



REQUEST FOR BID

Department of Administration
Purchasing Division

BID NUMBER	110050
RFB TITLE	TRUCK CHASSIS EQUIPMENT AND SET UP, OSHKOSH "HANDS FREE" DIN HITCH W/ J-HOOK, OSHKOSH STRAIGHT J 22-FOOT POWER REVERSIBLE POLYETHYLENE STRAIGHT RUNWAY PLOW, DURACCLASS SL316 DUMP BODY, AND ACCESSORIES.
PURPOSE	The purpose of this RFB is to solicit bids from responsive and responsible bidders to furnish and install equipment and accessories mentioned above. Complete description and technical specifications are included.
DEADLINE FOR BID SUBMISSIONS	2:00 P.M. Central Time June 9, 2010 Late bids, faxed bid, electronic mail bids or unsigned bid will be rejected
SUBMIT BID TO THIS ADDRESS	DANE COUNTY PURCHASING DIVISION ROOM 425 CITY COUNTY BUILDING 210 MARTIN LUTHER KING JR BLVD MADISON, WI 53703-3345
REQUIRED BID COPIES	Bidders must submit one (1) original and (1) copy (Bid forms only)
PLEASE DIRECT ALL INQUIRES TO	NAME Francisco Silva
	TITLE Purchasing Agent
	PHONE # 608/267-3523
	FAX # 608/266-4425
	EMAIL silva@co.dane.wi.us
	WEB SITE www.danepurchasing.com
THIS RFB IS COMPRISED OF: Part 1- General Guidelines & Information Part 2 - Bid Forms Part 3- Detailed Specifications	RESPONSE CHECKLIST: <input type="checkbox"/> Signed Affidavit – Completed Bid Forms <input type="checkbox"/> Submit one original and required bid copies <input type="checkbox"/> Label the lower corner of your bid with the Bid number
DATE BID ISSUED: 5/26/10	

**Part 1-
General Guidelines and Information**

1. Introduction

Dane County invites and will accept bids for item(s) outlined in Part 3 Detail Specifications. The County as represented by Purchasing Division, intends to use the results of this process to purchase item(s).

2. Clarification/Questions:

Any questions concerning this RFB must be submitted in writing by mail, fax or email by the date indicated below. Requests submitted after that time **WILL NOT** be considered. All inquiries must be directed to the person indicated on the cover page.

June 2, 2010	Last day for submitting written inquiries (2:00 p.m. Central Time)
June 3, 2010	Post supplements, revisions or answers to questions to the RFB on the Purchasing Division web site at www.danepurchasing.com :

3. Addendums:

In the event that it becomes necessary to provide additional clarifying data or information, or to revise any part of this RFB, revisions/amendments and/or supplements will be posted on the Purchasing Division web site at www.danepurchasing.com. Bidders are reminded to regularly monitor the web site for any such postings. Bidders must acknowledge the receipt/review of any addendum(s) on the bottom of the Signature Affidavit.

The Purchasing Division has the sole authority for modifications of this specifications and or bid.

4. Vendor Registration Program:

All bidders wishing to submit a bid/proposal must be a paid registered vendor with Dane County. Prior to the bid opening, you can complete a registration form online by visiting our web site at www.danepurchasing.com or you can obtain a Vendor Registration Form by calling 608.266.4131. Your completed Vendor Registration Form and Registration Fee must be received for your bid to be considered for an award.

5. Acceptance:

Bid shall remain fixed and valid for acceptance for sixty (60) calendar days starting on the due date of the bid.

Dane County reserves the right to accept any part of this bid deemed to be in the best interest of the County. The County also retains the right to accept or reject any or all bids.

6. Payment Terms And Invoicing:

Unless otherwise agreed, Dane County will pay properly submitted vendor invoices within thirty (30) days of receipt of goods or services, or combination of both. Payment will not be made until

goods or services are delivered, installed (if required), and accepted as specified. Invoices presented for payment must be submitted in accordance with instructions contained on the purchase order.

State Sale Tax/Federal Excise Tax: Bids should not include Federal Excise and Wisconsin Sales Taxes, as Dane County is exempt from payment of such taxes. Sec. State Statute No. 77.54(9a). Wis. Stats. The Dane County's CES number is ES 41279.

7. Delivery

Quote price FOB destination. Price must include shipping. If there is a freight or transportation increase prior to delivery of the unit, the additional increase must be at the dealer/manufacturer's expense.

8. Award:

The County will award the bid to the responsive and responsible bidder whose bid is most advantageous to the County. In determining the most advantageous bid, the County will consider criteria such as, but not limited to, cost, bidder's past performance and/or service reputation, and service capability, quality of the bidder's staff or services, customer satisfaction, references, the extent to which the bidder's staff or services meet the County's needs, bidder's past relationship with the County, total long term cost to the County, fleet continuity and any other relevant criteria listed elsewhere in this solicitation. The County may opt to establish alternate selection criteria to protect its best interest or meet performance or operational standards.

9. Ordering/Acceptance:

Written notice of award to a vendor in the form of a purchase order or other document, mailed or delivered to the address shown on the bid will be considered sufficient notice of acceptance of bid.

10. Government Standards

All materials, equipment, and supplies provided to the County must fully comply with all safety requirements as set forth by the Wisconsin Department of Commerce and all applicable OSHA Standards. Bidders shall comply with all local, state and federal regulations, directives and laws.

11. Warranty

The length, time, and conditions of warranty must be attached to or stated in the bid document. The seller and/or manufacturer warrants that the goods sold hereunder will be merchantable quality, will conform to applicable specifications, and will be free from defects in material and workmanship and will be fit for the particular purpose intended.

Warranty does not commence until after the complete unit has been accepted and placed into service by the user agency.

Bidder shall indicate the name and the geographical location of the nearest authorized dealer to perform subsequent warranty service. This information shall be stated in the pricing section of bid or otherwise specified.

STANDARD TERMS AND CONDITIONS

(Request For Bids/Proposals/Contracts)

DCO CHS 19.25 Rev. 07/07

1.0 **APPLICABILITY:** The terms and conditions set forth in this document apply to Requests for Proposals (RFP), Bids and all other transactions whereby the County of Dane acquires goods or services, or both.

1.1 **ENTIRE AGREEMENT:** These Standard Terms and Conditions shall apply to any contract, including any purchase order, awarded as a result of this request. Special requirements of a resulting contract may also apply. Said written contract with referenced parts and attachments shall constitute the entire agreement, and no other terms and conditions in any document, acceptance, or acknowledgment shall be effective or binding unless expressly agreed to in writing by the County.

1.2 **DEFINITIONS:** As used herein, "vendor" includes a provider of goods or services, or both, who is responding to an RFP or a bid, and "bid" includes a response to either an RFP or a bid.

2.0 **SPECIFICATIONS:** The specifications in this request are the minimum acceptable. When specific manufacturer and model numbers are used, they are to establish a design, type of construction, quality, functional capability or performance level, or any combination thereof, desired. When alternates are proposed, they must be identified by manufacturer, stock number, and such other information necessary to establish equivalency. Dane County shall be the sole judge of equivalency. Vendors are cautioned to avoid proposing alternates to the specifications which may result in rejection of their bid.

3.0 **DEVIATIONS AND EXCEPTIONS:** Deviations and exceptions from terms, conditions, or specifications shall be described fully, on the vendor's letterhead, signed, and attached to the bid. In the absence of such statement, the bid shall be accepted as in strict compliance with all terms, conditions, and specifications and vendor shall be held liable for injury resulting from any deviation.

4.0 **QUALITY:** Unless otherwise indicated in the request, all material shall be first quality. No pre-owned, obsolete, discontinued or defective materials may be used.

5.0 **QUANTITIES:** The quantities shown on this request are based on estimated needs. The County reserves the right to increase or decrease quantities to meet actual needs.

6.0 **DELIVERY:** Deliveries shall be FOB destination freight prepaid and included unless otherwise specified. County will reject shipments sent C.O.D. or freight collect.

7.0 **PRICING:** Unit prices shown on the bid shall be the price per unit of sale, e.g., gal., cs., doz., ea., etc., as stated on the request or contract. For any given item, the quantity multiplied by the unit price shall establish the extended price, the unit price shall govern in the bid evaluation and contract administration.

7.1 Prices established in continuing agreements and term contracts may be lowered due to market conditions, but prices

shall not be subject to increase for the term specified in the award. Vendor shall submit proposed increases to the contracting department thirty (30) calendar days before the proposed effective date of the price increase. Proposed increases shall be limited to fully documented cost increases to the vendor that are demonstrated to be industry wide. Price increases may not be granted unless they are expressed in bid documents and contracts or agreements.

7.2 Submission of a bid constitutes bidder's certification that no financial or personal relationship exists between the bidder and any county official or employee except as specially set forth in writing attached to and made a part of the bid. The successful bidder shall disclose any such relationship which develops during the term of the contract.

8.0 **ACCEPTANCE-REJECTION:** Dane County reserves the right to accept or reject any or all bids, to waive any technicality in any bid submitted and to accept any part of a bid as deemed to be in the best interests of the County. Submission of a proposal or a bid constitutes the making of an offer to contract and gives the County an option valid for 60 days after the date of submission to the County.

8.1 Bids **MUST** be dated and time stamped by the Dane County Purchasing Division Office on or before the date and time that the bid is due. Bids deposited or time stamped in another office will be rejected. Actual receipt in the office of the purchasing division is necessary; timely deposit in the mail system is not sufficient. **THERE WILL BE NO EXCEPTIONS TO THIS POLICY.**

9.0 **METHOD OF AWARD:** Award shall be made to the lowest responsible, responsive vendor conforming to specifications, terms, and conditions, or to the most advantageous bid submitted to the County on a quality versus price basis. Among other things, quantities, time of delivery, purpose for which required, competency of vendor, the ability to render satisfactory service and past performance will be considered in determining responsibility.

10.0 **ORDERING/ACCEPTANCE:** Written notice of award to a vendor in the form of a purchase order or other document, mailed or delivered to the address shown on the bid will be considered sufficient notice of acceptance of bid. A formal contract containing all provisions of the contract signed by both parties shall be used when required by the Dane County Purchasing Division.

11.0 **PAYMENT TERMS AND INVOICING:** Unless otherwise agreed, Dane County will pay properly submitted vendor invoices within thirty (30) days of receipt of goods or services, or combination of both. Payment will not be made until goods or services are delivered, installed (if required), and accepted as specified. Invoices presented for payment must be submitted in accordance with instructions contained on the purchase order.

11.1 **NO WAIVER OF DEFAULT:** In no event shall the making of any payment or acceptance of any service or product required by this Agreement constitute or be construed

as a waiver by County of any breach of the covenants of the Agreement or a waiver of any default of the successful vendor, and the making of any such payment or acceptance of any such service or product by County while any such default or breach shall exist shall in no way impair or prejudice the right of County with respect to recovery of damages or other remedy as a result of such breach or default.

12.0 TAXES: The County and its departments are exempt from payment of all federal tax and Wisconsin state and local taxes on its purchases except Wisconsin excise taxes as described below. The State of Wisconsin Department of Revenue has issued tax exempt number ES41279 to Dane County.

12.1 The County is required to pay the Wisconsin excise or occupation tax on its purchase of beer, liquor, wine, cigarettes, tobacco products, motor vehicle fuel and general aviation fuel. The County is exempt from Wisconsin sales or use tax on these purchases. The County may be subject to other states' taxes on its purchases in that state depending on the laws of that state. Vendors performing construction activities are required to pay state use tax on the cost of materials.

13.0 GUARANTEED DELIVERY: Failure of the vendor to adhere to delivery schedules as specified or to promptly replace rejected materials shall render the vendor liable for all costs in excess of the contract price when alternate procurement is necessary. Excess costs shall include administrative costs.

14.0 APPLICABLE LAW AND VENUE: This contract shall be governed under the laws of the State of Wisconsin, and venue for any legal action between the parties shall be in Dane County Circuit Court. The vendor 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.

15.0 ASSIGNMENT: No right or duty in whole or in part of the vendor under this contract may be assigned or delegated without the prior written consent of Dane County.

16.0 NONDISCRIMINATION/AFFIRMATIVE ACTION: During the term of this Agreement the vendor agrees, in accordance with sec. 111.321, Wis. Stats., and Chapter 19 of the Dane County Code of Ordinances, not to discriminate against any person, whether an applicant or recipient of services, an employee or applicant for employment, on the basis of age, race, ethnicity, religion, color, gender, disability, marital status, sexual orientation, national origin, cultural differences, ancestry, physical appearance, arrest record or conviction record, military participation or membership in the national guard, state defense force or any other reserve component of the military forces of the United States, or political beliefs. The vendor shall provide a harassment-free work environment. These provisions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment, advertising, layoff, termination, training, including apprenticeships, rates of pay or other forms of compensation.

16.1 Vendors who have twenty (20) or more employees and a contract of twenty thousand dollars (\$20,000) or more must submit a written affirmative action plan to the County's Contract Compliance Officer within fifteen (15) working days of

the effective date of the contract. The County may elect to accept a copy of the current affirmative action plan filed with and approved by a federal, state or local government unit.

16.2 The vendor agrees to post in conspicuous places, available for employees and applicants for employment, notices setting forth the provisions of this Agreement as they relate to affirmative action and nondiscrimination.

16.3 Failure to comply with these Terms and Conditions may result in the vendor being debarred, termination of the contract and/or withholding of payment.

16.4 The vendor agrees to furnish all information and reports required by Dane County's Contract Compliance Officer as the same relate to affirmative action and nondiscrimination, which may include any books, records, or accounts deemed appropriate to determine compliance with Chapter 19, D.C. Ords., and the provisions of this Agreement.

16.5 *Americans with Disabilities Act*: The vendor agrees to the requirements of the ADA, providing for physical and programmatic access to service delivery and treatment in all programs and activities.

17.0 PATENT, COPYRIGHT AND TRADEMARK INFRINGEMENT: The vendor guarantees goods sold to the County were manufactured or produced in accordance with applicable federal labor laws, and that the sale or use of the articles described herein do not infringe any patent, copyright or trademark. The vendor covenants that it will, at its own expense, defend every suit which shall be brought against the County (provided that such vendor is promptly notified of such suit, and all papers therein are delivered to it) for any alleged infringement of any patent, copyright or trademark by reason of the sale or use of such articles, and agrees that it will pay all costs, damages, and profits recoverable in any such suit.

18.0 SAFETY REQUIREMENTS: All materials, equipment, and supplies provided to the County must fully comply with all safety requirements as set forth by the Wisconsin Department of Commerce and all applicable OSHA Standards.

18.1 MATERIAL SAFETY DATA SHEET: If any item(s) on an order(s) resulting from this award(s) is a hazardous chemical, as defined under 29 CFR 1910.1200, provide one (1) copy of the Material Safety Data Sheet for each item with the shipped container(s) and one (1) copy with the invoice(s).

19.0 WARRANTY: Unless specifically expressed otherwise in writing, goods and equipment purchased as a result of this request shall be warranted against defects by the vendor for one (1) year from date of receipt. An equipment manufacturer's standard warranty shall apply as a minimum and must be honored by the vendor. The time limitation in this paragraph does not apply to the warranty provided in paragraph 27.0.

20.0 INSURANCE RESPONSIBILITY: The successful vendor shall:

20.1 Maintain worker's compensation coverage as required by Wisconsin Statutes, for all employees engaged in the work. The successful vendor shall furnish evidence of adequate worker's compensation insurance.

20.2 Indemnify, hold harmless and defend County, its boards, commissions, agencies, officers, employees and representatives against any and all liability, loss (including, but not limited to, property damage, bodily injury and loss of life), damages, costs or expenses which County, its officers, employees, agencies, boards, commissions and representatives may sustain, incur or be required to pay by reason of the successful vendor furnishing the services or goods required to be provided under the contract with the County, provided, however, that the provisions of this paragraph shall not apply to liabilities, losses, charges, costs, or expenses caused by or resulting from the acts or omissions of County, its agencies, boards, commissions, officers, employees or representatives. The obligations of the successful vendor under this paragraph shall survive the expiration or termination of any contract resulting from the successful vendor's bid.

20.3 At all times during the term of this Agreement, keep in full force and effect comprehensive general liability and auto liability insurance policies (as well as professional malpractice or errors and omissions coverage, if the services being provided are professional services) issued by a company or companies authorized to do business in the State of Wisconsin and licensed by the Wisconsin Insurance Department, with liability coverage provided for therein in the amount of at least \$1,000,000 CSL (Combined Single Limits). Coverage afforded shall apply as primary. County shall be given ten (10) days advance notice of cancellation or non-renewal. Upon execution of this Agreement, the successful vendor shall furnish County with a certificate of insurance listing County as an additional insured and, upon request, certified copies of the required insurance policies. If the successful vendor's insurance is underwritten on a Claims-Made basis, the Retroactive Date shall be prior to or coincide with the date of this Agreement, the Certificate of Insurance shall state that coverage is Claims-Made and indicate the Retroactive Date, the successful vendor shall maintain coverage for the duration of this Agreement and for two years following the completion of this Agreement. The successful vendor shall furnish County, annually on the policy renewal date, a Certificate of Insurance as evidence of coverage. It is further agreed that the successful vendor shall furnish the County with a 30-day notice of aggregate erosion, in advance of the Retroactive Date, cancellation, or renewal. It is also agreed that on Claims-Made policies, either the successful vendor or County may invoke the tail option on behalf of the other party and that the Extended Reporting Period premium shall be paid by the successful vendor. In the event any action, suit or other proceeding is brought against County upon any matter herein indemnified against, County shall give reasonable notice thereof to the successful vendor and shall cooperate with the successful vendor's attorneys in the defense of the action, suit or other proceeding.

20.4 The County reserves the right to require higher or lower insurance limits where County deems necessary.

20.5 In case of any sublet of work under this Agreement, the successful vendor shall furnish evidence that each and every subvendor has in force and effect insurance policies providing coverage identical to that required of the successful vendor.

21.0 CANCELLATION: County reserves the right to terminate any Agreement due to non-appropriation of funds or failure of performance by the vendor. This paragraph shall not
BID NO.110050

relieve County of its responsibility to pay for services or goods provided or furnished to County prior to the effective date of termination.

22.0 PUBLIC RECORDS ACCESS: It is the intention of the County to maintain an open and public process in the solicitation, submission, review, and approval of procurement activities. Bid openings are public unless otherwise specified. Records are not available for public inspection prior to issuance of the notice of intent to award or the award of the contract. Bid results may be obtained by visiting the Dane County Purchasing Office Monday – Friday, between 8:00 a.m. and 4:00 p.m. Prior appointment is advisable.

22.1 PROPRIETARY INFORMATION: If the vendor asserts any of its books and records of its business practices and other matters collectively constitute a trade secret as that term is defined in s. 134.90(1)(c), Wis. Stats., County will not release such records to the public without first notifying the vendor of the request for the records and affording the vendor an opportunity to challenge in a court of competent jurisdiction the requester's right to access such records. The entire burden of maintaining and defending the trade secret designation shall be upon the vendor. The vendor acknowledges and agrees that if the vendor shall fail, in a timely manner, to initiate legal action to defend the trade secret designation or be unsuccessful in its defense of that designation, County shall be obligated to and will release the records.

22.2 Data contained in a bid, all documentation provided therein, and innovations developed as a result of the contracted commodities or services cannot be copyrighted or patented. All data, documentation, and innovations shall be the property of the County.

22.3 Any material submitted by the vendor in response to this request that the vendor considers confidential and proprietary information and which vendor believes qualifies as a trade secret, as provided in section 19.36(5), Wis. Stats., must be identified on a designation of Confidential and Proprietary Information form. In any event, bid prices will not be held confidential after award of contract.

23.0 RECYCLED MATERIALS: Dane County is required to purchase products incorporating recycled materials whenever technically and economically feasible. Vendors are encouraged to bid products with recycled content which meet specifications.

24.0 PROMOTIONAL ADVERTISING: Reference to or use of Dane County, any of its departments or sub-units, or any county official or employee for commercial promotion is prohibited.

25.0 ANTITRUST ASSIGNMENT: The vendor and the County of Dane recognize that in actual economic practice, overcharges resulting from antitrust violation are in fact usually borne by the County of Dane (purchaser). Therefore, the successful vendor hereby assigns to the County of Dane any and all claims for such overcharges as to goods, materials or services purchased in connection with this contract.

26.0 RECORDKEEPING AND RECORD RETENTION-PUBLIC WORKS CONTRACTS: The successful bidder on a public works contract shall comply with the State of Wisconsin prevailing wage scale and shall establish and maintain

adequate payroll records for all labor utilized as well as records for expenditures relating to all subcontracts, materialmen and suppliers. All records must be kept in accordance with generally accepted accounting procedures. The County shall have the right to audit, review, examine, copy, and transcribe any such records or documents. The vendor will retain all documents applicable to the contract for a period of not less than three (3) years after final payment is made.

26.1 RECORDKEEPING AND RECORD RETENTION-COST REIMBURSEMENT CONTRACTS: Where payment to the vendor is based on the vendor's costs, vendor shall establish and maintain adequate records of all expenditures incurred under the contract. All records must be kept in accordance with generally accepted accounting procedures. The County contracting agency shall have the right to audit, review, examine, copy, and transcribe any pertinent records or documents relating to any contract resulting from this bid/proposal held by the vendor. The vendor will retain all documents applicable to the contract for a period of not less than three (3) years after final payment is made.

27.0 YEAR 2000 COMPLIANT: Vendor warrants that: a) all goods, services and licenses sold otherwise provided pursuant to this procurement have been tested for and are fully year 2000 compliant, which means they are capable of correctly and consistently handling all date-based functions before, during and after the year 2000; b) the date change from 1999 to 2000, or any other date changes, will not prevent such goods, services or licenses from operating in a merchantable manner, for the purposes intended and in accordance with all applicable plans and specifications and without interruption before, during and after the year 2000; and c) vendor's internal systems, and those of vendor's vendors, are year 2000 compliant, such that vendor will be able to deliver such goods, services and licenses as required by this procurement.

28.0 LIVING WAGE REQUIREMENT: The vendor shall, where appropriate, comply with the County's Living Wage requirements as set forth in section 25.015, Dane County Ordinances.

28.01 In the event its payroll records contain any false, misleading or fraudulent information, or if the vendor fails to comply with the provisions of s. 25.015, D.C. Ords., the County may withhold payments on the contract, terminate, cancel or suspend the contract in whole or in part, or, after a due process hearing, deny the vendor the right to participate in bidding on future County contracts for a period of one (1) year

after the first violation is found and for a period of three (3) years after a second violation is found.

- 28.02 Bidders are exempt from the above requirements if:
- The maximum value of services to be provided is less than \$5,000;
 - The bid involves only the sale of goods to the County;
 - The bid is for professional services;
 - The bid is for a public works contract where wages are regulated under s. 62.293, Wis. Stats.;
 - The bidder is a school district, a municipality, or other unit of government;
 - The service to be provided is residential services at an established per bed rate;
 - The bidder's employees are persons with disabilities working in employment programs and the successful bidder holds a current sub-minimum wage certificate issued by the U.S. Department of Labor or where such a certificate could be issued but for the fact that the employer is paying a wage higher than the minimum wage;
 - The bidder is an individual providing services to a family member; or
 - The bidder's employees are student interns.

28.03 COMPLIANCE WITH FAIR LABOR STANDARDS. During the term of this Agreement, PROVIDER shall report to the County Contract Compliance Officer, within ten (10) days, any allegations to, or findings by the National Labor Relations Board (NLRB) or Wisconsin Employment Relations Commission (WERC) that PROVIDER has violated a statute or regulation regarding labor standards or relations within the seven years prior to entering this Agreement. If an investigation by the Contract Compliance Officer results in a final determination that the matter adversely affects PROVIDER'S responsibilities under this Agreement, and which recommends termination, suspension or cancellation of this agreement, the County may take such action.

28.04 PROVIDER may appeal any adverse finding by the Contract Compliance Officer as set forth in sec. 25.015(11)(c) through (e).

28.05 PROVIDER shall post the following statement in a prominent place visible to employees: "As a condition of receiving and maintaining a contract with Dane County, this employer shall comply with federal, state and all other applicable laws prohibiting retaliation or union organizing."

BIDDER COVER PAGE SIGNATURE AFFIDAVIT	
NAME OF FIRM:	
STREET ADDRESS:	
CITY, STATE, ZIP	
CONTACT PERSON:	
PHONE #:	
FAX #:	
EMAIL:	

In signing this bid, we also 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; that this bid has not been knowingly disclosed prior to the opening of bids to any other bidder or competitor; that the above statement is accurate under penalty of perjury.

The undersigned, submitting this bid, hereby agrees with all the terms, conditions, and specifications required by the County in this Request for Bid, and declares that the attached bid and pricing are in conformity therewith.

Signature

Title

Name (type or print)

Date

Addendums -This firm hereby acknowledges receipt / review of the following addendum(s) (If any)

Addendum # _____ Addendum # _____ Addendum # _____ Addendum # _____

VENDOR REGISTRATION CERTIFICATION

Per Dane County Ordinance, Section 62.15, “Any person desiring to bid on any county contract must register with the purchasing manager and pay an annual registration fee of \$20.”

Your completed Vendor Registration Form and Registration Fee must be received for your bid to be considered for an award. Your bid/proposal may not be evaluated for failure to comply with this provision.

Complete a registration form online by visiting our web site at www.danepurchasing.com.. You will prompted to create a username and a password and you will receive a confirmation message, than log back in and complete the registration. Once your registration is complete you will receive a second confirmation. Retain your user name and password for ease of re-registration in future years.

Payment may be made via credit card on-line or by check in the mail or in person at the Purchasing Division office. If paying by check make check payable to Dane County Treasurer and indicate your federal identification number (FIN) on the subject line.

CERTIFICATION

The undersigned, for and on behalf of the **PROPOSER, BIDDER OR APPLICANT** named herein, certifies as follows:

- This firm is a paid, registered vendor with Dane County in accordance with the bid terms and conditions.

Vendor Number # _____

Paid until _____

Date Signed: _____

Officer or Authorized Agent

Business Name

PRICE PROPOSAL	
NAME OF FIRM:	

For the price(s) listed below, our firm hereby offers to provide the following item(s) in accordance with the specifications of this bid. Pricing must include delivery

List Equipment you are bidding Year /Make/Model:

Warranty: _____

Nearest service/parts location: _____

Indicate delivery days after receipt of order: _____

TOTAL DELIVERED PRICE: \$ _____

Sales Tax

Bids should not include Federal Excise and Wisconsin Sales Taxes, as Dane County is exempt from payment of such taxes. Sec.State Statute No. 77.54(9a). Wis. Stats. The Dane County's CES number is ES 41279.

Payment terms: Net 30

Quote/Bid price delivered FOB Destination To:

Dane County Regional Airport
2601 Darwin Road
Madison, WI 53704

VENDOR REGISTRATION PROGRAM

Per Dane County Ordinance, Section 62.15, “Any person desiring to bid on any county contract must register with the purchasing manager and pay an annual registration fee of \$20.”

Your completed Vendor Registration Form and Registration Fee must be received for your bid to be considered for an award. Your bid/proposal may not be evaluated for failure to comply with this provision.

Complete a registration form online by visiting our web site at www.danepurchasing.com. You will be prompted to create a username and a password and you will receive a confirmation message, then log back in and complete the registration. Once your registration is complete you will receive a second confirmation. Retain your user name and password for ease of re-registration in future years.

Payment may be made via credit card on-line or by check in the mail or in person at the Purchasing Division office. If paying by check make check payable to Dane County Treasurer and indicate your federal identification number (FIN) on the subject line.

CERTIFICATION

The undersigned, for and on behalf of the **PROPOSER, BIDDER OR APPLICANT** named herein, certifies as follows:

- This firm is a paid, registered vendor with Dane County in accordance with the bid terms and conditions.

Vendor Number # _____

Paid until _____

Date Signed: _____

Officer or Authorized Agent

Business Name

FAIR LABOR PRACTICES CERTIFICATION

Dane County Ordinance 25.11(28)

The undersigned, for and on behalf of the PROPOSER, BIDDER OR APPLICANT named herein, certifies as follows:

1. That he or she is an officer or duly authorized agent of the above-referenced PROPOSER, BIDDER OR APPLICANT, which has submitted a proposal, bid or application for a contract with the county of Dane.

2. That PROPOSER, BIDDER OR APPLICANT has: (Check One)

_____ not been found by the National Labor Relations Board ("NLRB") or the Wisconsin Employment Relations Commission ("WERC") to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the date this Certification is signed.

_____ been found by the National Labor Relations Board ("NLRB") or the Wisconsin Employment Relations Commission ("WERC") to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the date this Certification is signed

Date Signed: _____

Officer or Authorized Agent

Business Name

NOTE: You can find information regarding the violations described above at:
www.nlr.gov and <http://werc.wi.gov>.

For Reference Dane County Ord. 28.11 (28) is as follows:

(28) BIDDER RESPONSIBILITY. (a) Any bid, application or proposal for any contract with the county, including public works contracts regulated under chapter 40, shall include a certification indicating whether the bidder has been found by the National Labor Relations Board (NLRB) or the Wisconsin Employment Relations Committee (WERC) to have violated any statute or regulation regarding labor standards or relations within the last seven years. The purchasing manager shall investigate any such finding and make a recommendation to the committee, which shall determine whether the conduct resulting in the finding affects the bidder's responsibility to perform the contract.

If you indicated that you have been found by the NLRB or WERC to have such a violation, you must include a copy of any relevant information regarding such violation with your proposal, bid or application.

Part 3 – Detailed Specifications

[Bid Forms](#)
[Submit With Bid](#)

Specifications Overview

Dane County as represented by the Purchasing Division will accept bids for the purchase of specified item(s) as described further in this document.

The intended user agency is: Dane County Regional Airport

Bidder shall complete every space in the area provided with either a check mark to indicate the item being bid is exactly as specified (**Comply**), or deviates from bid specification (**Does Not Comply**). Any deviation from the minimum specifications stated herein must be identified in detail on the form provided and must include a description of how the proposed item/s differ from the bid requirements, along with detailed justification for such deviation. Bidder shall include photos and schematics as necessary, for complete clarification.

The specifications below describe an acceptable unit(s) /item(s). Minor variations in specification may be accepted if, in the opinion of County staff, they do not adversely affect the quality, maintenance or performance of the items). Dane County reserves the right to accept or reject any and all bids, to waive informalities and to choose the bid that best meets the specifications and needs of the County.

If no variations are listed, it will be assumed that all specifications are met.

Part 3 – Detailed Specifications

**Bid Forms
Submit With Bid**

Technical Specifications

SPECIFICATIONS FOR TRUCK CHASSIS EQUIPMENT AND SET UP, OSHKOSH “HANDS FREE” DIN HITCH WITH J-HOOK, OSHKOSH STRAIGHT “J” 22-FOOT POWER REVERSIBLE POLYETHYLENE STRAIGHT RUNWAY PLOW, DURACCLASS SL-316 DUMP BODY, AND ACCESSORIES.

Bidder shall complete every space in the area provided with either a check mark to indicate the item being bid is exactly as specified (Complies), or deviates from the bid specification (Does Not Comply). If checking “Does Not Comply,” use the area provided to explain how the item being provided deviates from the bid specifications (use additional sheets as attachments, if required). Any deletions, additions, or variations from the following specifications must be noted. Any items appearing in the manufacturer’s regular published specifications are assumed to be included in the Bidder’s proposal.

TRUCK CHASSIS EQUIPMENT AND SETUP

1. GENERAL

This specification is for the procurement and installation of all parts and components to make functional on chassis one (1) dump body, (1) runway plow, one (1) plow hitch and various accessories and all necessary components to make vehicle and systems operational. One (1) new 2010 Oshkosh P-2526, all-wheel-drive (4x4), all-wheel-steer carrier vehicle will be provided by Airport. All parts and components shall be engineered and classified as HEAVY DUTY, and shall be of the size, material, and strength to sustain the maximum load limits and severe operating conditions encountered in snow removal, while resulting in minimum wear and failure. Options or deviations from those recommended specifications detailed within the following requirements. Any exceptions to these requirements must be identified in detail and must include a description of why the proposed item(s) equal(s) the requirement. The successful bidder will provide to Dane County Regional Airport a minimum of three (3) references of each component specified: hitch, runway plow, and dump body in an airport runway snow removal application. Customized or prototype equipment will not be considered. The bidder shall be a licensed and legally authorized dealer or manufacturer within the State of Wisconsin.

All parts and components of this package shall be new, of current year production, and free of all defects and imperfections. Any component found to be used, or not of current production will be rejected. The contractor (bidder) will replace the component in question with an appropriate and acceptable new replacement component at his own expense.

Complies _____ Does Not Comply _____

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61 **2. DESIGN**

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63 **Design and installation of equipment shall permit easy accessibility for maintenance and**
64 **service.**

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66 Complies _____ Does Not Comply _____
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78 **3. INSTALLATION**

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80 Equipment shall withstand cold, moisture, strains, jars, vibration and other conditions that are
81 likely to be encountered during operations. All components and assemblies shall be free of
82 hazardous protrusions, sharp edges, cracks or other elements that might cause injury to
83 personnel or damage to equipment. Location of all oil, electrical wiring, hydraulic and air lines
84 shall be in protected positions properly secured to the frame or body structure using hangars or
85 rubber coated metal clamps. The use of plastic tie wraps will be kept to a minimum. In addition,
86 the location of all oil, hydraulic and airlines and electrical wiring shall be routed and positioned in
87 a manner that will not interfere with routine maintenance and service of vehicle and
88 components. Wherever these lines pass through structural members, they shall be protected
89 with looms or grommets except where a through-frame connector is necessary. Proper chafing
90 protection will be utilized at all wear locations. The bundling of an ignition source with that of a
91 fuel source will not be accepted (i.e. bundling of electrical cables with hydraulic lines).

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4. INSTALLATION AND HOOKUP REQUIREMENTS OF TOWING CHASSIS

- A. Chassis will be made ready to mount and operate 2007 and newer M-B model 4600-TTB_HP3 Tracking style tow behind high-speed runway broom. Including two (2) pintle hitch, broom control electrical harness, pneumatic systems. Mounting of air glads will be such that they will not interfere with broom hook-up, dump body operations, or cause interference with any chassis equipment (i.e. tow hooks) or normal truck operations.

- B. A Voyager Tekonsha Model 9030 brake controller shall be mounted in cab and an SAE 7 pin trailer connector shall be wired and installed at rear bumper. The operator's controls shall be integrated into the P series chassis console along with the other controls of the truck accessories.

Complies _____ Does Not Comply _____

5. DELIVERY

- A. **Preparation for Delivery.** The bidder is responsible for the safe and timely delivery of the vehicle and its accessories, including, plow hitch, plow and dump body and all other equipment listed in these specifications. All equipment shall be mounted and operable at the time of delivery.

- B. **Delivery.** Complete vehicle shall be delivered to Dane County Regional Airport, Madison, WI.

- C. **Delivery shall be _____ days after receipt of carrier vehicle and award of bid** (fill in blank).

Complies _____ Does Not Comply _____

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6. TRAINING

A. Operation and Maintenance Training. Bidder shall, at no additional cost, provide the services of trained personnel to the purchaser at a time and place agreed to by all parties. These individuals shall provide instructions to Airport personnel sufficient for the personnel to familiarize themselves with the operational and maintenance characteristics of the auxiliary equipment.

Complies _____ Does Not Comply _____

7. WARRANTY

The bidder shall guarantee equipment as to the specified capacities and performance, and to be free from all defects in design, material and workmanship. All labor, transportation cost and defective parts shall be replaced free of cost. THIS GUARANTEE SHALL CONTINUE FOR A PERIOD OF TWELVE (12) MONTHS. START DATE OF WARRANTY PERIOD WILL BE FROM FIRST DATE OF INTENDED USE. No exceptions to the guarantee requirement will be accepted. Dane County Regional Airport shall provide bidder the commencement date, in writing. The bidder is to provide assistance to the Airport with any warranty problems, which may arise with manufacturing suppliers.

Comply _____ Does Not Comply _____

8. MANUFACTURER SUPPLIER STABILITY

In the interest of continued and reliable service, parts, and technical support, equipment suppliers shall have exhibited a consecutive history of financial stability and manufacture of similar equipment over a minimum of the past ten years. Documentation shall be provided in the bid package to verify such continuous business activity, such as location and contact lists,

203 financial statements, and annual reports. Because of the critical nature of the product and its
204 application, the burden of proof for this requirement lays with the bidder and/or suppliers.

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206 Complies _____ Does Not Comply _____

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215 **9. HYDRAULIC SYSTEM**

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217 **A. General.** The hydraulic system shall consist of appropriate rams, pumps, piping,
218 fittings, valves, controls, gauges, fluid reservoirs and filters, coolers and other parts
219 essential to its full operation. The system shall be capable of hydraulically
220 positioning equipment through the entire range of its design limits. It shall be
221 capable of operating all controls simultaneously without a noticeable reduction in
222 power or response time. All hydraulic controls shall be located in the vehicle cab.
223 There shall be a control mounted in the cab to engage and disengage PTO. The
224 system shall be ruggedly constructed and able to withstand all loads imposed on it
225 without relying on the use of mechanical locks. Filters within the hydraulic system
226 shall conform to SAE Information Report SAE J931, Hydraulic Power Circuit
227 Filtration.

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229 Complies _____ Does Not Comply _____

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240 **B. Pump and Power Takeoff.** The pump shall be a direct, front crankshaft driven load
241 sensing system capable of high rates of flow at low engine RPM. Minimum capacity
242 of 20 GPM at 1200 engine RPM. Front driveline Spicer 1230 series, including
243 grease fittings on both U joints. It shall have sufficient capacity to operate the
244 hydraulic equipment specified herein under all operating conditions and speeds.
245 PTO disconnect shall be located in cab of vehicle.

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247 Complies _____ Does Not Comply _____

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C. Lines and Fittings. Only commercial quality hydraulic lines, hoses and fittings that are capable of withstanding systems working pressures under load are acceptable. Hydraulic hoses shall have a bursting pressure of three times their rated working pressure. The use of fittings, joints and connections shall be kept to a minimum. All hydraulic hoses, tubes and fittings are to be sized to allow free flow of hydraulic fluid at temperatures to -40° F.

Complies _____ Does Not Comply _____

D. Hydraulic Reservoir. The hydraulic fluid tank shall hold minimum 40 gallons, with total tank capacity to exceed the volume of oil required for the operation of any combination of attachments by 50%. Tank shall be equipped with visual sight and temperature gauge, magnetic drain plug, 40-micron filter basket cap with riser as part of tank. Cap to have padlock feature. 100 mesh suction screen with three (3) PSI bypasses. Minimum of 12 ga. steel construction. Tank shall be equipped with a drain plug and latch lock handle ball valve shutoff. **A low hydraulic oil indicator system shall be installed in cab. System shall include an audible and lighted indicator alarm to alert of low fluid levels.**

Complies _____ Does Not Comply _____

E. Hydraulic Control Valve. Hydraulic valve must be an electromagnetic manifold design to simplify field service by making valve sections easy to remove and replace. The valve shall be mounted in a weatherproof enclosure. Each valve section shall be equipped with a heavy-duty rack and pinion style manual override. Valves are to be labeled or marked as to function to facilitate troubleshooting.

Complies _____ Does Not Comply _____

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F. Hydraulic Return Filter. Filter to be in tank. Element to have a 10-micron rating.

One (1) spare hydraulic filter will be included.

Complies _____ Does Not Comply _____

G. Plumbing. Hydraulic steel fittings to be SAE -37°, flare fittings on all pressure lines. 2-inch 100R4 suction line with a minimum number of 90° elbows. Pressure hose from pump to hydraulic valve must be 1" I.D. SAE 100R2 high pressure, double wire hose. All hoses must be anchored by hangars or straps away from bolts and sharp edges to prevent wear, fatigue or fire. The use of plastic tie wraps will be kept to a minimum.

Complies _____ Does Not Comply _____

H. Operating Performance. Hydraulic system shall permit installed plow to have a maximum full left-to-right cycle time of ten (10) seconds.

Complies _____ Does Not Comply _____

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10. IN-CAB PLOW / BROOM CONTROL

- A. General.** The control for the plow and broom shall be the same. This includes all hydraulic and electrical components to make control operational. This control must be compatible with 2007 and newer M-B Company Model 4600-TTB-HP3 tow behind brooms.
- B.** The operator’s control shall be integrated with the chassis and broom. All switches shall be lighted rocker style. It shall have all necessary functions to operate the plow and shall have the following:
- Multifunction CAN controlled joystick with multi-switch head for plow and broom lift/lower and left/right swing.
 - Switch for plow float on/off.
 - Switch for hitch lock and unlock.
 - Hitch lock confirmation light, on indicates locked.

Complies _____ Does Not Comply _____

11. ELECTRICAL SYSTEM

- A. General.** The electrical system shall be negatively grounded and installed in accordance with current state-of-the-art practices and appropriate federal requirements. All parts of the electrical system shall be waterproof, easily accessible, securely mounted and protected against extreme temperatures, physical damage, snow, oil and corrosion. All electrical wiring shall be made of stranded conductors with a capacity exceeding the anticipated maximum circuit loading. Insulation of electrical wiring shall be equal to the recommended standards established for insulation materials by the Society of Automotive Engineers (SAE). All lighting and starting shall be 12 volt. 24 volt not acceptable. All wiring shall be color-coded and/or numbered (every 3 inches) to aid in troubleshooting. Wire splices are to be kept to a minimum. All splices will be soldered and potted to be made 100% waterproof. All junction boxes are to be potted and made 100% waterproof. Junction box grounding will be grounded to the chassis in addition to the wiring system.

406 All vendor installed items, which require connecting to the chassis electrical
407 system shall be done using an OEM factory modified wiring kit whenever possible.
408 No cutting or splicing into chassis wiring is allowed. Grounding of systems will follow
409 Society of Automotive Engineers (SAE) approved practices.

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411 Complies _____ Does Not Comply _____
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422 **B. As-Built Wiring Schematic** will be provided for chassis and all accessories.

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424 Complies _____ Does Not Comply _____
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436 **12. LIGHTING SYSTEM**

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438 **A. COMPONENTS.**

439 The lighting system, including reflectors and clearance lights, shall be standard
440 equipment currently used by the manufacturer. Task-oriented lights should be capable
441 of lighting those areas to be cleared. The system shall include:

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- 443
 - 444 **1. High Intensity Discharge (HID) Lights.** Two (2) J.W. Speaker Corporation 970
445 Series HID lights equipped with "adverse weather" lenses shall be mounted at
446 the top of the plow hitch assembly, switched separately from the vehicle
447 headlights, to provide forward illumination over top of plow.
 - 448
 - 449 **2.** Amber rotating beacon light (Target Tech Highlighter Mini-Lightbar
450 Model# 452112-02) mounted on dump body to assure 360-degree visibility.
451 Beacon shall be gimbal mounted on front edge of cab protector dump body.
 - 452

453 Complies _____ Does Not Comply _____
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464 **B. Switches and Circuit Protection.** All switches will be heavy-duty rocker type light
465 switches positioned, labeled and illuminated for easy driver identification and use.
466 The circuits that these switches operate will be equipped with a manual reset
467 breaker.

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469 Complies _____ Does Not Comply _____
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478 **13. COMMUNICATIONS EQUIPMENT**

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480 **A. WIRING**

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482 The wiring and power source for all communications equipment shall be connected to
483 the following:

- 484
- 485 1. A 20-amp circuit breaker shall be provided, that is controlled by an ignition
486 source, so that it is only energized while the engine is running.
 - 487 2. A 10 AWG red wire shall be installed between the 20-amp circuit breaker and the
488 designated location of the radios.
 - 489 3. A 10 AWG black wire shall be installed between the negative post of the battery
490 and the designated location of the radios.
 - 491 4. All radios and accessory power harnesses shall be connected to the red, positive
492 wire and the black, negative wire.
- 493
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495 **B. RADIO/INTERCOM SYSTEM**

- 496
- 497 1. Radio equipment to be programmed per Airport's specifications and installed in
498 positions specified by Airport. Radios "a" and "b" below shall be connected
499 through headset system "c". Radio transmissions will be via standard
500 microphones and remote button "d". Standard microphones shall also be
501 installed for both radios. Speakers for radios will also be mounted per Airport
502 specifications.
 - 503 2. **VHF Aircraft Radio:** (a) One (1) ICOM IC-A110 VHF aircraft radio. VHF speaker
504 is to be mounted in the cab to the left side of driver's head. Frequency setting
505 channel 1st: 121.9 / 2nd: 119.3.
506
507

- 508 3. **Airport supplied Motorola Radius M1225 Mobile UHF Radio.** (b) Bidder to
 509 provide complete installation all wiring and antenna to make radio operational. One
 510 (1) high power (25-40 watt) speaker is to be mounted in the cab, in such a manner
 511 that it is directed towards the right side of the driver's head.
 512
- 513 4. **Headset/Intercom System:** (c) One (1) Setcom Model 1310, 2-position
 514 intercom system with two (2) Set Com 8B-1310L (over-the-head) Headsets (both
 515 units left dress).
 516
- 517 5. **Remote Push-to-Talk Button:** (d) One (1) push-talk-transmit-button capable of
 518 operating and switching between VHF and UHF radios. Button position to be
 519 determined by airport staff.
 520

521 Radios and accessories shall be installed in accordance to manufacture's instructions.
 522 Bidder shall supply all radio equipment, wiring, antennas, speakers, mounting hardware
 523 as noted for above.
 524

525 **Any questions contact: DCRA Greg Kerkenbush 608-246-3396.**
 526

527 Complies _____ Does Not Comply _____
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539 **14. NAME, SERVICE AND INSTRUCTION PLATES**
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541 All information plates shall be made of either noncorrosive metal or plastic with the
 542 information engraved, stamped or etched thereon. Plastic plates are acceptable only in
 543 locations that are not exposed to the elements and subject to weather or excessive heat.
 544 Plates shall be mounted in a conspicuous place with screws, bolts or rivets. Plates shall
 545 identify make, model, serial number and any other relevant data.
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547 Complies _____ Does Not Comply _____
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559 **15. SERVICE, PARTS AND OPERATOR'S MANUALS**

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- A. **As-Built Electrical Wiring and Hydraulic Lines Schematics.** An as built electrical and hydraulic schematic for total truck package. This includes chassis, dump body and accessories.
- B. A complete specification sheet, including part numbers, will be provided listing all components manufactures and model.
- C. Any and all components (i.e. hydraulic pump, valve bank, tailgate release, vibrator, etc...) literature including installation instructions and model information will be shipped with the completed unit.

Complies _____ Does Not Comply _____

16 OSHKOSH HANDS FREE QUICK HITCH, HEAVY-DUTY TYPE HANDS FREE DIN HITCH WITH J-HOOK MOLDBOARD DETACH QUICK HITCH

A. GENERAL

The front attachment plow hitch to the chassis shall be a OSHKOSH HANDS FREE QUICK HITCH. It shall allow hands free interchange of the plow and other attachments from the operator position in the cab. It shall be hydraulically operated (plow lift, swing, and lock) and designed for power reversible runway plows. The plow moldboard and push frame must be capable of being completely removed or attached from the vehicle's cab without leaving the operator's seat and without the need to disconnect or reconnect hydraulic lines and connections by the operator. It shall be automated and fully repeatable. The entire process of hitching or unhitching shall be possible by one man in not more than two minutes and shall be positive connected with hydraulically operated lock pins. There shall be three section of the hitch: 1) Chassis side, 2) module, and 3) moldboard side. All hydraulics and structure for plow lift, swing, oscillation, and lock shall be on the chassis side of the J-Hook style moldboard coupling and shall be of modular design. Provisions shall be made to allow the chassis side portion to be readily removable from the chassis. Final chassis hydraulic connection location shall be coordinated with DCRA prior to completion.

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B. PLOW HITCH - CHASSIS SIDE

On the front chassis frame rail shall be a DIN plate style coupler for the connection of the module. It shall consist of two side (cheek) plates of adequate size bolted to the chassis frame rails with a welded 0.63 inch thick push plate. This flat mounting push plate shall have two (2) top mounting pockets to accept the mating portion of the module or other possible front attachments that are equipped with a similar standard DIN type hitch.

Complies _____ Does Not Comply _____

C. PLOW HITCH – PLOW LIFT, SWING, OSCILLATION, LOCK MODULE

1 GENERAL: The module (hydraulics and structure for the plow lift, swing, oscillation, and lock) shall be mounted and unmounted from the chassis by means of a chassis mating DIN plate hitch of a size sufficient to support the weight and operation of the plow. Two (2) steel claws and slots for two (2) one inch diameter swing bolts with nuts that are part of the module will lock the connection between the module and the chassis. The entire process of removing or installing the module shall be possible by one man in not more than 10 minutes. All hydraulic lines from the chassis to the module (plow lift, swing, lock) shall be of quick disconnect type and clearly marked for ease of change.

2. LIFT: The plow lift system of the module shall be a parallel lifting type consisting of two (2) parallel tubular lift arms of 3 inch x 3 inch x 0.31 inch wall steel tubing. The design shall incorporate a dual acting plow lift cylinder. The hydraulic double acting plow lifting cylinder shall be four (4) inch bore 15.75 inch stroke with a 2 inch diameter rod, minimum. This lift cylinder will also serve to “hands free” remove and attach the plow moldboard. The plow lift hydraulic system will be furnished with a relief valve to prevent down pressure in excess of 200 psi. The lifting cylinder arrangement shall incorporate a mechanical transport lock that shall take the weight of the plow off the hydraulic cylinder during plow transport, and shall act as a safety in the event of a hose failure during transport.

661 3. SWING: The plow swing system of the module shall be equipped with two (2)
662 telescoping type hydraulic cylinders enabling the plow to be angled left, right, or
663 straight ahead. To maximize snow removal production, a wide plowed path is desired.
664 Therefore, maximum angle to the left or right shall be 32 degrees. Pusher vehicle
665 shall have adequate horsepower and durability to work with plow at this shallow angle.
666 The telescopic hydraulic cylinders shall be two stage type with an outside diameter of
667 4.50 inch and chrome plated rods with a minimum diameter of 2.50 inches. The
668 cylinders shall be 19.50 inch long from center of mounting hole to center of mounting
669 hole when retracted and shall have a stroke of 20.25 inches. The cylinders shall be
670 heavy duty to allow for heavy snow plowing under severe conditions and shall be
671 equipped with a double acting hydraulic cushion valve mounted on the plow to protect
672 the cylinders from damage. Mounting plates for the swing cylinders shall be 0.63 inch
673 in thickness. The cylinder mounting bolts shall be 1.00 inch diameter. The hydraulic
674 port in the angling cylinders shall be 0.75-16 standard straight SAE "O" ring thread.
675 The hoses used shall be standard 0.50 inch SAE 100R2 rated.

676
677 The swing pin (center and vertical) shall be 2 inch diameter by 31.75 inch in length
678 with top and bottom yokes. There shall be a bronze bushing installed in the center of
679 each yoke assembly for low friction movement of the swing pin. The two (2) parallel
680 tubular lift arms shall be attached to the top and bottom yokes. The yoke / lifting arm
681 connections shall have a hardened steel sleeve bushing with replaceable trunnion
682 pins. The trunnion pins must be tapered fit into the yoke for positive locking.

683
684 4. OSCILLATION: The plow oscillation system of the module shall incorporate a drive
685 frame that allows oscillation of the plow with respect to the chassis in order to follow
686 the pavement contour. The plow shall oscillate a minimum of 2 degrees overall. The
687 oscillation mechanism shall consist of two front facing vertical plates which can pivot
688 and slide. When the plow is carried in the raised position and angled right or left the
689 plow shall remain approximately level to the pavement.

690
691 The front plate shall be 0.50 inch thick steel plate with a bushing on the top for the
692 oscillation pivot tube and slots cut in the bottom for the oscillation slide bushings. The
693 back plate shall consist of a formed 0.38 inch plate and backing plate to form a box
694 section. The oscillation pivot tube and oscillation slide bushing shall be welded in
695 place facing forward on the boxed section. The back side of the boxed section shall
696 be attached to the plow swing pivot pin (center vertical).

697
698 A 0.38 inch thick poly plate shall be sandwiched between the two oscillation plates to
699 reduce friction and wear. No metal on metal. The oscillation assembly (two plates)
700 shall be held together with five (5) bolts, 1.0 inch diameter with backing plates and lock
701 nuts. There shall also be two (2) rubber cushions bolted to the plow push frame to
702 limit and cushion the end of oscillation travel.

703
704 5. LOCK: The plow lock system of the module shall aid in the hands free
705 attachment of the plow moldboard and to positively secure the plow moldboard to the
706 hitch module. The top of the front oscillation plate shall have a steel receptacle with a
707 tapered sideways lead in to accept the J-hooks of the moldboard. The bottom of the
708 front oscillation plate shall incorporate an outward acting, horizontal, double acting
709 hydraulic lock cylinder operated from the cab with a switch. At the ends of the cylinder
710 shall be 2.0 inch diameter lock pins. When activated, the lock pin translates into the
711 mating holes in the plow moldboard pushframe. The lock pins shall be tapered to pull

712 the moldboard and the module together to form a positive lock. A proximity sensor
713 with confirmation light in the cab shall also be provided to confirm the pins are locked
714 in the holes.

715
716 **D. PLOW HITCH – MOLDBOARD SIDE**

717
718 1. GENERAL: The plow push frame will have two J-hooks each 1.50 inches thick
719 that will allow the operator to lower the plow hitch, drive forward into the hooks, and
720 then pick up the moldboard. At the bottom of the push frame shall be the mating holes
721 for the lock pins to secure the moldboard to the plow hitch.

722
723 The moldboard and pushframe frame, once detached, will rest on the ground on the
724 caster tires and the cutting edge only. No blocking shall be needed. Lead-in on the J-
725 hooks shall be great enough to compensate for the forward moldboard roll.

726
727 2. PLOW PUSH FRAME

728
729 The push frame shall be of severe duty design with no less than three (3) horizontal
730 steel tubes each having a cross section of 3 inch x 5 inch x 0.38 inch wall rectangular
731 tube. There shall be six (6) "Aeon" type isomer rubber cushions on the bottom of the
732 plow frame compressed to a length of 4 inch by means of six (6) bolts – 1.25 inch in
733 diameter and six (6) lock nuts. For durability and safety on the runway, each cushion
734 assembly shall have a 1.50 inch OD hardened steel sleeve tube over each bolt for
735 sliding inside the push frame. This prevents over compression of the rubber cushion
736 when assembling and prevents wear of the bolt. The rubber cushions mount to a pivot
737 weldment that connects the push frame to the moldboard via four (4) pivot pins. The
738 pivot pins shall be 1045 CR steel, 1.50 inches in diameter.

739
740 The swing stops shall have a poly liner installed to allow free oscillation of the plow
741 frame. When swung to 32-degrees, the plow push frame shall stay against the stops
742 as the operator raises and lowers the plow, no additional swing adjustment needed.

743
744 Four (4) heavy-duty braces on top of the plow frame shall allow the plow and cutting
745 edge angle to be adjusted to positions of 65, 75, and 85 degrees from horizontal for
746 optimum snow handling performance.

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748 Complies _____ Does Not Comply _____

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759 **17. SPECIFICATION FOR OSHKOSH STRAIGHT "J" 22 FOOT POWER REVERSIBLE**
760 **POLYETHYLENE STRAIGHT RUNWAY PLOW**
761 **A. GENERAL**
762

763 These specifications describe a Power Reversible Plow with a full length straight
764 modified J-shape profile with polymer moldboard, manufactured expressly for airport
765 runway high speed and ramp plowing. This plow shall be rigidly built of new material
766 suited for continuous work under extreme conditions of snow removal.
767

768 **B. MOLDBOARD ASSEMBLY**
769

- 770 1. The moldboard shall not be less than 50 inch high for the entire length,
771 nor less than 22 feet long at the cutting edge, and formed so as to lend
772 itself to high speed plowing operations. In order to offer a low coefficient
773 of friction and resistance to both corrosion and impact, the moldboard
774 sheet shall be formed from 0.38 inch thick VHMW unwelded polyethylene
775 sheet. When set at 75 degrees, the moldboard shall overhang the cutting
776 edge by a minimum of twelve (12) inches the entire length of the plow.
777
- 778 2. In addition, the sheet shall evidence no break following izod impact test
779 conducted in accordance with ASTM D256A.
780
- 781 3. The sheet shall be formed from a polyethylene material, which is made
782 from new resin (recycled material is not acceptable), and shall be color
783 impregnated and ultra violet stabilized.
784
- 785 4. Moldboard reinforcement shall include a full length heavy duty angle
786 across the top front of the steel shell and fourteen (14) vertical ribs tying
787 the upper shell to the cutting edge mounting angle and its reinforcement.
788 There shall be two ribs at each of the four push points, and three ribs
789 spaced out at each end of the plow. The fourteen (14) steel vertical ribs
790 shall be made from 0.38 inch thick plate and become wider as they
791 approach the cutting edge mounting angle. A 0.75 inch flat bar shall be
792 welded to the cutting edge angle for additional strength. There shall be
793 no span between reinforcing ribs in excess of 3.5 feet.
794

795 The vertical ribs shall provide support and frame work for a series of
796 window openings in the rear steel moldboard backing frame, tying top
797 reinforcement to the bottom reinforcement. Window opening design shall
798 provide long term, stable backing support for the moldboard, and help
799 prevent moisture buildup behind the polymer plow face. The polymer
800 moldboard shall be bolted to this durable framework for maintenance of
801 proper snow handling shape. Moldboard shall consist of three (3)
802 separate polyethylene sheets, one for the center section and one for each
803 end of the plow. Polyethylene to be retained by 0.625 inch diameter
804 carriage bolts with locking hardware to avoid loss on the operations area
805 of the airfield.
806

- 807
- 808 5. Moldboard attack angle adjustment shall be incorporated so to provide 65
809 degree, 75 degree and 85-degree settings (from ground plane to back of
810 cutting edge for use with steel, carbide, rubber or urethane cutting
811 edges).
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Complies _____ Does Not Comply _____

C. SPRAY GUARD

A spray guard / deflector shall bolt to the top discharge point at the moldboard flange or reinforcement, tangential to the upper radius of the modified "J" style moldboard to direct snow forward, down, and toward the trailing edge of the plow. It shall consist of a heavy duty rubber belting, .395 inch thick x 12.00 inches wide, and shall include a metal retaining strap, 0.25 inch thick x 2.00 wide, with necessary mounting hardware. The hardware shall be of locking type to minimize opportunity for loss on the aircraft operating areas of the airport. Provisions shall be provided in the mounting system to adjust the spray guard perpendicular to the moldboard on a case by case basis as desired by the airport for seasonal variation in operations.

Complies _____ Does Not Comply _____

D. CUTTING EDGE

1. The cutting edge shall be BlackCat JOMA 6000, latest generation.
2. One (1) complete set of JOMA 6000 replacement blades will also be provided.
3. Reinforcement shall consist of a 6" x 4" x 1/2" structural steel angle with equally spaced 1/2" thick reinforcement gussets with a 3-1/2" x 3/4" steel flat bar reinforcement welded to the top of the angle for added strength.

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E. ADJUSTABLE PNEUMATIC DUAL CASTER WHEEL ASSEMBLY

Shall be of 360 degree swivel type and shall include the following:

1. Wheels shall be 10.0 inch diameter x 6 inch wide minimum, from not less than a combined thickness of 0.25 inch steel. Wheel shall be a five (5) mounting bolt design. They shall ride on hubs fitted with Timken tapered roller bearings. Each bearing shall include seal, dust cap, lubrication fitting and pressure relief plug. Axles shall be a minimum of 1.00 inch in diameter at the ends, 1.06 inch diameter at outer bearings, 1.375 inch diameter at the inner bearings and 1.75 inch diameter at the center. Each caster spindle shall have a rating of no less than 1,750 pounds for a combined caster position rating of 3,500 pounds.
2. Tire shall be 20.5 x 8.0 on a 10 inch rim for additional load carrying ability, 10 ply (load range "E"), minimum. There shall be a total of at least four (4) tire and wheel assemblies, mounted in dual arrangements, with one dual assembly to each side of the plow center. Dual caster assembly shall include a two piece spindle, separated at the midpoint between caster wheels with left and right halves held in place by a through bolt with nyloc nut. This shall allow for easier and modular maintenance. Tires shall be pneumatic, and delivered with appropriate air pressure as shall be called out in service manuals.
3. Vertical adjustment shall be accomplished through two (2) caster barrel arrangements. The outer barrels of the barrel arrangements shall be heavy duty steel tubing, not less than 4.25 inch OD x 3.75 inch ID, provided as part of the major caster mounting bracketry as a welded unit. Inner tubes shall be from not less than 3.25 inch OD x 2.25 inch ID for grease/lubrication fit. Inner tubing to be ground and hard chrome plate to mate with honed outer steel tube housing. Inner tube shall be held centered in outer tube by means of heavy duty nylon rings at top and bottom. The screw adjustment rod shall be heavy threaded rod fitted with jam nut for maintaining adjustment from not less than 1.375 inch diameter stainless steel.
4. Each caster shall be equipped with a spring-loaded adjustable brake dampener so to minimize wheel wobble.

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F. STANDS

The moldboard shall have a pair of adjustable leg stands to be used for plow removal / storage with the other remaining weight on the caster tires. They shall aid raising the cutting edge during change. They are required for safety and storage reasons.

Complies _____ Does Not Comply _____

G. FINAL SET-UP

1. Plow shall be mated to chassis and properly adjusted per manufactures set-up specifications. Unit shall be ready to go into service upon delivery.
2. Board angle shall be pinned for JOMA blade angle 55-60 degrees.

Complies _____ Does Not Comply _____

18. DURACCLASS MODEL SL316 DUMP BODY
A. GENERAL

The SL316 body is a heavy-duty contractor's dump body made of hi-tensile physical quality steel for use on single axle trucks. It is a sloping run board type body with a fabricated, interlaced sub frame that accepts a twin arm underbody hoist.

The body ends are higher than the sides with pockets for extension sideboards. The tailgate is reinforced and double acting with proof coil chains and flush offset upper hinges. The chains shall be encased to prevent damage to paint. The operating device is air. Three-inch diameter holes are provided for Federal Safety Standard No. 108 lights.

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B. BODY

1. Rough oak sideboards shall be treated or otherwise weatherized.
2. One (1) 16" ladder and step with non-slip rungs to be provided at front of box, on driver's side.
3. One (1) hydraulic material vibrator shall be mounted to dump body and shall be controlled from inside cab. Push button momentary control.
4. Body shall not overhang rear frame of truck, preventing or limiting use of pintle hook that will be installed at rearmost frame cross member.
5. Hardware shall be installed on forward bulkhead, along the driver's side of the dump body to securely hold a shovel or broom.
6. Heavy-duty welded twenty-three (23) inch Cab Protector.
7. Mud flaps with anti-sail protection shall be installed both fore and aft of tires.
8. Steps shall be installed interior of dump body, front left corner for ingress/egress of box.

Complies _____ Does Not Comply _____

C. FRONT HEAD

The front head is one-piece with a 3-bend top, 3" wide and 2" deep with a return flange of 7/8" and is reinforced mid height with a formed horizontal "V" section, all of 7-gauge Corten steel. It is 8" higher than the sides.

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D. FLOOR

The floor is two-piece seam welded down the centerline with 4-1/2" vertical flanges at the sides and is made of 1/4" AR400 demolition material. There is a 2" inside radius (or knee brace) where the floor meets the side.

Complies _____ Does Not Comply _____

E. SIDES

Side panel constructed of 7 ga. Corten steel, all exposed bends to be 1" radius. Top rail to be box section 4-5/8" wide x 8-3/8" tall. Centerbend to fold back at 20 degrees at top and bottom to bend back at 35 degrees from horizontal. No seam visible to outside or bottom of top rail. Minimum of two, 4-1/2" wide vertical side braces at the face and flared to 9" wide at the body, 3-1/4" deep slanted forward. All exposed bends to be 1-1/2" radius. C/C not to exceed 35". Front corner post to be 3-7/8" deep and shaped to match side posts. 5-1/2" deep rear corner post to house needed lighting. 6" board pockets. 100% full solid welded construction. Bracing will be horizontal and slanted vertical. Ladder will be installed on driver side. Sidewall height shall be 36 inches.

Complies _____ Does Not Comply _____

F. TAILGATE

Tailgate panel constructed of a one-piece sheet of 7 ga. AR400 high tensile steel for added strength. All horizontal bracing, including top rail, to be dirt shedding using large radius die. 6-panel tailgate design. Minimum 3/4" flame cut offset upper tailgate hinge. Minimum 1-1/2" upper tailgate pin. Minimum 1-1/4" lower tailgate pin incorporated in lower vertical tailgate brace for added strength. Minimum 5/16" diameter proof coil spreader chains. 5/8" lower latch assembly. 3/4" plate flame cut lower pin cradle. Complete tailgate latching assembly reinforced with a 1/4" backing plate for added strength. 100% fully solid welded construction. D-Ring will be installed.

1069 Complies _____ Does Not Comply _____

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G. SUB FRAME

All 8 ga. (3/16" on 14' or more) high tensile steel fabricated sub-frame. Cross members interlaced through long members for maximum floor support and weight savings. Cross members on 12" centers.

1077 Complies _____ Does Not Comply _____

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H. OPERATING DEVICE

1. The tailgate-operating device will be electric/air. The control switch will be protected to prevent accidental opening. The rear cross shaft is 1-1/4" in diameter. The links to the rear hinges and the tension rod to the front are made of 5/8" diameter rod. The lower hinge and hook assembly are reinforced with a 1/4" backing plate to provided extra strength to the corner post where it joins the rear apron. The lower hook is of the overshot design and is 1/2" flame cut plate.

2. Electric/Air Operated Tailgate. Location of control switch shall be chassis dash with a two-step process to eliminate accidental opening.

1083 Complies _____ Does Not Comply _____

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I. HOIST

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- 1120 Hoist will be model 1821 underbody double acting.
- 1121 1. Single Cylinder, Double Arm Type
- 1122 2. 8" Normal Cylinder Diameter
- 1123 3. 21" Stroke
- 1124 4. 2-1/4" Diameter Piston Rod
- 1125 5. Piston Hard Chrome Plated (Vickers, DPH 900-1100)
- 1126 6. 1060.1 Cubic Inch Cylinder Displacement
- 1127 7. Hoist Frame 6" Deep of 5/16" Steel
- 1128 8. Supporting Cross members Gusseted Front and Rear to Long
- 1129 members
- 1130 9. Platform Type Flame Cut Hinges

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1132 Complies _____ Does Not Comply _____

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J. STANDARD EQUIPMENT AS REQUIRED BY OSHA

- 1141
- 1142 1. Factory Installed Body Props
- 1143 2. Hoist Control Lever Lockout Kit
- 1144 3. Unique Lever Control Grips with Operation Instructions
- 1145

1146 Complies _____ Does Not Comply _____

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K. BODY INTERIOR SURFACE TREATMENT

1152 Interior surfaces of dump body shall be treated with spray-on liner, smooth

1153 finish, by Fabick Surface Protection of Madison to prevent adhesion of material

1154 to interior of body.

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1159 Complies _____ Does Not Comply _____

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L. PAINT

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1. Body shall be shot blasted and primed with a minimum of 3 mils of primer. Finish coat will be a minimum 6 mil of FAA-approved Chrome Yellow polyurethane identical to color and type used for carrier vehicle. The exterior forward wall of dump body shall be painted flat black from below the rear window of chassis to cab shield to prevent reflection of strobe light into cab.
2. Copy of paint mix formula to be included.
3. Three (3) cans of touch-up spray paint will be included.

Complies _____ Does Not Comply _____

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M. RUSTPROOFING AND CORROSION PROTECTION

The underbody and corner posts shall be treated with Class 1 rust proofing protection.

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