



Iowa Department of Transportation

800 Lincoln Way, Ames, IA 50010

515-239-1310

Fax 515-239-1538

Fax Back Immediately

(This Page Only)

To above fax number, ATTN: Jerry B Giebelstein

Internet Bid Proposal Download Acknowledgement

This form must be faxed back to the Iowa Department of Transportation Purchasing Department so your company can receive any notifications or addendums to this proposal. Sealed bids may not be returned by fax. Sealed bids must be returned using the envelope provided or by attaching the label page provided in this package.

Failure to do so, may be cause to disqualify your bid proposal submission.

Proposal No.: 4178

Proposal Description: GNSS Rover, Data Collector, Software, and Related Equipment

Company Name: _____

Contact: _____

Email Address: _____

Address: _____

City/State/Zip: _____

Phone: _____

Fax: _____

Cell Phone: _____

Federal Tax ID: _____

If you have any questions or concerns, please call 515-239-1347 or Email jerry.giebelstein@dot.iowa.gov

Date Bids Due 11/4/2009		Time of Bid Opening 1:00 PM	Bid Opening Location Iowa DOT Purchasing, Ames, IA	
Proposal Number 4178	Description GNSS Rover, Data Collector, Software, and Related Equipment			
Contract to Begin 1/21/2009	Date of Completion 1/20/2010	Proposal Guaranty Amount \$50,000.00		Liquidated Damages \$0.00
Additional Information Contact Jerry Giebelstein	E-Mail Address jerry.giebelstein@dot.iowa.gov	Phone (515) 239-1347		Fax (515) 239-1538
Company Name			Federal Tax ID	
Street Address		City	State	Zip Code
Individual preparing bid (type or print)	E-Mail Address	Phone	Fax	
Will you sell these items/services to political subdivisions within the State of Iowa under the same prices, terms and conditions as specified? <input type="checkbox"/> YES <input type="checkbox"/> NO			Are you a Iowa Targeted Small Business? <input type="checkbox"/> YES <input type="checkbox"/> NO	

GENERAL INFORMATION

This bid package includes the proposal, schedule of prices, standard terms and conditions, supplemental terms, specifications, mailing label and other information you need to prepare your bid. The pages of the document labeled "Bid response" must be typed or completed in ink, signed, and returned in a flat style envelope prior to the bid opening date and time. Please use the furnished mailing label, or indicate on your return bid by marking "Iowa Department of Transportation, proposal number & letting date" on the outside of the return envelope. The bidder may personally deliver, mail, or select a carrier that ensures timely delivery. Faxed bids will not be accepted.

If required, each bid must be accompanied by a proposal guaranty in an accepted form, in the sum indicated above. Refer to the Standard Terms and Conditions for the accepted forms in which the proposal guaranty requirement may be fulfilled. Bids lacking a required proposal guaranty will not be considered for award. If the contractor fails to enter into a formal contract within fifteen (15) days after award is made, the proposal guaranty may be retained by the State.

PROPOSAL STATEMENT

The entire contents of this Proposal, Addendums to the Proposal, Specifications, Supplemental Terms and Conditions, Standard Terms and Conditions, and Schedule of Prices shall become part of the contract.

We promise to enter into a contract within fifteen (15) days after award or forfeit the proposal guaranty furnished herewith.

We promise to furnish all materials, equipment and/or services specified, in the manner and the time prescribed, at prices hereinafter set out.

We certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a bid; that this bid has been independently arrived at without collusion with any other bidder, competitor, or potential competitor; and that this bid has not been knowingly disclosed prior to the opening of bids to any other bidder or competitor.

We certify that all materials, equipment and/or services proposed meet or exceed the specifications and will be supplied in accordance with the entire contents of this proposal.

We promise to complete the contract within the contract period, or pay any liquidated damages, if stipulated, for each calendar day as set forth in the bid documents.

Signed: _____ Date: _____



Schedule Of Prices

Proposal Number 4178

Letting Date

11/4/2009 1:00 PM

GNSS Rover, Data Collector, Software, and Related Equipment

Group A GNSS Rover, Data Collector, Software, and Related Equipment

Item	Qty	Price	Unit	Shipping Terms
A.1	50	_____	Each	FOB Destination/Freight Prepaid
Global Navigation Satellite System (GNSS) Rover As Per Item A.1 of Spec. No. GNSS10 E30-1009				RECEIVING, AMES 50010
List Make _____ Model _____				

Item	Qty	Price	Unit	Shipping Terms
A.2	76	_____	Each	FOB Destination/Freight Prepaid
Date Collector As Per Item A.2 of Spec. No. GNSS10 E30-1009				RECEIVING, AMES 50010
List Make _____ Model _____				

Item	Qty	Price	Unit	Shipping Terms
A.3	76	_____	Each	FOB Destination/Freight Prepaid
Software As Per Item A.3 of Spec. No. GNSS10 E30-1009				RECEIVING, AMES 50010
List Make _____ Model _____				

Item	Qty	Price	Unit	Shipping Terms
A.4	10	_____	Each	FOB Destination/Freight Prepaid
Communications- Rover/Base Radio As Per Item A.4 of Spec. No. GNSS10 E30-1009				RECEIVING, AMES 50010
List Make _____ Model _____				

Item	Qty	Price	Unit	Shipping Terms
A.5	10	_____	Each	None
Communications- Cellular Modem (Optional Adder) As Per Item A.5 of Spec. No. GNSS10 E30-1009				
List Make _____ Model _____				



Schedule Of Prices

Proposal Number 4178

Letting Date

11/4/2009 1:00 PM

GNSS Rover, Data Collector, Software, and Related Equipment

Item	Qty	Price	Unit	Shipping Terms
A.6	1	_____	Each	None

Training

As Per Item A.6 of Spec. No. GNSS10|E30-1009

I HEREBY CERTIFY THAT THIS PROPOSAL MEETS OR EXCEEDS THE MINIMUM REQUIREMENT INCLUDING SPECIFICATIONS AND ADDENDUMS.

(Please Print)

COMPANY NAME: _____ PHONE: _____ FAX: _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

CONTACT PERSON: _____ E-MAIL: _____

SIGNATURE: _____ FED TAX ID: _____

AVAILABILITY AFTER RECEIPT OF P.O. (IN DAYS): _____

I ACKNOWLEDGE RECEIPT OF ADDENDUM NUMBERS: _____

Iowa Department of Transportation

PURCHASING PROPOSAL

Standard Terms and Conditions

Contents of Contract: The entire contents of this proposal shall become a part of the contract or purchase order. In case of a discrepancy between the contents of the contract documents, the following items listed by descending order shall prevail:

- Addendums
- Purchasing Proposal/Schedule of Prices
- Specifications, Plans and Drawings
- Supplemental Terms and Conditions
- Standard Terms and Conditions

For example, if there is a statement in the specifications that contradicts a statement in the Standard Terms and Conditions, the statement in the specifications shall apply.

Preparation of Proposal: All proposals must be completed in every respect and must clearly answer all questions contained in the proposal. Bids must be typed or completed in ink on the forms supplied by the department. **You must sign your bid and seal it in the envelope.** Bids must be received prior to the bid opening date and time. The bidder may personally deliver, mail, or select a carrier that ensures timely delivery

Proposal Guaranty: If required, a proposal guaranty, in the sum listed on the proposal form, can be supplied in one of the following ways: (1) A certified check or credit union certified share draft, cashier's check, or bank draft, drawn on a solvent bank or credit union, may be certified furnished with your bid. Certified checks and certified share drafts shall be drawn and endorsed in the amount indicated. Checks or drafts shall be made payable either to the Iowa Department of Transportation (Iowa DOT) or to the bidder. If payable to the bidder, the check or draft shall be endorsed, without qualifications, to the Iowa DOT by the bidder or his authorized agent. (2) An insurance or surety company may be retained to provide a bond in fulfillment of the proposal guaranty requirement. A properly completed and signed copy of the Proposal Guaranty (Form 131071) must accompany the bid. The Iowa DOT's Proposal Guaranty form must be used, no other forms or formats will be accepted.

Bid Opening: Bid Openings are public and conducted at the Ames complex unless otherwise specified. Proposals received after the time of the bid opening will be returned unopened.

Communications: Questions concerning this proposal should be directed to the Purchasing Agent listed on the Purchasing Proposal. Inquiries can be written, phoned, or faxed. In all cases, written communication will take precedence over verbal communication.

Faxed bids will not be accepted.

Acceptance/Rejection: The State of Iowa reserves the right to accept or reject any or all bids and to waive irregularities or technicalities, provided such waiver does not substantially change the offer or provide a competitive advantage to any vendor, in the judgement of the Iowa DOT. The Iowa DOT also reserves the right to accept that bid which is deemed to be in the best interests of the state. Any unauthorized changes, additions, or conditional bids including any ties to another bid or proposal or any reservations about accepting an award or entering into a contract, may result in rejection of the bid. Bids must remain available for award for thirty (30) days from date of bid opening.

Method of Award: Award shall be made to the lowest responsible, responsive bidder unless otherwise specified. By virtue of statutory authority preference will be given to products and provisions grown and coal produced within the State of Iowa.

Award Protests: Protests of award recommendations are to be addressed to the Director of Purchasing, and shall be made in accordance with paragraph 761--20.4(6)"e", Iowa Administrative Code.

Bid Results & Disclosure: A bid tabulation will be sent to all responsive bidders with an award recommendation indicated. At the conclusion of the selection process, the contents of all proposals will be placed in the public domain and be open to inspection by interested parties, according to state law. Trade secrets or proprietary information that are recognized as such and are protected by law may be withheld if clearly identified as such in the proposal.

Contracts: Successful contractor(s) may be sent either a formal Contract or a Notification of Award as confirmation of acceptance and award. Contracts shall be for the term stated on the Proposal and may be extended for additional period(s) under the same terms and conditions upon mutual agreement. The contractor may not assign the contract to another party without written authorization from the Office of Procurement and Distribution.

Pricing and Discount: Unit prices shown on the bid/proposal shall be quoted as the price per unit (e.g., gal., case, each, etc.) as stated on the request. If there is a discrepancy between the unit bid prices, extension, or total amount of bid, the unit prices shall prevail. Unless otherwise indicated, prices shall be firm for the duration of the contract or purchase. Discounts for early payment are allowed, but not considered in award of the contract.

Taxes: Prices quoted shall not include state or federal taxes from which the state is exempt. Exemption certificates will be furnished upon request.

Payment Terms: The Iowa DOT will normally pay properly submitted vendor invoices within fifteen (15) days of receipt, providing goods and/or services have been delivered, installed or inspected (if required), and accepted. Invoices presented for payment must be only for quantities received by the Iowa DOT, must reference the purchase order number, and be submitted for processing.

Quality: All material shall be new and of first quality. Items which are used, demonstrators, refurbished, obsolete, seconds, or which have been discontinued are unacceptable without prior written approval by the Iowa DOT.

Year 2000 Compliant: The supplier warrants that each hardware, software, and firmware product delivered under this contract shall be able to accurately process data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, including leap year calculations, when used in accordance with the product documentation provided by the supplier.

Recycled Content: The Iowa Code encourages purchase of products and materials with recycled content, including but not limited to paper products, oils, plastic products, compost materials, aggregate, solvents, and rubber products. When bidding recycled items or alternatives, note on your bid the recycled content, if known.

Infringement: Goods shall be delivered free of the rightful claim of any third party by way of infringement. Contractor shall indemnify and save harmless the State of Iowa and the Iowa DOT against all claims for infringement of, and/or royalties claimed under, patents or copyrights on materials and equipment furnished under this bid.

Default: Failure of the contractor to adhere to specified delivery schedules or to promptly replace rejected materials shall render the contractor liable for all costs in excess of the contract price when alternate procurement is necessary. This shall not be the exclusive remedy and the Iowa DOT reserves the right to pursue other remedies available to it by law or under the terms of this contract.

Ames Deliveries: Materials delivered to the Distribution Center's Receiving Section, 800 Lincoln Way, Ames, IA shall be delivered between the hours of 7:30 a.m. and 3:30 p.m. on any day except Saturday, Sunday, or a holiday. For deliveries to locations other than the Distribution Center, the contractor may wish to contact the destination location for available times to deliver, as some Iowa DOT offices and locations work a non-standard work week.

Delivery: Deliveries shall be F.O.B. destination unless otherwise specified. All deliveries shall be accompanied by a packing slip indicated the vendor, quantities shipped, and the purchase order number(s). All delivery charges shall be included in the bid price and paid by the contractor. No collect or C.O.D. deliveries will be accepted. When entering into a contract, the contractor shall notify the freight company that all freight and delivery charges are to be prepaid by the contractor. The Iowa DOT will not be liable for any freight claims or unpaid freight bills arising from this contract.

Applicable Law: The contract shall be governed under the laws of the State of Iowa. The contractor shall at all times comply with and observe all federal and state laws, local laws, ordinances, and regulations which are in effect during the period of this contract and which in any manner affect the work or its conduct. Any legal action relating to the contract shall only be commenced in the Story County, Iowa, District Court or the United States District Court for the Southern District of Iowa.

Administrative Rules: For Additional details on the rules governing the actions of the Office of Procurement and Distribution refer to 761 IAC, Chapter 20, Iowa Administrative Code, entitled "Procurement of Equipment, Materials, Supplies and Services".

Equal Opportunity: Firms submitting bids must be an "Equal Opportunity Employer" as defined in the Civil Rights Act of 1964 and in Iowa Executive Order Number Thirty-four.

Affirmative Action: The contractor (and also subcontractor, vendor, or supplier) is prohibited from engaging in discriminatory employment practices forbidden by federal and state law, executive orders and rules of the Iowa Department of Management, pertaining to equal employment opportunity and affirmative action. Contractor may be required to have on file a copy of their affirmative action program, containing goal and time specifications. Contractors doing business with Iowa in excess of \$5,000 annually and employing 50 or more full time employees may be required to file with the Iowa Department of Management a copy of their affirmative action plan. Failure to fulfill these non-discrimination requirements may cause the contract to be canceled and the contractor declared ineligible for future state contracts or subject to other sanctions as provided by law or rule.

Targeted Small Businesses: The Iowa DOT seeks to provide opportunities for women and/or minority small business enterprises. To apply for certification as an Iowa Targeted Small Business, contact the Iowa Department of Inspection and Appeals (515-281-7357). Contractors shall take documented steps to encourage participation from Targeted Small Businesses for the purpose of subcontracting and supplying of materials.

Interest in Contract: No state or county official or employee, elective or appointive shall be directly or indirectly interested in any contract issued by the Iowa DOT, See Code of Iowa 314.2.

Records Audit: The contractor agrees that the Auditor of the State of Iowa or any authorized representative of the state, and where federal funds are involved, the Comptroller General of the U.S. Government, shall have access to and the right to examine, audit, excerpt, and transcribe any directly pertinent books, documents, papers, and records of the contractor relating to orders, invoices, or payments of this contract.

**Iowa Department of Transportation
Supplemental Terms & Conditions
For
GNSS Rover, Data Collector, Software, and Related Equipment
Proposal No.: 4178
Letting Date: November 4, 2009**

Exceptions or Equals

Any request for changes or exceptions to the instructions, specifications, or terms of this proposal must be submitted on the enclosed for "Bidder's Request for Exception or Equal." The form must specifically state the requested change or deviation and be accompanied by adequate supporting information to evaluate the request.

The completed "Bidder's Request for Exceptions or Equal" form must be received in sufficient time *prior* to the bid opening to evaluate and respond with appropriate action. It is suggested that any requests for exception or equal be submitted by mail or fax immediately upon receipt of the proposal in order to receive full consideration. Fair treatment to all vendors shall be the primary concern in evaluation of exceptions or deviations, particularly those submitted just prior to the bid opening. **Do not submit the "Bidder's Request for Exception or Equal" form with your bid.**

Product Literature

Two (2) complete sets of catalogs, specification sheets, or other literature giving detailed information about the item bid shall be included with the proposal. In addition, one (1) electronic copy (.pdf preferred) of supporting literature shall be included with the bid. The items shall be identified in the literature by make/model or number. Modifications or deviations from the printed literature or accessory items not covered shall be described by a written statement, unless included in the information supplied on the Detailed Information Sheet if included with this proposal.

Additional Information

If any additional information is required to properly evaluate the bid, the bidder shall furnish the requested information within three (3) working days after notification from the Office of Procurement and Distribution.

Contract Period

The successful bidder will be awarded a one (1) year contract with an option to renew for three (3) years in twelve (12) month increments. A price increase may be allowed on each extension but must not exceed the CPI increase. The increase must be pre-approved by the Iowa Department of Transportation, Office of Procurement and Distribution, Purchasing Section.

Performance Bond

Performance bond not required on contracts for less than \$25,000. However, if the Contract is \$25,000 or more, the bidder shall furnish bonds covering the faithful performance of 100% of the Contract and the payment of all obligations arising thereunder. One copy of the bond shall be submitted on Iowa Department of Transportation Form 131070. All items must be properly filled in including Contractor's signature. Resident commission agent or attorney-in-fact must file a copy of his power of attorney.

Contractor's Insurance Requirements

It shall be the Contractor's responsibility to have liability insurance covering all of the project operations incident to contract completion and the Contractor(s) must have on file with the Contracting Authority a current "Certificate of Insurance" prior to award of contract. The certificate shall identify the insurance company firm name an address, contractor firm name, policy period, type of policy, limits of coverage, and scope of work covered (single contract or statewide). This requirement shall apply with equal force, whether the work is performed by persons employed directly by the Contractor(s) including a subcontractor, persons employed by a subcontractor(s), or by an independent contractor(s).

In addition to the above, the Contracting Authority shall be included as an insured party, or a separate owner's protective policy shall be filed showing the Contracting Authority as an insured party.

The liability insurance shall be written by an insurance company (or companies) qualified to do business in Iowa. For independent contractors engaged solely in the transportation of materials, the minimum coverage provided by such insurance shall be not less than the required by Chapter 327, Code of Iowa, for such truck operators or contract carriers as defined therein. For all other contractors, subcontractors, independent contractors, and the Contracting Authority, the minimum coverage by such insurance shall be as follows:

- Comprehensive General Liability including Contractual Liability;
- Contingent Liability; Explosion, Collapse and Underground Drainage
- Damage; Occurrence Basis Bodily Injury; Broad Form Personal Injury; Broad Form Property Damage.

A. Bodily Injury

The contractor will purchase and maintain throughout the term of this contract the follow minimum limits and coverage:

- Each person \$1,000,000
- Each accident/occurrence \$1,000,000
- Workers Compensation \$1,000,000
- Statutory Limits \$1,000,000
- Employer's liability \$1,000,000
- Pollution Liability \$1,000,000
- Occupation Disease \$1,000,000

B. Operations

- Property Damage \$1,000.000

Failure on the part of the Contractor(s) to comply with the requirements of this Article will be considered sufficient cause to suspend the work, withhold estimates, and to deny the Contractor(s) any further contract awards, as provided in Article 1103.01.

The Contractor(s) shall require all subcontractor(s) meet the above insurance requirements.

The Certificate of Insurance must include the following;

- Iowa Department of Transportation must be listed as an additional insured
- Proposal Number
- Proposal Description
- Letting Date and
- Contract Period

Contract Award

One contract will be awarded for all items. All items are tied.

Contract quantities

The Iowa DOT will make a one-time purchase of the entire quantity listed on this proposal.

Purchase Orders

One purchase order for items will be issued at the beginning of the contract period. Additional purchase orders may be issued as needed throughout the contract period.

Delivery Location

Material shall be delivered to the Iowa Department of Transportation, Distribution Center, Receiving Department, 800 Lincoln Way, Ames, Iowa 50010.

Delivery Requirements

Delivery, installation, and training must be completed within 90 days of receipt of Purchase Order. Please advise Mr. Jerry Giebelstein of the Iowa DOT, 515-239-1347, two (2) working days prior to delivery of equipment.

Price Adjustment

Prices shall be held firm for the contract period.

Warranty/Service

The Vendor shall provide a comprehensive two year parts and labor warranty for all equipment provided in the Project. During the warranty period, the Vendor shall repair or replace any defective equipment which is not the result of negligence or misuse.

The Vendor shall provide two years of software and firmware support for all software and firmware provided by the Project. Software and firmware support shall include all patches and upgrades, including for the operating system.

The Vendor shall provide a loaner piece of equipment if DOT equipment provided under this contract will not be repaired within 5 business days of receipt by the Vendor.

The Vendor shall provide a toll-free telephone number for service and warranty notification during regular business hours (7:30 A.M. to 4:30 P.M. Central Time), Monday thru Friday, excluding Iowa DOT defined holidays, for the duration of the Warranty/Service period. Outside of regular business hours, the Vendor shall provide a means of notification by the Iowa DOT for service and warranty notifications.

Political Subdivisions

The successful bidder for this proposal may provide units ordered by other political subdivisions with the State of Iowa with delivery times and additional transportation and training costs as applicable. Each political subdivision ordering units on this proposal will issue their respective purchase orders. Invoicing will be as requested by ordering subdivision

Sealed Bids

Sealed bids will be received until **1:00 P.M. CST, November 4, 2009**, by the Iowa Department of Transportation (Iowa DOT), at its office in Ames, Iowa, for this contract. Our normal Business hours for receiving bids prior to the day of the letting are 7:30 A.M. to 4:30 P.M.

Evaluation Of Proposals

This Section describes the evaluation process that will be used to determine which proposal provides the greatest benefits to the Iowa DOT. The evaluation process is designed to award the contract not necessarily to the Vendor of least cost, but rather to the Vendor with the best combination of attributes to perform the required services.

Evaluation

Proposals will be scored in accordance with the Evaluation Criteria provided herein and will determine the shortlist for the Demonstration/Final Presentation stage. A lower rating may result from incomplete or unclear responses to specific criterion. The Vendors final score will be based upon a consensus of the Evaluation Committee members rating of a Vendor's proposed solution.

Evaluation Committee

The Iowa DOT intends to conduct a comprehensive, fair, and impartial evaluation of proposals received in response to this RFP. The Iowa DOT will use an Evaluation Committee to review and evaluate the proposals. The Evaluation Committee will provide recommendations for Vendor selection to Iowa DOT Management.

The Evaluation Committee shall consist of the Selection Committee members and other members with one or more of the following backgrounds:

- Special expertise in procurement of the product(s) and/or service(s) that are the subject of this RFP;
- Knowledge of the Iowa DOT's requirements for these product(s) and/or service(s);
- Technical expertise in communications, data processing or other specific areas of technical expertise.

Potential Bidders, subcontractors, suppliers, etc. shall not contact nor attempt to contact members of the Evaluation Committee or others employed by or contracted by the Iowa DOT regarding this project or related projects except at the Iowa DOT's request or with the written authorization of the Iowa DOT. Failure to comply with this requirement may result in disqualification of the proposal and/or the potential Bidder(s), subcontractor(s), supplier(s), etc.

Evaluation Criteria

The proposal evaluation criteria that will guide the Vendor Selection Committee towards identifying the short-list for presentations and ultimately in selection of the successful Vendor is outlined as follows:

- Technical Services
- Hardware Solution
- Software Solution
- Budget & Timetable

Demonstration/Final PresentationDemonstration

The proposals receiving the highest scores will be short-listed and requested to make an oral presentation of their team's approach, background, and qualifications. In addition, a hardware and software demonstration of the proposed project software solution will be conducted as part of the final evaluation process in the Ames area. Further details on the oral presentation and demonstration requirements will be provided at the time of announcement of Short-List Bidders.

Short-listed firms shall anticipate providing three (3) GNSS Rovers and three (3) Data Collectors for the Demonstration portion of the Evaluation process. These Rovers and Data Collectors shall be provided to the Iowa DOT for one (1) week subsequent to the Demonstration. The purpose of providing Rovers and Data Collectors is to enable the Iowa DOT to field test the Vendor's proposed hardware and software solution. Short-listed firms shall not be present for Field Testing of equipment. Rovers and Data Collectors will be returned to the short-listed firm at the Final Presentation.

Final Presentation

Approximately one (1) week after the demonstration and presentation to the Iowa DOT Evaluation Committee, the short-listed firm shall give a Final Presentation. The purpose to the Final Presentation is for the short-listed Vendor to provide information to the Evaluation Committee relative to the firm's proposed solution. The Final Presentation will also permit the Evaluation Committee to question the firm regarding their proposed solution as well as questions regarding field testing of equipment by the Iowa DOT. The Vendor shall provide ten (10) hard copies of all relevant materials presented at the Final Presentation.

Schedule

The anticipated schedule for short-listed firms is:

Demonstration and presentation

- Monday, December 7- Short-list firm # 3 Demonstration
- Tuesday, December 8- Short-list firm #2 Demonstration
- Wednesday, December 9- Short-list firm #1 Demonstration

Final Presentation

- Wednesday, December 16, Short-list firm #3 Final Presentation
- Thursday, December 17, Short-list firm #2 Final Presentation
- Friday, December 18, Short-list firm #1 Final Presentation

The short-listed firms shall be provided with no less than ten (10) days notice. Vendor presenters from designated firms must include key members of the proposed team at the oral presentation. List of members attending shall be provided prior to presentation. The final evaluation will be based on similar criteria as used above but based on the presentation and demonstration proceedings. Each of the short-listed bidder(s) will be evaluated independent of the previous proposal evaluations.

Additional details on Demonstration and Final Presentation

Additional details on Demonstration and Final Presentation will be given at the time of announcement of Short-Listed Vendors.

List of Appendices:

- 1- Data flowchart
- 2- Copy of IDOT Statewide radio license

**Iowa Department of Transportation
Specification
For
GNSS Rover, Data Collector, Software, and Related Equipment
Proposal No.: 4178
Letting Date: November 4, 2009**

GNSS Rover Project Background

Prior to the GNSS Rover Project (hereafter "Project"), the Iowa DOT purchased 26 TopCon model GPT 9003A Robotic Total Stations (hereafter "RTS"). The Data Collectors purchased with the RTS (Allegro CX) are to be replaced as part of this Project. The Iowa DOT intends to continue utilizing the existing RTS. However, control and configuration of existing RTS shall be accomplished by the Data Collectors and Software procured by this Project.

Also, prior to this Project, the Iowa DOT installed the Iowa Real Time Network (IaRTN), a Statewide RTK-GNSS network. The IaRTN distributes correction messages via the public internet in RTCM 2.3 and 3.1 standards. The equipment procured as part of this Project shall be capable of utilizing the RTCM 2.3 and 3.1 corrections provided by the IaRTN.

The intent of the Project is to procure equipment and software which provides the Iowa DOT with an integrated surveying system. The Iowa DOT intends to procure GNSS Rovers, Data Collectors, and Software which enable the end user(s) to collect and edit relevant data, transfer field data for design work. The system shall also allow design work to be transferred to the surveyor for use (and editing) in the field (see Appendix 1 for additional details on DOT workflow). The Data Collectors and Software shall function seamlessly with the Iowa DOT's existing RTS. An Iowa DOT user shall have the capability to configure and control the equipment procured by the Project as well as existing RTS equipment with the Data Collector(s) and Software procured.

All equipment shall be new, state of the art, current production (i.e., supported by manufacturer) equipment. All equipment shall include rugged carrying cases appropriate for use in a surveying environment.

All field equipment intended for outdoor use shall meet or exceed the following environmental requirements:

- -4° F to +122° F (-20°C to +50°C) minimum operating temperatures;
- -40° F to +158° F (-40°C to +70°C) minimum storage temperatures;
- 100% condensing humidity;
- Shock/Drop minimum of two (2) meters;
- Meet or exceed industry watertight and dustproof enclosure standards.

Item A.1: Global Navigation Satellite System (GNSS) Rover

For purposes of this RFP, GNSS Rover shall refer to the GNSS receiver, antennae (either external to or integrated with receiver), any software or firmware necessary to provide connectivity to the data collector, battery(s), and any cabling or other ancillary items contained herein.

The Rover hardware and/or firmware necessary to enable connection to and utilization of the IaRTN is included, however the communications equipment required to connect to the IaRTN (i.e. modem) is not contained in this Item but is contained in a separate bid Item (see Communications- Cellular Modem for additional details).

GNSS Rover Functional Requirements

The GNSS Rover shall receive and process a minimum of 66 channels.

The GNSS Rover shall include a light-weight, heavy duty, two and a half (2.5) meter adjustable (e.g., telescoping) height pole including a detachable bipod and a detachable topo boot.

The GNSS Rover shall receive and process the following satellite messages, at a minimum:

- GPS L1
- GPS L2
- GPS L2C
- GLONASS (L1 & L2)

The GNSS Rover shall be capable of communicating with the Data Collector via Bluetooth and wired connection.

The GNSS shall be capable to operate in a base/rover configuration and communicate with the radio(s) referenced in Item A.4.

The quickest initialization time is preferred. GNSS Rovers shall meet the following minimum requirements:

- Less than 60 seconds cold start initialization;
- Less than 30 seconds warm start initialization;
- Less than 10 seconds re-acquisition of satellites after loss of signal due to interruption of satellite visibility.

The GNSS Rover antenna shall include an integrated mechanism to mitigate multi-path.

The GNSS Rover shall include sufficient battery(s) to permit a minimum of 8 hours of continuous operation. The Vendor shall provide two (2) additional 8-hour battery(s) sets per Rover. The GNSS Rover shall be provided with any necessary ancillary equipment, including 110 volt wall charger(s), to recharge all battery(s) provided simultaneously.

The GNSS Rover shall include a minimum of two physical ports (serial and/or USB connection) and any necessary cabling to enable serial to USB connections.

The GNSS Rover shall include any cabling necessary to enable Rover to Data Collector and Rover to computer (USB) communications.

The GNSS Rover shall include a minimum internal memory of 128 MB.

The GNSS rover shall meet the following minimum accuracy requirements:

- RTK (single base line)-
 - 1.0 cm + 1.0 ppm (Horizontal)
 - 2.0 cm + 1.0 ppm (Vertical)
- RTK (laRTN)
 - 1.0 cm (Horizontal)
 - 2.0 cm (Vertical)

Item A.2: Data Collector

The Data Collector hardware and/or firmware necessary to enable connection to and utilization of the laRTN is included, however the communications equipment required to connect to the laRTN (i.e. modem) is not contained in this Item but is contained in a separate bid Item (see Communications- Cellular Modem for additional details).

Date Collector Functional Requirements

The Data Collector provided shall support, control, and configure the GNSS Rover provided as part of this Project and existing Iowa DOT RTS (TopCon model GPT 9003A).

The Data Collector shall run either Windows CE or Windows Mobile 5.0 (minimum) operating system.

The Data Collector shall include a minimum of 128 MB RAM and a minimum of 1 GB hard drive and/or removable storage. The Data Collector shall store data in a manner which retains data after power loss.

The Data Collector shall have a minimum of 520 GHz processing speed.

The Data Collector shall include a minimum of one (1) serial port and one (1) USB port.

It is preferable that the Data Collector be rechargeable without removing the battery provided. It shall also include one (1) port for external power input.

The Data Collector shall communicate with the GNSS Rover and existing Iowa DOT RTS via wireless (Bluetooth and radio) and wired connection.

The Data Collector shall include a data collector assembly bracket for attaching to the Rover pole.

The Data Collector shall be capable of running at least one (1) third party software product.

It is preferable that the Data Collector include WiFi capabilities.

It is preferable that the Data Collector include removable (i.e., data card) memory.

It is preferable that the Data Collector include a built-in camera.

Item A.3: Software

Software Functional Requirements

The Software shall import/export to GeoPak and Microstation with the least amount of data manipulation. A coordinate export format compatible with Geopak Survey is required.

The GNSS software shall accept and process corrections in RTCM 2.3 and 3.1 formats. Connection to the laRTN shall be accomplished in the most user friendly way possible.

An additional preferred format will provide raw observation vector data from total station and RTK vectors that can be exported to a Geopak Survey .OBS format where the survey observables and descriptive information can be edited and adjusted using the Geopak least squares adjustment routine.

The Software work flow shall be easily understood by users and be user friendly.

The Data Collector Software shall support both the GNSS Rover provided by this contract and existing Iowa DOT RTS.

At a minimum, the Data Collector Software shall support:

- On-board COGO;
- Construction stake-out and roading (e.g., manually creating alignments, profiles, cross section templates);
- On-board editing of point descriptors;
- Key-in of project transformation(s);
- Geopak alignments, profiles, and cross section template export format;
- Stations offset information available with cut or fill elevations from a TIN file.
- The Software and memory of the Data Collector shall be able to run full project TIN files (minimum of 200 MB)

The Data Collector software shall store and export vector data for post processing.

Item A.4: Communications- Rover/Base Radio

The Vendor shall provide UHF radio(s) (external and/or integrated) to enable a pair of rovers to operate in a base/rover configuration. The radio(s) provided shall utilize the frequencies and power constraints authorized by the Iowa DOT's statewide license (see Appendix 2 for additional details). Maximum broadcast radius for radios is desired. The radio(s) supplied shall include sufficient power supplies (i.e., battery(s)) to enable 8 hours of continuous operation. Any ancillary items (e.g., cables, charging system, and tripod) required to provide a working rover/base system on a day to day basis shall be included.

Item A.5: Communications- Cellular Modem (Optional Adder)

For specified units, the Vendor shall provide GNSS Rover(s) with an integrated cellular modem. The cellular modem shall run on the same battery as the GNSS Rover. The GNSS Rover(s) with integrated modems shall meet all other requirements of the RFP, including continuous operation requirements.

Bid price shall be the additional cost, per Rover, for an integrated modem.

Item A.6: Training

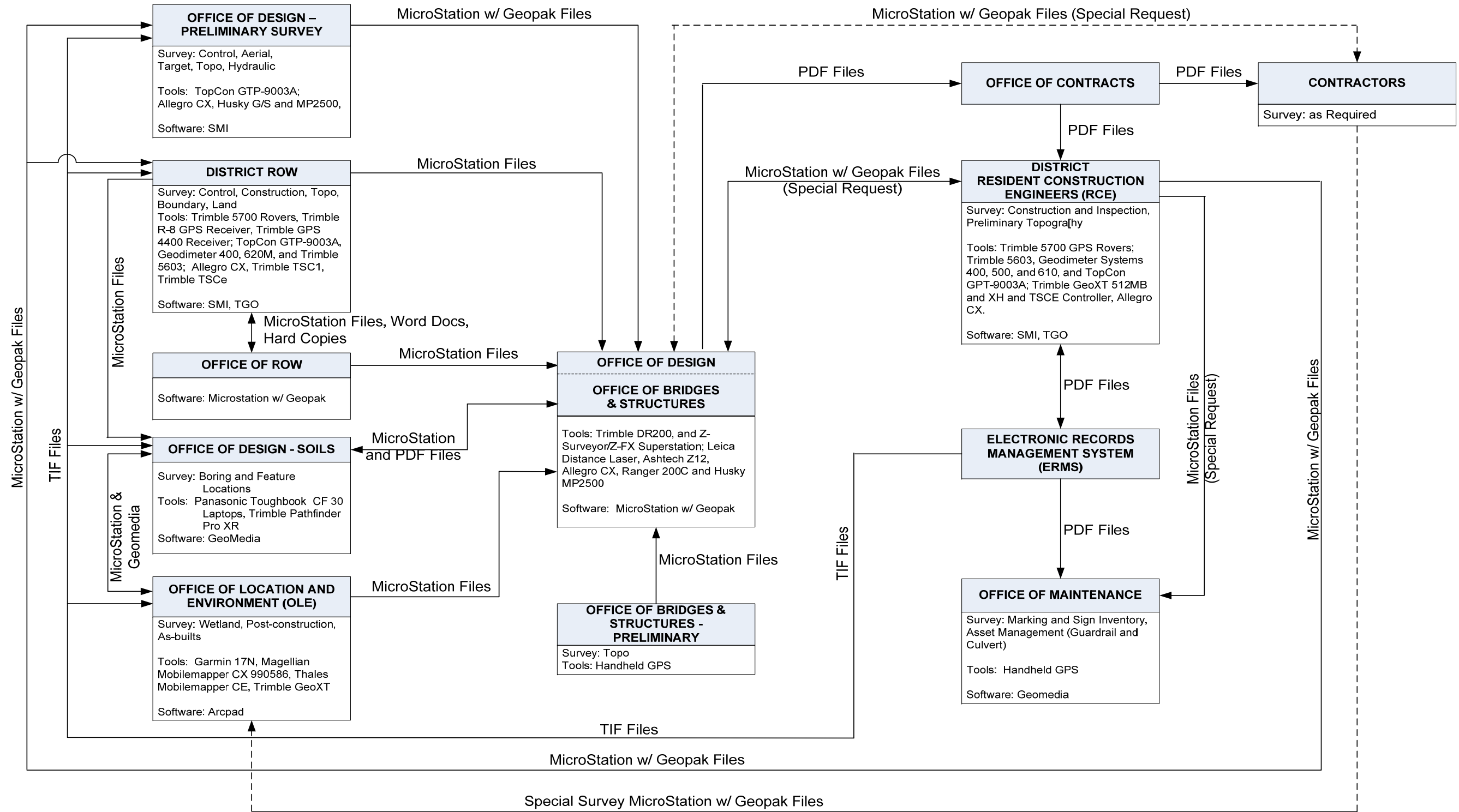
One week subsequent to delivery and acceptance of GNSS Rovers, Data Collectors, and Software the Vendor shall provide comprehensive end-user training as follows:

- One (1) two-day introductory training course on equipment and software functionality and usage. This training session shall include hand outs, training materials, and any required equipment to provide primary end users the necessary skills and knowledge to begin usage of the equipment provided. Training shall include classroom and field sessions, and be held in Ames one (1) week after the delivery of the equipment.
- Seven (7) one-day follow up training sessions to start approximately two (2) weeks after the introductory training, and completed within two (2) weeks. These one day sessions shall be located throughout the state of Iowa in each of the Iowa DOT Districts (6) plus one additional session at the Iowa DOT campus in Ames. The purpose of the follow up training is to allow one-on-one training opportunities and to allow for questions and answers arising from the hands-on use of equipment and software by users following the introductory training.

Appendix 1

Iowa DOT Data

Flowchart



Appendix 2

Iowa DOT Radio License Information

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: IOWA, STATE OF

ATTN: IOWA DEPARTMENT OF TRANSPORTATION
IOWA, STATE OF
800 LINCOLN WAY
PO BOX COMMUNICATIONS
AMES, IA 50010

Call Sign WPQF335	File Number 0002099302
Radio Service IG - Industrial/Business Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0002567733

Grant Date 03-25-2005	Effective Date 03-25-2005	Expiration Date 06-21-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Area of operation**
Statewide: IA
- Loc. 2 Area of operation**
Statewide: IA

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000451.1750000	FBT	10		19K6F1D	35.000				
1	1	000451.2250000	FBT	10		19K6F1D	35.000				
1	1	000451.2750000	FBT	10		19K6F1D	35.000				
1	1	000451.3250000	FBT	10		19K6F1D	35.000				
1	1	000451.3500000	FBT	10		19K6F1D	35.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: IOWA, STATE OF

Call Sign: WPQF335

File Number: 0002099302

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000451.37500000	FBT	10		19K6F1D	35.000				
1	1	000451.40000000	FBT	10		19K6F1D	35.000				
1	1	000451.42500000	FBT	10		19K6F1D	35.000				
1	1	000451.45000000	FBT	10		19K6F1D	35.000				
1	1	000451.47500000	FBT	10		19K6F1D	35.000				
1	1	000451.50000000	FBT	10		19K6F1D	35.000				
1	1	000451.52500000	FBT	10		19K6F1D	35.000				
2	1	000451.80000000	FBI	10		19K6F1D	35.000				

Control Points

Control Pt. No. 2

Address: 800 LINCOLNWAY

City: AMES County: STORY State: IA Telephone Number: (515)233-7706

Associated Call Signs

Waivers/Conditions:

Antenna structures for land, base and fixed stations authorized for operation at temporary unspecified locations may be erected without specific prior approval of the Commission where such antenna structures do not exceed a height of 60.96 meters (200 feet) above ground level; provided that the overall height of such antennas more than 6.10 meters (20 feet) above ground, including their supporting structures (whether natural formation or man-made), do not exceed any of the slope ratios set forth in Section 17.7(b). Any antenna to be erected in excess of the foregoing limitations requires prior Commission approval. Licensees seeking such approval should file application for modification of license. In addition, notification to the Federal Aviation Administration is required whenever the antenna will exceed 60.96 meters (200 feet) above the ground and whenever notification is otherwise required by Section 17.7 of the Commission's Rules. Such notification should be given by filing FAA Form 7460-1, Notice of Proposed Construction or Alteration, in duplicate, with the nearest office of the Federal Aviation Administration, which form is available from that office.

(Vendor may copy as needed)

**Due on or Before
Seven Days Before
The Letting Date**

**If Required
Mail At Once**

Letting Date: November 4, 2009

**If Required
Mail At Once**

**Iowa Department of Transportation
Bidders Request for Exceptions or Equal
Proposal No.: 4178**

Item: GNSS Rover, Data Collector, Software, and Related Equipment Spec. No. _____

Bid Proposal

Requests: _____

Bidder Proposes to furnish in lieu of above: _____

Mail/Fax to:

Iowa Department of Transportation
Attention: Jerry Giebelstein
Office of Procurement and Distribution
800 Lincoln Way
Ames, Iowa 50010
Phone No. 515-239-1347
Fax No. 515-239-1538
jerry.giebelstein@dot.iowa.gov

By _____

Company _____

Address _____

City _____ State _____ Zip Code _____
Phone No. _____

Fax No. _____

=====

DOT USE ONLY

Approved _____

Disapproved _____

Reason _____

Signature: _____

Date: _____

Bidder _____

SEALED BID

LETTING DATE: Wednesday, November 04, 2009
PROPOSAL NO: 4178
PROPOSAL DESCRIPTION: GNSS Rover, Data Collector, Software, and
Related Equipment

Iowa Department of Transportation
PURCHASING - SEALED BID PROPOSAL
800 Lincoln Way
Ames, IA 50010