

# **Project Manual**

for

## **4x4 Self-Propelled High Speed Rotary Plow**



Prepared for  
**Gwinn, Michigan**  
Sponsor: **County of Marquette, Michigan**

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## ADVERTISEMENT FOR BIDS

The County of Marquette, Michigan will receive sealed bids for the procurement of one new cab-forward 4x4 self-propelled high-speed rotary plow at the Sawyer International; Airport until **10:00 am EST, Thursday February 10, 2022** Bids received after the stated time will not be accepted. Bids will be publicly opened and read aloud immediately following the time stated above.

## SCHEDULE OF EVENTS

January 12, 2022	RFP issued to Vendors
January 26, 2022	Questions from Vendors due (Written only)
February 4, 2022	Addendum issued (If required) (All addendums will be posted on the Marquette County web site)
February 10, 2022	Due Date for RFP (by 10:00 am EST; bid opening immediately after)

Responses received after the deadline cannot be considered and if mailed, will be returned unopened. The County is not responsible for delays occasioned by the US Postal Service, the internal mail delivery system of the county, or any other delivery method employed by the Vendor.  
Submission: Submit three complete sets of documents.  
Method of submittal: By mail or delivery in person.

Bids shall be addressed to **Sawyer International Airport, Gwinn MI 49841.**

Bids shall be sealed and shall have the name and address of the bidder clearly marked on the outside of the envelope. The envelope shall also be marked with the following: **"SEALED BID: SNOW REMOVAL EQUIPMENT, SAWYER INTERNATIONAL AIRPORT."** Bids must be submitted on the bid forms provided in the Project Manual. No bid may be withdrawn after closing time for the receipt of proposals for a period of ninety (90) calendar days.

The County of Marquette reserves the right to reject any and all bids, and to waive any informalities in bidding or to accept the bids or bid, should it consider same to be in its best interest.

## Availability of Documents

Complete digital project bidding documents will be available at [www.Sawyerairport.com](http://www.Sawyerairport.com). Those wishing to download the bidding documents electronically do so at their own risk for completeness of the bidding documents.

Technical questions should be directed to:  
Duane R. DuRay  
Sawyer International Airport  
906-346-3308 Ext 3138  
[dduray@mqtco.org](mailto:dduray@mqtco.org).

## Civil Rights-Title VI Assurance (49 USC § 47123, FAA Order 1400.11)

Title VI Solicitation Notice:

The County of Marquette, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

**Buy American Preference**  
(Title 49 USC § 50101)

**Debarment and Suspension**

(2 CFR part 180 (Subpart C). 2 CFR part 1200, DOT Order 4200.5)

**Disadvantaged Business Enterprise**

(49 CFR part 26)

**Trade Restriction Certification**

(49 USC § 50104, 49 CFR part 30)

**Lobbying and Influencing Federal Employees**

(31 USC § 1352 – Byrd Anti-Lobbying Amendment, 2 CFR part 200, Appendix II(J), 49 CFR part 20, Appendix A)

**Procurement of Recovered Materials**

(2 CFR § 200.322, 40 CFR part 247, Solid Waste Disposal Act)

## PROPOSAL

*(This is an INVITATION TO BID and NOT a purchase order.)*

Proposal of \_\_\_\_\_ (hereinafter called "BIDDER"), organized and existing under the laws of the State of \_\_\_\_\_, doing business as a corporation, a partnership or an individual, to the **County of Marquette, Michigan**, (hereinafter called "SPONSOR"), **125 G Avenue, Gwinn, Michigan 49841**.

In compliance with the Advertisement for Bids, BIDDER hereby proposes to furnish and supply all labor, equipment, tools, supplies and incidentals to fabricate a **new, all-wheel drive, self-propelled high speed rotary plow** in strict accordance with the Contract Specifications, within the time set forth therein and at the lump sum prices stated below. The undersigned, as BIDDER, certifies to the following:

**A.** That he has examined the detailed Contract Specifications and other documents as are a part of this proposal, and is fully informed as to the nature of the work and requirements to its performance.

**B.** That he proposes to furnish all of the necessary materials, tools, equipment and labor for the procurement specified as herein described, in strict accordance with provisions of the Contract documents, all for the consideration of the prices entered in this proposal.

**C.** That he affirms in making such proposal, neither he nor any company that he may represent, nor anyone on behalf of him or his company, directly or indirectly has entered into any combination, collusion, undertaking or agreement with any other bidder or bidders to maintain the prices of said work or any compact to prevent other bidders from bidding on said Contract or work, and further affirms that such proposal is made without regard to or reference to any other bidder or proposal and without any agreement or understanding or combination either directly or indirectly with any other person or persons with reference to such bidding in any way or manner whatsoever.

**D.** That he agrees, if awarded the Contract, that he will commence the work promptly after receipt of written purchase order and deliver the procurement within the number of calendar days stipulated in the specifications, that delays will result in **liquidated damages totaling Two Hundred Dollars (\$200.00) per calendar day**, deducted from money due to the BIDDER, and also agrees that such deducted sums shall not be deducted as a penalty, but shall be considered as liquidation of a reasonable portion of damages incurred by the owner.

**E.** That in submitting the proposal he agrees that it may be opened at the place, time and date stipulated in the Advertisement for Bids and further agrees that it may not be withdrawn for a period of ninety (90) days after opening thereof. He also acknowledges that the SPONSOR reserves the right to waive any informality or to reject any or all bids. The award of the Contract shall be made to the responsible bidder whose bid is responsive to the invitation and is most advantageous to the SPONSOR, with price, life cycle costs and other factors considered.

Each BIDDER shall furnish the SPONSOR satisfactory evidence of his or her competency to perform successfully under the terms and conditions of the proposed procurement as defined in 2 CFR § 200.318(h). This includes such matters as manufacturer/supplier integrity, compliance with public policy, record of past performance, and financial and technical resources. Such evidence of competency shall consist of statements covering past experience with similar all-wheel drive, heavy-duty vehicles with high speed rotary plows. Each BIDDER shall also list, as independent references, a minimum of three (3) airport sponsors with the manufacturer's similar equipment currently in use.

The SPONSOR may obtain equipment life cycle costs if bids received provide significant disparity between bidders. Any costs expected to be incurred for the item over its useful life (that is acquisition, operation and maintenance) are considered. Cost data must be verifiable independently of a claim by the manufacturer.

**F.** That he also agrees that if he is the successful bidder, he will furnish, prior to the award of the Contract, such other pertinent information regarding his own employment policies and practices as well as those of his proposed sub-contractors and other information as may be required by the SPONSOR and/or Federal and State Agencies.

**G.** That he understands and agrees that the award of the Contract shall not be made until the Michigan Office of Aeronautics and FAA have concurred in the SPONSOR'S recommendation to award and has approved the SPONSOR'S prepared Contract to the extent that such occurrences and approval is mandated by administrative regulatory requirements and that the award of the Contract is not effective until the awarded contractor is so notified in writing by the SPONSOR by Purchase Order.

**H.** That he understands and agrees that all Michigan State sales and use taxes, as well as any Federal excise tax, applicable to this Contract shall be included in the prices bid in the proposal and that he shall produce evidence that he has complied with all applicable tax regulations if requested to do so.

**I.** That in the letting of sub-contracts, he will include all necessary clauses as required by the General Provisions of the Contract Specifications. That he agrees to submit with this proposal detailed specifications and descriptive literature for the procurement bid for review by the SPONSOR.

**J.** That he agrees that no payment shall be made until the fully assembled and operational vehicle, including all equipment and accessories, has been delivered and instruction on use and personnel training has been performed on-site by a trained technician, should he be the successful bidder. He also agrees that personnel training and instruction on use shall be performed at the **Sawyer International Airport**.

**K.** That he will provide, if the successful bidder, all the necessary written guarantees and certifications as required by the Contract Specifications at or prior to time of delivery.

**L.** The bidder also understands that the Aviation Safety and Capacity Expansion Act of 1990 is applicable to this procurement and provides that preference be given to steel and manufactured products produced in the United States when funds are expended pursuant to a grant issued under the Airport Improvement Program. By submittal of this proposal the bidder understands that the following terms apply:

- **Steel and Manufactured Products:** As used in this clause, steel and manufactured products include (1) steel produced in the United States or (2) a manufactured product produced in the United States, if the cost of its components mined, produced or manufactured in the United States exceeds 60 percent of the cost of all its components and final assembly has taken place in the United States. Components of foreign origin of the same class or kind as the products that are not produced in the US in sufficient and reasonably available quantities and of satisfactory quality shall be treated as domestic.
- **Components:** As used in this clause, components mean those articles, materials and supplies incorporated directly into steel and manufactured products.
- **Cost of Components:** This means the costs for production of the components, exclusive of final assembly labor costs.

**M.** The successful bidder will be required to assure that only domestic steel and manufactured products will be used by the contractor, sub-contractors, material men and suppliers in the performance of this contract, except those:

- That the US Department of Transportation has determined, under the Aviation Safety and Capacity Expansion Act of 1990, are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality;

- That the US Department of Transportation has determined, under the Aviation Safety and Capacity Expansion Act of 1990, that domestic preference would be inconsistent with the public interest; or
- That inclusion of domestic material will increase that cost of the overall project contract by more than 25 percent.

**N.** The bidder shall submit their proposal on the forms furnished by the Owner. All blank spaces in the proposal forms, unless explicitly stated otherwise, must be correctly filled in where indicated for each and every item for which a quantity is given. The bidder shall state the price (written in ink or typed) both in words and numerals which they propose for each pay item furnished in the proposal. In case of conflict between words and numerals, the words, unless obviously incorrect, shall govern.

The bidder shall correctly sign the proposal in ink. If the proposal is made by an individual, their name and post office address must be shown. If made by a partnership, the name and post office address of each member of the partnership must be shown. If made by a corporation, the person signing the proposal shall give the name of the state where the corporation was chartered and the name, titles, and business address of the president, secretary, and the treasurer. Anyone signing a proposal as an agent shall file evidence of their authority to do so and that the signature is binding upon the firm or corporation.

**O.** The BIDDER acknowledges receipt of addenda issued in respect of foregoing project, and being numbered:

Addendum # \_\_\_\_ Date \_\_\_\_\_

Addendum # \_\_\_\_ Date \_\_\_\_\_

Addendum # \_\_\_\_ Date \_\_\_\_\_

Addendum # \_\_\_\_ Date \_\_\_\_\_

**P.** ALTERNATE BIDS: Bids for alternate items shall also be provided as specified. The SPONSOR may choose to add these items to the procurement if they determine it is in their best interest to do so. The successful bidder agrees to provide these items at the price quoted. (US Currency)

NAME AND ADDRESS OF BIDDER:

SIGNATURE: \_\_\_\_\_ NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

BIDDER agrees to provide the specified procurement at the following Lump Sum prices quoted.  
(US Currency)

**BASE BID** (High-speed rotary plow and accessories)      \$ \_\_\_\_\_

Total amount of Base Bid (written in words):

\$ \_\_\_\_\_

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Exceptions to the Advertised Specifications are applicable and are reflected in the total amount of bid:

This image shows a single sheet of white paper with horizontal black ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



ATTACHMENTS TO THIS BID:

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

1. Buy American Certification
2. Certification of Bidder Regarding Tax Delinquency and Felony Convictions
3. Trade Restriction Certification
4. Certification Regarding Lobbying
5. Performance and Feature Worksheet
6. Certified Performance Testing Results in accordance with the Special Provisions and applicable SAE ARP specifications.
7. Manufacturer Specification Sheet(s) as applicable
8. Evidence of Competency, including Three (3) Airport Sponsor References

## BUY AMERICAN CERTIFICATION

The contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP-funded projects are produced in the United States, unless the FAA has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A bidder or offeror must submit the appropriate Buy America certification (below) with all bids or offers on AIP funded projects. Bids or offers that are not accompanied by a completed Buy America certification must be rejected as nonresponsive.

### **Certificate of Buy American Compliance for Manufactured Products**

(Non-building construction projects, equipment acquisition projects)

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder or offeror must select one or the other (not both) by inserting a checkmark (✓) or the letter "X".

- ☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:
- Only installing steel and manufactured products produced in the United States, or;
  - Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing, or;
  - Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- To faithfully comply with providing US domestic product.
- To furnish US domestic product for any waiver request that the FAA rejects.
- To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

- ☐ The bidder or offeror hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder with the apparent low bid agrees:

- To submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested.
- That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.

3. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

**Required Documentation**

**Type 3 Waiver** - The cost of the item components and subcomponents produced in the United States is more than 60% of the cost of all components and subcomponents of the "item". The required documentation for a type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety)
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

**Type 4 Waiver** – Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 waiver is:

- a) Detailed cost information for total project using US domestic product
- b) Detailed cost information for total project using non-domestic product

**False Statements:** Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

_____	_____
Date	Signature
_____	_____
Company Name	Title

## CERTIFICATION OF BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The BIDDER must complete the following two certification statements. The BIDDER must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark ( ☐ ) or the letter "X" in the space following the applicable response. The BIDDER agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

1) The BIDDER represents that it is is not a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting tax liability. \_\_\_\_\_

2) The BIDDER represents that it is is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months. \_\_\_\_\_

Note: If a BIDDER responds in the affirmative to either of the above representations, the BIDDER is ineligible to receive an award unless the SPONSOR has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The BIDDER therefore must provide information to the SPONSOR about its tax liability or conviction to the SPONSOR, who will then notify the FAA Airports District Office, which will then notify the agency's SDO to facilitate completion of the required considerations before award decisions are made.

### Term Definitions

**Felony conviction:** Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

**Tax Delinquency:** A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Title

## TRADE RESTRICTION CERTIFICATION

The BIDDER must complete the following certification statements. The BIDDER agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts. By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror –

- 1) is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (USTR);
- 2) has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the USTR; and
- 3) has not entered into any subcontract for any product to be used on the Federal project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18 USC Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, **no contract shall be awarded to an Offeror or subcontractor:**

- 1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR or
- 2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such USTR list or
- 3) who incorporates in the public works project any product of a foreign country on such USTR list. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The Contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by USTR, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration (FAA) may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

## TRADE RESTRICTION CERTIFICATION

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Title

## CERTIFICATION REGARDING LOBBYING

The Bidder or Offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that **the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements)** and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

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Date

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Signature

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Company Name

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Title

## **NOTICE TO BIDDERS BID PROTEST / DISPUTE PROCEDURES**

The following criteria shall be met in order to protest the bid and/or award for this project:

- The protest shall include the name, street address, electronic mail address, and telephone number of the protester. All protested/disputed item(s) shall be detailed in writing and include justification or grounds for protest.
- Pre-Bid Protest: If a protester formally disputes the procurement because the bid solicitation is allegedly defective, the protest shall be submitted in writing to the Sponsor no later than 7 calendar days prior to the bid due date and time. Late submittal of a protest regarding improper bid solicitations may result in rejection of the protest without action by the Sponsor, per FAA policy. Pre-Award Protest: If a protester formally disputes award of the project because of alleged improper bid evaluation, the protest shall be submitted in writing to both the Sponsor and Consultant no later than 14 calendar days following the issuance of the Recommendation to Award.
- Post-Award Protest: No protest received after an award has been made will be considered.
- Protests shall be submitted in writing to the following location:

Sponsor:

Mr. Duane DuRay, Airport Manager  
Sawyer International Airport  
125 G Avenue  
Gwinn, MI 49841  
dduray@mqtco.org

All protests must be conspicuously marked and identified that the correspondence contains a bid protest. Protests delivered by e-mail shall not be considered received or official unless the Sponsor responds to the e-mail acknowledging receipt of the protest. Hard copies meeting the deadlines and all requirements should therefore also be submitted. Without this acknowledgement the protester must conclude that the protest has not been received.

The Sponsor will notify the FAA upon receipt of a protest. The Sponsor will respond in detail to each substantive issue raised by a protest submitted in strict accordance with these written requirements. Items addressed by addenda subsequent to a bid protest that address the protested item(s) will not be allowed to be considered for dispute. A protest or specific protest allegations may be dismissed any time sufficient information is obtained by the Sponsor warranting dismissal. The Sponsor's determination is final. FAA will only entertain protests that involve (1) a violation of Federal laws or regulations and/or (2) allegations that the Sponsor's written protest procedures were not followed. Any information contained within a protest will become public record subject to disclosure under the Freedom of Information Act. The information will not be treated as confidential.

Protests must be received by the established deadlines with no exceptions.

Deadline for receipt of bid protests: 10:00 am (EST), Thursday, February 10, 2022

Deadline for receipt of award protests: 5:00 pm (EST), Thursday, February 17, 2022



## PERFORMANCE AND FEATURE WORKSHEET

for

### High-Speed Rotary Plow

(Please fill in applicable blanks)

#### Carrier Vehicle

Vehicle Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Production Model Year: \_\_\_\_\_ Delivery: \_\_\_\_\_ days

Gross Vehicle Weight: \_\_\_\_\_ lbs

Weight Distribution, Front: \_\_\_\_\_ Rear: \_\_\_\_\_

Vehicle Height: \_\_\_\_\_ in Vehicle Weight: \_\_\_\_\_ in

Vehicle Length: \_\_\_\_\_ in Vehicle Wheel Base: \_\_\_\_\_ in

Vehicle Engine Manufacturer: \_\_\_\_\_ Net Horsepower SAE: \_\_\_\_\_

Vehicle Engine Model Number: \_\_\_\_\_ Rated RPM: \_\_\_\_\_

Vehicle Engine Peak Torque Rating: \_\_\_\_\_ lb/ft Cubic Inch Displacement: \_\_\_\_\_

Vehicle Transmission Manufacturer: \_\_\_\_\_ Transmission Model No: \_\_\_\_\_

Vehicle Transfer Case Manufacturer: \_\_\_\_\_ Transfer Case Model No: \_\_\_\_\_

Vehicle Tire Designation, Front: \_\_\_\_\_ Rear: \_\_\_\_\_

Vehicle Alternator Electrical Output: \_\_\_\_\_ amps

Vehicle Total Battery CCA at 0°F: \_\_\_\_\_

Vehicle Fuel Capacity: \_\_\_\_\_ gal

Vehicle Hyd. Oil Tank Capacity: \_\_\_\_\_ gal

Vehicle Axle Rating, Front: \_\_\_\_\_ lbs. Rear: \_\_\_\_\_ lbs

#### Blower Head and power Train

Blower Head Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Blower Engine Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Blower Engine Model Number: \_\_\_\_\_ Rated RPM: \_\_\_\_\_

Blower Engine Peak Torque Rating: \_\_\_\_\_ lb/ft Cubic Inch Displacement: \_\_\_\_\_

Blower Hyd. Oil Tank Capacity: \_\_\_\_\_ gal

Ribbon Auger Diameter: \_\_\_\_\_ in

Impeller Diameter: \_\_\_\_\_ in

**Standard warranty (Minimum 1 – Year required on all components)**

Entire Vehicle Warranty: \_\_\_\_\_ Years      Frame / Chassis: \_\_\_\_\_ Years

Engine: \_\_\_\_\_ Years      Transmission: \_\_\_\_\_ Years

## GENERAL PROVISIONS INDEX

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## **GENERAL PROVISIONS FOR EQUIPMENT ACQUISITION PROJECTS**

### **SECTION 01: GUARANTEE/WARRANTY**

The BIDDER must guarantee in writing that for the standard warranty period from the commencement of operation, they will, at their own expense and without expense to the SPONSOR, provide transportation if necessary and replace all failed parts and make all repairs that may be necessary and required by reason of defective design, workmanship or material in any part of the assembly of the equipment herein specified. In addition, the BIDDER must guarantee, in writing, that they will maintain spare parts in support of any equipment herein specified that may be purchased as a result of this proposal and will make them available for purchase for a period of not less than ten (10) years from the date of delivery. The warranty statement shall contain the manufacturer's obligations, duration of the warranty period, warranty procedure and any disclaimers.

### **SECTION 02: DESIGN, CONSTRUCTION AND MATERIALS**

The equipment and accessory design shall be of the best engineering practices and shall permit accessibility for use, maintenance and service. All components shall be free of hazardous protrusions, sharp edges, cracks or other elements, which might cause injury to personnel or equipment. All oil, hydraulic and air tubing lines and electrical wiring shall be located in protective positions, properly attached to the frame of body structure and shall have a protective loom or grommet at each point where they pass through structural members, except where a through-frame connector is necessary. The vehicle shall be constructed so that no part can work loose in service. The vehicle shall be built to withstand the strains, jars, vibrations and other conditions incidental to service intended. Design of the vehicle shall produce the necessary clearances to permit satisfactory use of all drive wheels when traveling adverse terrain. Materials shall be of the best quality used for the purpose in commercial practice. Materials shall be free from all defects and imperfections that might affect the serviceability of the finished product. The equipment shall be a production model and not a prototype model.

### **SECTION 03: STANDARDIZATION**

All components, sub-assemblies, equipment and accessories not originally manufactured by the BIDDER must be installed by or in strict conformance with the standard installation and use requirements of the manufacturer of such items. Any modifications to these standard installation and use requirements must be evidenced by the written concurrence of the manufacturer of such components, sub-assemblies, equipment or accessories. Documentation of concurrence must be submitted when requested, in writing, by the SPONSOR. BIDDER must state the basic model number, which the equipment is listed or referred to in a publication of recognized standing in the industry. In addition, the BIDDER must submit all available specifications, data and descriptive literature covering the equipment proposed in response to the proposal.

### **SECTION 04: IDENTIFICATION PLATES**

Identification plates of sufficient size to be easily read must be conspicuously displayed and securely fastened on the engine, chassis controls, compartment, valves and all other components showing all information necessary for the proper identification and/or operation of the unit. Similarly, identification plates or other suitable methods indicating operational parameters for pressure, temperature, tachometer and other similar critical operation indicators are required.

### **SECTION 05: PAINT**

See Technical Specifications.

### **SECTION 06: CATALOGS AND MANUALS**

The successful BIDDER shall be required to furnish (2) printed sets plus internet access to parts books, operating manuals, service manuals, etc. as referenced in the applicable technical specifications in accordance with standard commercial practices applicable to the equipment furnished under this contract, complete with auxiliary equipment. Manuals shall be printed in English. Engine manuals shall be provided for the carrier and blower engine separately unless one manual covers both engines. Each set shall be composed of one copy of each of operator's manual with lubrication charts, parts manual and maintenance/service manual.

## **SECTION 07: CERTIFICATIONS**

The successful BIDDER will be required, prior to acceptance of and payment for the delivered equipment, to provide, upon the written request of the SPONSOR, a "Certification of Suitability" for all driveline and power train components not manufactured by the BIDDER. The manufacturer's published rating shall not be raised to conform to the inherent requirements of this procurement, and shall be at least equal to the load imposed, with adequate safety factor applied, at normal maximum operational configuration and conditions. This requirement extends to, but is not limited to, the following components: engine, transmission, transfer case, drive shaft, axles, lockouts, suspension system, hydraulic system, braking system, generator, air compressor, steering mechanism and other similar components, if supplied as part of the Contract.

## **SECTION 08: COMPLIANCE WITH REGULATORY REQUIREMENTS**

If the procurement specified is a vehicle as defined by the State of Michigan Motor Vehicle Code, it is required that the vehicle as delivered comply with the Michigan Motor Vehicle Code for operation on public highways. The successful BIDDER shall furnish the SPONSOR with a "Manufacturer's Statement of Origin" and notarized "Bill of Sale" in conformance with the State of Michigan Motor Vehicle Code and other documents if necessary to obtain a State of Michigan Motor Vehicle Certificate of Title. It is also required that all equipment or components, whether furnished as a complete unit, an individual item, or an individual item within a complete unit, conform to all applicable Occupational Safety and Health Standards Act Regulatory Requirements and other applicable state and federal regulatory requirements. Materials used on the vehicle shall conform to specifications listed in Federal Aviation Administration Advisory Circular 150/5220-20 and appropriate sections of Title 49, Chapter III, Subchapter B-Federal Motor Carrier Safety Regulations.

## **SECTION 09: DELIVERY**

The fully assembled and operational vehicle, including all equipment and accessories shall be delivered within three hundred (300) calendar days from the date of the SPONSOR'S purchase order FOB to the following location:

Sawyer International Airport  
125 G Avenue  
Gwinn, MI 49841

All arrangements for common carrier shipping shall be made by the BIDDER, the cost of which shall be prepaid by the BIDDER and included in the BIDDER'S quoted lump sum bid. The SPONSOR'S prior approval for the proposed shipment must be obtained.

## **SECTION 10: COMPLIANCE WITH FEDERAL CONTRACT PROVISIONS FOR EQUIPMENT ACQUISITION PROJECTS**

### **10.1 GENERAL:**

- A. AIP PROJECT: The work in this Contract is approvable as an Airport Improvement Program Project which is being undertaken and accomplished by the SPONSOR in accordance with the terms and conditions of an agreement between the SPONSOR and the United States, and the Airport and Airway Improvement Act of 1982 and FAR part 152 (14 CFR part 152), pursuant to which the United States has agreed to pay a certain percentage of the costs under that Act. The United States is not a party to this Contract and no reference in this Contract to the Federal Aviation Administration or any representative thereof, or to any rights granted to the FAA or any representative thereof, or the United States, by the Contract, makes the United States a party to this Contract.
- B. CONSENT TO ASSIGNMENT: The contractor shall obtain the prior written consent of

the SPONSOR to any proposed assignment of any interest in or part of this Contract.

- C. CONVICT LABOR: No convict labor may be employed under this Contract.
- D. VETERANS PREFERENCE: In the employment of labor (except in executive, administrative and supervisory positions), preference shall be given to qualified individuals who have served in the military service of the United States as defined in Section 101 of the Soldiers' and Sailors' Civil Relief Act of 1940, as amended, 50 App. U.S.C. 511 (1), and have been honorably discharged from the service, except that preference may be given only where that labor is available locally and is qualified to perform the work to which the employment relates.
- E. WITHHOLDING BY SPONSOR FROM CONTRACTOR: Whether or not payments or advances to the SPONSOR are withheld or suspended by the FAA, the SPONSOR may withhold or cause to be withheld from the contractor as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics employed by the contractor or any sub-contractor on the work, the full amount of wages required by this Contract.
- F. NON-PAYMENT OF WAGES: If the contractor or sub-contractor fails to pay any laborer or mechanic employed or working on the site of the work any of the wages required by this contract, the SPONSOR may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment or advance of funds until the violations cease.
- G. FAA INSPECTION AND REVIEW: The contractor shall allow any authorized representative of the FAA to inspect and review any work or materials used in the performance of this Contract.
- H. SUB-CONTRACTS: The contractor shall insert in each of his sub-contracts the provisions contained in paragraphs (A), (C), (D), (E), (F) and (G) of this section and also a clause requiring the sub-contractors to include these provisions in any lower tier sub-contracts, which they may enter into, together with a clause requiring this insertion in any further sub-contracts that may in turn be made.
- I. CONTRACT TERMINATION: A breach of paragraphs (B), (C), (F), (G) and (H) of this section may be grounds for termination of Contract.

#### 10.2 ACCESS TO RECORDS AND REPORTS:

The CONTRACTOR shall maintain an acceptable cost accounting system. The CONTRACTOR agrees to provide the Sponsor, the Federal Aviation Administration and the Comptroller General of the United States or any of their duly authorized representatives, access to any books, documents, papers and records of the CONTRACTOR which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcripts. The CONTRACTOR agrees to maintain all books, records and reports required under this Contract for a period of not less than three years after final payment is made and all pending matters are closed.

#### 10.3 GENERAL CIVIL RIGHTS PROVISIONS:

The CONTRACTOR agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted

with or benefitting from Federal assistance.

This provision binds the CONTRACTOR and subcontractors from the bid solicitation period through the completion of the Contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

#### 10.4 CIVIL RIGHTS - TITLE VI ASSURANCE:

10.4.1 **TITLE VI SOLICITATION NOTICE:** The **Sawyer International Airport**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

10.4.2 **COMPLIANCE WITH NONDISCRIMINATION REQUIREMENTS:** During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "CONTRACTOR") agrees as follows:

10.4.2.1 **COMPLIANCE WITH REGULATIONS:** The CONTRACTOR will comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

10.4.2.2 **NON- DISCRIMINATION:** The CONTRACTOR, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The CONTRACTOR will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.

10.4.2.3 **SOLICITATIONS FOR SUBCONTRACTORS FOR SUBCONTRACTS, INCLUDING PROCUREMENTS OF MATERIAL AND EQUIPMENT:** In all solicitations, either by competitive bidding, or negotiation made by the CONTRACTOR for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Nondiscrimination Acts And Authorities on the grounds of race, color, or national origin.

10.4.2.4 **INFORMATION AND REPORTS:** The CONTRACTOR will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts And Authorities and instructions. Where any information required of a CONTRACTOR is in the exclusive possession of another who fails or refuses to furnish the information, the CONTRACTOR will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

10.4.2.5 SANCTIONS FOR NONCOMPLIANCE: In the event of a CONTRACTOR'S noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:

10.4.2.5.1 Withholding payments to the CONTRACTOR under the contract until the CONTRACTOR complies; and/or

10.4.2.5.2 Cancelling, terminating, or suspending a contract, in whole or in part.

10.4.2.6 INCORPORATION OF PROVISIONS: The CONTRACTOR will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The CONTRACTOR will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the CONTRACTOR becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the CONTRACTOR may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the CONTRACTOR may request the United States to enter into the litigation to protect the interests of the United States.

10.4.3 TITLE VI LIST OF PERTINENT NONDISCRIMINATION ACTS AND AUTHORITIES: During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "CONTRACTOR") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing



entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;

- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq*).

**10.4.4 ENFORCEMENT:** CONTRACTOR agrees that the United States has a right to seek judicial enforcement with regard to any matter arises under the Acts, the Regulations and this assurance.

**10.5 DISADVANTAGED BUSINESS ENTERPRISES:**

**Contract Assurance (§26.13)** – The contractor or subcontractor shall not discriminate on the basis of race, color, national origin or sex in the performance of this Contract. The CONTRACTOR shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the CONTRACTOR to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy, as the recipient deems appropriate.

**Prompt Payment (§26.29)** – The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than ten (10) days from the receipt of each payment the prime contractor receives from **Marquette County**. The prime contractor agrees further to return retainage payments to each subcontractor within ten (10) days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of **Marquette County**. This clause applies to both DBE and non-DBE contractors.

The requirements of 49 CFR part 26 apply to this contract. It is the policy of **Marquette County** to practice nondiscrimination based on race, color, sex or national origin in the award or performance of this contract. The Owner encourages participation by all firms qualifying under this solicitation regardless of business size or ownership.

**10.6 ENERGY CONSERVATION REQUIREMENTS:**

The Contractor and Subcontractor agree to comply with mandatory standards and policies relating to energy efficiency that are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201 *et seq*).

10.7 FEDERAL FAIR LABOR STANDARDS ACT:

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers.

The Contractor has full responsibility to monitor compliance to the referenced statute or regulation. The Contractor must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

10.8 OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970:

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

10.9 VETERAN'S PREFERENCE:

In the employment of labor (excluding executive, administrative, and supervisory positions), the contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 U.S.C. 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

10.10 TEXTING WHEN DRIVING:

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), the FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

In support of this initiative, the Owner encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 and involve driving a motor vehicle in performance of work activities associated with the project.

10.11 PROCUREMENT OF RECOVERED MATERIALS:

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- a) The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or,
- b) The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at [www.epa.gov/epawaste/conserve/tools/cpg/products/](http://www.epa.gov/epawaste/conserve/tools/cpg/products/).

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the contractor can demonstrate the item is:

- a) Not reasonably available within a timeframe providing for compliance with the contract performance schedule;
- b) Fails to meet reasonable contract performance requirements; or
- c) Is only available at an unreasonable price.

#### 10.12 TERMINATION OF CONTRACT:

10.12.1 **TERMINATION FOR CONVENIENCE:** The Owner may terminate this contract in whole or in part at any time by providing written notice to the Contractor. Such action may be without cause and without prejudice to any other right or remedy of Owner. Upon receipt of a written notice of termination, except as explicitly directed by the Owner, the Contractor shall immediately proceed with the following obligations regardless of any delay in determining or adjusting amounts due under this clause:

- 10.12.1.1 Contractor must immediately discontinue work as specified in the written notice.
- 10.12.1.2 Terminate all subcontracts to the extent they relate to the work terminated under the notice.
- 10.12.1.3 Discontinue orders for materials and services except as directed by the written notice.
- 10.12.1.4 Deliver to the owner all fabricated and partially fabricated parts, completed and partially completed work, supplies, equipment and materials acquired prior to termination of the work and as directed in the written notice.
- 10.12.1.5 Complete performance of the work not terminated by the notice.
- 10.12.1.6 Take action as directed by the owner to protect and preserve property and work related to this contract that Owner will take possession.

Owner agrees to pay Contractor for:

- a) completed and acceptable work executed in accordance with the contract documents prior to the effective date of termination;
- b) documented expenses sustained prior to the effective date of termination in performing work and furnishing labor, materials, or equipment as required by the contract documents in connection with uncompleted work;
- c) reasonable and substantiated claims, costs and damages incurred in settlement of terminated contracts with Subcontractors and Suppliers; and
- d) reasonable and substantiated expenses to the contractor directly attributable to

#### Owner's termination action

Owner will not pay Contractor for loss of anticipated profits or revenue or other economic loss arising out of or resulting from the Owner's termination action.

The rights and remedies this clause provides are in addition to any other rights and remedies provided by law or under this contract.

**10.12.2 TERMINATION FOR DEFAULT:** The Owner may, by written notice of default to the Contractor, terminate all or part of this Contract if the Contractor:

- 10.12.2.1** Fails to commence the Work under the Contract within the time specified in the Notice- to-Proceed;
- 10.12.2.2** Fails to make adequate progress as to endanger performance of this Contract in accordance with its terms;
- 10.12.2.3** Fails to make delivery of the equipment within the time specified in the Contract, including any Owner approved extensions;
- 10.12.2.4** Fails to comply with material provisions of the Contract;
- 10.12.2.5** Submits certifications made under the Contract and as part of their proposal that include false or fraudulent statements;
- 10.12.2.6** Becomes insolvent or declares bankruptcy;

If one or more of the stated events occur, the Owner will give notice in writing to the Contractor and Surety of its intent to terminate the contract for cause. At the Owner's discretion, the notice may allow the Contractor and Surety an opportunity to cure the breach or default.

If within [10] days of the receipt of notice, the Contractor or Surety fails to remedy the breach or default to the satisfaction of the Owner, the Owner has authority to acquire equipment by other procurement action. The Contractor will be liable to the Owner for any excess costs the Owner incurs for acquiring such similar equipment.

Payment for completed equipment delivered to and accepted by the Owner shall be at the Contract price. The Owner may withhold from amounts otherwise due the Contractor for such completed equipment, such sum as the Owner determines to be necessary to protect the Owner against loss because of Contractor default.

Owner will not terminate the Contractor's right to proceed with the Work under this clause if the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such acceptable causes include: acts of God, acts of the Owner, acts of another Contractor in the performance of a contract with the Owner, and severe weather events that substantially exceed normal conditions for the location.

If, after termination of the Contractor's right to proceed, the Owner determines that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the Owner issued the termination for the convenience the Owner.

The rights and remedies of the Owner in this clause are in addition to any other rights and remedies provided by law or under this contract.

#### 10.13 DEBARMENT AND SUSPENSION:

10.13.1 CERTIFICATION OF OFFERER/BIDDER REGARDING DEBARMENT: By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

10.13.2 CERTIFICATION OF LOWER TIER CONTRACTORS REGARDING DEBARMENT: The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

10.13.2.1 Checking the System for Award Management at website: <http://www.sam.gov>

10.13.2.2 Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.

10.13.2.3 Inserting a clause or condition in the covered transaction with the lower tier contract

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

#### 10.14 BREACH OF CONTRACT TERMS:

Any violation or breach of terms of this contract on the part of the contractor or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

Owner will provide CONTRACTOR written notice that describes the nature of the breach and corrective actions the CONTRACTOR must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the Owner elects to terminate the contract. The Owner's notice will identify a specific date by which the CONTRACTOR must correct the breach. Owner may proceed with termination of the contract if the CONTRACTOR fails to correct the breach by deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

#### 10.15 CLEAN AIR AND WATER POLLUTION CONTROL:

Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 U.S.C. § 740-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). The Contractor agrees to report any violation to the Owner immediately upon discovery. The Owner assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

Contractor must include this requirement in all subcontracts that exceed \$150,000.00

## Michigan Sales and Use Tax Certificate of Exemption

DO NOT send to the Department of Treasury. Certificate must be retained in the seller's records. This certificate is invalid unless all four sections are completed by the purchaser.

### SECTION 1: TYPE OF PURCHASE

☐ A. One-Time Purchase

Order or Invoice Number: \_\_\_\_\_

☒ C. Blanket Certificate

Expiration Date (maximum of four years): 1/10/23

☐ B. Blanket Certificate, Recurring Business Relationship

The purchaser hereby claims exemption on the purchase of tangible personal property and selected services made from the vendor listed below. This certifies that this claim is based upon the purchaser's proposed use of the items or services, OR the status of the purchaser.

Vendor's Name and Address

### SECTION 2: ITEMS COVERED BY THIS CERTIFICATE

Check one of the following:

1. ☒ All items purchased.

2. ☐ Limited to the following items: \_\_\_\_\_

### SECTION 3: BASIS FOR EXEMPTION CLAIM

Check one of the following:

1. ☐ For Resale at Retail. Enter Sales Tax License Number: \_\_\_\_\_

2. ☐ For Lease. Enter Use Tax Registration Number: \_\_\_\_\_

The following exemptions DO NOT require the purchaser to provide a number:

3. ☐ For Resale at Wholesale.

4. ☐ Agricultural Production. Enter percentage: \_\_\_\_\_ %

5. ☐ Industrial Processing. Enter percentage: \_\_\_\_\_ %

6. ☒ Church, Government Entity, Nonprofit School, or Nonprofit Hospital (Circle type of organization).

7. ☐ Nonprofit Internal Revenue Code Section 501(c)(3) or 501(c)(4) Exempt Organization (must provide IRS authorized letter with this form).

8. ☐ Nonprofit Organization with an authorized letter issued by the Michigan Department of Treasury prior to June 1994 (must provide copy of letter with this form).

9. ☐ Rolling Stock purchased by an Interstate Motor Carrier.

10. ☐ Other (explain): \_\_\_\_\_

### SECTION 4: CERTIFICATION

I declare, under penalty of perjury, that the information on this certificate is true, that I have consulted the statutes, administrative rules and other sources of law applicable to my exemption, and that I have exercised reasonable care in assuring that my claim of exemption is valid under Michigan law. In the event this claim is disallowed, I accept full responsibility for the payment of tax, penalty and any accrued interest, including, if necessary, reimbursement to the vendor for tax and accrued interest.

Business Name <b>Marquette County</b>		Type of Business (see codes on page 2) <b>Municipality</b>
Business Address <b>234 W Baraga Ave</b>		City, State, ZIP Code <b>Marquette MI 49855</b>
Business Telephone Number (include area code) <b>(906) 225-8177</b>		Name (Print or Type) <b>Susan Vercoe</b>
Signature and Title <i>Susan Vercoe, Finance Mgr</i>		Date Signed <b>1/10/19</b>

**SPECIAL PROVISION  
OPERATIONAL STANDARDS AND COMPLIANCE TESTING  
(AC 150/5220-20A, CHAPTER 8)**

**8-1. General.**

The manufacturer is responsible for conducting tests to ensure that its snow removal and ice control equipment meets the operational and performance requirements it advertises. The manufacturer must submit certified records of these compliance tests with each response to an invitation to bid. Equipment tests must be conducted on standard production models and not on specially constructed prototypes.

**a. Pre-testing.** Examine each test carrier vehicle to ensure that it is a standard production model and not a specially constructed unit made specifically for the test. Prior to testing, all controls, adjusting mechanisms, hydraulic systems and other assemblies must be operated to ensure against leaks, restrictions, and malfunctions. Once assured that the unit is fit, actual testing may begin.

**b. Additional testing.** The purchaser may consider conducting his or her own operational performance tests on equipment prior to acceptance. In such cases, the manufacturer should have the opportunity to witness the performance of such tests, but the costs for such testing and interpretation of results is the sole responsibility of the purchaser.

**8-2. Required carrier vehicle tests.**

Test the carrier vehicle in accordance with (1) this paragraph and (2) any referenced SAE ARP(s) for the specified equipment the carrier vehicle is to support. Conduct the following temperature, performance, and compliance tests when acquiring a carrier vehicle. Carrier vehicles must be all-wheel drive.

**a. Cold weather operations.** A fully-equipped carrier vehicle (all types) with all attached snow removal and ice control equipment should be able to perform normal operations at an ambient temperature:

- (1) of 10°F (-12°C) below the lowest temperature in which the vehicle is expected to operate, or
- (2) at -40°F (-40°C) at airports located in extremely cold climates.

**b. Hot weather operations.** The vehicle should be capable of operating at an ambient temperature of 70°F (21°C) at the maximum speed recommended by the manufacturer without any of the vehicle components exceeding their normal operating temperature.

**c. Power.** Carrier vehicles must have sufficient power to perform all operational and attachment functions simultaneously.

**d. Performance.** The following tests must be conducted on a carrier vehicle loaded to its Gross Vehicle Weight and must include the following systems: hydraulic, power train, brake, lighting, controls, and instruments.

(1) **10 mile test.** Drive the carrier vehicle over hard surfaced roads at normal airport speeds for a distance of 10 miles (16 km) with no problems experienced. Focus special attention on vibration, steering, vehicle drift, rattles, leaks, and interior controls.

(2) **One hour test.** Perform this time test at a speed of 5 mph (8 km/h) over all types of terrain that would normally be encountered at the airport.

(3) **Service brake test.** Conduct this test at speeds of 20 mph and 40 mph (32 km/h and 64 km/h). Using the service brakes only, the fully loaded carrier vehicle must be brought to a complete stop within a distance of 35 and 131 feet (11 and 40 m) respectively measured from the point of brake application. The test must be conducted for two complete cycles in either direction on a hard pavement surface that is dry, reasonably level and free of loose material. Make no steering corrections for vehicle drift during the stop.

(4) **Emergency brake test.** Conduct this test at a speed of 40 mph (64 km/h). Using the emergency brake only, the fully loaded carrier vehicle must be brought to a complete stop on the most critical airfield pavement grade within a distance of 288 feet (88 m) measured from the point of brake application. Conduct this test on a hard surface that is dry and free of loose material. Once stopped, the brake must continue to hold the carrier vehicle without movement for five minutes. Make no steering corrections for carrier vehicle drift during the stop.

**8-3. High-speed rotary plow test.** Field test in accordance with SAE ARP 5539, Rotary Plow with Carrier Vehicle, for the casting distance and tonnage capacity specified by airport operator. Use Table 2-3 of this AC.

**8-4. Snow plow test.** Not Applicable

**8-5. Dry and liquid material spreader tests.** Not Applicable.

**8-6. Runway brooms with airblast.** Not Applicable.



**TECHNICAL SPECIFICATION**  
for  
**4x4 CARRIER VEHICLE**  
**SAWYER INTERNATIONAL AIRPORT**  
**GWINN, MICHIGAN**

**Part A – Airport Operator Checklist**

**A.1. Anticipated uses and/or features of high-speed rotary plow.**

This specification is for furnishing one new, unused, complete, fully operational, current production model, all-wheel drive, all-wheel steer, diesel powered airport snow removal vehicle with a front mounted snow blower of heavy duty design and of sufficient capability to perform airport snow removal as required to meet performance criteria and operational safety as specified herein at the Marquette County Sawyer International Airport, Gwinn Michigan.

The snow blower head shall be a two-stage rotary design with a reversible helical ribbon auger first stage and a second stage impeller each powered via auxiliary diesel engine.

**A.2 Size of Priority 1 paved area** 3,017,650 square feet

**A.3 Capacity** 5,000 tons/hr (minimum)

**A.4 Casting distance** 100 ft (minimum) @ Snow weight (density) of 30 lb/ft<sup>3</sup>

**A.5 Anticipated speed of operation** 5-35 mph

**A.6 Unusual conditions/problems/obstructions**

Sawyer International Airport averages over 180 inches of annual snowfall.

In addition to clearing Priority 1 areas in the allotted timeframe for commercial air carrier winter operational safety, the specified equipment will see extensive use on lower priority areas within the aircraft operational area (AOA). Snowfall rates at the airport can be extremely high, often exceeding 1 inch per hour. Heavy snow and ice can be expected along with extreme cold conditions.

**A.7 Other/optional equipment**

See Part B – High-Speed Rotary Plow Specification for required equipment.

**Part B – High-Speed Rotary Plow Specification**

**B.1** High-speed rotary plows and carrier vehicles must be in accordance with SAE ARP 5539, Rotary Plow with Carrier Vehicle. Additional Federal AIP/PFC specification requirement for SAE ARP 5539 is that for carrier vehicle controllability and safety, all-wheel drive must be provided.

**B.2** SAE International Aerospace Recommended Practice 5539, Rotary Plow with Carrier Vehicle (SAE ARP 5539) issued 2005-07, reaffirmed 2013-05, is hereby incorporated into this specification.

Supplemental owner-specific additions and clarifications to Section 4, Technical Requirements are included below.

4.1 General Description: Snow blower shall be a two-stage rotary type.

4.3.1 Rotary-Head Box: A scraper blade shall be fitted to the lower leading edge of the box which shall be removable and made of high carbon steel with carbide insert.

4.4 Minimum Performance Requirements:

a. See Part A.1

b. See Part A.2

c. See Part A.3

d. See Part A.4

e. Turning Radius:

i. wall to wall: 110' (55' radius) maximum

ii. curb to curb: 100' (50' radius) maximum

f. See Part A.6

4.5 Optional Equipment: Additional equipment that shall be included with the bid is listed below.

Carrier Vehicle – Engine and Transmission

a. Engine-Jacket Water Heater: Recirculating type with thermostatic control and weatherproof receptacle plug (minimum – 1500 watts).

b. Engine Oil Pan Heater: 300 watts.

c. Battery Warmer Pad: Approximately 50 to 100 watts per battery.

- d. Transmission Oil Pan Heater: Wattage as recommended by the transmission manufacturer.
- Carrier Vehicle – Operator Cab
  - a. Additional Door Handles: Handles shall be installed on lower part of vehicle cab door.
  - b. Auxiliary Cab Heater and Circulating Fans
  - c. Cab air conditioning system
  - d. Rear view Back-up Camera
  - e. Windows:
    - i. Extra Window in Lower Part of Cab Doors
    - ii. Reverse Slope Windshield
    - iii. Liquid deluge system for side windows, windshield, and rear view mirror with 20 gallon minimum capacity and easy accessible fill
    - iv. Electrically Operated Side Window Wipers
  - f. Seats:
    - i. Bostrom "T" Seat (or equivalent for driver and passenger sides)
    - ii. Heated Driver Seat
    - iii. Arm Rests for Operator Seat
    - iv. Air Suspension Seat
  - g. Cab Insulation Upgrade (to reduce exterior noise below 85 dBa)
  - h. Dual Electric Horns
  - i. Coat Hooks
  - j. Clock
  - k. Fire extinguisher, cab mounted, 10 lbs. ABC
  - l. Additional Lighting: **An all –LED sealed wiring and lighting system shall be required**
    - i. Auxiliary Cab Dome Light
    - ii. 2 LED remote control spotlights. Spotlights shall be Golight GL-30214 or equivalent. Lights shall be hardwired with dash mounted remote control. The location of the switches shall be coordinated with the airport before installation.
    - iii. Door Lights
    - iv. Whelen L40 Series LED Amber Beacon or equivalent (One on cab roof and one on rear engine cover)

#### Carrier Vehicle – Mechanical

- a. Special Starting Systems:
  - i. Dual Battery System
  - ii. Ether Cold Starting System
- b. Permanently Installed Battery Charger:
  - i. Maintenance Charging (0 to 25 amp capacity)
  - ii. Automatic Cutoff
  - iii. Connection:
    - a) Weather resistant and chassis mounted
    - b) Adaptable to 110 volt electrical outlet
    - c) Heavy duty
    - d) 20 amp capacity
- c. Engine Cooling:
  - i. Oversize Radiator
  - ii. Radiator Shutters (if compatible with engine design)
- d. Automatic Engine Shutdown: **An automatic engine shutdown system, equipped with an override switch to prevent engine damage due to low engine oil pressure, high coolant temperature or low coolant level.**
- e. Special Alternator: **Alternator(s) shall meet or exceed the electrical loading requirements set forth in Section 4.15.2. Upgraded or additional alternator(s) shall be installed to accommodate heated windshield operation with the engine operating at idle.**
- f. All Wheel or Articulated Steering: **For all-wheel steering systems, the rear drive-steer axle shall be controlled in the cab. All wheel steering shall provide for infinite discreet**

**point positioning of the steered wheel(s) throughout the designed steering limits of the components.**

g. Silicone Hoses

h. Extra Fuel Capacity: **250 gallons minimum**

i. Additional Corrosion Prevention: Corrosion preventatives shall conform to Federal Specification 297 D, Rustproofing of Commercial (Nontactical) Vehicles.

j. Quick Disconnect Hitch:

i. Semi-Automatic Hitch: The initial hook-up between carrier vehicle and hitching device shall be controlled from the vehicle cab with final lock-on accomplished manually at the vehicle/hitch interface. The hitch shall be capable of initial hookup even when minor angular differences exist between the plow attachment points and the hitching assembly. All manual locking devices shall ensure a safe and positive final coupling.

k. Tow Chain: Tow chains shall have a minimum link size of ½ inch (1.3cra).

#### Carrier Vehicle – Radio Transceivers

a. Each transceiver shall be equipped with its own microphone, antenna and remote speaker. VHF radios used to communicate with air traffic control facilities shall satisfy the criteria set forth in section 3 of Radio Technical Commission for Aeronautics document DO-186, "Minimum Performance Standards for Airborne Radio Communications Equipment Operating Within the Radio Frequency Range 117.975 to 137.000 MHz.," dated January 20, 1984. This document may be examined at any Federal Aviation Administration Regional Office or purchased from: RTCA Secretariat, One McPherson Square, 1425 K Street, NW, Suite 500, Washington, DC 20005. Transceivers using other frequencies shall meet applicable standards of the Federal Communications Commission.

b. Suppression of the electrical system, sufficient to assure positive operation of all radio equipment shall be furnished. All computerized components must be appropriately shielded to eliminate any potential interference from using two-way radio equipment from inside the vehicle.

c. All radios shall be installed, with location approved by the Sponsor, and include antennas, microphones and all appurtenances to complete the installation, tested and ready for operation. Radios to be installed include:

i. Aircraft Radio: Provide one (1) aviation band transceiver for air-to-ground communication. An acceptable model includes Icom Model IC-A120 Air Band Mobile Radio, or Sponsor approved equal. Channels including Ground, Tower/CTAF, AWOS, Minneapolis Center, and others shall be programmable as directed by the Sponsor.

ii. Company Radio: Provide one (1) two-way transceiver for maintenance crew ground-to-ground communication. An acceptable model includes Motorola XPR5000 Series Mobile Radio, or Sponsor approved equal. Unit shall operate on UHF 403-470 MHz, 450-512 MHz. Coordinate channel programming with Sponsor for SAW Airport Maintenance Frequency prior to delivery.

#### Rotary Plow – Engine

a. Engine-jacket water heater (1000 watt unit)

b. Engine oil pan heater (300 watt unit)

c. Battery warmer pad (500 watt unit)

#### 4.7.2 Dimensions and Clearances:

c. Maximum Overall Width: **The vehicle width is not restricted; however, width shall be within industry standards for the type of carrier vehicle specified.**

d. Maximum Overall Length: **The vehicle length is not restricted; however, length shall be within industry standards for the type of carrier vehicle specified.**

4.9.1 Transmission: **Transmission shall be fully automatic.**

4.9.2 Transfer Case: **Transfer case shall be a multi-speed design and shall be center differential with manual or automatic lockout type, or an overriding clutch type.**

4.10 Brake System: **Vehicle brake system shall be anti-lock type.**

4.11 Steering Mechanism: **All wheel steering shall be required. System shall be capable of front wheel steer, rear wheel steer, crab steer and coordinated steer.**

4.13 Wheels, Rims, Tires, and Tubes:

c. Spare Rim/Tire: A spare rim and tire set is required. If one size and configuration of tire and wheel cannot be immediately interchanged to all positions on the vehicle, one spare rim and tire set shall be provided for each configuration.

4.14.2 Lines and Fittings: **Hoses shall be rated throughout the full vehicle operational temperature range as specified.**

4.15.3 An on-board self-regulating battery charger is required.

4.15.4 Starting Device: The following electrical system shall be required:

a. 12 volt electrical and starting

4.16 Lighting System: **An all-LED sealed wiring lighting system shall be required for reduced maintenance costs and improved lighting system reliability.**

4.17.5 Windows and Windshield: **An electrically heated windshield shall be provided. Cab glass shall be clear (non-tinted).**

4.19 Painting, Marking, and Lighting of Vehicles: Vehicle lettering and logo, on each side and as large as practical shall be provided as coordinated with the Airport Sponsor. Decals must be one piece and applied professionally. No decal shall be placed on the vehicle until the Airport Sponsor has approved its design and location.

4.20.7 Accessories and Tools: "The carrier vehicle shall be equipped with tire tools, a jack, shear pins, and specialized tools as specified by the purchaser. They shall be kept ... as required by the purchaser." **Carrier vehicle shall be equipped with tire tools, jack, shear pins, and any specialized tools required for routine servicing of the vehicle and its auxiliary equipment. Items typically required for minor field repairs shall be kept in a secure on-board enclosure. Items for large repairs and servicing may be kept in the maintenance facility.**

Part C – Operational Needs Detail

## **Part C – Operational Needs Detail Sheet**

### **C.1 Operating Conditions**

The unit must be capable of operating at temperatures as low as -40°F to as high as 70°F.

The unit must be capable of cold soaked starting at temperatures as low as -40°F to as high as 70°F.

The unit will be stored:

- ☐ Outside at temperatures as low as °F
- ☐ Outside, at temperatures as low as °F while connected to electric power for installed heaters, battery chargers, etc. Power available is Volts AC, Amps, Hertz
- ☐ Indoors, in an unheated building at temperatures as low as °F
- ☒ **Indoors, in a building heated to 50°F**

**The unit will be used to remove snow and ice from:**

- ☒ **Runways**
- ☒ **Taxiways**
- ☒ **Ramp & Gate Areas**
- ☒ **Roadways**
- ☐ Parking Lots
- ☐ Piles into Trucks for removal

☐ Piles into Trucks for removal

☒ **Other Purposes (describe): FAA Navigational Aid access roads**

**The unit will transit (transit is defined as self powered movement with the rotary plow installed and the unit fully operational):**

- ☒ **Aeronautical areas only**
- ☐ Public roads and highways

If the unit must be moved off site for repair or maintenance which method will you use?

- ☐ Unit will be driven with rotary plow installed to repair facility
- ☐ Unit will be driven with rotary plow removed to repair facility

☒ **4.20.7 Accessories and Tools:** "The carrier vehicle shall be equipped with tire tools, a jack, shear pins, and specialized tools as specified by the purchaser. They shall be kept ... as required by the purchaser." Carrier vehicle shall be equipped with tire tools, jack, shear pins, and any specialized tools required for routine servicing of the vehicle and its auxiliary equipment. Items typically required for minor field repairs shall be kept in a secure on-board enclosure. Items for large repairs and servicing may be kept in the maintenance facility.

**Part C – Operational Needs Detail** ☒ **Airport runway taxiway and ramp limits only**

☐ State and local highway load limits (specify):

☐ Local bridge limits (specify):

☐ Other local weight restrictions (specify):

Restrictive conditions relative to length, width or height:

**X Overall length is not restricted**

**Max overall length with rotary plow installed must not exceed ft**

**Max overall length with rotary plow removed must not exceed ft**

**X Overall width is not restricted**

**Max overall width with rotary plow installed must not exceed ft**

**Max overall width with rotary plow removed must not exceed ft**

**Minimum clearing width must be not less than 8 ft**

☐ Overall height is not restricted

☒ **Max overall height with rotary plow & chute installed must not exceed 13 ft**

☒ **Max overall width with rotary plow & chute removed must not exceed 13 ft**

## **C.2 Operational Requirements**

Rotary Plow Certified Performance Requirements:

Minimum snow blowing capacity 5000 tons/hour

Minimum cast distance 100 ft

Minimum transport speed 45 mph

Operating Speed

Snow Density

Snow shear strength

Maximum turning radius

☒ **low speed (less than 25 mph)**

☒ **high speed (specify speed) 35 mph**

☒ **20 - 40 lb/cu ft (std)**

☐ (other) lb/cu ft

☐ 250 ☒ **250 - 500** ☐ 500 - 600

110 ft (wall to wall)

Site Specific Requirements:

Operation on fuel other than ASTM D 2 (specify): N/A

Increased/Decreased fuel capacity (specify) N/A hours of operation (250 gallons min.)

Engine exhaust discharge location (specify): Above cab

External power connector type & location (specify):

☐ Connector type (NEMA) (Manufacturer's standard)

☐ Connector location (Manufacturer's standard)

☒ **Special head lift requirements for local conditions: 8 inches minimum (std)**

☐ Spot casting chute (Not Required)

☐ Ice breaking teeth on auger ribbons (Not Required)

☒ **Other (specify)**

☒ **Windshield wipers shall be equipped with a shaker / vibration system. Activation of the system shall be controlled by the equipment operator via cab-mounted switch.**

☒ **Auxiliary (blower) engine shall be equipped with a pyrometer and prominently displayed cab-mounted EGT gauge for monitoring turbocharger exhaust intake temperature.**

- ☒ Hydraulic system shall be equipped with an audible and visible alarm, easily distinguished by the equipment operator in the cab, to indicate a low fluid level condition.
- ☒ One (1) spare heated windshield shall be provided in the Base Bid.
- ☒ One (1) complete spare caster tire / wheel assembly shall be provided for the blower head in the Base Bid.
- ☒ One (1) complete set of spare impeller blades shall be provided in the Base Bid.
- ☒ Multi-day factory training for routine and advanced electronic vehicle maintenance and troubleshooting.
- ☒ AM/FM/Weather radio. Include AM/FM/Weather band radio with digital clock and speaker system.

**BID ALTERNATE NO. 1**  
for  
**4x4 Self-Propelled High Speed Rotary Plow**  
**SAWYER INTERNATIONAL AIRPORT**  
**GWINN, MICHIGAN**

**Extended Warranty**

The bidder shall include the manufacturer's standard warranty (minimum one year or as identified in the applicable SAE specification) for all equipment and materials in the base bid. The following extended warranties shall be priced. The Sponsor may elect to award or not award Alternate No. 1 in its entirety, or may elect to award portions thereof to the successful bidder. Alternate bid prices will NOT be used in determining the successful bidder for this procurement.

**General.** The Bidder shall guarantee in writing that for a period of five (5) years from the commencement of operation, they will, at their own expense and without expense to the Sponsor, provide transportation if necessary and replace all failed parts and make all repairs that may be necessary and required by reason of defective design, workmanship or material in any part of the assembly of the equipment herein specified.

The physical location of the completion of all necessary warranty work over the course of both the standard warranty and 5-year extended warranty shall be based on the extent of warranty repair work necessary and may require the unit to be transported off-site for major items or repairs otherwise unable to be completed on-site at Sawyer International Airport. All warranty work including transportation costs shall be completed at no cost to the Sponsor.

**EW-1. 5-year Extended Warranty – Vehicle chassis.**

**EW-2. 5-year Extended Warranty – Engine.**

**EW-3 5-year Extended Warranty – Transmission.**

**EW-4 5-year Extended Warranty – Plow and underbody scraper**