name: _____

Project No: _____

You are notified that the Contract Times under the above contract will commence to run on _____.
On that date, you are to start performing your obligations under the Contract Documents. In accordance with
Article 4 of the Agreement, the number of days to achieve Substantial Completion is _____,
and the number of days to achieve readiness for final payment is _____.

Also, before you may start any Work at the Site, you must [*add other requirement*]:

City of Rawlins
Owner

By: _____
Karl Smith, City Engineer

Date

ACCEPTANCE OF NOTICE

RECEIPT OF THE ABOVE NOTICE TO PROCEED IS HEREBY ACKNOWLEDGED.

By: _____, this _____ day of _____, 20__.
Contractor

By: _____
Contractor

Name: _____

Title: _____

01018 - PERFORMANCE BOND

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principle Place of Business):

OWNER (Name and Address):

CONTRACT

Date:

Amount:

Description (Name and Location)

BOND

Bond Number:

Date (Not earlier than Contract Date):

Amount:

Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the following pages hereof, for each cause this Performance Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

SURETY

Company:

Signature: _____ (Seal)

Name and Title: _____ (If Avail)

(Seal)

Surety's Name and Corporate Seal (If Avail)

By: _____

Signature and Title

(Attach Power of Attorney)

Attest: _____

Signature and Title

(Space is provided below for signatures of additional parties, if required)

CONTRACTOR AS PRINCIPAL

SURETY

Company:

Signature: _____ (Seal)

Name and Title: _____ (If Avail)

(Seal)

Surety's Name and Corporate Seal (If Avail)

By: _____

Signature and Title

(Attach Power of Attorney)

Attest: _____

Signature and Title

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner for the performance of the Contract, which is incorporated herein by reference.
2. If Contractor performs the Contract, Surety and Contractor have no obligation under this Bond, except to participate in conferences as provided in Paragraph 3.1.
3. If there is no Owner Default, Surety's obligation under this Bond shall arise after:
 - 3.1 Owner has notified Contractor and Surety, at the addresses described in Paragraph 10 below, that Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with Contractor and Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If Owner, Contractor and Surety agree, Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive Owner's right, if any, subsequently to declare a Contractor Default; and
 - 3.2 Owner has declared a Contractor Default and formally terminated Contractor's right to complete the Contract. Such Contractor Default shall not be declared earlier than 20 days after Contractor and Surety have received notice as provided in Paragraph 3.1; and
 - 3.3 Owner has agreed to pay the Balance of the Contract Price to:
 1. Surety in accordance with the terms of the Contract;
 2. Another contractor selected pursuant to Paragraph 4.3 to perform the Contract.
4. When Owner has satisfied the conditions of Paragraph 3, Surety shall promptly and at Surety's expense take one of the following actions:
 - 4.1 Arrange for Contractor, with consent of Owner, to perform and complete the Contract; or
 - 4.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or
 - 4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to Owner for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by Owner and Contractor selected with Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Contract, and pay to Owner the amount of damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by Owner resulting from Contractor Default; or
 - 4.4 Waive its rights to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:
 1. After investigation, determined the amount for which it may be liable to Owner and, as soon as practicable after the amount is determined, tender payment therefore to Owner; or
 2. Deny liability in whole or in part and notify Owner citing reasons therefore.
5. If Surety does not proceed as provided in Paragraph 4 with reasonable promptness, Surety shall be deemed to be in default on this Bond 15 days after receipt of an additional written notice from Owner to Surety demanding that Surety perform its obligations under this Bond, and Owner shall be entitled to enforce any remedy available to Owner. If Surety proceeds as provided in Paragraph 4.4, and Owner refuses the payment tendered or Surety has denied liability, in whole or in part, without further notice Owner shall be entitled to enforce any remedy available to Owner.
6. After Owner has terminated Contractor's right to complete the Contract, and if Surety elects to act under Paragraph 4.1, 4.2, or 4.3 above, then the responsibilities of Surety to Owner shall not be greater than those of Contractor under the Contract, and the responsibilities of Owner to Surety shall not be greater than those of Owner under the Contract. To a limit of the amount of this Bond, but subject to

commitment by Owner of the Balance of the Contract Price to mitigation of costs and damages on the Contract, Surety is obligated without duplication for:

- 6.1 The responsibilities of Contractor for correction of defective Work and completion of the Contract;
 - 6.2 Additional legal, design professional, and delay cost resulting from Contractor's Default, and resulting from the actions or failure to act of Surety under Paragraph 4; and
 - 6.3 Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or nonperformance of Contractor.
- 7. Surety shall not be liable to Owner or others for obligations of Contract that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than Owner or its heirs, executors, administrators, or successors.
 - 8. Surety hereby waives notice of any change, including changes of time, to Contract or to related subcontracts, purchase orders, and other obligations.
 - 9. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located and shall be instituted within two years after Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
 - 10. Notice of Surety, Owner, or Contractor shall be mailed or delivered to the address shown on the signature page.
 - 11. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
 - 12. Definitions.
 - 12.1 Balance of the Contract Price: The total amount payable by Owner to Contractor under the Contract after all proper adjustments have been made, including allowance to Contractor of any amounts received or to be received by Owner in settlement of insurance or other Claims for damages to which Contractor is entitled, reduced by all valid and proper payments made to or on behalf of Contractor under the Contract.
 - 12.2 Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.
 - 12.3 Contractor Default: Failure of Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.
 - 12.4 Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or comply with the other terms thereof.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in Wyoming.

01019 - PAYMENT BOND

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principle Place of Business):

OWNER (Name and Address):

CONTRACT

Date:

Amount:

Description (Name and Location)

BOND

Bond Number:

Date (Not earlier than Contract Date):

Amount:

Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the following pages hereof, for each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

SURETY

Company:

Signature: _____ (Seal)

(Seal)

Name and Title: _____ (If Avail)

Surety's Name and Corporate Seal (If Avail)

By: _____

Signature and Title

(Attach Power of Attorney)

Attest: _____

Signature and Title

(Space is provided below for signatures of additional parties, if required)

CONTRACTOR AS PRINCIPAL

SURETY

Company:

Signature: _____ (Seal)

(Seal)

Name and Title: _____ (If Avail)

Surety's Name and Corporate Seal (If Avail)

By: _____

Signature and Title

(Attach Power of Attorney)

Attest: _____

Signature and Title

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner to pay for labor, materials, and equipment furnished by Claimants for the use in the performance of the Contract, which is incorporated herein by reference.
2. With respect to Owner, this obligation shall be null and void if Contractor;
 - 2.1 Promptly makes payment, directly or indirectly, for all sums due Claimants, and
 - 2.2 Defends, indemnifies, and holds harmless Owner from all claims, demands, liens, or suits alleging non-payment by Contractor by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contractor and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to Contractor and Surety, and provided there is no Owner Default.
3. With respect to Claimants, this obligation shall be null and void if Contractor promptly makes payment, directly or indirectly, for all sums due.
4. Surety shall have no obligation to Claimants under this Bond until:
 - 4.1 Claimants who are employed by or have a direct contract with Contractor have given notice to Surety (at the addresses described in Paragraph 12) and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.
 - 4.2 Claimants who do not have a direct contract with Contractor:
 1. Have furnished written notice to Contractor and sent a copy, or notice thereof, to Owner, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and
 2. Have either received a rejection in whole or in part from Contractor, or not received within 30 days of furnishing the above notice any communication from Contractor by which Contractor has indicated the claim will be paid directly or indirectly; and
 3. Not having been paid within the above 30 days, have sent a written notice to Surety and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to Contractor.
5. If a notice by a Claimant required by Paragraph 4 is provided by Owner to Contractor or to Surety, that is sufficient compliance.
6. When a Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at Surety's expense take the following actions:
 - 6.1 Send an answer to the Claimant, with a copy to Owner, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.
 - 6.2 Pay or arrange for payment of any undisputed amounts.
7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.

8. Amounts owed by Owner to Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By Contractor furnishing and Owner accepting this Bond, they agree that all funds earned by Contractor in the performance of the Contract are dedicated to satisfy obligations of Contractor and Surety under this Bond, subject to Owner's priority to use the funds for the completion of the Work.
9. Surety shall not be liable to Owner, Claimants, or others for obligations of Contractor that are unrelated to the Contract. Owner shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.
10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.
11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials, or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
12. Notice of Surety, Owner, or Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, Owner, or Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.
13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.
14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.
15. **DEFINITIONS**
 - 15.1 Claimant: An individual or entity having a direct contract with Contractor, or with a first-tier subcontractor of Contractor, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of Contractor and Contractor's Subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.
 - 15.2 Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.
 - 15.3 Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or comply with the other terms thereof.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in Wyoming



To Owner	City of Rawlins
Project	
Project No.	

Application Period
Contractor
Contract Date
Contractor's Project No.

Pay Request No.
Application Date:
Project Engineer
Engineer's Project No.

Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
TOTALS	\$ -	\$ -
	NET CHANGE BY CHANGE ORDERS	\$ -

- ### ENGINEER'S RECOMMENDATION

Payment of: (Line 8 or attached explanation of other amount)

\$ _____

(ENGINEER)

DATE _____

CONTRACTOR'S CERTIFICATION

(CONTRACTOR)

DATE _____

OWNER'S ACCEPTANCE

CITY REPRESENTATIVE

DATE _____

Progress Estimate

Contractor's Application

Project:		Application Number:	
Application Period:		Application Date:	

[illegible]

Progress Estimate

Contractor's Application

Project:		Application Number:	
Application Period:		Application Date:	

[illegible]

Stored Material Summary

Contractor's Application

[illegible]

Date of Issuance: _____ Effective Date: _____

The Contract Documents are modified as follows upon execution of this Change Order:

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
----------------------------------	----------------------------------

[illegible]

Ready for final payment (days or date): _____

Ready for final payment (days or date): _____

Ready for final payment (days or date): _____

ACCEPTED.

Date:

01022 - Work Change Directive

No. _____

Date of Issuance: _____ Effective Date: _____

Project:	Owner: City of Rawlins	Project No.:
Contractor:		Date of Contract:

You are directed to proceed promptly with the following change(s):

Item No.	Description

Attachments (list documents supporting change):

Purpose for Work Change Directive:

Authorization for Work described herein to proceed on the basis of Cost of the Work due to:

- ☐ Non-agreement on pricing of proposed change.
- ☐ Necessity to expedite Work described herein prior to agreeing to changes on Contract Price and Contract Time.
- ☐ Other: |

Estimated change in Contract Price and Contract Times:

Contract Price \$ _____ (increase/decrease) Contract Time _____ (increase/decrease)
days

If the change involves an increase, the estimated amounts are not to be exceeded without further authorization.

Recommended for Approval by Engineer:	Date
Accepted for Contractor by:	Date
Authorized for Owner by:	Date
Approved by City Administrator: (if applicable)	Date

(Applicable if Work Change Directive exceeds 10% of the original Contract price [cumulative].)

**01023 - CITY OF RAWLINS
CERTIFICATE OF SUBSTANTIAL COMPLETION**

Project: _____

Project No.: _____

Owner: City of Rawlins, a Wyoming Municipal Corporation

Date of Contract: _____

Contractor: _____

This Certificate of Substantial Completion applies to:

_____ All Work under the Contract Documents:

_____ The following specified portions:

Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Project or portion thereof designated above is hereby declared except as stated below.

A list of items to be completed or corrected is attached hereto. This list may not be all inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as provided in the Contract Documents except as amended as follows:

_____ Amended Responsibilities
_____ Not Amended

Owner's Amended Responsibilities:

Contractor's Amended Responsibilities:

The following documents are attached to and made part of this Certificate:

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

Executed by Engineer

Date

Executed by Contractor

Date

Executed by Owner

Date

**01024 - CITY OF RAWLINS CERTIFICATE OF
FINAL COMPLETION**

Project: _____

Project No.: _____

Date of Contract: _____

Owner: City of Rawlins, a Wyoming Municipal Corporation

Contractor: _____

Engineer: _____

This Certificate of Final Completion applies to:

_____ All Work under the Contract Documents:

_____ The following specified portions:

Date of Final Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor and Engineer, and found to be complete in accordance with the Contract Documents.

The project will be advertised according to W.S. 16-6-116, and the Affidavit on Behalf of the Contractor is attached to and made part of this Certificate.

Executed by Contractor Date

Executed by Engineer Date

Executed by Owner Date

01025 - NOTICE OF ACCEPTANCE AND FINAL PAYMENT
- 2026 SAGE CREEK PIPELINE CATHODIC PROTECTION REHAB

PLEASE TAKE NOTICE that pursuant to Wyoming State Statute §16-6-116, notice is hereby given that the City of Rawlins, a Wyoming Municipal Corporation has accepted as **substantially –or- complete according to plans, specifications and rules governing the same, the work performed, materials, equipment or tools furnished or used and services rendered under that certain contract dated _____, between the City of Rawlins, a Wyoming Municipal Corporation, the Owner, and

2026 SAGE CREEK PIPELINE CATHODIC PROTECTION REHAB, Rawlins, Carbon County, Wyoming and the Contractor is entitled to final payment there of _____ upon completion of the punch list, provided to the contractor from the city. **You are further notified that the City of Rawlins will cause, to be compensated in full –or- all but *\$ _____, according to the terms of said Contract on or after _____**, being the 41st day after the first publication notice of _____. All corporations, firms or persons having claims against this contract are hereby notified to file and present them to the Rawlins City Clerk prior to the date specified for final payment at the address below and **any failure to file and present claims prior to the payment date shall waive all claims. DATED** this _____ day of _____, 2026.

Please mail claims to:

City of Rawlins
Attention: City Clerk
PO Box 953
Rawlins, WY 82301-0953

**** City Project Lead

Publish: *Casper* Star-Tribune:

_____	2026;
_____	2026, and
_____	2026.

01026 - W A R R A N T Y

(Contractor)

_____ hereinafter the CONTRACTOR, does expressly affirm, promise and guarantee all project improvements including materials, equipment and workmanship on the _____ FOR A PERIOD OF **Two Years** FROM THE DATE THE PROJECT IMPROVEMENTS ARE SUBSTANTIALLY COMPLETED. In the event that a particular item of equipment or major element of the total project improvements was placed into continuous service prior to Substantial Completion of the total project, an Attachment A may be attached to this Warranty to designate the separate warranty periods. Attachment A shall only be used when the requirements of Supplementary Condition 13.07 have been met.

CONTRACTOR further agrees in the event that any or all of the Project improvements fail to conform to the Contract Documents or require any rebuilding, construction or reconstruction to keep Project improvements in conformity with the Contract Documents or to bring Project improvements up to the Contract Document Specifications that CONTRACTOR will pay all necessary, reasonable and normal costs whatsoever, incurred by the City of Rawlins in repairing, construction, reconstruction, or rebuilding any of the Project improvements which at any time within the above mentioned period of **TWO YEARS** is not in conformity with the Contract Documents.

Provided, however: That the City of Rawlins shall give written notice to CONTRACTOR that the City of Rawlins intends to perform work on the Project improvements and that said notice shall specify the improvement, its location and the cause or kind of non-conformity with reference to the relevant Contract Documents. Said notice shall be sent to CONTRACTOR by registered mail before the City begins any work or incurs any cost unless an emergency situation occurs. The occurrence of an emergency shall be determined in the reasonable discretion of the City Engineer of the City of Rawlins, and is declared to be an event which renders advance notice contrary to the health, safety or welfare of the residents of the City of Rawlins. In case the City Engineer finds the existence of an emergency requiring immediate action he shall serve notice to CONTRACTOR in the form above mentioned as soon as practical and shall include an explanation of the state of affairs requiring emergency action.

Provided, further: That the obligation of CONTRACTOR shall be to compensate the City of Rawlins for bringing any improvements up to the Contract Documents Specifications and this obligation shall cover all work necessary to bring the improvement into conformity, even if the work occurs after the expiration of the two year period specified above if the City sent notice as provided above within the two year period or, in the case of any emergency as provided above if the City actually began work on the improvement within the two year period.

CONTRACTOR and the City of Rawlins agree and acknowledge that this Agreement is the consideration for acceptance by the City of Rawlins of the Project improvements for maintenance by the City of Rawlins including, but not limited to the release of any performance or penal bonds, letters of credit, cash escrows, promissory notes or other securities posted and approved to secure the installation of required Project improvements for _____

DATED this _____ day of _____, 20__

CONTRACTOR (COMPANY NAME)

SIGNATURE (TITLE)

STATE OF WYOMING }
 }
COUNTY OF CARBON } SS

The foregoing instrument was acknowledged before me by _____,
this _____ day of _____, 20__

Witness my hand and official seal

Notary Public

My commission Expires:

**APPROVED BY CITY OF RAWLINS,
A WYOMING MUNICIPAL
CORPORATION**

Jacquelin R Wells, Mayor

ATTEST:

Lynn Shearer, City Clerk

SECTION 01340

SUBMITTALS

PART 1 GENERAL

1.01 SUMMARY

- A. Comply with Submittal format requirements as specified
- B. Provide digital submittals with provided forms as listed in individual sections of the Contract Documents including:
 - 1. Test Points
 - 2. Deepwell Anode
 - 3. Rectifier
 - 4. Joint Bond
- C. Provide required resubmittals in the appropriate distribution if original submittals are not approved.
- D. Samples and shop drawings shall be prepared specifically for this project. Shop drawings shall include dimensions and details, including adjacent construction and related work. Note any special coordination required. Note any deviations from requirements of the Contract Documents.
- E. Provide warranties as specified. Warranties shall not limit length of time for remedy of damages Owner may have by legal statute. Warranties shall be signed by Contractor, Supplier or Installer responsible for performance of warranty.

END OF SECTION

SUBMITTAL FORM

Transmittal No. _____

PROJECT: 2026 SAGE CREEK PIPELINE CATHODIC PROTECTION REHAB

CONTRACTOR: _____

SUBCONTRACTOR/SUPPLIER: _____

Pertinent Drawing Sheet &/or Detail Number(s): _____

Specification Section Number: _____

Bid Form Items: _____

Substitute Items (Reason for pursuing an Approved Equal Item): _____

Supporting Documentation Attached: ☐ Yes ☐ No

Note: Substitute items without supporting documentation will not be reviewed.

CONTRACTOR'S STAMP

By: _____
Date: _____

ENGINEER'S STAMP

APPROVED ()
APPROVED AS NOTED ()
REVISE AND RESUBMIT ()
NOT APPROVED ()

ENGINEER'S review and approval of this submittal are expressly limited as provided in the Contract Documents and are only to determine conformance with information given in the Contract Documents and compatibility with design concept of completed project as a functioning whole and as indicated in the Contract Documents.

CONTRACTOR is, and ENGINEER is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including all safety aspects of performing the Work) and for coordinating the Work.

ENGINEER

By: _____
Date: _____

ENGINEER'S REMARKS:

Note: This form shall be submitted with each copy of each individual item requiring Engineer's approval. Any submittal form with multiple product attachments will not be reviewed.

SECTION 01701
CONTRACT CLOSEOUT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A.** Closeout procedures.
- B.** Final cleaning.
- C.** Adjusting.
- D.** Project record documents.

1.2 CLOSEOUT PROCEDURES

- A.** Submit written request for Substantial Completion. Include written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for ENGINEER'S inspection.
- B.** Provide submittals to ENGINEER that are required by governing or other authorities.
- C.** Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

1.3 FINAL CLEANING

- A.** Execute final cleaning prior to final inspection.
- B.** Clean site; sweep paved areas, rake clean landscaped surfaces.
- C.** Remove waste and surplus materials, rubbish, and construction facilities from the site.

1.4 PROJECT RECORD DOCUMENTS

- A. Maintain on site, one set of the following record documents; record actual revisions to the Work:
 - 1. Contract Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other Modifications to the Contract.
 - 5. Reviewed shop drawings, product data, and samples.
- B. Store Record Documents separate from documents used for construction.
- C. Record information concurrent with construction progress.
- D. Submit documents to ENGINEER at issuance of substantial completion certificate.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 02001
MOBILIZATION

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Preparatory operations.
- B. Movement of personnel, equipment, supplies and incidentals to the project site.
- C. Establishment of temporary offices, buildings and other facilities.
- D. Other Work and operations which must be performed prior to beginning Work on the various items on the project.
- E. Materials in storage is not included in calculation of Bid Items worked.
- F. Demobilization.

1.2 UNIT PRICE MEASUREMENT AND PAYMENT

- A. Basis of Measurement: Computed monthly based on the percentage of the original contract amount earned by Bid Items worked, (Total work completed), and Change Orders approved, in accordance with the following:
 - 1. When the percentage of the original contract amount shown in Column 1 is earned, the percentage of the contract lump sum price for mobilization shown in Column 2 or the percentage of the original contract amount shown in Column 3, whichever is lesser, will be paid.

Column 1, Percentage of Original Contract Amount Earned	Column 2, Percentage of Lump Sum Price For Mobilization	Column 3, Percentage of Original Contract Amount
0	0	0
1	4	0.5
2	8	1.0
3	12	1.5
4	16	2.0
5	20	2.5
10	50	5.0

15	53.33	5.33
20	56.67	5.67
30	63.75	6.38
40	71.25	7.13
50	78.75	7.88
60	86.25	8.63
70	93.33	9.33
80	100%	10.0
95	---	

2. Upon substantial completion of Work on the project, payment of any amount bid for mobilization in excess of 10% of the original contract amount will be paid.
3. Intermediate values will be computed on the basis of straight-line interpolation.
4. Pay remainder of mobilization bid item including any amount in excess of 10% of the original contract amount.

B. Basis of Payment

- | | | |
|-----|---------------|---------------|
| 1 . | B i d I t e m | P a y U n i t |
| | Mobilization | LS |
| 2 . | Paid monthly | |

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 02010

TRAFFIC CONTROL

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Providing traffic control during construction
- B. Public notice during construction

1.2 RELATED SECTIONS

- A. Apply other sections of specifications to the extent required for proper performance of this work.

1.3 UNIT PRICE - MEASUREMENT AND PAYMENT

- A. Basis of Measurement: Measured as a single unit.

- B. Basis of Payment:

1 . Bid Item Pay Unit

Traffic Control LS

2 . Paid monthly, for each month traffic control is required.

3 . The value of the work completed, requiring traffic control, will be computed as a percentage of the total bid for work requiring traffic control.

4 . The lump sum price bid for traffic control will be multiplied by the percentage computed in Part 1.3-B.3. to determine the monthly payment.

1.4 REFERENCES

- 1. Manual on Uniform Traffic Control Devices (MUTCD).
- 2. Regular City of Rawlins work notice.

PART 2 PRODUCTS

NOT USED.

PART 3 EXECUTION

3.1 PROTECTION OF WORK

- 1. Take all reasonable precautions to protect the work from traffic.
- 2. Work is predominantly on Count Road 401 and at a minimum there should be two "Caution Construction Ahead" or similar signs and warning cones around vehicles parked on the roadside.

3. Portion of work is along Wyoming State Highway 71 and at a minimum there should be two “Caution Construction Ahead” signs and warning cones around vehicles parked on the roadside.

3.2 TRAFFIC CONTROL PLAN

1. Traffic Control Plan: Submit plan to coordinate with the appropriate management entities. Plan approval is required prior to starting any work requiring traffic control. Plan shall address hours of closure, signage location, and other access and traffic issues. A template parking and access plan is acceptable.
2. Contractor responsible for contacting stakeholders: wYdOT, County Roads Department, Property Owners, Carbon County Sheriff's Department, Carbon County Ambulance.
3. City personnel will make posts to City social media and newspaper.
4. Traffic Movement: Comply with traffic control plan and all agency requirements, including signing, flagging, barricades, warning lights, and other protective devices.
5. Traffic Control Maintenance: Maintain all traffic control devices as required, including cleaning, washing, resetting, and adding reflective markers. Alter traffic control as needed for day time and night time operations or closures.

3.3 PRIVATE ROADS AND APPROACHES

- A. Coordinate road closure with OWNER or user of road.
- B. Minimize disruption of access.

END OF SECTION

SECTION 02021

GENERAL STORM WATER PERMIT FOR CONSTRUCTION ACTIVITIES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Applying for and securing approval for a Wyoming Department of Environmental Quality (DEQ) General Storm Water Permit for Construction Activities.
- B. Developing, implementing, inspecting, and monitoring a Storm Water Pollution Prevention Plan for the project.

1.2 RELATED SECTIONS

- A. Section 01120 - Project Permits Obtained by Contractor.
- B. Section 02270 - Erosion Control Devices.

1.3 UNIT PRICE - MEASUREMENT AND PAYMENT

- A. Basis of Measurement: Measured as a single unit.
- B. Basis of Payment:
 - 1. No separate payment for this item.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.1 PERMIT APPLICATION

- A. Develop Storm Water Pollution Prevention Plan (SWPPP) and submit a Notice of Intent for General Storm Water Permit for Construction Activities.
- B. Provide a copy of the approved permit and SWPPP to OWNER prior to commencing any work on Project.

3.2 PLAN IMPLEMENTATION AND MONITORING

- A.** Provide and install pollution and erosion control measures as required by SWPPP.
- B.** Conduct self-monitoring as required by the permit and modify SWPPP as necessary.
- C.** Complete and sign inspection reports as required by the permit. Retain reports (or copy of reports) at the site.

3.3 PERMIT TRANSFER

- A.** Provide OWNER with copies of all required inspection reports and most recent SWPPP.
- B.** Upon completion of the project, file Notice of Termination with DEQ. Indicate transfer of permit to OWNER if required.

END OF SECTION

SECTION 02071

CONSTRUCTION WATER

PART 1 GENERAL

1.1 SECTION INCLUDES

- A.** Construction water for dust control.
- B.** Construction water for embankment.
- C.** Construction water for structural embankment.
- D.** Construction water for trench backfilling and compaction.

1.2 RELATED SECTIONS

- A.** Apply other sections of specifications to the extent required for proper performance of this work.
- B.** Section 02221 — Structural Excavation and Backfill.
- C.** Section 02222 - Excavation and Embankment.
- D.** Section 02225 - Trenching.

1.3 WATER USE PERMIT

- A.** ~~Temporary water use permit from Wyoming State Engineer's Office, if required, is responsibility of CONTRACTOR.~~
- B.** Construction water is available at no charge to the Contractor for use on this project. The access to water will be through a City fire hydrant at the direction of Public Works staff. The use of the water will require a backflow prevention device and meter set up approved by Public Works staff. There is a back flow and meter available from the Public Works. The equipment requires a two thousand eight hundred dollar (\$2,800) deposit and ten dollar (\$10.00) per day rental fee. The deposit will be reimbursed to the contractor upon return of the equipment in acceptable condition, less any rental fee.

1.4 MEASUREMENT AND PAYMENT

- A.** No direct payment will be made for construction water. This work will be considered subsidiary to other bid items.

PART 2 PRODUCTS

NOT USED.

PART 3 EXECUTION

NOT USED.

END OF SECTION

15000 - CORROSION ASSESSMENT

PIPELINE ASSESSMENT

1. Original Pipeline Design documents are presented in sec 30000 Project Drawings for reference.
2. ~~Conduct thorough corrosion assessment of the Sage Creek Transmission Pipeline Assessment to include "as found" CP potential survey of all existing test stations and above grade assets~~ *Continuity testing of entire pipeline – utilizing above grade assets as connection points Repair continuity issues once identified– these may vary from no issues to replacing joint bonds as presented in sec 15010. After continuity has been established Perform an influence study to include all foreign operator current sources within 1 mile of the pipeline – quantity and location unknown at this time. Perform current requirement testing for the pipeline. o Continuity testing for entire pipeline shall be confirmed only by actual electrical linear resistance field testing method for the individual pipeline spans.*
 1. *The pipeline electrical linear resistance field test method involves passing a known amount of DC current from one end of the pipeline to the other and measuring the resulting IR drop for the span being tested. Because the test procedure uses two test wires at each end of the span being tested (one for current and one for voltage), the measured test results indicate the actual pipe resistance for that span only. The actual measured resistance of the pipeline span tested is then compared to the calculated resistance for a similar length and type of pipe section that is continuous, to determine if the span may have any electrically-discontinuous or high-resistance joint(s).*
 2. *Measure span resistance only between two adjacent known good test stations with two good test wires at each end of the span. For pipeline linear resistance testing, do not connect to blow off piping which is known to be electrically isolated from the mainline piping. Likewise, do not use air release valve (ARV) piping as electrical continuity of valving and piping is suspect, unless two temporary test wires are installed directly to the mainline pipe in the ARV vaults.*
 3. *CP Level 4 shall do initial field continuity testing to calculate theoretical resistance parameters on two spans for each of the three different pipelines and the 20 and 24-inch diameter pipe for a minimum of eight (8) spans tested total. Calculate theoretical resistance per foot based on pipe diameter and wall thickness. Measure wall thickness for these eight or more spans based on the ultrasonic measurements made at air vacuum vaults or other locations where pipe exposed as part of other work. Submit calculations on how theoretical acceptable resistance per pipe diameter and wall thickness existing joint bond was developed and what percentage variance to be used to identify suspected high resistance joint or open spans.*
 4. *Once acceptable theoretical pipeline parameters established, the remaining pipeline linear electrical continuity testing may be completed per Section 15010 Joint Bonding by others under the direction of the CP Level 4.*

ANODE ASSESSMENT

1. Assess and recommend a replacement deepwell impressed current CP anode System to replace the aging shallow anode bed. ***See Section 15030 Deepwell Anode and Rectifier additional specifications.***
2. Assess and recommend a complete test station layout to facilitate future CP testing.
3. Permit Deepwell with WY DEQ and create exhibits and necessary procedure for work on BLM land.
4. Assess interference mitigation components for any foreign operators where interference is anticipated, based on earlier testing.

PAY ITEM

1. Lump sum item including tools, transportation and manpower.

STANDARDS

1. All work to be performed by Association for Materials Protection and Performance (AMPP) Certified CP-4 Cathodic Protection Specialist based on recommendations and standards provided by AMPP for Cathodic Protection of thin wall steel pipelines.
2. Assessment performed under the direction of an AMPP Certified CP-4 technician

END OF SECTION

15010 – JOINT BONDS

JOINT BONDS

1. ~~During assessment—identify and replace joint bonds as necessary.~~ *During assessment – identify and replace joint bonds as required as identified per longitudinal pipeline electrical continuity testing method as summarized below. The number of joint bond repairs required is presently not known so bid present bid estimate. The following should apply to Joint Bond Assessment:*
 - a. *Pipelines cannot be qualitatively tested for electrical continuity simply by assuming that because the pipeline demonstrates the ability to conduct current or display even changes in potentials or to be located with a pipe locator, that the pipeline is electrically continuous. The pipeline is buried in soil or submerged in water, it is surrounded by an electrically conductive medium, and because of its length and size the pipeline has a low resistance-to-earth. Therefore, the conductivity of the soil or water will allow the current to leave the pipeline and flow through the soil or water in order to pass around a discontinuity on the pipeline. However, when the current leaves the pipeline to pass around an electrically-discontinuous joint, an increase in the IR drop will occur.*
 - b. *Therefore, the longitudinal pipe continuity resistance test method is the most accurate testing method and the only test procedure allowed to confirm continuity for this project. The theory of the longitudinal pipe resistance continuity testing method is based on the premise that an electrically continuous pipeline is an electrical conductor with a measurable and definable resistance. The resistance of the pipeline joint bonded would be equal to the sum of the resistance of each section of pipe and each joint bond in the circuit (span being tested). This is like determining the resistance of a wire based on its diameter, length, and type of material.*
 - c. *The longitudinal pipe resistance test is conducted by connecting a current circuit and potential shift circuit to two separate test wire test stations located at each end of the pipe span being tested. Then using a steady direct current (DC) source to pass current through current circuit to each end of the length of the pipeline being tested. The amount of current applied to the line is measured through a shunt. With current flowing through the pipe, a resulting voltage drop in the potential circuit will occur on the pipeline in accordance with Ohms Law. This voltage drop (potential shift) between the pipeline connections at either end of the span is measured with the DC current turned on and off. The resistance is then calculated using Ohms Law by dividing the measured voltage drop change (shift) by the measured current applied to the span. The measured pipe resistance is calculated from the field data as shown in the following formula:*

$$\text{Resistance in milli-ohms} = \frac{(V_{on} - V_{off})}{A}$$

Where:

V_{on} = On voltage drop in millivolts

V_{off} = Off voltage drop in millivolts

A = Test current in amperes

- d. The longitudinal pipe resistance continuity testing should be conducted in the following general manner. A sample form is included, or the Contractor can create their own form provided similar information included.*
- e. Furnish the following equipment and materials and conduct pipeline longitudinal testing in the following manner:*
 - i. Two high-resistance electronic voltmeters with a DC low range of 200-millivolts full scale to a DC high range of 20-volts full scale and capable of a minimum resolution of 1 millivolt.*
 - ii. A 0.001 ohm 100 ampere shunt with a voltmeter as specified herein. (two voltmeters are required if a shunt is used) for potential testing.*
 - iii. One knife switch or safety switch suitable for interrupting test current.*
 - iv. Insulated wire suitable for carrying the test current, length as required.*
 - v. One DC power supply (rectifier, welder, etc.) with a steady capacity of 25-amperes minimum; storage batteries are not an acceptable power supply.*
 - vi. Connect current and potential circuit leads to separate test wires at test stations located at each end of span being evaluated. Connecting both potential and current circuits directly to the same test station wire or appurtenance not the mainline will not be acceptable.*
 - vii. Measure the voltage drop (potential) across each span being tested with a voltmeter by contacting each test station separate test wires.*
 - viii. Measure the initial voltage (potential) before any test current is applied to the pipe span.*
 - ix. Then apply a minimum steady direct current of 25-amperes and measure both the current applied to the test span through the shunt with a separate voltmeter and the voltage drop (potential shift) across the pipe span simultaneously.*
 - x. Then monitor the polarized voltage (potential changes) after the test current applied to the pipe span is turned off to determine rate of decline or if any change from initial off potential value.*
 - xi. Record the measured voltage drop and current for each joint on the test form described herein and calculate the actual measured pipe resistance per foot in accordance with the previous formula and that shown on the test form.*
 - xii. To minimize the possibility that any existing current flow on the pipeline may detrimentally influence the accuracy of the resistance measurements, the current wire connections shall be reversed and measurements made for current and voltage in both directions. The longitudinal resistance for the span is calculated for both directions and then averaged.*

- xiii. The voltage drop for the pipe section being tested is measured in the off condition, both before and after the test to observe if polarization of the pipeline occurred. If a discontinuous joint is present, the current flow along the pipeline may polarize the pipe sections on either side of the discontinuous joint. This polarization is indicated by an unsteady on voltage drop or a difference between the before and after off voltage drop measurements. Unsteady or high values for the off voltage drop may also be an indication of an electrical discontinuity either on the pipeline or in the test wiring or test connections. A very low resistance value may also be an indication of a high resistant span.*
- f. To determine if the pipeline resistance for that span was higher than normal and suspect, the average measured resistance for the test span is compared to the calculated theoretical resistance for that length of span and pipe wall thickness. The calculated theoretical resistance for the pipe can be either calculated mathematically based on the pipe material resistance and actual volume cubic area and calculated joint bond resistance or compared to other measured spans resistance per foot in that area that have similar pipe diameter, pipe thickness with the same type of joint bonds. The pipe resistance per foot (pipe K factor) is then calculated per foot for that measured span distance by dividing the measured resistance by the tested pipe span distance.*

LOCATION: RAWLINS, WYOMING TAKEN BY: _____

PIPELINE _____		DIAMETER _____		WALL THICKNESS _____		
TEST SPAN _____		TEST No. _____		DRAWING No. _____		
STATION No. _____ to _____		STA. No. _____ = TOTAL DISTANCE (FT.) _____				
PIPE TYPE & SIZE _____		K = CALCULATED RESISTANCE = _____ Milli-Ohm/FT				
SKETCH (INCLUDE TEST CONNECTIONS, DISTANCES, STATIONING, ETC.)						
TEST POINTS (FROM .. TO..)	-	-	-	-	-	-
DISTANCE (D) in FEET	ft	ft	ft	ft	ft	ft
IR VOLTAGE OFF (BEFORE TEST)	mV	mV	mV	mV	mV	mV
IR VOLTAGE OFF AT TEST (V1)	mV	mV	mV	mV	mV	mV
IR VOLTAGE ON AT TEST (V2)	mV	mV	mV	mV	mV	mV
IR VOLTAGE DIFFERENCE (OFF - ON) V1-V2 = Vd	mV	mV	mV	mV	mV	mV
CURRENT THROUGH SHUNT X FACTOR (IF REQUIRED)	mV	mV	mV	mV	mV	mV
CURRENT IN AMPS (I) MIN.20 A	A	A	A	A	A	A
MEASURED RESISTANCE (DIFF. Vd/I) = Rm milli-Ohms	milli-Ohm	milli-Ohm	milli-Ohm	milli-Ohm	milli-Ohm	milli-Ohm
CALCULATED RESISTANCE (D X K FACTOR) (+ EXTRA)	+ _____	+ _____	+ _____	+ _____	+ _____	+ _____
= CALC. RESISTANCE (Rc) Milli-Ohms	milli-Ohm	milli-Ohm	milli-Ohm	milli-Ohm	milli-Ohm	milli-Ohm
PERCENT MEASURED RES. TO CALCULATED RES. = Rm/Rc X 100 = %	%	%	%	%	%	%
NOTES:						

- g. *Suspected pipe spans with one or more high resistant joints will display wide variations compared to calculated theoretical values or when compared to similar pipe actual measured values. A suspected span with one or more open circuit joints will show an even higher resistance per foot (with potential shifts in volts) and may also have a noticeable decrease in current output with similar current output setting (rectifier tabs, welder adjustment and test reels).*
- h. *For suspected high resistant spans, locating the high resistant or open joint bond, shall consist of a process of divide and conquer, until the high resistance joint is found. The locating shall consist of splitting the suspected span in half and measuring from the middle in each direction to determine which half of the span is highly resistant and then continuing to divide that span into smaller and smaller sections until the high resistant joint(s) are found and repaired. After suspected known joint bonds are repaired, then the entire pipe span shall again be measured to make sure that no high resistant or open pipe joints were missed.*
- i. *If a good existing joint bond wire is exposed during other work, measure the actual resistance with a digital low resistance ohmmeter (DLRO) to verify theoretical calculations. Measure resistance of the individual suspected high resistance or open joint bond as found prior to fixing and after installing the new two new No. 2 AWG HMWPE insulated joint bonds with a digital low resistance ohmmeter (DLRO) meter. Provide Biddle 247000 Series. Megger DLRO instruments (Megger Ductor DLRO 10 or DLRO 10X., AEMC Model 5600 Manual Adjustment Type Micro-Ohmmeter or the newer style automatic current adjusting AEMC 6240 or 6250 Micro-Ohmmeters or equal. Provide one set of 10-amp duplex test leads heavy duty fixed point current and potential handspikes. (Biddle Model No. 242002-7 with seven-foot lead length) or equal.*

- 2. Installed where needed at 2 joint bonds per location
- 3. Joint bonds should be #2 HMWPE or larger
- 4. Weld Caps should be Roysten Handycap IP XL or Trenton patches or approved equal. See Sec 01002 Submission of Bids.
- 5. Joint bonds shall be installed via vacuum excavation and downhole tooling where it is possible to minimize pipeline excavation.
- 6. Backfill of all excavations shall protect and maintain integrity of the existing pipeline. Minimum compaction of hydro-excavation will be site material hand tamped in 6 inch lifts.
- 7. Fencing repairs are to be expected and performed in a professional manner acceptable to the fence owner.

PAY ITEM

- 1. Lump sum for each Joint Bond item including tools, transportation and manpower.
- 2. Joint Bonds to be divided into two pay items – Typical Joint Bond and Atypical Joint Bond.
- 3. Typical Joint Bond:
 - a. Pipeline bury depth between five feet and eight feet.

- b. Heavy truck access to the work location. May require up to 1000 feet of overland travel to access work location.
 - c. No requirement for dewatering
 - d. Expected time per joint – ½ working day or less.
 - e. Bid per design estimate
4. ATypical Joint Bond:
- a. Pipeline bury depth greater than eight feet.
 - b. Heavy truck access to the work location with difficulty; road prep requiring additional equipment. Or more than 1000 feet of overland travel to access work location.
 - c. Possible requirement for dewatering
 - d. Expected time per joint – 2 working day or less.
 - e. Bid a minimum of ten ATypical Joint Bonds
 - f. *For ATypical joint bonds, contractor will be paid for a minimum of 5 atypical joint bonds if equipment is mobilized onsite for any single atypical joint bond.***
 - g. Extended excavation that exposes the pipeline shall require City Engineer's evaluation of the excavation and backfill plan and may require imported pipe bedding and mechanical compaction over limits of excavated area.
 - h. *If during joint bond repairs a long excavation 20 to 40 feet may be required to locate the actual location of the bad bell and spigot joint, that will be classified as one atypical excavation.***
 - i. *If during joint bond repairs to split a test span to locate the high resistance or open joint bond, several temporary excavations and temporary test wires may be required, that will be classified as one atypical excavation.***
 - j. *There may be a case where an effective joint bond repair cannot be made under the definition of this section – ie excessively deep excavation where the existing pipe may be encased in concrete or the excavation depth is more than 14 feet. A pre-approved plan change order may be necessary or a temporary connection made until future work is performed on the pipeline.***
 - k. *Contract days will be added for ATypical Joint bonds. Additional contract days will accrue at the rate of Two (2) additional days for each additional atypical joint bond after five (5) have been completed.***

STANDARDS

1. All work to be performed under the directions of an Association for Materials Protection and Performance (AMPP) Certified CP-4 Cathodic Protection Specialist based on recommendations and standards provided by AMPP for Cathodic Protection of thin wall steel pipelines.
2. Work performed under the direction of an AMPP Certified CP-4 technician

END OF SECTION

15020 – TEST STATIONS

TEST STATIONS

1. *There are a number of existing test stations (originally estimated at 58), not have to be replaced with a new test station. The number of new test stations required is presently not known, so bid present bid estimate.*
 - a. *If the body of the existing test station is intact and there are two test wires and both test leads read a similar potential voltage range to a portable copper/copper sulfate reference electrode that is consistent with other test station readings in the general area and when tests displays a low resistance reading with the multimeter set to ohmmeter or diode test between the two leads, then that existing original test station shall be deemed good and does not have to be replaced.*
 - b. *If the test station body is damaged, there is only one wire or one wire tests bad, that existing test station is deemed bad and needs to be replaced at that same location.*
 - c. *Existing test stations can be reused and new test stations installed only where required to allow successful continuity testing, where the span distance is 2,800 feet or more or where the longitudinal pipe resistance continuity testing indicates a high resistance or open span. In those cases, the span distance shall be halved and a new test station installed in the middle of that span.*
2. Test stations shall be 2 terminal testox 300 stations, or approved equal – *Acceptable Substitute shall be Gerome Testox 700 Series (minimum five-terminal, threaded test head)* Test stations mounted on 4x4 treated wood post with 1” rigid conduit extending into the ground. *Top of test station box shall be mounted flush with wooden post top a maximum height of 2-feet abovegrade. Test stations shall be provided with all mounting hardware as necessary to provide a rigid support, with two hole conduit straps with wood screws installed at maximum 1-foot (1’) spacing. Install a conduit insulating bushing at bottom of threaded metallic conduit. The treated test station post shall be buried a minimum of 4-feet or more with bottom in 3 ½-feet of firmly compacted soil, and centered in a minimum six-inch (6”) thick two-foot (2’) square concrete cap. Terminate top of concrete slightly higher than ground level and slope to allow moisture to drain away from wood post.*
3. Test station posts shall be set in **4 square foot minimum** concrete **cap** and marked with a minimum 4’ above grade **Blue** carsonite post marked “City of Rawlins Property”
4. Test stations shall utilize #10 Blue THHN wire in **1” conduit** – 2 pipeline connections/wires per test station
5. Test stations shall be installed via vacuum excavation and downhole tooling where possible to minimize pipeline excavation.
6. Fencing repairs are to be expected and performed in a professional manner acceptable to the fence owner.

PAY ITEM

1. Lump sum for each Test Station item including material, tools, transportation and manpower.
2. Test Stations to be divided into two pay items – Typical Test Station and Atypical Test Station.
3. Typical Test Station:
 - a. Pipeline bury depth between five feet and eight feet.

- b. Heavy truck access to the work location. May require up to 1000 feet of overland travel to access work location.
 - c. No requirement for dewatering
 - d. Expected time per joint – ½ working day or less.
 - e. Bid per design estimate
4. ATypical Test Station:
- a. Pipeline bury depth greater than eight feet.
 - b. Heavy truck access to the work location with difficulty; road prep requiring additional equipment. Or more than 1000 feet of overland travel to access work location.
 - c. Possible requirement for dewatering
 - d. Expected time per joint – 2 working day or less.
 - e. Bid a minimum of ten (10) Atypical Test Stations
 - f. *For Atypical test stations, contractor will be paid for a minimum of 5 atypical test stations if equipment is mobilized onsite for any single atypical test station.***
 - g. Contractor may identify Atypical Test stations that may be relocated to a typical location.
 - h. Extended excavation that exposes the pipeline shall require City Engineer's evaluation of the backfill plan and may require imported pipe bedding and mechanical compaction over limits of excavated area.

STANDARDS

1. All work to be performed under the directions of an Association for Materials Protection and Performance (AMPP) Certified CP-4 Cathodic Protection Specialist based on recommendations and standards provided by AMPP for Cathodic Protection of thin wall steel pipelines.
2. Work performed under the direction of an AMPP Certified CP-4 technician

END OF SECTION

15030 – DEEPWELL ANODE AND RECTIFIER

DEEPWELL ANODE

1. Assume one deepwell anode installed per original plan included in sec 30000 with the following clarifications and specifications:
 1. *Minimum deep anode groundbed life shall be 30 to 40 years.*
 2. *To provide better current attenuation and minimize too high of potentials on pipelines near the rectifier and to avoid the overhead AC powerline, the deep anode groundbed will be required to be a minimum of 300 to 350 feet remote from the existing pipeline vault fenced enclosure and have a hundred foot minimum inactive column. The deep anode groundbed shall be in a general northeast direction from the vault enclosure and be spaced so as to be approximately equal distance midway between the Phase I Pipeline (to the east) and Phase III Pipeline (to the north). (See Phase 1, Sheet 29 for general reference).*
 3. *The minimum deep anode groundbed type and size shall be as a minimum 320 feet deep 10-inch diameter hole. The twenty (20) or more deep groundbed anodes shall be resin treated minimum 3"x 60" sized graphite anodes, center connected with extended epoxy, polyurethane or heat shrink anode end cap and individual No. 8 AWG HMWPE insulated anode leads at 10-foot spacing, (Mesa or Farwest or approved equal). Individual anode leads shall be of sufficient length to reach from each anode connection to the abovegrade junction box located at top of drilled hole location and be numbered consecutively with bottom (deepest) anode as No. 1.*
 4. *The deep anode groundbed top section (inactive column) shall be cased for a minimum 20 to 30 feet per State regulations and sealed (concrete, grout, or clay backfill) for the remaining portion of the inactive column's 100-foot length. Seal the annular space around the surface casing and the soil and the inactive column area and terminate deep anode groundbed in accordance with State requirements and the local well drilling regulations.*
 5. *The bottom deep anode groundbed active area shall be sealed between the different aquifers if encountered and separate vent pipes shall be installed in active column areas between different aquifers per DEQ requirements. The well casing shall be terminated one-foot (1') abovegrade and provided with a locking type of lid. Provide rubber grommet or plastic bushing type fitting sized to fit around deep anode lead wires for protection at casing wall penetration.*
 6. *The deep anode groundbed shall be vented with minimum one-inch (1") plastic Schedule 40 PVC vent pipe. The vent pipe shall be either a drilled or slotted plastic one-inch or larger vent pipe in the bottom minimum 220-foot active column area (with drilled perforations and encased in a Nilex geotextile sock or slotted Loresco Allvent or approved equal per Contractor's option). Provide with a solid bottom plastic end cap. The plastic vent pipe shall be solid in the top minimum 100-foot inactive column area and terminated above grade in a steel vent pipe (one-inch (1") galvanized or coated steel surface vent pipe with 180-degree gooseneck and insect screen or approved equal) at the top of the drilled hole at the Contractor's option.*

7. *When the deep anode hole has been drilled to the specified depth, recirculate with clean water sufficiently to remove drilling mud and cuttings so as to allow settling of the anodes and coke breeze without causing danger of anode hole collapse or wall sloughing.*
 8. *The first (deepest) anode shall be attached to the pre-drilled or slotted vent pipe and the anode and vent pipe carefully lowered to the bottom of the drilled hole while electrical resistance testing is completed. The remaining anodes shall be lowered individually while monitoring individual anode depth and spacing by use of a wire measurer device or by known length of each anode lead wire. When the anode is at the specified depth, it shall be suspended in the hole and securely tied off around a suspension bar or pipe with a sufficient diameter to prevent sharp bending of the wires. The anode lead wires shall be tied off in order. The anodes shall remain securely fastened until the coke breeze backfill has been placed and has settled.*
 9. *Backfill deep anode groundbed active column area with NSF approved low resistance calcined petroleum coke breeze suitable for pumping (Loresco SC-3 or RS-3 or approved equal) from 10-feet below bottom anode to 20-feet above top anode. Mix coke breeze with potable water and pump per the coke breeze manufacturer's recommendations, in an even and continuous manner around each anode from the bottom of the hole to the top as the coke breeze fill pipe is slowly and carefully withdrawn*
 10. *The deep groundbed individual anode leads shall be terminated in an abovegrade post mounted, lockable weathertight NEMA 4X post mounted fiberglass anode junction box (Stahlin, Hoffman, etc.). Provide sufficiently sized anode junction box to house terminal strip or block, with minimum twenty (20) Holloway Type RS 0.01-ohm manganin wire shunts and lug type connections with two each two-inch (2") bottom knockouts with Myers Hub (Mesa, Universal, Farwest, or approved equal.)*
 11. *Provide a guard rail assembly for physical protection of the deep anode junction box, vent pipe, and casing. Guard rail members shall be minimum two-inch (2") diameter and shall consist of two (2) rails per each section. Guard posts shall be minimum four-inch (4") diameter Schedule 40 and installed at each corner of square shaped deep anode guard rail barrier. Guard posts and guard rail members shall be coated blue with two coats of liquid epoxy and one coat of liquid polyurethane or fusion bonded epoxy coated per Contactor's option. Guard posts shall be set in minimum six-inch concrete pad and posts filled with concrete and rounded off at top. Guard post assembly shall be positioned to allow easy access to and opening of junction box.*
2. Anode to be permitted through Wyoming DEQ.
 3. Deepwell anode installation to include portable drilling containment pit and disposal of cuttings.
 4. Rectifier and junction box to be included. Rectifier to meet design intent of original design *with the following clarifications:*
 1. *place existing rectifier with a similar sized 40 volt 40 amp DC output unit on a new rectifier pole located either inside or outside the fenced enclosure. The rectifier shall be*

air cooled, manually controlled, dual AC input of 120/240 volts, single-phase, 60-Hz with a suitably sized magnetic-type circuit breaker on front of rectifier panel. The rectifier shall be a pole mounted, single-phase bridge type with a silicon diode stack. Supply the rectifier with combination DC voltage and current meters and external panel mounted shunt, Holloway type, in series with the ammeter. Provide with AC and DC lightning protection, efficiency filter, meter on/off switch, minimum manual tap adjustments of 20 steps or more, 115 Volt AC convenience outlet, access provided by removable doors in front and both sides, rectifier split type rack assembly and one size larger case. Either IRT Model No. ADASFS 40-volt 40-amp EGOAZ (Z1= Larger Rectifier Case Size and Split Rack), Universal Rectifier Standard Air Cooled Model ASAI 40-volt 40-amp AACFHMRPQ (P= minimum 20 steps, Z= Larger Rectifier Case Size and Split Rack) or approved equal.

- 2. The rectifier pole can be installed in the vault fenced enclosure or on the outside of the fenced enclosure at the Contractor's option. For future physical protection, if the rectifier is not installed in the existing vault fenced enclosure, then a guardrail barrier with an access gate will be required. The rectifier guardrail assembly guard posts shall be minimum four-inch (4") diameter minimum and installed around rectifier location with the access gate positioned in front of rectifier. Guard rail members shall be minimum two-inch (2") diameter and consist of three (3) guard rails per each section. Gate shall have a minimum of three or more heavy duty hinges and a method to close and latch gate with a chain. Rectifier guard post assembly size shall be a minimum seven-foot (7') by six-foot (6') square or larger as necessary to provide a minimum separation distance of two-feet (2') on all sides of the rectifier installation. Guard posts, guard rail members and gate shall be coated blue with two coats of liquid epoxy and one coat of liquid polyurethane or fusion bonded epoxy coated per Contractor's option. Guard posts shall be set in concrete and posts filled with concrete rounded off at the top. Guard post assembly shall be positioned so as to allow easy access to and opening of rectifier, entrance switch, and pipe junction box.*
- 3. Provide either a new full size rectifier pole or a stub pole pressure treated wood service pole for rectifier mounting, entrance switch and pipe junction box can be depending on type of AC service drop at Contractor's option.*
- 4. Service pole for rectifier mounting with overhead AC service shall be a 30 foot long, Class 5, pressure treated wood pole or as required to meet or exceed local electrical codes.*
- 5. Stub service pole with buried AC service shall be a minimum 16-foot long, pressure treated wood pole. The service pole shall have a minimum 15-inch diameter at butt end, or as required to meet or exceed local electrical codes.*
- 6. The service pole can either be a solid 12-inch square wood post or made up of two wood posts connected together with two additional full-length boards at Contractor's option. Assembled wood post shall consist of two each minimum six-inch by six-inch 16-foot long (6" X 6" X 16') treated wood posts connected together with two minimum 2" X 12" X 16' long treated wood boards mounted on opposite side of the two 6" X 6" wood posts. The two 6" X 6" wood posts shall be connected together by minimum 3/8-inch diameter 8" long wood lag screws or 3/8-inch diameter bolts all the way through the wood post at*

maximum three-foot (36") spacing. The 2" X 12" wood boards shall run the full length of the wood posts and be securely fastened to them with wood lag screws, at a maximum spacing of two-foot (24" apart).

- 7. Provide rectifier pole mounting hardware - minimum 5/8-inch diameter lag screws or bolts with necessary washers and nuts as required. Top rectifier mounting lag bolt shall be length as required to go completely through wood pole. Bottom mounting lag screw shall be long enough to penetrate minimum 6-inches into wood pole.*
- 8. Drill pilot holes prior to screwing lag or wood screws in. Top of rectifier pole shall be cut at an angle to allow water to drain off (slant away from rectifier).*
- 9. The rectifier pole shall be buried a minimum of 6-feet or more in firmly*
- 10. compacted soil and provided with a minimum six-inch (6") thick six-foot concrete pad.*
- 11. 15. For grounding both rectifier case and entrance switch, provide two or more minimum*
- 12. 5/8" x 8' copper-clad steel ground rod and No. 6 AWG bare copper ground wire with bronze ground rod clamps.*
- 13. 16. Route new AC cable in conduit from the existing AC power supply to a new AC entrance switch mounted on the new rectifier pole. New separate rectifier disconnect entrance switch shall be a heavy-duty, NEMA 3 raintight, rated at 240 volts, 30 amperes, two-pole. Supply with circuit breakers sized for 110 to 135 percent of the AC current flow at maximum rectifier output. Route rectifier positive lead from rectifier positive terminal to anode junction box located at the deep anode groundbed location (minimum No. 2 AWG cathodic protection single-conductor, stranded copper wire with HMWPE insulation) at minimum three-foot (3') burial depth in minimum one-inch (1") plastic conduit with marking tape. Color code No. 2 AWG positive rectifier lead with orange tape at each end (rectifier and deep anode junction box).*
- 14. Route from the new rectifier, three (3) separate individual rectifier negative leads (No. 4 AWG HMWPE insulated stranded copper wire), one to each of the three pipelines. This would include the Phase I 24" pipeline on the west side, the Phase II 20" pipeline on the east side and the Phase III 24" pipeline on the north side of the vault enclosure. See Phase I, Sheet 29 for general reference). Install at minimum three-foot (3') burial depth in minimum one-inch (1") plastic conduit with marking tape to each of the three pipelines from a common pipeline junction box mounted on the rectifier pole. Terminate and color code No. 4 AWG rectifier negative lead ends with Phase I east direction with gray tape, Phase II west direction with purple tape and Phase III north direction with green tape at pipe junction box location.*
- 15. Install two new No. 10 AWG test wires with blue THHN insulation and bury a stationary prepackaged copper/copper sulfate (Cu/Cu SO₄) reference electrode with yellow insulation, at each of the three pipeline negative wire connection locations. Install at minimum three-foot (3') burial depth in minimum one-inch (1") plastic conduit with marking tape to each of the three pipelines from a common pipeline junction box. Run test and reference electrode leads, terminate at rectifier pipeline junction box mounted on the rectifier pole for use with remote monitoring. Utilize same color code for individual pipe test wires and buried reference electrode lead (i.e. Phase I*

east direction with gray tape, Phase II west direction with purple tape and Phase III north direction with green tape) at pipe junction box location.

- 16. The No. 4 AWG individual negative pipe leads, No. 10 AWG test wires and reference electrode leads shall be terminated in an abovegrade pole mounted, lockable weathertight NEMA 4X post mounted fiberglass pipe junction box (Stahlin, Hoffman, etc.). Provide a sufficiently sized pipe junction box to house a separate terminal for each of the three pipeline negative leads and nine test and reference electrode leads (Mesa, Universal, Farwest, or approved equal). For rectifier negative pipe leads provide with individual shunts (Holloway Type SS 0.001-ohm shunt 25 Amp capacity or approved equal), lug type connections, with two each two-inch (2") bottom knockouts with Myers Hub The pipe junction box shall be sized to also accommodate individual terminals for two test wires and one reference electrode lead for each of the three separate pipelines (nine*
- 17. additional terminal locations). The junction box shall be mounted under the rectifier box. Provide with necessary mounting hardware (two-hole conduit straps and wood screws) and plastic bushing at bottom of each metallic conduit.*
- 18. Provide remote monitoring capability either using existing City SCADA (Supervisory Control and Data Acquisition) system or with a commercial remote monitoring unit (RMU) that can monitor and transmits selected channels of information and provide synchronized interruption such as the Mobiltex RMU3 or approved equal. The remote monitoring to include as a minimum AC voltage input to rectifier, DC rectifier output, and potential measurements for the three pipelines to the individual stationary buried reference electrodes.*
- 19. Provide a minimum of two cathodic protection cable warning signs – fiberglass outdoor electrical hazard yellow (minimum 1/16" thick 8" x 8" or 7" x 10" size) with large black "Danger: Cable Buried Here" lettering, (Brady Signmark, Seton, Carsonite, etc.). Mount one each at both the rectifier and junction box deep anode groundbed locations.*
- 20. Provide cable warning tape- Allen, Griffolyn, ITT Blackburn Pro-Line, Or Terra Tape Warning Tape for all buried rectifier negative and positive cathodic protection cables and plastic conduits. Warning tape shall be yellow and labeled with "Caution: Cables Buried Below" or similar wording with a minimum three-inch (3") width.*
- 21. Final preparation of the anode hole, electrical logging, lowering of anodes and vent pipe, coke breeze backfilling, and placement of seals shall only be completed during daylight hours and observed by designated representatives, schedule work accordingly.*
- 22. Physically test each anode lead, after the coke breeze has been placed and settled (minimum 8-hours) and the anodes have become substantially set (cannot move anode by pulling up on the lead wire), then conduct and record the final electrical resistance of the individual anodes.*
- 23. After the coke breeze is installed and has settled out (minimum of 8 hours) and the anodes are set, physically measure the depth to the top of the coke breeze column to assure that the top of the coke breeze column is at the specified elevation. If the hole is over-filled by more than 15-feet (35 feet over top of top anode), take corrective measures to provide the specified elevation by removing some of the coke breeze. If the hole is*

under-filled by more than ten (10) feet (10 feet over top of top anode), additional coke breeze shall be added to the specified elevation. This shall be completed by hand shoveling a saturated mixture of coke breeze and water to bring the coke breeze level up to the specified depth. Remeasure final coke breeze top depth after removal of or placement of the additional coke breeze has been completed, and the coke breeze has settled.

5. AC power meter upgrade to meet local codes.

6. Work on the Deepwell anode, if located on BLM land, shall be subject to BLM requirements and direction regarding wildlife protection, work periods, erosion control and etc.

7. New structure connections #4 HMWPE or larger per requirements.

8. ~~Work to be performed by contracting firm with equipment owned by the contractor.~~ See Contract section 7.04a Subcontractors and Suppliers

9. Commissioning: Set Rectifier at target amperage based on assessment of ground conditions. Energize the completed cathodic protection system and conduct an operating test to demonstrate that the cathodic protection equipment is installed correctly and operating properly. Final functional testing shall consist of demonstrating operation of rectifier DC outputs from zero to 100-percent of rated capacity through the different manual tap settings. Tests shall also be made across terminal and anode junction box individual anode shunts to confirm that all portions of the deep anode groundbed are functioning correctly. Test the pipe junction box shunts, test leads and reference electrode readings to each of the three pipelines are working. Record functional testing and submit as part of O and M manual.

If the hole collapses, coke breeze bridges, the vent pipe plugs or is full of coke breeze, the anode assembly is damaged, the hole is under-filled or over-filled with coke breeze, or any components (anodes, rectifier, junction box, etc.) do not work correctly or fail during the warranty period, take necessary steps to resolve and correct the problem at no additional cost to the Owner.

10 Return after four weeks to perform an interrupted survey of the pipeline at all test points and readjust if necessary.

11. Submittals:

- a. Provide catalog cuts and other information for all materials to be used for approval prior to start of construction.*
- b. Initial well resistance log made when first anode lowered down from bottom of casing to bottom of drilled hole continuously or at maximum five-foot (5') intervals.*
- c. Individual anode resistance data summary before and after backfilling with coke breeze and coke breeze has set.*

- d. Schematic of rectifier, pipe negative wire connections and location, positive rectifier lead from rectifier to deep anode groundbed location.*
- e. Deep anode groundbed detail with final anode placement, coke breeze, casing, and seal depths.*
- f. Driller's log*
- g. Any necessary State reports..*
- h. Operation and maintenance (O and M) manual with initial functional tests, and final operation test for rectifier, deep anode junction box, pipe junction box, initial test station and final electrical continuity test results. Provide final interrupted (cycled on and off) potential survey testing results."*

PAY ITEM

1. Lump sum for Deepwell Anode and Rectifier installation to material, tools, transportation, permitting, commissioning and manpower.

STANDARDS

1. All work to be performed under the directions of an Association for Materials Protection and Performance (AMPP) Certified CP-4 Cathodic Protection Specialist based on recommendations and standards provided by AMPP for Cathodic Protection of thin wall steel pipelines.
2. Work performed under the direction of an AMPP Certified CP-4 technician

END OF SECTION

15040 – POST INSTALL REPORTING

POST INSATLL REPORTING

Detailed reporting of the following is required:

1. As-Found pipeline potential CP data.
2. As-Left pipeline potential CP data.
3. As-built for deepwell.
4. As-built for each test station:
 - a. Includes pipeline depth
 - b. GPS
 - c. Pipeline UT measurement
 - d. Potentials before and after test lead installation
 - e. Picture of pipeline before, during and after test lead attachment
5. As-built for each set of joint bonds installed:
 - a. Includes pipeline depth
 - b. GPS
 - c. Pipeline UT measurement.
 - d. Potentials before and after test lead installation.
 - e. Picture of pipeline before, during and after test lead attachment
6. GPS file of all test points, joint bonds, ground beds.
7. CP calculations based on industry standard.

PAY ITEM

1. Lump sum for post install reporting. Digital format with recommended record keeping protocols.

STANDARDS

1. All work to be performed under the directions of an Association for Materials Protection and Performance (AMPP) Certified CP-4 Cathodic Protection Specialist based on recommendations and standards provided by AMPP for Cathodic Protection of thin wall steel pipelines.
2. Work performed under the direction of an AMPP Certified CP-4 technician

END OF SECTION

03000 PROJECT DRAWINGS

**CITY OF RAWLINS
RAWLINS, WYOMING**

**CONSTRUCTION OF SAGE CREEK
TRANSMISSION PIPELINE
AND WELLFIELD FACILITIES**

**WWDC PROJECT NO. R1032186/F
DRAWINGS
1987**

**JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.
LARAMIE, WYOMING**



WARNING
THIS DRAWING
APPROXIMATELY ONE-HALF
ORIGINAL SCALE

**CITY OF RAWLINS
RAWLINS, WYOMING**

**CONSTRUCTION OF SAGE CREEK
TRANSMISSION PIPELINE**

PHASE II

DRAWINGS

1987

**JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.
LARAMIE, WYOMING**

CITY OF RAWLINS
RAWLINS, WYOMING

CONSTRUCTION OF SAGE CREEK TRANSMISSION PIPELINE

PHASE III

DRAWINGS
1988

JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. 
LARAMIE WYOMING

RECORD DRAWING
These record drawings have been prepared based upon information provided by others. The Engineer has not verified the accuracy of such information and does not assume responsibility for errors or omissions which may be incorporated herein as a result.



