



115kV Relay Setting Proposal 2021

Phelps Control Center
700 E. Bischeld Street
Grand Island, NE

Contact

City of Grand Island Utilities Department
Travis Spiehs, Electrical Engineer
(308) 385-5460 x1144
travis.spiehs@giud.com

Date Issued: May 1, 2021
Date Bid Due: June 1, 2021 at 2:00pm

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SECTION A

ADVERTISEMENT FOR BIDS

ADVERTISEMENT FOR BIDS
FOR
115kV Relay Setting Proposal 2021

Sealed bids will be received at the **Office of the City Clerk, 100 East First Street, Grand Island, NE 68801, until 2:00 pm. (Local Time), June 1, 2021** for 115kV Relay Setting Proposal 2021, FOB the City of Grand Island. Quotes will be publicly opened at this time at the Office of the City Clerk, 100 East First Street, Grand Island, NE. Bids received after the specified time will be returned unopened to sender.

The specifications, and any addenda, may be viewed on-line at www.grand-island.com under Business-Bid Calendar. Bids may also be submitted online via the Quest CDN website, www.QuestCDN.com for a thirty dollar (\$30) fee.

Plans and specifications are on file at the City of Grand Island, Phelps Control Center, 700 East Bischeld Street, Grand Island, NE. (308)385-5460 x1144. Bids shall be submitted on forms that will be furnished by the City.

Each bidder shall submit with their bid a certified check, cashiers check, or bid bond payable to the City Treasurer in an amount not less than five percent (5%) of the bid price which shall guarantee good faith on the part of the bidder and the entering into a contract within twenty (20) days, at the bid price, if accepted by the City. **Your certified check, cashiers check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid.** Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened or considered. Bid bonds must be issued by surety companies authorized to do business in the State of Nebraska.

Bids will be evaluated by the purchaser based on price, delivery, quality, and adherence to specifications. Each bidder shall supply three (3) copies of the bid and equipment specifications. Failure to provide the correct number of copies will result in the bid being deemed nonconforming and not considered. The Purchaser reserves the right to reject any or all bids, to waive technicalities, and to accept whichever bid that may be in the best interest of the City.

No Company may withdraw its bid for a period of sixty (60) days after date of bid opening.

RaNae Edwards,
City Clerk

SECTION B

INSTRUCTIONS TO BIDDERS

**CITY OF GRAND ISLAND, NEBRASKA
INSTRUCTIONS TO BIDDERS**

EXCEPTIONS TO SPECIFICATIONS: Each bidder shall carefully check all requirements herein set forth and shall offer items which fully comply with these requirements or shall plainly set forth all points, features, conditions, specifications, etc., wherein their items offered do not meet these specifications. Such exceptions as are made shall be listed by page number in the following blanks and shall be marked in ink on the pages of these specifications. If additional space is required for exception explanation, please reference and attach a letter to bid. Reference shall not be made to other attachments for exceptions and supplementary terms. Failure to outline such exceptions as specifically stated herein will require the successful bidder to comply with these specifications. In case of conflict between the bid and these specifications, these specifications shall govern unless specific exceptions are listed by the bidder. Exceptions must be noted on the bid form.

SUBMISSION OF BIDS: All bids shall be submitted using the City's bid form. Bids shall **be addressed to the City Clerk** and plainly marked, "**115kV Relay Setting Proposal 2021**".

INSURANCE COVERAGE: The Contractor shall purchase and maintain at their expense as a minimum insurance coverage of such types and in such amounts as are specified herein to protect Contractor and the interest of Owner and others from claims which may arise out of or result from Contractor's operations under the Contract Documents, whether such operations be by Contractor or by any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable. Failure of Contractor to maintain proper insurance coverage shall not relieve them of any contractual responsibility or obligation.

BASE BID: The bidder is expected to base their bids on materials and items complying fully with these specifications. In the event they name in their bid materials or items which do not conform, they will be responsible for furnishing materials and items which fully conform at no change in the bid price.

ALTERNATE BIDS: It is the desire of the Owner that the bidder base their bid price for this project on the written specifications. If an alternate bid or bids are submitted by a bidder, it is desired that they first submit a bid price as above described and then describe the alternate bid. Failure to do so may be reason for not extending any consideration to alternate bids.

BIDDER QUALIFICATION: Bids will be received only from qualified bidders. A bidder will be considered qualified if they are a recognized electric utility contractor and have experience in the construction of projects of equal or greater size than that specified herein. If requested, the bidder shall supply experience data. Such data will be used to assist in determining the qualifications of the bidder. Bidder must comply with all applicable Federal, State and Local rules and regulations.

CHECKS OR BID BONDS: Checks or bid bonds of the unsuccessful bidders will be returned when their bids have been rejected and not to exceed sixty (60) days from the date bids are opened. All bids shall remain in force for this 60-day period. The check or bid bond of the successful bidder will be returned when the Contracts are signed by both parties and necessary bonds supplied. Should the Purchaser make an award to a bidder who refuses to enter into Contract and furnish the required bonds within twenty (20) days after notification of acceptance, then the bid security which has been deposited with the Purchaser will be forfeited to the Purchaser as liquidated damages.

PERFORMANCE BOND: On award of the Contract, the successful Contractor shall furnish a Performance Bond which shall be in an amount equal to the full Contract price, guaranteeing faithful compliance with all requirements of the Contract Documents and complete fulfillment of the Contract, and payment of all labor, material and other bills incurred in carrying out this Contract. According to Nebraska Law, the surety company executing the Performance Bond must be authorized to do business in the State of Nebraska.

PAYMENT BOND: On award of the Contract, the successful Contractor shall furnish a Payment Bond which shall be in an amount equal to the full Contract price, guaranteeing protection of all persons supplying labor and materials to the Contractor or its subcontractors for the performance of the work provided for in the Contract. In accordance with Nebraska Law, the surety company executing the Payment Bond must be authorized to do business in the State of Nebraska.

TAXES: The City Utilities Department pays sales tax amounting to 5.5% State and 2.0% City; payment of 7.5% sales tax must be in the Contractor's bid. Contractor must pay any other tax which might be applicable.

REQUESTS FOR PAYMENT: The City of Grand Island will make payments only after approval at regularly scheduled City Council meetings. These meetings typically occur the second and fourth Tuesday each month. Requests for payment must be received no less than ten (10) working days prior to the designated meeting to allow time for proper review and consideration. Payments will only be made after final completion of the project to City's satisfaction unless otherwise stated in bidding documents.

REQUEST FOR INTERPRETATION: If any person contemplating submitting a bid for this Contract is in doubt as to the true meaning of any part of the specifications or other proposed Contract documents, they may submit to the Purchasing Department a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made only by addendum duly issued and/or delivered to each person receiving a set of such documents. The addenda upon closing shall become a part of the Contract. The City will not be responsible for any other explanation or interpretation of the proposed documents.

ADDENDA: Any addendum to the specifications issued during the time allowed for preparation of bids shall be covered in the bid and shall become a part of the specifications. One copy of each addendum issued before the date of the letting will be sent to all bidders. One signed copy is to be returned immediately to the sender as acknowledgment of receipt.

TIME OF COMPLETION: Time of completion is the essence of this Contract, and all work shall be completed no later than 230 days after bid award.

MODIFICATION OF BIDS: Bids may be modified or withdrawn by an appropriate document duly executed in the manner that a bid must be executed and delivered to the place where bids are to be submitted at any time prior to the final time set for receiving bids. Bidders may modify or withdraw bids by Fax communication at any time prior to the time set for receiving bids provided this instruction is positively identified. Any Fax modification should not reveal the amended bid price but should provide only the addition, subtraction or other modifications. A duly-executed document confirming the Fax modification shall be submitted within three (3) days after bids are opened.

BID DATA: Bidders shall submit bid documents and data by filling in the document and data sheets supplied by the Purchasing Department. The bid sheets shall be filled out legibly in ink to permit reproduction.

BIDDER SECURITY: Bidder security shall be enclosed in a separate envelope marked, "**BIDDER SECURITY / BID FOR 115kV Relay Setting Proposal 2021**" the envelope shall contain only a cashier's check, certified check or bidder's bond.

This separate envelope shall be attached to a sealed envelope containing the bid and any other bid materials. This second envelope shall be marked "**BID FOR 115kV Relay Setting Proposal 2021**" and be addressed to the "**City Clerk**." Bids of an incomplete nature or subject to multiple interpretations may, at the option of the Purchaser, be rejected as being irregular.

FINANCIAL STATEMENT: The bidder shall furnish upon request a complete financial statement signed by the bidder, if an individual, by all partners if the bidder is a partnership or, by the President or Secretary, if the bidder is a corporation.

EQUAL EMPLOYMENT OPPORTUNITY: The Contractor agrees that during the performance of this Contract not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, disability, age or national origin, and to comply with Executive Order 11,246 of September 24, 1965, and the rules, regulations and relevant orders of the Secretary of Labor, and Chapter 20 of the Reissue Revised Statutes of the State of Nebraska.

GRATUITIES AND KICKBACKS: City Code states that it is unethical for any person to offer, give, or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any

decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated there within, as an inducement for the award of a subcontract or order.

LOCAL CONDITIONS: Each bidder shall have an authorized representative visit the site of the work and thoroughly inform themselves of all conditions and factors which would affect the work and the cost thereof, including the arrangement and conditions of existing or proposed structures affecting or affected by the proposed work; the procedure necessary for maintenance of uninterrupted operation; the availability and cost of labor and facilities for transportation, handling, and storage of materials and equipment.

It must be understood and agreed that all such factors have been investigated and considered in the preparation of every bid submitted. No claims for financial adjustment to any Contract awarded for the work under these Specifications and documents will be permitted by the City, which are based on lack of such prior information or its effect on the cost of the work.

CORRESPONDENCE: Correspondence regarding drawings, instruction manuals, and other engineering data shall be sent to:

Attn: Travis Spiehs
City of Grand Island
Utility Department
P.O. Box 1968
Grand Island, NE 68802-1968
(308) 385-5460 x1144

LOCAL BIDDER PREFERENCE: In case of tied low bids, all other things being equal, preference shall be given in the following order:

1. To those bidders who manufacture their products within the limits of the City of Grand Island.
2. To those bidders who manufacture their products within the limits of the County of Hall.
3. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the City of Grand Island.
4. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the County of Hall.
5. To those bidders who maintain a bona fide business office in the City of Grand Island, whose products may be made outside the confines of the City of Grand Island.
6. To those bidders who maintain a bona fide business office in the County of Hall, whose products may be made outside the confines of the County of Hall.
7. To those bidders whose commodities are manufactured, mined, produced, or grown within the state of Nebraska and to all firms, corporations, or individuals doing business as Nebraska firms, corporations or individuals, when quality is equal or better and delivered price is the same or less than the other bids received.
8. To those bidders whose commodities are manufactured, mined, produced, or grown within the United States of America and to all firms, corporations, or individuals doing business as firms registered in states other than Nebraska when quality is equal or better and delivered price is the same or less than the other bids received.

SECTION C

CONTRACTOR'S BID FORM

115kV Relay Setting Proposal 2021

CITY OF GRAND ISLAND, NEBRASKA

CONTRACTOR'S BID

TO THE MEMBERS OF THE COUNCIL
CITY OF GRAND ISLAND
GRAND ISLAND, NEBRASKA

THE UNDERSIGNED BIDDER, having examined the plans, specifications, general and special conditions, other proposed contract documents, and all addenda thereto and being acquainted with and fully understanding (a) the extent and character of the work covered by this Bid, (b) the location, arrangement, and specified requirements for the proposed work, (c) the location, character, and condition of existing streets, roads, highways, railroad, pavements, surfacing, walks, driveways, curbs, gutters, trees, sewers, utilities, drainage courses and structures, and other installations, both surface and underground which may affect or be affected by the proposed work, (d) the nature and extent of the excavations to be made and the handling and re-handling of excavated materials, (e) the location and extent of necessary or probable dewatering requirements, (f) the difficulties and hazards to the work which might be caused by storm and flood water, (g) local conditions relative to labor, transportation, hauling and rail delivery facilities, and (h) all other factors and conditions affecting or which may be affected by the work.

HEREBY PROPOSES to furnish all required materials, supplies, equipment, tools and plans, to perform all necessary labor and supervision, and to construct, install, erect, equip and complete all work stipulated in, required by and in accordance with the contract documents and the plans, specifications and other documents referred to therein (as altered, amended or modified by all addenda thereto) for and in consideration of the following prices:

BID PRICE: The bidder shall complete the work as stated in these specifications and as shown on the plans and drawings for the total lump sum firm contract price of:

_____ Dollars

\$ _____

If bidder fails to include sales tax in their bid price or takes exception to including sales tax in their bid price, the City will add a 7.5% figure to the bid price for evaluation purposes; however, the City will only pay actual sales tax due.

According to Nebraska Sales and Use Tax Requirements, Section 1-017, Contractors, check which option you have selected to file with the Nebraska Department of Revenue:

Option 1 (Section 1-017.05)

Option 2 (Section 1-017.06)

Option 3 (Section 1-017.07)

The choice of option is made by completing and mailing to the Department of Revenue, a Nebraska Sales and Use Tax Election for Contractors. This form must be filed within three months after beginning to operate as a contractor. If this form is not filed, the contractor will be treated as a retailer under Option 1 for sales and use tax purposes.

EXPERIENCE DATA:

Each bidder shall supply the following data on his experience:

Name of Bidder:

<u>Project Owner</u>	<u>Contact</u>	<u>Phone No.</u>	<u>Project Location</u>	<u>Completion Date</u>

Additional Data: _____

INSURANCE: Bidder acknowledges that bid includes compliance with the attached insurance requirements.

ADDENDA: Bidder acknowledges that Addenda Number(s) _____ were received and considered in Bid preparation.

EXCEPTIONS: Bidder acknowledges agreement with the accompanied specifications excluding the following listed exceptions:

SCHEDULE: Bidder acknowledges and accepts the schedule as outlined in the General Specification.

INSURANCE AND BONDS: The undersigned bidder agrees to furnish the certificate of insurance and bonds, and to enter into a contract within twenty (20) days after acceptance of this Bid, and further agrees to complete all work covered by the foregoing bid in accordance with specified requirements. The proposed work will commence as soon as possible after the contract execution with completion of the total contract to be no later than 230 days after bid award. **No work shall commence until the certificate of insurance and bonds are approved by the City and the contract is executed.**

Enclosed herewith is the bid security in the amount of:

_____ Dollars

(\$_____)

which the undersigned bidder agrees is to be forfeited to and become the property of the City of Grand Island, Nebraska, as liquidated damages should this Bid be accepted and a contract be awarded to them and they fail to enter into a contract in the form prescribed and to furnish the required bond within twenty (20) days, but otherwise the aforesaid bid guarantee will be returned upon their signing the contract and delivering the approved bond.

It is understood and agreed that time is the essence of the contract.

In submitting this bid it is understood that the right is reserved by the City to reject any and all bids; to waive irregularities therein and to accept whichever bid that may be in the best interest of the City, at its sole discretion. It is understood that this bid may not be withdrawn until after sixty (60) days from bid opening.

In submitting this bid, the bidder states that bidder fully complies with, and will continue to comply with, applicable State fair labor standards as required by section 73-102 RRS, 1943 and also

complies with, and will continue to comply with, section 48-657 RRS, 1943 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

The undersigned bidder hereby certifies (a) that this bid is genuine and is not made in the interest of or in the behalf of any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation, (b) that he has not directly or indirectly induced or solicited any person, firm or corporation to refrain from bidding, (c) that he has not sought, by collusion or otherwise, to obtain for himself an advantage over any other bidder or over the City of Grand Island, and (d) that he has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid.

DATED _____

SIGNATURE OF BIDDER:

If an Individual: _____ doing business

as _____

If a Partnership: _____

by _____, member of firm.

If a Corporation: _____

by _____ (Seal)

Title _____

BUSINESS ADDRESS OF BIDDER _____

TELEPHONE NUMBER OF BIDDER _____

FAX NUMBER OF BIDDER _____

LIST ALL SUBCONTRACTORS:

<u>Company Name</u>	<u>Work Subcontracted</u>	<u>Business Address</u>	<u>Business Telephone Number</u>
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SECTION D

MINIMUM INSURANCE REQUIREMENTS

MINIMUM INSURANCE REQUIREMENTS

CITY OF GRAND ISLAND, NEBRASKA

The Contractor shall purchase and maintain at their expense as a minimum insurance coverage of such types and in such amounts as are specified herein to protect Contractor and the interest of Owner and others from claims which may arise out of or result from Contractor's operations under the Contract Documents, whether such operations be by Contractor or by any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable. Failure of Contractor to maintain proper insurance coverage shall not relieve him of any contractual responsibility or obligation.

1. WORKERS COMPENSATION AND EMPLOYER'S LIABILITY

This insurance shall protect the Bidder against all claims under applicable State workers compensation laws. This insurance shall provide coverage in every state in which work for this project might be conducted. The liability limits shall not be less than the following:

Workers Compensation	Statutory Limits
Employers Liability	\$100,000 each accident
\$100,000 each employee	
\$500,000 policy limit	

2. BUSINESS AUTOMOBILE LIABILITY

This insurance shall be written in comprehensive form and shall protect the Bidder, Bidder's employees, or subcontractors from claims due to the ownership, maintenance, or use of a motor vehicle. The liability limits shall be not less than the following:

Bodily Injury & Property Damage	\$ 500,000 Combined Single Limit
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3. COMPREHENSIVE GENERAL LIABILITY

The comprehensive general liability coverage shall contain no exclusion relative to explosion, collapse, or underground property. The liability limits shall be not less than the following:

Bodily Injury & Property Damage	\$ 500,000 each occurrence
\$1,000,000 aggregate	

4. UMBRELLA LIABILITY INSURANCE

This insurance shall protect the Bidder against claims in excess of the limits provided under employer's liability, comprehensive automobile liability, and commercial general liability policies. The umbrella policy shall follow the form of the primary insurance, including the application of the primary limits. The liability limits shall not be less than the following:

Bodily Injury & Property Damage	\$1,000,000 each occurrence
\$1,000,000 general aggregate	

5. ADDITIONAL REQUIREMENTS

The City may require insurance covering a Bidder or subcontractor more or less than the standard requirements set forth herein depending upon the character and extent of the work to be performed by such Bidder or subcontractor.

Insurance as herein required shall be maintained in force until the City releases the Bidder of all obligations under the Contract.

The Bidder shall provide and carry any additional insurance as may be required by special provisions of these specifications.

6. CERTIFICATE OF INSURANCE

Satisfactory certificates of insurance shall be filed with the City prior to starting any work on this Contract. **The certificates shall show the City as an additional insured on all coverage except Workers Compensation. The certificate shall state that thirty (30) days written notice shall be given to the City before any policy is cancelled (strike the "endeavor to" wording often shown on certificate forms). If the bidder cannot have the "endeavor to" language stricken, the bidder may elect to provide a new certificate of insurance every 30 days during the contract. Bidder shall immediately notify the City if there is any reduction of coverage because of revised limits or claims paid which affect the aggregate of any policy.**

SECTION E

CONTRACT AGREEMENT

115kV Relay Setting Proposal 2021

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into by and between _____ hereinafter called the Contractor, and the City of Grand Island, Nebraska, hereinafter called the City.

WITNESSETH:

THAT, WHEREAS, in accordance with law, the City has caused contract documents to be prepared and an advertisement calling for bids to be published, for construction of 115kV Relay Setting Proposal 2021; and

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined, and canvassed the bids submitted, and has determined the aforesaid Contractor to be the lowest responsive and responsible bidder, and has duly awarded to the said Contractor a contract therefore, for the sum or sums named in the Contractor's bid, a copy thereof being attached to and made a part of this contract;

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties have agreed and hereby agree, the City for itself and its successors, and the Contractor for itself, himself, or themselves, and its, his, or their successors, as follows:

ARTICLE I. That the Contractor shall (a) furnish all tools, equipment, superintendence, transportation, and other construction materials, services and facilities; (b) furnish, as agent for the City, all materials, supplies and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good substantial and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the contract documents as listed in the attached General Specifications, said documents forming the contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the City's official award of this contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's bid;

ARTICLE II. That the City shall pay to the contractor for the performance of the work embraced in this contract and the contractor will accept as full compensation therefore the sum (subject to adjustment as provided by the contract) of _____ Dollars
\$ _____
for all services, materials, and work covered by and included in the contract award and designated in the foregoing Article I; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

ARTICLE III. The contractor hereby agrees to act as agent for the City in purchasing materials and supplies for the City for this project. The City shall be obligated to the vendor of the materials and supplies for the purchase price, but the contractor shall handle all payments hereunder on behalf of the City. The vendor shall make demand or claim for payment of the purchase price from the City by submitting an invoice to the contractor. Title to all materials and supplies purchased hereunder shall vest in the City directly from the vendor. Regardless of the method of payment, title shall vest immediately in the City. The contractor shall not acquire title to any materials and supplies incorporated into the project. All invoices shall bear the contractor's name as agent for the City. This paragraph will apply only to these materials and supplies actually incorporated into and becoming a part of the finished product of 115kV Relay Setting Proposal 2021.

ARTICLE IV. That the contractor shall start work as soon as possible after the contract is signed and the required bonds and insurance are approved, and that the Contractor shall complete the work within 230 days of award. It is understood and agreed that time is the essence of the contract.

CONTRACT AGREEMENT (Continued)

ARTICLE V. The Contractor agrees to comply with all applicable State fair labor standards in the execution of this contract as required by Section 73-102, R.R.S. 1943. The Contractor further agrees to comply with the provisions of Section 48-657, R.R.S. 1943, pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. During the performance of this contract, the contractor and all subcontractors agree not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, national origin, age or disability. The Contractor agrees to comply with all applicable Local, State and Federal rules and regulations.

IN WITNESS WHEREOF, the parties hereto have executed this Contract Agreement.

Contractor _____

By _____

Date _____

Title _____

CITY OF GRAND ISLAND, NEBRASKA,

By _____

Date _____

Mayor

Attest: _____

City Clerk

The contract, insurance, and any required bonds are in due form according to law and are hereby approved.

Attorney for the City

Date _____

SECTION F

CITY GENERAL SPECIFICATIONS

115kV Relay Setting Proposal 2021

GENERAL SPECIFICATIONS 115kV RELAY SETTING PROPOSAL 2021

1.0 PROJECT OVERVIEW AND SCOPE

The City of Grand Island owns an electric system consisting of a 115 kV loop around the City. This transmission loop connects seven distribution substations and two generation substations. The loop also has five 115 kV interconnections, at four substations, to the Nebraska Public Power District (NPPD).

The Grand Island Utilities Department has obtained new protective relays for the 115kV loop. These relays require extensive programming using the physical data of the electrical equipment owned by GIUD and our neighbors. The relays should be coordinated using calculations of many scenarios to recognize faults on the protected line and act appropriately while delaying action on remote faults.

The Utilities Department intends to implement these settings as our new relays are installed which will be over time. Part of this proposal is supporting any issues that arise through the implementation and testing processes. The contractor will be asked to visit Grand Island to become familiar with the project and discuss potential issues as they arise.

2.0 PROJECT DETAILS

2.1 Our current 115kV relaying consists of SEL-351, RFL-9300, ABB REL-670, ABB RED-670, and SEL-387L relays. The relay settings for the scope of this project will utilize ABB RED-670 relays providing Differential, Distance, Overcurrent, Sync, and Reclosing functionality as well as any other functionality recommended by the Consultant. Also installed with the RED-670 relays are SEL-387L relays. The SEL-387L relays provide differential protection without settings.

2.2 The Consultant will provide settings file for each relay that is ready to be applied to the relay and tested. A calculation sheet showing evaluations of faults and scenarios considered as part of this process. A “test sheet” will also be provided to indicate digital and analog input values with instructions which trigger each function programmed in a test environment for commissioning. These test documents should follow guidelines provided by NERC PRC-005 documentation. Grand Island can provide one spare relay to the Consultant for testing during this process if requested by the Consultant.

2.3 Grand Island will be responsible for designating the functions of the inputs and outputs to ensure the relay wiring is consistent. The physical wiring diagrams can be provided by Grand Island.

2.4 Grand Island will provide known values regarding the physical transmission lines. The Consultant will be responsible for coordinating settings with our generators and our neighbors. Grand Island has two substations that are fed by generators and four substations that are fed with tie lines to our neighbor NPPD. A one-line diagram is included in the appendix.

2.5 Grand Island intends to install these relays on one transmission line at a time to minimize outages. This means that it may take up to 24 months from the award of the bid to finalize the installation of all of the relays. The Consultant will provide support to Grand Island with setting up and testing the relays for up to 24 months after bid award or 6 months after final setting file delivery, whichever is later.

3.0 BIDDING NOTES

Bids should be submitted with a set of itemized work costs for each protected transmission line. In the case that work is not completed by the deadline, the costs associated with the work completed will be predefined by this itemized bid. Appendix 1 is a sample bid sheet. The billing for work completed on each line will be allowed at 80% for setting file delivery and 20% for completed testing support.

4.0 PROJECT EXECUTION

The consultant's proposal should include a lead time and a completion time. Grand Island expects completed settings for the first transmission line no less than 90 days after bid award. After this, 20 days will be given for the next line, and so on. This leaves a total timeframe of 230 days to delivery of the final settings. The City of Grand Island will be responsible for providing communication of data in a timely fashion and expects the consultant to do the same. Grand Island does not plan outages between Memorial Day and Labor Day so no field work will be completed on this project during these times. Grand Island typically expects 2-4 weeks for relay replacement on a transmission line depending on the layouts of the substations affected.

5.0 WARRANTY

The Contractor shall provide fault analysis for 60 months from the date of contract award to ensure the provided settings function as designed. Historically, Grand Island has 1-2 transmission operations a year that are analyzed in-house. The purpose of this is to guarantee support in the case of a misoperation which is a result of the Consultant's work. In the case of a misoperation, the Consultant will be responsible for providing a report of the incident to Grand Island for NERC misoperation reporting requirements.

6.0 QUALIFICATIONS

The contractor shall have education, training and experience in the design, testing, and implementation of protective relaying. Expertise in programming ABB RED-670 relays is preferred. Identification of the primary personnel (those who will be performing the work) and a statement of their qualifications shall be included with the proposal.

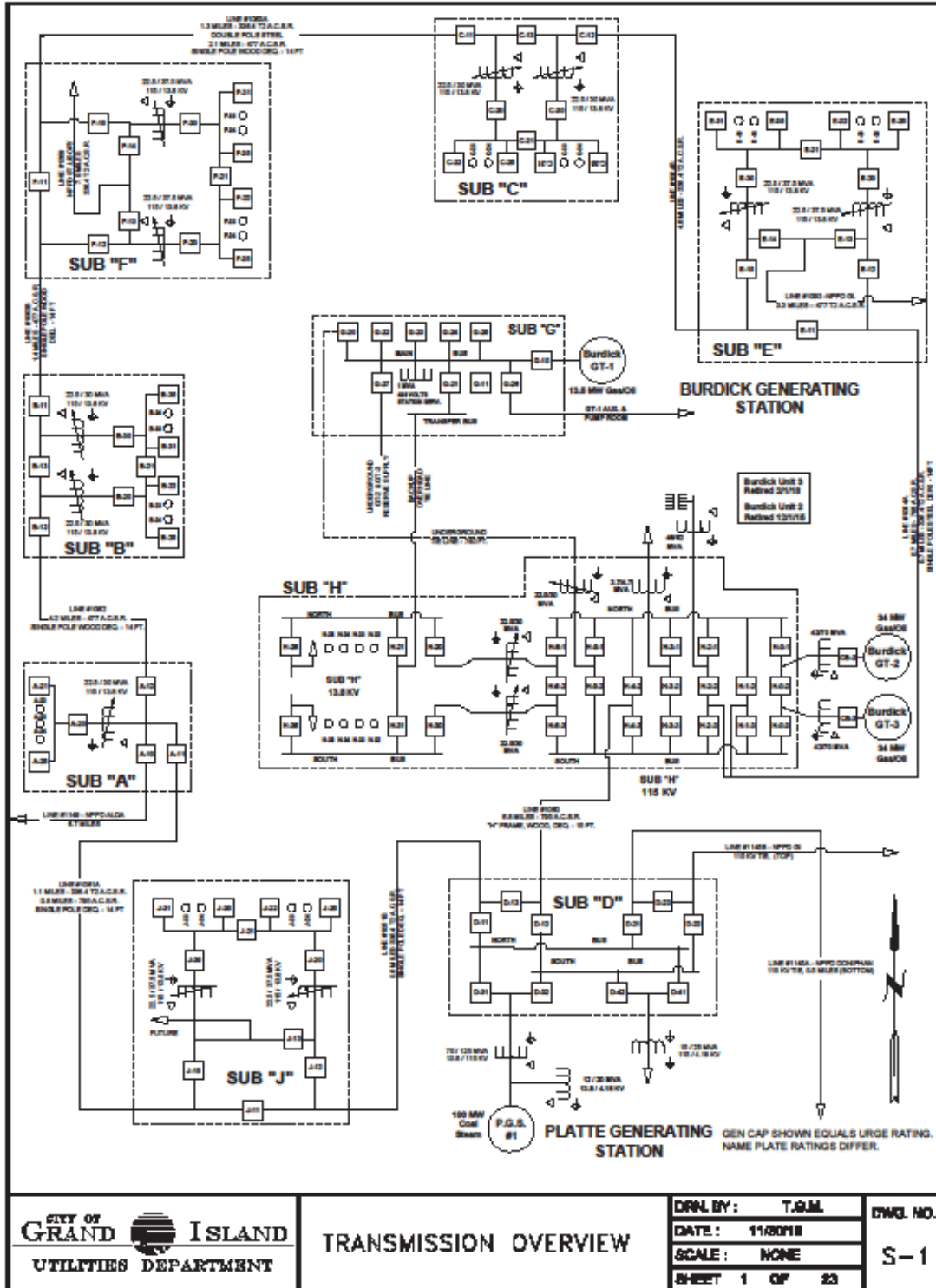
SECTION G

APPENDICES

Appendix 1 – Individual Bid form

	Location	City Number	Individual Bid Price
GIUD Transmission Lines	Sub H to Sub E	1064A	
	Sub E to Sub C	1064B	
	Sub C to Sub F	1063A	
	Sub F to Sub B	1063B	
	Sub B to Sub A	1062	
	Sub A to Sub J	1061A	
	Sub J to Sub D	1061B	
	Sub D to Sub H	1060	

Appendix 2 – System One Line Diagram



Appendix 3 – Sample Relay I/O List

SAMPLE RED670 RELAY I/Os	
	11S-1060 (Secondary relay)
INPUTS	Description / Used for
BI,1	PCB D-12/ 52a
BI,2	PCB D-12/ TC1 Monitor
BI,3	Spare
BI,4	PCB D-12 Breaker Failure Lockout Relay, 1286BF N.O. contact
BI,5	115KV Bus Diff. relay Lockout Relay 86B/Aux Relay, 62ZBS N.O. contact (BFI)
BI,6	11P-1060, TRIP output contact for Local Breaker Failure Initiation (BFI)
BI,7	11P-1060, R1 output contact for Remote Breaker Failure Initiation (BFI)
BI,8	11P-1060, R2 output contact for Remote Breaker Failure Initiation (BFI)
BI,9	PCB D-13/ 52a
BI,10	PCB D-13/ TC1 Monitor
BI,11	PCB D-13 Breaker Failure Lockout Relay, 1386BF N.O. contact
BI,12	Spare
BI,13	Spare
BI,14	PCB D-12/ TC2 Monitor
BI,15	PCB D-13/ TC2 Monitor
BI,16	Spare
OUTPUTS	
BO,1	Trip PCB D-12, TC1
BO,3	Close/Reclose PCB D-12
BO,5	PCB D-12 Sync Check
BO,7	Trip PCB D-12 Breaker Failure Lockout Relay 1286BF
BO,9	11P-1060, DTT through 11P-1060(SEL-387L)
BO,11	Spare
BO,13	Trip PCB D-13, TC1
BO,15	Close/Reclose PCB D-13
BO,17	PCB D-13 Close Sync Check
BO,19	Trip PCB D-13 Breaker Failure Lockout Relay 1386BF
BO,21	Spare
VDC1	
VDC2	
X401-1,3,5(IA, IB, IC)	PCB D-12, Y1(5-3-1), 1200/5
X401-7,9,11(IA, IB, IC)	PCB D-13, Y1(1-3-5), 1200/5
X401-15,17,19(VA, VB, VC)	115KV South Bus PTs (69000/69v L/N) 1000:1
X401-21/22 (VB)	115KV L1061B PT (69000/115v L/N) 600:1 (69000/69v L/N) 1000:1
X401-23/24 (VB)	115KV L1060 PT (69000/115v L/N) 600:1