



**Working Together for a
Better Tomorrow. Today.**

SPECIFICATION PACKAGE

for

PRECIPITATOR INSULATION PROJECT

Bid Opening Date/Time

**Tuesday, August 30th, 2011 @ 2:00 p.m. (local time)
City of Grand Island, City Hall
100 East 1st Street, P.O. Box 1968
Grand Island, NE 68802-1968**

Contact

**City of Grand Island – Utilities Department
Platte Generating Station
308/385-5496**

Date issued: August 17, 2011

**ADVERTISEMENT TO BIDDERS
FOR
PRECIPITATOR INSULATION PROJECT
FOR
CITY OF GRAND ISLAND, NEBRASKA**

Sealed bids will be received at the office of the City Clerk, 100 E. First Street, P.O. Box 1968, Grand Island, Nebraska 68802, until Tuesday, August 30, 2011 at 2:00 p.m. local time for Precipitator Insulation Project, FOB the City of Grand Island, freight prepaid. Bids will be publicly opened at this time in the Grand Island City Hall Council Conference Room #1 located on 1st floor of City Hall. Submit an original and three copies. Bid proposal package is also available on-line at www.grand-island.com under Business-Bid Calendar. Bids received after the specified time will be returned unopened to sender.

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S.73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. Successful bidder shall maintain a drug free workplace policy. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

Each bidder shall submit with the bid a certified check, a cashiers check, or bid bond payable to the City Treasurer in an amount no 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 fourteen (14) days at the bid price if accepted by the City. **Your certified check, cashier's 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.** Surety companies authorized to do business in the State of Nebraska must issue bid bonds.

Bids will be evaluated by the Purchaser based on price, schedule, quality, adherence to schedule, plan and specifications, economy and efficiency of operation, experience and reputation of the bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The Purchaser reserves the right to reject any or 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.

No bidder may withdraw his bid for a period of thirty (30) days after date of bid opening.

RaNae Edwards, City Clerk

PRECIPITATOR INSULATION PROJECT
BID DATA FORM

CITY OF GRAND ISLAND
GRAND ISLAND, NE

The undersigned bidder, having examined all specifications and other bidding documents, and all addenda thereto, and being acquainted with and fully understanding all conditions relative to the specified materials and equipment, hereby proposes to provide such equipment FOB the City of Grand Island, freight prepaid, at the following price:

<u>ITEM DESCRIPTION</u>	<u>EXTENDED COST</u>
Base Bid:	
Mobilization / Demobilization	\$ _____
Insulation	\$ _____
Labor	\$ _____
Applicable Sales Tax*	\$ _____
TOTAL BASE BID	\$ _____

*** 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 7.0% figure to the bid price for evaluation purposes; however, the City will only pay actual sales tax due.**

- By checking this box, Bidder acknowledges that Addenda Number(s) _____ were received and considered in Bid preparation.
- By checking this box, Bidder acknowledges the specified completion date of the project is **October 19, 2011**.

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:

Nebraska law provides a sales and use tax exemption on contractor labor charges for the construction, repair, or annexation of any structure used for the generation, transmission, or distribution of electricity. Separately stated contractor labor would be exempt, all materials are taxable according to the contractor's option.

Option 1 (Section 1-017.05)_____ Option 2 (Section 1-017.06)_____ Option 3 (Section 1-017.07)_____

If the Nebraska sales and use tax election is not filed or noted above, the contractor will be treated as a retailer under Option 1 for sales and use tax purposes.

Bidder Company Name	Date
---------------------	------

Company Address	City	State	Zip
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Print Name of Person Completing Bid	Signature
-------------------------------------	-----------

Telephone No. _____ Fax No. _____

By checking this box, Bidder acknowledges there are Exceptions noted to the bid.
NOTE: Any exceptions to specifications must be fully explained on a separate sheet attached to bid.

CHECKLIST FOR BID SUBMISSION
FOR
PRECIPITATOR INSULATION PROJECT

Bids must be received by the City Clerk before 2:00 p.m. on TUESDAY, AUGUST 30, 2011.

The following items must be completed for your bid to be considered.

- A signed original and three copies of the bidding documents.
- A reference list of at least three projects of similar scope and complexity.
- A summary of the experience of the Project Supervisor proposed for this project.
- Firm lump sum pricing; firm unit pricing in case adjustments are necessary, and breakout of sales tax pricing.
- A proposed material delivery/construction schedule.
- Selection of Nebraska Sales Tax Option.
- Acknowledgment of Addenda Number(s) _____.
- Bidders must complete and sign the Bid Data Form provided in these Documents. All blank spaces must be filled in. Bidders shall acknowledge receipt of any Addenda information on the Bid Data Form.
- A certified check, cashiers check or bid bond 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.

Please check off each item as completed.

Company

Signature

Telephone No. _____

Fax No. _____

INSTRUCTIONS TO BIDDERS

1. GENERAL INFORMATION.

The following instructions outline the procedure for preparing and submitting Bids. Bidders must fulfill all requirements as specified in these Documents.

2. TYPE OF BID.

Bidders shall be required to submit prices for all items listed in the Bid Data Form.

3. PREPARATION OF BIDS.

Bidders shall use only the Bid Data Form provided in these Documents. All blank spaces in the Bid Data Form, must be filled in, preferably in BLACK ink, in both words and figures where required. No changes to the wording or content of the forms is permitted. Written amounts shall govern in case of discrepancy between the amounts stated in writing and the amounts stated in figures.

Prices stated shall be f.o.b. with freight and full insurance paid by Bidder, to the job site located in Grand Island.

The Bidder shall acknowledge receipt of all addenda in the Bid Data Form. Bids received without acknowledgement or without the Addendum enclosed will be considered informal.

4. SUBMISSION OF BIDS.

All Bids must be submitted intact not later than the time prescribed, at the place, and in the manner set forth in the ADVERTISEMENT FOR BIDS. Bids must be made on the Bid Data Form provided here in. Each Bid must be submitted intact in a sealed envelope, so marked as to indicate its contents without being opened, and delivered in person or addressed and mailed in conformance with the instructions in the ADVERTISEMENT FOR BIDS.

5. BID SECURITY.

Bids must be accompanied by cash, a certified check, or cashier's check drawn on a bank which is insured by the Federal Deposit Insurance Corporation, or a bid bond issued by a Surety authorized to issue such bonds in the state where the Work is located, in the amount of 5 percent of the bid amount payable to OWNER. This bid security shall be given as a guarantee that the Bidder will not withdraw his Bid for a period of 30 days after bid opening, and that if awarded the Contract, the successful Bidder will execute the attached Contract and furnish a properly executed Performance Bond and Payment Bond each in the full amount of the Contract price within the time specified.

The Attorney-in-Fact that executes this bond in behalf of the Surety must attach a notarized copy of his power of attorney as evidence of his authority to bind the Surety on the date of execution of the bond. Where State Statute requires, certification by a resident agent shall also be provided.

6. RETURN OF BID SECURITY.

Within 15 days after the award of the Contract, the OWNER will return the bid securities to all Bidders whose Bids are not to be further considered in awarding the contract. All other retained bid securities will be held until the Contract has been finally executed, after which all bid securities, other than Bidders' bonds and guarantees which have been fortified, will be returned to the respective Bidders whose Bids they accompanied.

7. BASIS OF AWARD.

The award will be made by the OWNER on the basis of the Bid from the lowest responsive, responsible Bidder which, in the OWNER's sole and absolute judgment will best serve the interest of the OWNER. All Bids will be considered on the following basis:

Conformance with the terms of the Bid Documents.

Bid price.
Cost of installation.

Suitability to project requirements.
Delivery time.

Responsibility and qualification of Bidder.

The OWNER reserves the right to reject all Bids, or any Bid not in conformance with the intent of the Bid Documents, and to waive any informalities and irregularities in said Bids.

8. EXECUTION OF CONTRACT.

The successful Bidder shall, within 15 days after receiving notice of award, sign and deliver to the OWNER the Contract hereto attached together with the acceptable bonds as required in these Bid Documents. Within 15 days after receiving the signed Contract with acceptable bond(s) from the successful Bidder, the OWNER's authorized agent will sign the Contract. Signature by both parties constitutes execution of the Contract.

9. PERFORMANCE AND PAYMENT BONDS.

The successful Bidder shall file with the OWNER Performance and Payment Bonds in the full amount (100 percent) of the Contract price, as security for the faithful performance of the Contract and the payment of all persons supplying labor and materials for the Work under this Contract, and to cover all guarantees against defective workmanship or materials, or both, for a period of 1 year after the date of final acceptance of the Work by the OWNER. The Surety furnishing these bonds shall have a record of service satisfactory to the OWNER, be authorized to do business in the State where the OWNER's project is located and shall be named on the current list of approved Surety Companies, acceptable on Federal bonds as published by the Audit Staff, Bureau of Accounts, U.S. Treasury Department.

The Attorney-in-Fact (Resident Agent) who executes these bonds on behalf of the Surety must attach a notarized copy of his power-of-attorney as evidence of his authority to bind the Surety on the date of execution of the bond.

10. TIME OF COMPLETION.

The time of completion of the Work to be performed under this Contract is the essence of the Contract. The time allowed for the completion of the Work is stated in the Bid Data Form.

11. 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 therefor. 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 therewith, as an inducement for the award of a subcontract or order.

12. FISCAL YEAR.

The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into by and between **[SUCCESSFUL BIDDER]**, 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 PRECIPITATOR INSULATION PROJECT; 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 following documents shall comprise the Contract, and shall together be referred to as the "Agreement" or the "Contract Documents";

1. This Contract Agreement.
2. City of Grand Island's Specification for this project.
3. **[NAME OF SUCCESSFUL BIDDER]** bid signed and dated **[DATE OF BID]**.

In the event of any conflict between the terms of the Contract Documents, the provisions of the document first listed shall prevail.

ARTICLE II. 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 III. 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 **[DOLLAR AMOUNT] (\$00.00)** for all services, materials, and work covered by and included in the contract award and designated in the foregoing Article II; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

The total cost of the Contract includes:

Base Bid:	\$.00
Sales Tax on Materials/Equipment:	\$.00
Sales Tax on Labor:	<u>\$.00</u>
Total	\$.00

The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

ARTICLE IV. 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 the PRECIPITATOR INSULATION PROJECT.

ARTICLE V. 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 deliver the equipment, tools, supplies, and materials F.O.B. Platte Generating Station, and complete the work on or before **October 19, 2011**.

ARTICLE VI. 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. The Contractor agrees to maintain a drug-free workplace policy and will provide a copy of the policy to the City upon request. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within 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 therefor. 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 therewith, as an inducement for the award of a subcontract or order.

[SUCCESSFUL BIDDER]

By _____ Date _____

Title _____

CITY OF GRAND ISLAND, NEBRASKA

By _____ Date _____
Mayor

Attest: _____
City Clerk

The contract is in due form according to law and hereby approved.

Attorney for the City Date _____



*Working Together for a
Better Tomorrow, Today.*

REQUEST FOR BIDS - GENERAL SPECIFICATIONS

The Bid shall be in accordance with the following and with all attached BID DATA and DETAILED SPECIFICATIONS.

All prices are to be furnished and installed FOB, Grand Island, Nebraska. **All prices shall be firm, and shall include all sales and use taxes as lawfully assessed under laws and regulations of the State of Nebraska.** * 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 7.0% figure to the bid price for evaluation purposes; however, the City will only pay actual sales tax due.

Bids shall include the following on the **outside** of the mailing envelope: "**Precipitator Insulation Project**". All sealed bids are due no later than **Tuesday, August 30, 2011, at 2:00 p.m. local time**. Submit **an original and three copies** of the bid to:

Mailing Address: City Clerk
City Hall
P. O. Box 1968
Grand Island, NE 68802

Street Address: City Clerk
City Hall
100 E. First Street
Grand Island, NE 68801

Bids will be opened at this time in the City Hall Council Conference Room #1 located on 1st floor of City Hall. Any bid received after the specified date will not be considered. No verbal bid will be considered.

Bids will be evaluated by the Purchaser based on price, schedule, quality, adherence to schedule, plan and specifications, economy and efficiency of operation, experience and reputation of the bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S.73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. Contractor shall maintain a drug free workplace policy. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

The equipment and materials must be new, the latest make or model, unless otherwise specified. Prior to approving the invoice for payment, the City reserves the right to thoroughly inspect and test the equipment to confirm compliance with specifications. Any equipment or material which does not meet the City's requirements will be returned at vendor's expense for correction. The invoice will be paid after approval at the next regularly scheduled Council meeting and occurring after departmental approval of invoice; the City Council typically meets the second and fourth Tuesday of each month. Invoices must be received well in advance of Council date to allow evaluation and processing time.

Each bidder shall submit with the bid a certified check, a cashiers check, or bid bond payable to the City Treasurer in an amount no 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 fourteen (14) days at the bid price if accepted by the City. **Your certified check, cashier's 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.** Surety companies authorized to do business in the State of Nebraska must issue bid bonds.

Successful bidder shall comply with the City's insurance requirements; performance and payment bonds are required for this project as outlined in the Detailed Specifications and Instructions to Bidders.

All bids shall be valid for at least thirty (30) working days after the bid deadline for evaluation purposes.

All bids must be on the bid form and must be signed and dated to be accepted. Please contact Ryan Schmitz at 308-385-5495, for questions concerning this specification.

**PRECIPITATOR INSULATION PROJECT
DETAILED SPECIFICATIONS**

SECTION 100 - GENERAL

Description of Work: The project involves remedying the existing bulge in the East & West walls of the precipitator at the Platte Generating Station in Grand Island, Nebraska. A site visit by the Contractor, prior to bidding, is recommended but not required.

Work shall include:

1. Mobilization/Demobilization
2. Removal/Replacement of: Lagging, Insulation, Welded Wire Mesh, Weld Pins, Expansion Joints, Flashing, Screws, Weather Closure Strips, Etc.

Bid Item for "Insulation" will include:

- Removal and Replacement of 1200 square feet of all Lagging, Insulation, Screws, Flashing, Weather Closure Strips, Expansion Joints, Weld Pins, Weld Pin Speed Clips, Welded Wire Mesh, Fasteners, and all other materials/labor necessary for the removal and replacement of the aforementioned area. The Contractor will be responsible for the disposal of all discarded products.

Bid Item for "Mobilization/Demobilization" shall include:

- Transport of all equipment and personnel necessary for Construction to the site.
- Construction of all scaffolding, harnessing, safety equipment, and all other items needed for safety and accessibility necessary to proceed with Construction.
- Removal of all equipment and personnel from the Construction site.
- Removal of all scaffolding, harnessing, safety equipment, and all other items used for safety and accessibility during Construction.
- Cleanup and Disposal of all screws, scraps, waste material, and other debris created during Construction.

All references to the cross sectional configuration of the precipitator wall are for information only. All data is provided from the best available information recorded from the original installation nearly 30 years ago. Contractor is responsible for evaluating the cross sectional configuration independently.

Material Quantities

QUANTITY LISTINGS		
ITEM	UNIT	QTY.
MOBILIZATION/DEMobilIZATION	LS	1
INSULATION	SF	1200

Measurements given in 'Project Drawings' are estimates only. All pictures are NOT to scale.

City Representative: A Platte Generating Station Engineer.

Contractor: Project Supervisor or qualified representative of the contracting company.

Owner: All Platte Generating Station Employees and Equipment.

Specifications: All information included in the bid package; including this document.

Location of Work: The work to be performed under this Contract is located at the Platte Generating Station, 1035 West Wildwood Drive, Grand Island, NE. The plant entrance is located two miles south of U.S. Highway 34 and 1 ½ miles east of U.S. Highway 281.

Schedule: All work shall be completed between October 7th and October 12th, 2011, during the time the power plant is shutdown.

Exceptions to the timeframe include:

1. Contractor will be allowed to Mobilize up to one week before shutdown.
2. Contractor will be allowed to Demobilize for up to one week after shutdown ends.

Access to the City site will be available at all times and the Contractor may determine working hours, however, the City staff will only be available during normal, daytime, weekday working hours.

The Contractor shall include with the bid a material delivery schedule and a preliminary construction schedule. The Contractor shall furnish the City with a detailed schedule showing the activities, job duration, job start and finish dates, and manpower prior to mobilization.

There is no separate contractor entrance at the Platte Generating Station. There is one gate with a card access security system and the Contractor may request to use access cards rather than request entry and exit each trip. There is a \$25.00 charge for all access cards that are not returned when the job is completed

Project Supervision: The General Contractor shall be required at all times during construction activities to have a designated Project Supervisor at the work site. The Project Supervisor shall be experienced in all aspects of the project and will be responsible for on-site, day-to-day management of the project.

The Project Supervisor shall have:

- Practical written and verbal communication skills of the English language.
- Ability to read, understand and accurately interpret the contract documents, plans and specifications.
- Skilled knowledge of construction techniques.
- Ability to supervise the entire construction crew, including subcontractors.
- The experience and ability to identify existing and predictable hazards in the surrounding or working conditions, and the authority to take prompt corrective measures to resolve problems and/or eliminate them.
- A set of specs and quotation documents at the work site.
- If the Contractor's Project Supervisor is not at the work site, the Contractor's office shall notify the City and all construction activities shall cease until such time as a qualified replacement arrives on site. No claims for financial adjustment due to inadequate project supervision shall be permitted by the City.

Sufficient People and Equipment: It is the intent of this specification that the Contractor has sufficient people and equipment on the job site capable of completing the job as specified. The Contractor must demonstrate this capability to the satisfaction of the Utilities Department. If at any time during the performance of the work, the Contractor's progress on any phase of the work falls behind, the Contractor, at no extra expense to the City, shall take such action as necessary to meet those completion dates including, but not limited to, working additional or longer shifts and employing more labor and equipment and/or to increase the efficiency of, improve the character of, augment the number of, or to substitute new tools, or equipment of the Contractor, as the case might be so as to secure the quality of work required.

Relations with Other Contractors: The Contractor shall cooperate with all other contractors and City crews who may be performing work in the vicinity of the work; and shall conduct their operations to minimize interference with the work of such contractors or employees. The Contractor shall promptly make good, at Contractor's own expense, any injury or damage that may be sustained to other contractors or employees of the City, caused by Contractor's actions or inactions.

Any difference or conflict (which may arise between the Contractor and other contractors, or between the Contractor and employees of the City, in regard to their work) shall be resolved as determined by the City. If the work of the Contractor is delayed because of any acts or omissions of any other contractor, the Contractor shall have no claim against the City.

Work Site: The Contractor and Contractor's employees shall confine their operations to the immediate construction area. They shall use due care in placing construction tools, equipment, excavated materials, and construction materials and supplies so as to cause the least possible damage to the property. The Contractor shall furnish and maintain all necessary safety equipment (such as barriers, signs, warning lights, and guards) and to provide adequate protection of persons and property.

Good housekeeping is essential, and shall be practiced throughout the construction period. The Contractor and Contractor's employees shall maintain a clean and safe work site free from trash and debris.

SECTION 300 – LAGGING & INSULATION

Lagging:

The City Representative shall determine if the existing lagging can be re-used upon removal by Contractor. If it is deemed necessary to replace lagging, it will be the Contractor's responsibility to replace existing lagging at his cost. Lagging shall be fabricated from aluminum sheets. It shall be stucco embossed four-inch box rib with one inch deep flutes and shall have a minimum thickness of 0.032 inches. Specifications for a proposed lagging replacement product shall require the approval of the City Representative and be submitted no later than one month before Construction begins.

Insulation:

The Contractor shall replace all insulation, deemed necessary by City Representative, in area given in 'Project Drawings'.

- All insulation materials shall be 100% asbestos free and shall at all times be kept clean and protected from the weather. They shall be kept dry and of first-class quality in every respect.
- The precipitator will be operating at 900 degrees Fahrenheit when online. Insulation shall be have a maximum temperature rating of 1000 degrees Fahrenheit. The Contractor shall provide for expansion and contraction in his application of insulation and lagging so as not to cause interference or damage of insulation by thermal movements of the precipitator, ducts, etc.
- Contractor shall install the full thickness of insulation over all surfaces; including stiffeners, support columns and beams.
- All voids between segments of insulation shall be properly filled.
- Prefabricated, pre-insulated panels will not be permitted.
- Insulation shall be a suitable mineral fiber blanket, batt or board with a minimum total thickness of six inches. The insulation shall conform to ASTM designation C-612, Class IV.
- Specifications for a proposed insulation product shall require the approval of the City Representative.

Flashing:

- If flashing replacement is deemed necessary by the City Representative, the flashing shall be fabricated from aluminum sheets. The flashing shall be stucco embossed and shall have a minimum thickness of 0.04 inches.

Lagging Expansion Joints:

- The lagging expansion joints shall be fabricated from aluminum sheets. They shall be a stucco embossed flat sheet manufactured into required shape.

Conventional Insulation Support Wire Mesh:

- The support wire mesh shall be 2"x2", 16 gauge welded wire mesh. The wire mesh shall be hot-dipped galvanized after welding.

Weld Pins:

- The weld pins shall be ten gauge in diameter and shall be 305 stainless steel. The minimum length of the pins shall be one inch greater than the insulation thickness.

Weld Pin Speed Clips:

- The speed clips used to hold the various components in place shall be manufactured from aluminum with a minimum thickness of 16 gauge. The minimum outside dimensions shall be 1 - 1/2" x 1 - 1/2".

Welded Stud Construction Fasteners:

- The welded stud fasteners shall be the self-weld shoulder stud type. The minimum diameter of the stud shall be 3/8 inch. The stud shall be stainless steel, 300 series.

Side Lap Fasteners:

- The side lap screws shall be No. 14 self-tapping, 305 stainless steel screws with a minimum length of 3/4 inch. The screws shall have type B thread and type A point. The washers for the screws shall be Neoprene composite, Neoprene aluminum, or vinyl.

Screwed Construction Fasteners:

- The screwed fasteners shall be No. 14 self-tapping, 305 stainless steel. The washer material shall not stain the lagging material and shall not deteriorate due to heat and vibration transferred through the screw from the breeching or precipitator.

Weather Closure Strips:

- The weather strips shall be manufactured of aluminum or other material approved by the Engineer. The shape and sizes of the weather strips shall be adequate for the intended utilization.

Welded Wire Mesh:

- All welded wire mesh shall be 2" x 2" x 16 gauge and hot dip galvanized after welding.

Application:

1. Care shall be taken to avoid contact between dissimilar material which might cause galvanic corrosion.
2. An inner insulation supports of welded wire mesh shall be welded to supports. After the second layer of insulation has been placed, an outer support wire mesh, same as the inner, shall be applied over the insulation layers and held securely with speed clips.
3. Application of the insulation and lagging shall be such that in all overlaps of lagging there shall be neither non-insulated areas nor gaps. Necessary provisions shall be provided for expansion and contraction so that the insulation and lagging will lie flat and straight with no gaps when the equipment and ducts are either hot or cold. All lagging shall be installed in contact with the insulation with sufficient bearing to prevent excessive deflection. The insulation shall be installed in two layers. Each layer shall be impaled carefully over the construction fasteners. The second layer shall be installed over the first in a manner that the joints or ends of each piece of insulation are staggered a minimum of six inches. There shall be no common joint through the insulation except at the intersections of structural planes. All voids between segments shall be properly filled with insulation cement. No. 16 gag lacing wire, soft annealed, shall be used to lace tightly butted insulation segments together.
4. After the second layer of insulation has been placed, the outer support wire mesh shall be applied over the insulation layers. The insulation layers and outer support wire shall be held in place by insulation speed clips. The insulation speed clips shall be solidly placed on the

construction fasteners and shall securely retain the insulation components in place. The lagging shall be securely placed over the insulation components such that it provides a weatherproof covering for the insulation. Lagging shall be field drilled to fit on the end of the construction fasteners and positively retained by a washer and clip cap.

5. All lagging shall be installed such that it is in contact with the insulation components with sufficient bearing to prevent excessive deflection.
6. Expansion joints shall be furnished and installed by the Contractor, in the lagging, as required. These expansion joints shall be suitably designed for the thermal movement of the precipitator or breeching on which the lagging is attached, both horizontally and vertically. The lagging expansion joints shall be held securely in place by side lap construction fasteners located on maximum eight inch centers. Outer lagging expansion joint screws shall have composite washer.
7. All horizontal and vertical joints of aluminum shall be overlapped in an approved weatherproof manner. Corrugations/ribbing must nest neatly and properly in all overlaps. All ribs and valleys of the lagging shall be lined up vertically with other sheets above and below at flashing and expansion joints. End laps shall be secured with #14 305 stainless steel "Tek" screws after every other corrugation/rib. End laps shall be 2" minimum. Side laps shall be secured with #14 305 stainless steel "Tek" screws. All exposed screws shall have metal backed neoprene washers. Spacing of fasteners shall be in a set horizontal pattern, forming straight lines and shall be secured to prevent rattling due to vibration and wind. Lagging shall be field drilled to fit on the end of the construction fasteners and positively retained by a washer and clip cap.
8. All portions of the installation exposed to the elements shall be of weather-tight construction. All joints and all penetrations of the lagging by the access doors, pipes, platform supports, etc., shall be flashed or caulked with suitable materials to accomplish this result. The insulation and lagging shall not interfere with the free opening of access doors or removable panels.
9. All penetrations of the lagging at access doors, or in the vicinity of access facilities shall be neatly finished to protect personnel.
10. Stiffeners and columns may be utilized for attachment of insulation and lagging. Screws may penetrate such items. Insulation over stiffeners and columns shall be full specified thickness.
11. If additional stiffeners or subgirts other than those already in place are required to attach the insulation and lagging, they shall be furnished and installed by the Contractor. Insulation shall be installed over the supports and fastened to the supports with the specified weld studs and pins. Spacing of studs and pins shall be in a set pattern both vertically and horizontally on centers not to exceed 1'-0" wide x 2'-0" high. Lagging shall be attached with shoulder type weld studs welded to stiffeners, subgirts, columns, etc. not to exceed spacing of 1'-0" wide x 6'-0" high. Insulation shall have a flat appearance free from any boxed out type of construction.
12. Thermal barriers (flue stops) shall be installed on vertical runs at a maximum spacing of every ten feet and at the top of the vertical run. The barriers shall consist of the same type of insulation as used for the overall application, suitably supported by minimum 16 gauge steel plates welded between the stiffeners. The depth of the thermal barriers shall be the distance from the precipitator or breeching shell to the insulation used for the overall application. The height of the thermal barriers shall be a minimum of four inches.
13. Screws shall be #14 TEK's, 3/4" long 305 stainless steel with hexagon head and with conical neoprene washers attached. All stainless steel fasteners shall be annealed. Weatherproofing mastic for flashing shall be a high temperature petroleum asphalt with fillers capable of withstanding temperatures up to 700 degrees Fahrenheit.
14. All flashing shall be weather tight and seal all corners and edges of lagging. Laps of flashing shall be secured with #14 305 stainless steel screws with neoprene washer on 8" centers. Flashing shall be lapped a minimum of 3" each direction.

SECTION 400 - TECHNICAL DATA

- A. Engineering data covering all equipment and fabricated materials to be furnished under this contract shall be submitted to the Engineer for review. These data shall include drawings and descriptive information in sufficient detail to show the kind, size arrangement, and operation of the component material and devices: the external connections, anchorages, and supports required;

performance characteristics. Data submitted shall include drawings showing essential details of any changes proposed by Contractor.

- B. No work shall be performed in connection with the fabrication or manufacture of material and equipment, nor shall any accessory or appurtenance be purchased, except at the Contractor's own risk and responsibility, until the drawings and data have been reviewed and approved by the Engineer.
- C. Four (4) copies of each submittal, drawing, and necessary data shall be submitted to the Engineer. Each drawing or data sheet shall be clearly marked with the name of the project, the Contractor's name, and references to applicable Specification paragraphs and drawing sheets. When catalog pages are submitted, the applicable items shall be identified. The Engineer shall return one (1) copy of the submittal to the Contractor with comments.
- D. When the drawings and data are returned marked RETURNED FOR CORRECTIONS, the corrections shall be made as noted thereon and as instructed by the Engineer and not less than four (4) corrected copies resubmitted.
- E. Unless otherwise directed by the Engineer, when drawings and data are returned marked EXCEPTIONS NOTED, the changes shall be made as noted thereon and not less than four (4) corrected copies shall be furnished to the Engineer.
- F. When the drawings and data are returned marked NO EXCEPTIONS NOTED, two (2) copies shall be returned to the Contractor, two copies shall be retained for the Engineer.
- G. The Engineer's review of drawings and data submitted by the Contractor shall cover only general conformity to the Specifications, external connections, and dimensions which affect the layout. The Engineer's review of drawings and data returned marked NO EXCEPTIONS NOTED or EXCEPTIONS NOTED does not indicate a thorough review of all dimensions, quantities, and details of the material, equipment, devices, or items shown and does not relieve the Contractor from any responsibility for errors or deviations from the contract requirements.
- H. All drawings and data, after final processing by the Engineer, shall become a part of the Contract Documents and the Work shown or described thereby shall be performed in conformity therewith unless otherwise authorized by the Owner or the Engineer.

SECTION 500 - PROGRESS SCHEDULES

- A. Procedure:
 - 1. Submit a preliminary progress schedule to the Owner.
 - 2. After Owner's review, revise and resubmit to comply with Owners review.
- B. Show complete sequence of construction, by activity, with dates for beginning and completing each element of construction.
- C. Provide subcontractors activity schedules.
- D. Provide separate schedule of submittal dates for shop drawings, product data, and samples, including Owner-furnished products, and dates that reviewed submittals shall be required from the Owner and Engineer. Indicate delivery data for products.
- E. Schedules shall be in a form that is acceptable to the Owner.
- F. Distribute copies of reviewed schedules to the project file, the subcontractors, the suppliers, and the Engineer.

- G. Instruct recipient to promptly report in writing any problems anticipated by projections indicated in schedules.

SECTION 600 - REFERENCES

- A. The Contractor shall conform to current reference standards as of the date of the Contract Documents unless specifically specified otherwise.
- B. Should specified reference standards conflict with Contract Documents, the Contractor shall request clarification from the Engineer before proceeding.
- C. The contractual relationship of the parties to the Contract shall not be altered from the Contract Documents by mentioning or inference otherwise in any reference document.

SECTION 700 - FIELD INSPECTION, SAMPLING, AND TESTING

- A. The Contractor shall maintain access at all times for quality assurance personnel to perform inspections, sampling, and testing. At no time shall the Contractor deny quality assurance personnel, Engineer, or Owner access to any work area, fabrication area, staging area, or any other area associated with work.
- B. If any work should be covered up without prior approval or consent of the Engineer, it must, if required by the Engineer, be uncovered for examination. After the uncovered work has been observed and authorization given by the Engineer, the work shall be re-covered in accordance with the Specifications. The cost of uncovering and re-covering the work and any consequential costs shall be borne entirely by the Contractor regardless of the condition of the work uncovered. If the uncovered work is found to be deficient, the Contractor shall expose all work, correcting the deficient work, and any consequential costs shall be borne entirely by the Contractor.
- C. All work performed by the Contractor shall meet the approval of the Engineer. The method and manner of doing the work will be under the control of the Contractor.

SECTION 800 - POWER

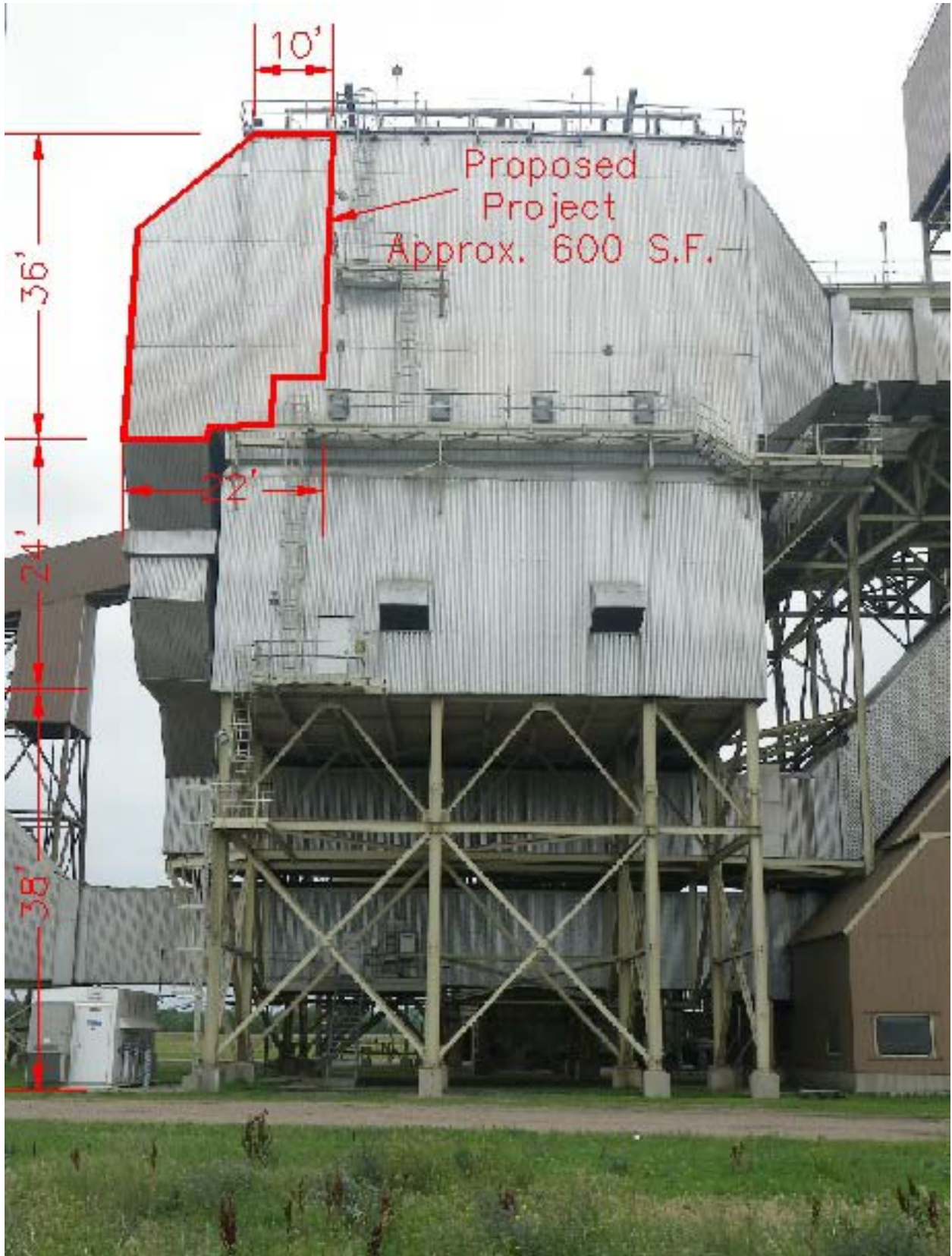
- A. Contractor shall provide his own temporary power needs.

SECTION 900 - TRAFFIC CONTROL

- A. The Owner's operational and site traffic has the right-of-way at all times.
- B. A parking area will be designated by the Owner for the Contractor personnel's private vehicles. The Contractor shall provide busses or vans as necessary to transport personnel from the parking area to the Work area.

PROJECT DRAWINGS

Platte Generating Station Precipitator Insulation Replacement



EAST SIDE OF PRECIPITATOR



EAST SIDE OF PRECIPITATOR



EAST SIDE OF PRECIPITATOR



WEST SIDE OF PRECIPITATOR



WEST SIDE OF PRECIPITATOR



WEST SIDE OF PRECIPITATOR

MINIMUM INSURANCE REQUIREMENTS
CITY OF GRAND ISLAND, NEBRASKA

The successful bidder shall obtain insurance from companies authorized to do business in Nebraska of such types and in such amounts as may be necessary to protect the bidder and the interests of the City against hazards or risks of loss as hereinafter specified. This insurance shall cover all aspects of the Bidder's operations and completed operations. Failure to maintain adequate coverage shall not relieve bidder of any contractual responsibility or obligation. Minimum insurance coverage shall be the amounts stated herein or the amounts required by applicable law, whichever are greater.

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.**