

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
CONTRACT FOR PROCUREMENT**

REQUEST FOR PROPOSAL TITLE: Snow Plow Truck Turnkey Package

REQUEST FOR PROPOSAL NO.: 065-30-15-050

This agreement is entered into between the state of North Dakota, acting by and through its Director of Transportation, hereinafter referred to as NDDOT, whose address is 608 East Boulevard Avenue, Bismarck, North Dakota, and Bert's Truck Equipment, hereinafter referred to as the Contractor, whose address is 3804 Hwy. 75 North, Moorhead, Minnesota, 56560.

In consideration of the mutual covenants herein set forth, NDDOT and the Contractor agree as follows:

1. That in consideration of the payments to be made by NDDOT, the Contractor agrees to provide the services and/or goods in accordance and in conformity with this contract, the Contractor's proposal, dated May 18, 2015, NDDOT's request for proposal issued on April 13, 2015, and any purchase orders issued as a result of this contract. The Contractor's proposal, NDDOT's request for proposal, and any purchase orders are incorporated by reference herein. If discrepancies exist between the Contractor's proposal, and NDDOT's request for proposal, or this contract, NDDOT's request for proposal, and this contract shall govern.
2. NDDOT agrees to pay the Contractor for the work, when completed and accepted in accordance with this contract.

Payments are to be made upon presentation of an invoice by the Contractor, and by the terms of this contract.
3. The work shall be done pursuant to this contract, to the laws of the state of North Dakota, and to the satisfaction of NDDOT, in accordance with the rules and regulations made pursuant to state and federal law.
4. The Contractor, in employing and maintaining labor, shall do so in conformity with state and federal law and this contract.
5. Payments by NDDOT beyond the current state biennium shall be contingent on sufficient funds being appropriated by the Federal Government or State Legislature for the Department. In the event of insufficient appropriations in future bienniums, NDDOT may give a minimum of 30 days notice to terminate this agreement/contract and have no further obligation to the Contractor.
6. All work products and copyrights of the contract which result from this contract are the exclusive property of NDDOT.
7. Notwithstanding any rules regarding the choice of law or venue, it is agreed by the parties that this contract shall be governed by and construed in accordance with applicable Federal Law and the laws of the state of North Dakota, at the time this contract was executed. All disputes arising from this agreement shall be brought in the South Central District Court of the state of North Dakota.
8. This agreement constitutes the entire agreement between the parties. No waiver, consent, modification, or change of terms of this agreement shall bind either party unless in writing and signed by both parties. Such waiver, consent, modification, or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this agreement. The Contractor, by the signature below of its authorized representative, hereby acknowledges that the Contractor has read this agreement, understands it, and agrees to be bound by its terms and conditions.



9. The terms of this agreement shall not be waived, altered, modified, supplemented, or amended, in any manner whatsoever, except by written instrument signed by the parties.
 10. The Contractor shall not assign any portion of the work under this agreement, execute any contract, or obligate itself in any manner with a third party with respect to its rights and responsibilities to this agreement without written consent of NDDOT. Any agreement with a subcontractor does not create a contractual relationship between the NDDOT and the subcontractor.
 11. The Contractor shall not assign nor transfer the contractor's interests or duties under this agreement without the express written consent of the state.
 12. The Contractor agrees to comply with all applicable laws and rules, including, but not limited to, those relating to nondiscrimination, accessibility, and civil rights.
 13. The Appendices A and E of the Title VI Assurances, attached, are hereby incorporated into and made a part of this agreement.
 14. Termination
 - a. This contract may be terminated by mutual consent of both parties, or by either party upon 30 days' notice, in writing and delivered by certified mail or in person.
 - b. In addition, NDDOT may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by NDDOT, under any of the following conditions:
 - i. If NDDOT funding from federal, state, or other sources is not obtained and continued at levels sufficient to allow for purchase of the indicated quantity of services. The contract may be modified by agreement of the parties in writing to accommodate a reduction in funds.
 - ii. If federal or state regulations or guidelines are modified, changed, or interpreted in such a way that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.
 - iii. If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by the contract is for any reason denied, revoked, or not renewed.
- Any such termination of this contract under (i), (ii), or (iii), above, shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.
- c. NDDOT, by written notice to the Contractor, may terminate the whole or any part of this agreement.
 - i. If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof; or
 - ii. If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from NDDOT, fails to correct such failures within ten days or such longer period as NDDOT may authorize.
 15. The Risk Management Appendix, attached, is hereby incorporated into and made a part of this agreement.



16. This agreement becomes effective when all parties have signed and it shall terminate on 12/31/2017.

EXECUTED the date last below signed.

WITNESS:

James McLaughlin
NAME (TYPE OR PRINT)
James McLaughlin
SIGNATURE

To be signed by Owner; Partner; Corp. Pres., Vice Pres., or other authorized Corp. Officer. (If signed by other authorized Corp. Officer, please attach copy of Power of Attorney or other documentation showing authority to sign.)

CONTRACTOR:

Jeremy K. Gregoire
NAME (TYPE OR PRINT)
Jeremy K. Gregoire
SIGNATURE
President
TITLE
6-15-15
DATE

WITNESS:

Sylvia Savenko
NAME (TYPE OR PRINT)
Sylvia Savenko
SIGNATURE

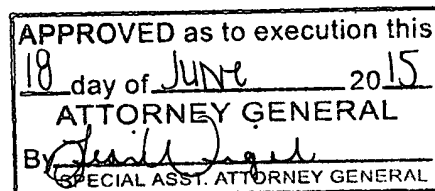
NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

Grant Levi
DIRECTOR (TYPE OR PRINT)
Grant Levi
SIGNATURE
6/22/15
DATE

APPROVED as to substance by:

Robin Rehborg
DIVISION DIRECTOR (TYPE OR PRINT)
Robin Rehborg
SIGNATURE
6-18-15
DATE

CLA 1043 (Div. 50)
L.D. Approved 2-17-05; 10-14



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX A OF THE TITLE VI ASSURANCES**

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:

1. Compliance with Regulations: The Contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, the Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
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 Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. Solicitations for Subcontracts, Including Procurements of Materials 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 Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
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 Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, 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 Recipient or the Federal Highway Administration as appropriate, and will set forth what efforts it has made to obtain the information.
5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Nondiscrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
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 Recipient or the Federal Highway 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 Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX E OF THE TITLE VI ASSURANCES**

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:

Pertinent Non-Discrimination Authorities:

- 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); and 49 CFR Part 21.
- 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);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- 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, 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 C.F.R. 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 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.*).



Risk Management Appendix

Supply Contracts with Private Individuals, Companies, Corporations, Etc.:

Each party agrees to assume its own liability for any and all claims of any nature including all costs, expenses and attorney's fees which may in any manner result from or arise out of this agreement.

Contractor, or Contractor's delivery agent, shall secure and keep in force during the term of this agreement, from insurance companies, government self-insurance pools or government self-retention funds authorized to do business in North Dakota, the following insurance coverages:

- 1) **Commercial general liability** and **automobile liability** insurance.
- 2) **Workers compensation** insurance.

Contractor shall produce certificates of insurance or copies of insurance policies upon request by the State.

When a portion of a Contract is sublet, the Contractor shall obtain insurance protection (as outlined above) to provide liability coverage to protect the Contractor and the State as a result of work undertaken by the Subcontractor. In addition, the Contractor shall ensure that any and all parties performing work under the Contract are covered by public liability insurance as outlined above. All Subcontractors performing work under the Contract are required to maintain the same scope of insurance required of the Contractor. The Contractor shall be held responsible for ensuring compliance with those requirements by all Subcontractors.

RM Consulted 2007
Revised 6-07



STATE OF NORTH DAKOTA

**North Dakota Department of Transportation
Procurement, Financial Management Division
608 East Boulevard Avenue
Bismarck, ND 58505-0700**

Request For Proposal (RFP)

RFP Title: Snow Plow Truck Turnkey Package

RFP Number: 065-30-15-050

Date of Issue: 4/13/15

Purpose of RFP:

The North Dakota Department of Transportation, Procurement, Financial Management Division, is soliciting proposals for the purchase and installation of approximately 17 turnkey snow and ice control truck packages beginning in September 2015 to be completed for the 2015-2016 winter season and an additional order of approximately 17 snow and ice control turnkey truck packages to be completed for the 2016-2017 winter season.

The turnkey packages include dump bodies, hydraulic systems, emergency lighting, anti-icing, sanding, and snow removal equipment installed on NDDOT provided tandem axle truck chassis. It is relevant that the units meet the requirements to operate in the extreme adverse winter weather conditions experienced while performing snow removal from the North Dakota state highway system.

The units shall include features which are regularly featured as standard production. The units shall conform in strength, quality of material, and workmanship to that provided by the best manufacturing and engineering practices of the industry.

Offerors shall represent, by proposals submitted, that the equipment is new, current model year, completely assembled, painted, tested, and ready for operation.

Offerors shall provide, in their proposals, complete equipment specifications, manufacturer brochures, a list of three users with letters of reference, phone numbers of contact persons, warranties, parts and service location, detailed list of optional equipment and accessory prices, and proposed delivery schedule.

**Procurement Officer: Vanessa Brosten
PHONE: 701-328-4466
FAX: 701-328-0310
E-MAIL: vbrosten@nd.gov**

Offerors are not required to return this form.

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SECTION ONE INTRODUCTION AND INSTRUCTIONS

1.01

Purpose of the RFP

The North Dakota Department of Transportation, Procurement, Financial Management Division, hereafter known as "purchasing agency" is soliciting proposals for the purchase and installation of approximately 17 snow and ice control turnkey truck packages beginning in September 2015 to be completed for the 2015-2016 winter season and an additional order of approximately 17 snow and ice control turnkey truck packages to be completed for the 2016-2017 winter season. These numbers are approximate and NDDOT reserves the right to add or delete from these numbers based upon budget authority and need.

The turnkey packages include dump bodies, hydraulic systems, emergency lighting, anti-icing, sanding, and snow removal equipment installed on NDDOT provided tandem axle truck chassis. It is relevant that the units meet the requirements to operate in the adverse weather conditions experienced while performing snow removal from the North Dakota state highway system.

1.02

Contact Personnel, Telephone, Fax, E-mail

The procurement officer is the point of contact for this RFP. All vendor communications regarding this RFP must be directed to the procurement officer. Unauthorized contact regarding the RFP with other State employees of the purchasing agency may result in the vendor being disqualified, and the vendor may also be suspended or disbarred from the state bidders list.

PROCUREMENT OFFICER: Vanessa Brosten	PROJECT MANAGER: Tim Paul
PHONE: 701-328-4466	PHONE: 701-328-1465
FAX: 701-328-0310	FAX: 701-328-2514
TTY Users call: 7-1-1	TTY Users call: 7-1-1
E-MAIL: vbrosten@nd.gov	E-MAIL: tpaul@nd.gov

1.03

RFP Schedule

This schedule of events represents the State's best estimate of the schedule that will be followed for this RFP. If a component of this schedule, such as the deadline for receipt of proposals, is delayed, the rest of the schedule will be shifted by the same number of days.

The approximate RFP schedule is as follows:

- RFP Issued: **4/13/2015**
- Deadline for receipt of questions and objections related to the RFP: **5/4/2015**
- Responses to questions / RFP amendments (if required) **5/8/2015**
- Proposals due by: **5/19/2015**
- Proposal Evaluation Committee evaluation completed by approximately : **6/1/2015**
- State issues Notice of Intent to Award a Contract approximately: **6/2/2015**
- State issues contract approximately: **6/12/2015**
- Contract start: **6/19/2015**

1.04

Return Mailing Address and Deadline for Receipt of Proposals

Offerors must submit, in 3-ring binders with indexing, ONE ORIGINAL (1) AND FOUR COPIES (4) of its proposal without pricing in a sealed envelope or package.

ONE (1) cost proposal is to be submitted in a separate sealed envelope or package, clearly labeled "cost proposal."

Envelopes or packages containing proposals must be clearly addressed as described below to ensure proper delivery and to avoid being opened by the State before the deadline for receipt. Envelopes or packages must be addressed as follows:

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
PROCUREMENT, FINANCIAL MANAGEMENT DIVISION
RFP 065-30-15-050, Snow Plow Truck Turnkey Package
608 East Boulevard Avenue
Bismarck, ND 58505-0700

Proposals must be received by the purchasing agency at the location specified no later than **3:00 P.M., CENTRAL**, on **May 19, 2015**. Proposals will not be publicly read at the opening.

Proposals may not be delivered orally, by facsimile transmission, by other telecommunication or electronic means. Offerors may fax or electronically transmit signed proposals to a third party who must deliver the proposal to the location indicated above by the date and time designated as the deadline for receipt of proposals.

Offerors assume the risk of the method of dispatch chosen. The State of North Dakota ("State") assumes no responsibility for delays caused by any delivery service. Postmarking by the due date will not substitute for actual proposal receipt by the State. An offeror's failure to submit its proposal prior to the deadline will cause the proposal to be rejected. Late proposals or amendments will not be opened or accepted for evaluation.

1.05

Assistance to Offerors with a Disability

Offerors with a disability that need an accommodation should contact the procurement officer prior to the deadline for receipt of proposals so that reasonable accommodation can be made.

1.06

Deadline for Receipt of Questions and Objections

Offerors must carefully review this solicitation, the contract, risk management provisions, and all attachments for defects, questionable, or objectionable material. All questions must be in writing and directed to the purchasing agency, addressed to the procurement officer, and cite the subject RFP number. The procurement officer must receive these written requests by the deadline specified in the RFP Schedule of Events to allow issuance of any necessary amendments.

This will also help prevent the opening of a defective solicitation and exposure of offeror's proposals upon which an award could not be made. Protests based on the content of the solicitation will be disallowed if these faults have not been brought to the attention of the procurement officer, in writing, before the time indicated in the Schedule of Events.

If the question may be answered by directing the questioner to a specific section of the RFP, then the procurement officer may answer the question over the telephone. Other questions may be more complex and may require a written amendment to the RFP. The procurement officer will make this determination. Oral communications is considered unofficial and non-binding on the State. The offeror must confirm telephone conversations in writing.

1.07

Approved Vendor Registration Requirements

VENDORS MUST BE APPROVED BEFORE CONTRACT AWARD

Proposals will be accepted from vendors that are not currently approved vendors on the State's bidders list; however, the successful offeror will be required to become approved prior to award.

To become an approved vendor, offerors must: 1) be registered with the North Dakota Secretary of State (fees apply), and 2) submit a completed Bidders List Application to the North Dakota Vendor Registry Office. Prospective offerors may access the Procurement Vendor Database on-line to verify whether their firm is currently on the bidders list. The bidders list that will be used for this solicitation is commodity code **065-30**.

The Procurement Vendor Database, registration instructions and forms are available on-line at: <http://www.nd.gov/spo/vendor/registry/>. Contact the Vendor Registry Office at 701-328-2683 or infospo@nd.gov for assistance.

The successful offeror must register and become approved within **60 CALENDAR DAYS** from the date of the Notice of Intent to Award. If an offeror fails to become approved by the time specified by the Procurement Officer, its proposal will be determined to be non-responsive, and its proposal will be rejected.

1.08

Pre-proposal Conference

No pre-proposal conference will be held for this RFP. Offerors are advised to carefully review the RFP and all attachments and submit all questions to the procurement officer by the deadline indicated for submission of questions in the schedule of events.

1.09

Amendments to the RFP

If an amendment to this RFP is issued, it will be provided to all offerors that were mailed a copy of the RFP and to those that have requested a copy of the RFP from the procurement officer.

1.10

News Releases

News releases related to this RFP will not be made without prior approval of the procurement officer or project manager designated by the State.

1.11

Notice Provided

The Request for Proposal and any amendments to the RFP will be posted on the following website: <http://www.nd.gov/spo/>

1.12

Letter of Interest

Vendors interested in receiving any notices related to this RFP are invited to contact the procurement officer with the name of their firm, contact person, mailing address, telephone number, fax number, and e-mail address. The sole purpose of the letter of interest is to provide the purchasing agency with a contact person to receive any notices related to the RFP. Submission of a letter of interest is not a requirement for submitting a proposal.

SECTION TWO BACKGROUND INFORMATION

2.01

Background Information

The North Dakota Department of Transportation, Procurement, Financial Management Division is soliciting proposals for the purchase and installation of approximately 17 snow and ice control turnkey truck packages beginning in September 2015 to be completed for the 2015-2016 winter season and an additional order of approximately 17 snow and ice control turnkey truck packages to be completed in for the 2016-2017 winter season. These numbers are approximate and NDDOT reserves the right to add or delete from these numbers based upon budget authority and need.

The turnkey packages include dump bodies, hydraulic systems, emergency lighting, anti-icing, sanding, and snow removal equipment installed on NDDOT provided tandem axle truck chassis. It is relevant that the units meet the requirements to operate in the adverse weather conditions experienced while performing snow removal from the North Dakota state highway system.

The units shall include features, which are regularly featured as standard production. The units shall conform in strength, quality of material, and workmanship to that provided by the best manufacturing and engineering practices of the industry.

Offerors shall represent, by proposals submitted, that the equipment is new, current model year, completely assembled, painted, tested, and ready for operation.

Offerors shall provide, in their proposals, complete equipment specifications, manufacturer brochures, warranties, parts and service location, detailed list of optional equipment and accessory prices, a proposed delivery schedule, and a list of three users with letters of reference, phone numbers of contact persons.

SECTION THREE SCOPE OF WORK

3.01

Scope of Work/Specification Guidelines

NOTE: These guidelines are intended to provide offeror with a detailed description of the turnkey packages. The State of North Dakota realizes that manufacturers differ in their design, encourage the submission of more than one proposal, and will objectively review all proposals.

The "Snow Plow Turnkey Truck Package" specifications including additional terms & conditions for delivery schedule and project bonus for early completion are posted as a separate attachment and must be completed and included with the proposal.

3.02

Location of Work

The work is to be performed, completed, and managed at the vendor's location.

The State WILL NOT provide workspace for the contractor.

The offeror should include in its price proposal: Transportation, lodging, and per diem costs sufficient to pay for one or more person(s) to make the trips necessary to the specified delivery locations to deliver the completed units.

**3.03
Prior Experience**

No specific minimums have been set for this RFP; however experience will be weighted by the proposal review team.

**3.04
Required Licenses**

At the time specified by the deadline for submission of proposals, the offeror must have and keep current any professional licenses and permits required by federal, state, and local laws for performance of this contract. Offerors that do not possess required licenses at the time proposals are due will be determined non-responsive.

**3.05
Federal Requirements**

The offeror must identify all known federal requirements that apply to the proposal, the evaluation, or the contract.

**3.06
Deliverables**

The contractor will be required to provide the following deliverables;

- a. Approximately 34 snow plow trucks completed, inspected and approved by NDDOT and ready for operation
- b. Operating CDs and/or manuals including maintenance information wiring diagrams, and parts lists for equipment installed
- c. Minimum twelve month warranty

**SECTION FOUR
GENERAL CONTRACT INFORMATION**

**4.01
Contract Terms**

The State intends to enter into a contract with an effective date beginning **6/19/2015** and ending **12/31/2016**.

**4.02
Contract Type**

This contract is a FIRM FIXED PRICE contract.

**4.03
Standard Contract Provisions**

The successful offeror will be required to sign and submit the contract attached to this RFP (Appendix A). The contractor must comply with the contract provisions set out in this attachment. Any objections to the contract provisions must be set out in the offeror's proposal. No alteration of these provisions will be permitted without prior written approval from the purchasing agency.

Offerors are instructed to contact the procurement officer in writing by the deadline set for questions with any concerns regarding the contract provisions.

**4.04
Proposal as a Part of the Contract**

Part or all of this RFP and the successful proposal may be incorporated into the contract.

4.05

Additional Terms and Conditions

The State reserves the right to add, delete, or modify terms and conditions during contract negotiations. These terms and conditions will be within the scope of the RFP and will not affect the proposal evaluations.

4.06

Supplemental Terms and Conditions

Proposals including supplemental terms and conditions will be accepted, but supplemental conditions that conflict with those contained in this RFP or that diminish the State's rights under any contract resulting from the RFP will be considered null and void. The State is not responsible for identifying conflicting supplemental terms and conditions before issuing a contract award. After award of contract:

- (a) if conflict arises between a supplemental term or condition included in the proposal and a term or condition of the RFP, the term or condition of the RFP will prevail; and
- (b) if the State's rights would be diminished as a result of application of a supplemental term or condition included in the proposal, the supplemental term or condition will be considered null and void.

4.07

Contract Approval

This RFP does not, by itself, obligate the State. The State's obligation will commence when the purchasing agency approves the contract. Upon written notice to the contractor, the State may set a different starting date for the contract. The State will not be responsible for any work done by the contractor, even work done in good faith, if it occurs prior to the contract start date set by the State.

4.08

Contract Changes - Unanticipated Amendments

During the course of this contract, the contractor may be required to perform additional work. That work will be within the general scope of the initial contract. When additional work is required, the project manager designated by the State will provide the contractor a written description of the additional work and request the contractor to submit a firm time schedule for accomplishing the additional work and a firm price for the additional work. Cost and pricing data must be provided to justify the cost of amendments.

The contractor will not commence additional work until the project director has secured any required State approvals necessary for the amendment and issued a written contract amendment, approved by the purchasing agency.

4.09

Indemnification and Insurance Requirements

Offerors must review the attached Risk Management Appendix for indemnification and insurance requirements. The indemnification and insurance provisions will be incorporated into the final contract.

Objections to any of the provisions of the Indemnification and Insurance Requirements must be made in writing to the attention of the procurement officer by the time and date set for receipt of questions. No alteration of these provisions will be permitted without prior written approval from the purchasing agency in consultation with the North Dakota Risk Management Division.

Upon receipt of the Notice of Intent to Award, the successful offeror must obtain the required insurance coverage and provide the procurement officer with proof of coverage prior to contract approval. The coverage must be satisfactory to the purchasing agency, in consultation with the North Dakota Risk Management Division. An offeror's failure to provide evidence of insurance coverage is a material breach and grounds for withdrawal of the award or termination of the contract.

4.10

Taxes and Taxpayer Identification

The contractor must provide a valid Vendor Tax Identification Number as a provision of the contract.

The State is not responsible for and will not pay local, state, or federal taxes. The State sales tax exemption number is E-2001, and certificates will be furnished upon request by the purchasing agency.

A contractor performing any contract, including service contracts, for the United States Government, State of North Dakota, counties, cities, school districts, park board or any other political subdivisions within North Dakota is not exempt from payment of sales or use tax on material and supplies used or consumed in carrying out contracts. In these cases, the contractor is required to file returns and pay sales and use tax just as required for contracts with private parties. Contact the North Dakota Tax Department at 701-328-3470 or visit its website at www.nd.gov/tax/ for more information.

A contractor performing any contract, including a service contract, within North Dakota is also subject to the corporation income tax, individual income tax, and withholding tax reporting requirements, whether the contract is performed by a corporation, partnership, or other business entity, or as an employee of the contractor. In the case of employees performing the services in the state, the contractor is required to withhold state income tax from the employees' compensation and remit to the state as required by law. Contact the North Dakota Tax Department at 701-328-3125 or visit its web site for more information

4.11

F.O.B. Point and Freight

All commodities purchased through this contract will be Free on Board ("F.O.B.") final destination, freight prepaid. Unless specifically stated otherwise, all prices offered must include the delivery costs to any location within the State of North Dakota. Title will pass to the State at destination, and the vendor will be responsible for any freight claims.

4.12

Proposed Payment Procedures

The State will make payments based on completed and inspected individual delivered units. Each billing must consist of an invoice including serial numbers of installed equipment, delivery location, and NDDOT assigned vehicle license number. No payment will be made until the project director has approved invoice.

4.13

Contract Funding

Approval or continuation of a contract resulting from this solicitation is contingent upon continuing appropriation. The contract may be terminated by the state or modified by agreement of both parties in the event funding from federal, state, or other sources is not obtained and continued at sufficient levels.

4.14

Payment Terms

No payment will be made until the purchasing agency approves the contract.

Payment for commodities and services received under contracts will normally be made within 30 calendar days after receipt and acceptance by the purchasing agency or after receipt of a correct invoice, whichever is later. Payment inquiries must be directed to the purchasing agency.

Prompt Payment Discount Terms offered by the contractor may be taken by the purchasing agency if payment is made within the specified terms.

4.15

Contract Personnel

The project manager designated by the purchasing agency must approve any change of the contractor's project team members named in the proposal, in advance and in writing. Personnel changes that are not approved by the State may be grounds for the State to terminate the contract.

4.16

Right to Inspect Place of Business

At reasonable times, the State may inspect those areas of the contractor's place of business that are related to the performance of a contract. If the State makes an inspection, the contractor must provide reasonable assistance.

4.17

Inspection & Modification - Reimbursement for Unacceptable Deliverables

The contractor is responsible for the completion of all work set out in the contract. All work is subject to inspection, evaluation, and approval by the project manager designated by the State. The State may employ all reasonable means to ensure that the work is progressing and being performed in compliance with the contract. Should the project manager determine that corrections or modifications are necessary in order to accomplish its intent; the project manager may direct the contractor to make changes. The contractor will not unreasonably withhold changes.

Substantial failure of the contractor to perform the contract may cause the State to terminate the contract. In this event, the State may require the contractor to reimburse monies paid (based on the identified portion of unacceptable work received) and may seek associated damages.

4.18

Termination for Default

If the project manager designated by the purchasing agency determines that the contractor has refused to perform the work or has failed to perform the work with diligence as to ensure its timely and accurate completion, the State may, by providing written notice to the contractor, terminate the contractor's right to proceed with part or all of the remaining work.

This clause does not restrict the State's right to termination under the contract provisions of the Service Contract, attached.

4.19

Open Records Laws - Confidentiality

Any records that are obtained or generated by the contractor under this contract are subject to North Dakota open records law regarding public records and handling of confidential information.

4.20

Work Product, Equipment, and Material

All work product, equipment or materials created or purchased under this contract belong to the State and must be delivered to State at State's request upon termination of this contract, unless otherwise agreed in writing by the purchasing agency.

4.21

Assignment

Contractor may not assign or otherwise transfer or delegate any right or duty without the State's express written consent. However, the contractor may enter into subcontracts provided that the subcontract acknowledges the binding nature of this contract and incorporates this contract, including any attachments.

4.22

Disputes - Applicable Law and Venue

Any dispute arising out of this agreement will be resolved under the laws of the State of North Dakota.

SECTION FIVE EVALUATION CRITERIA AND CONTRACTOR SELECTION

THE TOTAL NUMBER OF POINTS USED TO SCORE THIS CONTRACT IS 100

5.01

Applicability and Specifications

Thirty five Percent (35%) of the total possible evaluation points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

- [a] Has the offeror demonstrated a thorough understanding of the applicability of the snow plow unit?
- [b] How well has the offeror presented the specifications and literature about their snow plow truck package with minimal specification deviations?
- [c] Has the offeror demonstrated an understanding of the deliverables the State expects it to provide?
- [d] Does the offer propose a delivery schedule that is acceptable to the State of North Dakota?
- [e] Is the proposal submitted responsive to all material requirements in the RFP?

5.02

Parts and Service

Ten Percent (10%) of the total possible evaluation points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

- [a] Does the offeror provide a means for prompt delivery of parts?
- [b] Does the offeror provide a means for prompt repair service and support for all delivery locations?

5.03

Product History, Experience and References

Ten Percent (10%) of the total possible evaluation points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

- [a] Does the offeror provide a good history of their products?
- [b] Does the offeror provide the minimum number of references as required in the specifications?
- [c] Are the referenced users satisfied with their existing units?
- [d] Has the offeror provided evidence of a high level of experience in the manufacturing and support of the product?

5.04

Warranty

Five Percent (5%) of the total possible points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

[a] Does the offeror provide a prompt means to handle warranty repair?

[b] Does the warranty coverage meet the needs of the State of North Dakota?

[c] Does the offeror provide a vendor to handle warranty repairs within ND or a bordering city?

[d] Does the offeror provide follow up services to the eight delivery locations for the purposes of correcting any problems that may arise during the warranty period?

5.05

Contract Cost

Forty Percent (40%) of the total possible evaluation points will be assigned to cost.

Any prompt payment discounts terms proposed by the offeror will not be considered in evaluating cost. The cost amount used for evaluation may be affected by the application of North Dakota preference laws (N.D.C.C. § 44-08-01). The lowest cost proposal will receive the maximum number of points allocated to cost. The point allocations for cost on the other proposals will be evaluated according to the method set forth in the Proposal Evaluation form attached to this RFP.

5.06

Site Inspection of Offeror's Facility

The State may conduct on-site visits to the offeror's firm or offeror's customer where comparable service is being performed to evaluate the offeror's capacity to perform the contract. An offeror must agree, at risk of being found non-responsive and having its proposal rejected, to provide the State reasonable access to relevant portions of its work sites. Individuals designated by the purchasing agency will conduct the site inspection at the State's expense.

SECTION SIX PROPOSAL FORMAT AND CONTENT

6.01

Proposal Format and Content

The State discourages overly lengthy and costly proposals; however, in order for the State to evaluate proposals fairly and completely, offerors must follow the format set out in this RFP and provide all information requested.

6.02

Introduction

Proposals must include the complete name and address of offeror's firm and the name, mailing address, and telephone number of the person the State should contact regarding the proposal. Proposals must be submitted in 3-ring binders with indexing.

Proposals must confirm that the offeror will comply with all provisions in this RFP. The proposal must disclose any instances where the firm or any individuals working on the contract has a possible conflict of interest and, if so, the nature of that conflict (e.g. employed by the State of North Dakota).

Proposals must be signed by a company officer empowered to bind the company. An offeror's failure to include these items in the proposals may cause the proposal to be determined to be non-responsive and the proposal

may be rejected.

6.03

Applicability and Specifications

Offerors must provide comprehensive narrative statements that illustrate their understanding of the requirements of the snow plow truck turnkey package, deliverables, and contract terms and conditions. Offerors must also identify any pertinent issues and potential problems related to the project.

6.04

Parts and Service

Offerors must illustrate how they will provide the parts and services in a timely manner as required to support the installed equipment.

6.05

Product History, Experience and References

Offerors must provide comprehensive narrative statements that describe the company experience and product history. In addition, offerors must also provide three (3) reference names and phone numbers for similar units the offeror's firm has completed. The State reserves the right to contact any references provided by the offeror. Offerors are invited to provide letters of reference from previous clients.

6.06

Warranty

Offerors must provide detailed explanation of warranty coverage, methods of how warranty repairs will be handled promptly, and the vendor name and location handling the warranty repairs.

6.07

Cost Proposal

Offerors should describe any discounts terms for prompt payment. Discounts for prompt payment will not be considered in evaluating cost.

Offerors must complete cost proposal attached to this RFP or prepare a cost proposal following the same format.

6.08

Required Enclosures

Offerors must provide all documents, samples, or other information specifically required in this RFP.

1. Proposal Response Sheet
2. Completed specifications with any deviations
3. Product Literature
4. Letters of reference
5. History of products installed
6. Warranty information
7. Parts and service information

SECTION SEVEN STANDARD PROPOSAL INFORMATION

7.01

Authorized Signature

An individual authorized to bind the offeror to the provisions of the RFP must sign all proposals.

7.02

State Not Responsible for Preparation Costs

The State will not pay any cost associated with the preparation, submittal, presentation, or evaluation of any proposal.

7.03

Conflict of Interest

Offerors must disclose any instances where the firm or any individuals working on the contract has a possible conflict of interest and, if so, the nature of that conflict (e.g. employed by the State of North Dakota). The State reserves the right to cancel the award if any interest disclosed from any source could either give the appearance of a conflict or cause speculation as to the objectivity of the offeror's proposal. The State's determination regarding any questions of conflict of interest is final.

7.04

Offeror's Certification

By signature on the proposal, an offeror certifies that it complies with:

- a) the laws of the State of North Dakota;
- b) North Dakota Administrative Code;
- c) all applicable local, state, and federal laws, code, and regulations;
- d) the applicable portion of the Federal Civil Rights Act of 1964;
- e) the Equal Employment Opportunity Act and the regulations issued by the federal government;
- f) the Americans with Disabilities Act of 1990 and the regulations issued by the federal government;
- g) all terms, conditions, and requirements set forth in this RFP;
- h) a condition that the proposal submitted was independently arrived at, without collusion;
- i) a condition that the offer will remain open and valid for the period indicated in this solicitation; and
- j) a condition that the firm and any individuals working on the contract do not have a possible conflict of interest (e.g. employed by the State of North Dakota).

If any offeror fails to comply with the provisions stated in this paragraph, the State reserves the right to reject the proposal, terminate the contract, or consider the contractor in default.

7.05

Offer Held firm

Proposals must remain open and valid for at least **90 DAYS** from the deadline specified for submission of proposals. In the event award is not made within **90 DAYS**, the State will send a written request to all offerors deemed susceptible for award asking offerors to hold their price firm for a longer specified period of time.

7.06

Amendments to Proposals and Withdrawals of Proposals

Offerors may amend or withdraw proposals prior to the deadline set for receipt of proposals. No amendments will be accepted after the deadline unless they are in response to the State's request. After the deadline, offerors may make a written request to withdraw proposals and provide evidence that a substantial mistake has been made. The procurement officer may permit withdrawal of the proposal upon verifying that a substantial mistake has been made, and the State may retain the offeror's bid bond or other bid type of bid security, if one was required.

7.07

Alternate Proposals

Offerors may submit more than one proposal for evaluation.

Alternate proposals (proposals that offer something different than what is requested) will be considered.

7.08

Subcontractors

Subcontractors may be used to perform work under this contract. If an offeror intends to use subcontractors, the offeror must identify this information in the proposal:

- (a) The complete name of the subcontractor;
- (b) the complete address of the subcontractor;
- (c) the type of work the subcontractor will be performing;
- (d) the percentage of work the subcontractor will be providing;
- (e) and three references from customers of each named subcontractor.

If a proposal with subcontractors is selected, the offeror must provide the following information concerning each prospective subcontractor within **SEVEN WORKING DAYS** from the date of the State's request:

- (a) Evidence, as set out in the relevant section of this RFP, that the subcontractor is a registered bidder and, if applicable, holds a valid North Dakota business license; and
- (b) a written statement, signed by each proposed subcontractor, that clearly verifies that the subcontractor is committed to render the services required by the contract,

An offeror's failure to provide this information, within the time set, may cause the State to consider its proposal non-responsive and reject it. The substitution of one subcontractor for another may be made only at the discretion and prior written approval of the State's procurement officer or contract manager designated by the State.

7.09

Joint Ventures

Joint ventures will not be allowed.

7.10

Disclosure of Proposal Contents and Compliance with North Dakota Open Records Laws

All proposals and other material submitted become the property of the State and may be returned only at the State's option. All proposals and related information, including detailed cost information, are exempt records and will be held in confidence until an award is made, in accordance with N.D.C.C. § 54-44.4-10(2).

Offerors may make a written request that trade secrets and other proprietary data contained in proposals be held confidential. Material considered confidential by the offeror must be clearly identified, and the offeror must include a brief statement that sets out the reasons for confidentiality. See the North Dakota Office of the Attorney General website for additional information. <http://www.ag.state.nd.us/OpenRecords/ORM.htm>

After award, proposals will be subject to the North Dakota open records law. Records are closed or confidential only if specifically stated in law. If a request for public information is received, the procurement officer, in consultation with the Office of the Attorney General, will determine whether the information is an exception to the North Dakota open records law, and the information will be processed appropriately.

7.11

Evaluation of Proposals

All proposals will be reviewed to determine if they are responsive to the requirements of this solicitation. The procurement officer or an evaluation committee will evaluate responsive proposals. The evaluation will be based solely on the evaluation factors set forth in this RFP. The evaluation will consider information obtained subsequent to any discussions with offerors determined to be reasonable for award and any demonstrations, oral presentations, or site inspections, if required in this RFP.

7.12

Right of Rejection

The State reserves the right to reject any proposals, in whole or in part. Proposals received from debarred or suspended vendors will be rejected. The procurement officer may reject any proposal that is not responsive to all of the material and substantial terms, conditions, and performance requirements of the RFP.

Offerors may not qualify the proposal nor restrict the rights of the State. If an offeror does so, the procurement officer may determine the proposal to be a non-responsive counter-offer and the proposal may be rejected.

The procurement officer may waive minor informalities that:

- do not affect responsiveness;
- are merely a matter of form or format;
- do not change the relative standing or otherwise prejudice other offers;
- do not change the meaning or scope of the RFP;
- are insignificant, negligible, or immaterial in nature;
- do not reflect a material change in the work; or
- do not constitute a substantial reservation against a requirement or provision,

The State reserves the right to reject any proposal determined to be not responsive, and to reject the proposal of an offeror determined to be not responsible. The State also reserves the right to refrain from making an award if it determines it to be in its best interest.

7.13

Clarification of Offers

In order to determine if a proposal is reasonably susceptible for award, communications by the procurement officer or the proposal evaluation committee are permitted with an offeror to clarify uncertainties or eliminate confusion concerning the contents of a proposal and determine responsiveness to the RFP requirements. Clarifications may not result in a material or substantive change to the proposal. The initial evaluation may be adjusted because of a clarification under this section.

After receipt of proposals, if there is a need for any substantial clarification or material change in the RFP, an amendment will be issued. The amendment will incorporate the clarification or change, and a new date and time established for new or amended proposals. Evaluations may be adjusted as a result of receiving new or amended proposals.

7.14

Discussions and Best and Final Offers

The State may conduct discussions or request best and final offers with offerors that have submitted proposals determined to be reasonably susceptible for award. The State is not obligated to do so, therefore, vendors should submit their best terms (cost and technical). The purpose of these discussions is to ensure full understanding of the requirements of the RFP and the offeror's proposal. Discussions will be limited to specific sections of the RFP or proposal identified by the procurement officer. Discussions, if held, will be after initial evaluation of proposals by the proposal evaluation committee. If modifications to the proposal are made as a result of these discussions, the modifications must be put in writing.

Offerors with a disability needing accommodation should contact the procurement officer prior to the date set for discussions so that reasonable accommodation can be made.

7.15

Preference Laws

The preference given to a resident North Dakota offeror will be equal to the preference given or required by the state of the nonresident bidder. A "resident" North Dakota bidder, offeror, seller, or contractor is one that has maintained a bona fide place of business within this State for at least one year prior to the date on which a contract was awarded. For a listing of state preference laws, visit the following website: http://egov.oregon.gov/DAS/PFSS/SPO/reciprocal_detail.shtml or contact the North Dakota State Procurement Office at 701-328-2740.

7.16

Contract Negotiation

After final evaluation, the procurement officer may negotiate with the offeror of the highest-ranked proposal. Negotiations, if held, will be within the scope of the request for proposals and limited to those items that would not have an effect on the ranking of proposals. If the highest-ranked offeror fails to provide necessary information for negotiations in a timely manner, or fails to negotiate in good faith, the State may terminate negotiations and negotiate with the offeror of the next highest-ranked proposal.

If contract negotiations are commenced, they will be held:

North Dakota Department of Transportation
Procurement, Financial Management Division
608 East Boulevard Avenue
Bismarck, ND

If contract negotiations are held, the offeror will be responsible for all cost including its travel and per diem expenses.

7.17

Failure to Negotiate

If the selected offeror:

- fails to provide the information required to begin negotiations in a timely manner;
- fails to negotiate in good faith;
- indicates it cannot perform the contract within the budgeted funds available for the project; or
- if the offeror and the State, after a good faith effort, cannot come to terms,

the State may terminate negotiations with the offeror initially selected and commence negotiations with the next highest ranked offeror.

7.18

Notice of Intent to Award - Offeror Notification of Selection

After the completion of contract negotiation the procurement officer will issue a written Notice of Intent to Award and send copies to all offerors. The Notice of Intent Award will set out the names and addresses of all offerors and identify the proposal selected for award. The scores and placement of other offerors will not be part of the Notice of Intent to Award.

The successful offeror named in the Notice of Intent to Award is advised not to begin work, purchase materials, or enter into subcontracts relating to the project until both the successful offeror and the State sign the contract.

7.19

Protest and Appeal

North Dakota law provides that an interested party may protest a solicitation.

If an interested party wishes to protest the content of this RFP, the protest must be received, in writing, by the procurement officer at least seven calendar days before the deadline for receipt of proposals.

An interested party may protest the award or proposed award of a contract.

If an offeror wishes to protest the award of a contract or proposed award of a contract, the protest must be received, in writing, by the procurement officer within seven calendar days after the date the Notice of Intent to Award was issued.

SECTION EIGHT ATTACHMENTS

8.01

Attachments

1. Proposal Evaluation Form
2. Contract Form
3. Indemnification and Insurance Requirements Appendix
4. Proposal Response Sheet
5. Sample Notice of Award
6. Offeror Checklist

PROPOSAL EVALUATION FORM

All proposals will be reviewed for responsiveness and then evaluated using the criteria set out herein.

INSTRUCTIONS FOR EVALUATORS

Each evaluation criterion has been assigned a specific number of points. The questions under each evaluated area help you measure the quality of the offeror's response. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

RATING SCALE FOR ASSESSING VENDOR RESPONSES

This rating scale is intended to establish guidelines within that range to ensure members of the RFP evaluation committee perform their evaluation with consistency. You may assign any value for a given criteria from 0 to the maximum number of points. A zero value typically constitutes no response or an inability of the vendor to meet the criterion. In contrast, the maximum value should constitute a high standard of meeting the criterion. If a specific criterion would only yield a yes or no response (e.g., offeror can submit an electronic report in required format by noon Friday), the evaluator should award either the maximum points or a zero.

For Example: "Experience and Qualifications" is an evaluation criteria receiving a weighting of 20% of the total possible points. Using a 100 Point Scale, a maximum of 20 points can be awarded. The rating scale would be:

Rating Scale (20 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-5	Fair. Limited applicability
6-10	Good. Some applicability
11-15	Very Good. Substantial applicability
16-20	Excellent. Total applicability

COST PROPOSAL

If offerors were required to place cost proposals in a separate sealed envelope, do not open the cost proposal until the technical proposals have been evaluated.

Not all members of the evaluation need to evaluate the cost proposal. The cost proposals may be evaluated by selected members of the evaluation committee, reviewed by group, and recorded on the evaluation summary sheets.

Any prompt payment discounts terms offered by the vendor are not taken into consideration in evaluating cost. However, the cost proposals of nonresident offerors may be adjusted by the application of preference laws, if applicable. Contact the State Procurement Office at 701-328-2683 for assistance in applying preference laws.

EVALUATION CRITERIA AND SCORING

Person or Firm Name _____

Name of Proposal Evaluation (PEC) Member _____

Date of Review _____

RFP Title/Number _____

THE TOTAL NUMBER OF POINTS USED TO SCORE THIS CONTRACT IS 100

6.03

Applicability and Specifications

Weight **35 Percent**. Maximum Point Value for this Section
100 Points x **35 Percent** = **35 Points**

Rating Scale (35 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-9	Fair. Limited applicability
10-17	Good. Some applicability
18-26	Very Good. Substantial applicability
27-35	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Has the offeror demonstrated a thorough understanding of the applicability of the snow plow unit?

EVALUATOR'S NOTES

[b] How well has the offeror presented the specifications and literature about their snow plow truck package with minimal specification deviations?

EVALUATOR'S NOTES

[c] Has the offeror demonstrated an understanding of the deliverables the State expects it to provide?

EVALUATOR'S NOTES

[d] Does the offer propose a delivery schedule that is acceptable to the State of North Dakota?

EVALUATOR'S NOTES

[e] Is the proposal submitted responsive to all material requirements in the RFP?

EVALUATOR'S NOTES

**EVALUATOR'S POINT TOTAL FOR
6.03**

**6.04
Parts and Service**

Weight **10 Percent**. Maximum Point Value for this Section
100 Points x **10 Percent** = **10 Points**

Rating Scale (10 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability
3-5	Good. Some applicability
6-7	Very Good. Substantial applicability
8-10	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Does the offeror provide a means for prompt delivery of parts?

EVALUATOR'S NOTES

[b] Does the offeror provide a means for prompt repair service and support for all delivery locations?

EVALUATOR'S NOTES

EVALUATOR'S POINT TOTAL FOR 6.04

6.05**Product History and References**

Weight **10 Percent**. Maximum Point Value for this Section

100 Points x **10 Percent** = **10 Points**

Rating Scale (10 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability
3-5	Good. Some applicability
6-7	Very Good. Substantial applicability
8-10	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Does the offeror provide a good history of their products?

EVALUATOR'S NOTES

[b] Does the offeror provide the minimum number of references as required in the specifications?

EVALUATOR'S NOTES

[c] Are the referenced users satisfied with their units?

EVALUATOR'S NOTES

[d] Has the offeror provided evidence of a high level of experience in the manufacturing and support of the product?

EVALUATOR'S NOTES

EVALUATOR'S POINT TOTAL FOR 6.05

**6.06
Warranty**

Weight **5 Percent**. Maximum Point Value for this Section
100 Points x **5 Percent** = **5 Points**

Rating Scale (5 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability
3	Good. Some applicability
4	Very Good. Substantial applicability
5	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Does the offeror provide a prompt means to handle warranty repair?

EVALUATOR'S NOTES

[b] Does the warranty coverage meet the needs of the State of North Dakota?

EVALUATOR'S NOTES

[c] Does the offeror provide a vendor to handle warranty repairs within ND or in a bordering city?

EVALUATOR'S NOTES

[d] Does the offeror provide follow up services to the eight delivery locations for the purposes of correcting any problems that may arise during the warranty period?

EVALUATORS NOTES

EVALUATOR'S POINT TOTAL FOR 6.06

6.07

Contract Cost

Weight **40 Percent**. Maximum Point Value for this Section
100 Points x **40 Percent** = **40 Points**

Applying Preference Laws

Any prompt payment discounts terms proposed by the offeror will not be considered in evaluating cost. The cost amount used for evaluation may be affected by the application of North Dakota preference laws (N.D.C.C. § 44-08-01). The preference given to a resident offeror will be equal to the preference given or required by the state of the nonresident offeror (i.e. reciprocal preference).

When evaluating cost proposals from nonresident (out-of-state) offerors, determine whether the offeror's state of residence has a preference law for vendors resident in that state. The cost proposal of the nonresident offeror will be increased by the same percentage of preference given to vendors resident in that state.

For example, if the state law of the nonresident offeror requires a 5% preference for vendors resident in that state, the procurement officer will increase that offeror's cost proposal by 5% before evaluation.

See http://www.oregon.gov/DAS/SSD/SPO/reciprocal_detail.shtml for a list of States Preference Laws or contact the North Dakota State Procurement Office at 701-328-2683.

Converting Cost to Points

After applying any reciprocal preference, the lowest cost proposal will receive the maximum number of points allocated to cost. The point allocations for cost on the other proposals will be determined as follows:

$$\frac{\text{Price of Lowest Cost Proposal}}{\text{Price of Proposal Being Rated}} \times \text{Total Points for Cost Available} = \text{Awarded Points}$$

COST PROPOSAL EVALUATION

See Attachment 4 – Proposal Response Sheet

EVALUATOR'S POINT TOTAL FOR 6.07

**Request for Proposal
Evaluation Summary**

Name of RFP:		
RFP Number:		
Vendor Being Evaluated:		
Evaluator Name:		
Date:		
Technical Evaluation (Maximum 60 Points)	Maximum Points by Category	Score
1. Applicability and Specifications	35	
2. Parts and Service	10	
3. Product History, Experience and References	10	
4. Warranty	5	
Cost Evaluation (Maximum 40 Points) 1. Make adjustments for reciprocal preference, if necessary. See list of States Preference Laws: http://www.oregon.gov/DAS/SSD/SPO/reciprocal_detail.shtml 2. Calculated points awarded for price. <u>Price of Lowest Cost Proposal</u> Price of Proposal Being Rated X 40 points = Awarded Points		
5. Cost	40	
Total		

**Request for Proposal
Evaluation Totals**

Name of RFP:						
Name of Offeror:						
Date:						
Technical Evaluation Criteria	60 POINTS Maximum	Evaluator	Evaluator	Evaluator	Evaluator	Evaluator
1. Applicability and Specifications	35					
2. Parts and Service	10					
3. Product History, Experience and References	10					
4. Warranty	5					
Evaluator Totals						
Grand Total		Note: Sum of all individual scores.				
Technical Proposal Score		Note: Total of individual points divided by the number of evaluators (60 POINT MAXIMUM).				
Cost Propose Score		Note: (40 POINT MAXIMUM)				
TOTAL						

**Request for Proposal
Summary of Evaluation Committee Totals**

Name of RFP:						
Date:						
Technical Evaluation Criteria	60 POINTS Maximum	Vendor 1	Vendor 2	Vendor 3	Vendor 4	Vendor 5
1. Applicability and Specifications	35					
2. Parts and Service	10					
3. Product History and References	10					
4. Warranty	5					
Technical Proposal Score						
Cost Proposals Score						
Grand Total						

CONTRACT – Next 4 Pages

ATTACHMENT 3

RISK MANAGEMENT AND CIVIL RIGHTS APPENDIX – Next 3 Pages

Proposal Response Sheets– Next 3 Pages

Instructions: ONE (1) completed set of cost proposal response sheets is to be submitted in a separate sealed envelope or package, clearly labeled “cost proposal.”

Proposals must be signed by a company officer empowered to bind the company. An offeror's failure to include these items in the proposals may cause the proposal to be determined to be non-responsive and the proposal may be rejected.

**RFP Number: 065-30-15-030
Proposal Response Sheets**

TURNKEY PACKAGE ITEM #1

Purchase price and labor to install 14' dump & spreader box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear-mount snow wing and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2ADSUBW SSP-01	14' dump & spreader box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$
SSP-95-5700-4	400 gallon hopper pre-wet system furnished and installed.	\$
Total package price each.		\$
Package price x 20 = Total Contract Price for Package #1		\$

TURNKEY PACKAGE ITEM #2

Purchase price and labor to install 14' dump box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear mount snow wing, tailgate sander, box vibrator, and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2AUBW SSP-01	14' dump box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$
SSP-95-2400-4	Tailgate sander furnished and installed.	\$
SSP-95-5700-10	150 gallon tailgate pre-wet system furnished and installed.	\$
Box vibrator, Cougar model DC-3200, Tend Air model RV-3500 or approved equal, furnished and installed as per manufacturer's instructions with mounting and location to be approved by NDDOT.		\$
Total package price.		\$
Package price x 15 = Total Contract Price for Package #2		\$

Truck Delivery Charges Per Unit for the Following Destinations:

Bismarck - \$ _____

Dickinson - \$ _____

Valley City - \$ _____

Grand Forks - \$ _____

Devils Lake - \$ _____

Williston - \$ _____

Minot - \$ _____

Fargo - \$ _____

PROPOSED DELIVERY TIME FOR 17 UNITS IN 2015: _____ DAYS (AFTER RECEIPT OF CHASSIS)

PROPOSED DELIVERY TIME FOR 17 UNITS IN 2016: _____ DAYS (AFTER RECEIPT OF CHASSIS)

ITEM #3

Option: Purchase additional complete quick hitch assemblies with installation hardware for life of contract.

FOB: Bismarck, ND. Price each \$ _____.

ITEM #4

Option: Purchase additional quick hitch assemblies without lift cylinder and with complete installation hardware for a life of contract.

FOB: Bismarck, ND. Price each \$ _____.

ITEM #5

Option: Purchase additional stainless steel tailgate spreaders with side shields, installation hardware, and as specified within for life of contract.

FOB: Bismarck, ND. Price each \$ _____.

ITEM #6

Option: Force America 6100-3 lane programming package with individual loose wires for lane selection. Truck portion of trailer anti-ice wiring harness. All necessary hydraulic plumbing and couplers needed to connect to the trailer at the rear of truck.

Price each installed \$ _____.

ITEM #7

Option: Force America 5 joystick controller and 2 additional valve sections with all necessary hydraulic plumbing and couplers needed to connect to the tow plow at the right rear of truck.

Price each installed \$ _____.

ITEM #8

Option: Purchase additional 14' stainless steel dump/spreader box with cylinder, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ _____.

ITEM #9

Option: Purchase additional 14' stainless steel dump box with cylinder, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ _____.

ITEM #9

Option: Purchase dual auger w/stainless steel cover plate and vibrator in lieu of conveyor chain on dump/spreader box.

Add/Deduct \$ _____.

ITEM #10

Option: Mounting/hardware for dual wing.

Add/Deduct \$ _____.

ITEM #11

Option: Reflexite® V82 red and white reflective conspicuity tape.

Price per foot installed \$ _____

ITEM #12

Option: Paraglide type wing post and counterbalance valve in lieu of standard slide type wing post.

Add/Deduct \$ _____.

ITEM #13

Option: Purchase heavy duty flatbed to support 2500 brine tank, approximately 8'Wx16'L, stake pockets, rub rails, treadplate floor and countersunk LED lighting. Class F double acting hoist, 45° dump angle w/safety props. No bulkhead.

DUMP BOX MAKE: _____

MODEL: _____

HOIST MAKE: _____

MODEL: _____

FOB: Fargo, ND. Price w/o labor \$ _____.

Receipt of the following addenda to the RFP, by date, is acknowledged:

SIGNED: _____

FULL NAME: _____
(Please Print)

TITLE: _____

FIRM NAME: _____

FIRM ADDRESS: _____

FIRM PHONE NUMBER: _____ FIRM FAX NUMBER: _____

EMAIL ADDRESS: _____

Proposals must remain open and valid for at least 90 DAYS from the deadline specified for submission of proposals. Proposals may be withdrawn at any time prior to proposal opening date.

The signatory agrees that the NDDOT has the right to reject any or all proposals for any reason.

STATE OF NORTH DAKOTA
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
608 EAST BOULEVARD AVENUE
BISMARCK, ND 58505-0700
TELEPHONE 701-328-4466 FAX NUMBER 701-328-0310

DATE

NOTICE OF INTENT TO AWARD

Request for Proposal (RFP) 065-30-15-030 Snow Plow Turnkey Truck Package was issued by the North Dakota Department of Transportation on 04/13/2015.

The following vendors submitted proposals in response to the RFP:

LIST NAMES AND ADDRESSES OF ALL OFFERORS THAT SUBMITTED PROPOSALS OR INCLUDE AS AN ATTACHMENT.

A committee evaluated the proposals based upon the criteria stated in the RFP to select the offeror that submitted the most advantageous proposal. We announce our intent to award a contract to ***NAME OF SUCCESSFUL OFFEROR.***

The successful offeror is instructed not to begin work, purchase materials, or enter into subcontracts relating to the project until both the recipient and the State sign the contract.

An offeror may protest this Notice of Intent to Award by submitting a written protest to the procurement officer within seven calendar days after the date of this notice.

On behalf of the North Dakota Department of Transportation, thank you for your efforts in preparing a proposal in response to this solicitation. We appreciate your interest in doing business with the State of North Dakota, and your company will remain our bidders list for any future solicitations of a similar nature.

If you have any questions, please feel free to contact me at (701) 328-4466.

Sincerely,

Vanessa Brosten

Procurement Officer

ATTACHMENT 6

CHECKLIST FOR OFFERORS

- ☐ Submit any questions, comments, or requests for clarification to the procurement officer by the deadline for submission of questions.
- ☐ Review the Attachments 2 and 3. State any objections to any of the provisions in the Contract Form or Indemnification and Insurance Requirements prior to the deadline for submission of questions.
- ☐ Be sure an individual authorized to bind the offeror to the provisions of the RFP signs the proposal.
- ☐ Comply with the North Dakota Secretary of State and the North Dakota State Procurement Office Registration requirements prior to the deadline stated in the RFP.
- ☐ Comply with professional licensing requirements, and provide copies of certifications, if required.
- ☐ Provide the information about the qualifications of the firm that will be working on the project.
- ☐ Provide the information about all subcontractors that will be working on the project as required in section 7.08 of the proposal.
- ☐ Identify all known federal requirements that apply to the proposal, the evaluation, or the contract.
- ☐ Provide the required number of letters of reference.
- ☐ Provide all documents or materials that must be submitted with the RFP.
- ☐ Identify and label and sections of the proposal you feel contain confidential information.
- ☐ Provide completed specifications with any deviations clearly stated.
- ☐ Provide product literature with history, warranty, service, parts, and product support information.
- ☐ Provide ONE ORIGINAL (1) AND FOUR COPIES (4) of the proposal furnished in a 3-ring binder with indexing, without pricing in a sealed envelope or package.
- ☐ Provide proposal response sheets, completed in their entirety, plus complete list of options with pricing, submitted in a separate sealed envelope or package, clearly labeled "cost proposal".

Bert's

TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

From Start to Finish, We're the
Snow and Ice Control Specialist!



Request for Proposal

Original

BID OPENING DATE – May 19, 2015 3 PM
ND Dept. of Transportation
RFP: 065-30-15-050 Snowplow Truck Turnkey Package
608 East Boulevard Avenue
Bismarck, ND 58505-0700

THE TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
Fax: (218) 233-9548
1-800-232-3787

3804 Hwy. 75 North
Moorhead, MN 56560

Email: jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

May 18th, 2015

Vanessa Brosten
North Dakota State Fleet
608 East Boulevard Avenue
Bismarck, ND 58505-0700

Dear Vanessa:

Bert's Truck Equipment is pleased to submit the following **"Price Proposal"** for the for the State of North Dakota "Turnkey Snow Plow Truck Equipment" for your 2015 and 2016 calendar year.

For the past 76 years, Bert's Truck Equipment has provided our customers with the highest quality equipment backed by years of professional installations. Because we have been building "turnkey" plow trucks for over 27 years, we have an in-depth knowledge and understanding of the upcoming project, and the highly skilled staff to meet the states expectations and requirements.

Bert's Truck Equipment is proud to be a certified **"MVP"** equipment provider and installer as recognized by the National Truck Equipment Association.

Please feel free to contact me if you have any questions or concerns regarding our proposals. We look forward to serving the North Dakota Department of Transportation's equipment needs!

Sincerely

Jim McLaughlin
Commercial, Fleet, and Government Sales

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

Production Schedule 2015-2016

Bert's Truck Equipment understands the importance of the North Dakota's Department of Transportation's need to have the turn key snowplow trucks completed on time with little or no re-work required. We have always prided ourselves with the highest quality installation and timely delivery. We are a certified "MVP" installer as recognized by the National Truck Equipment Association. It is with this understanding that we propose the timeline for completion of the state's plow trucks.

Time per chassis

Bert's Truck Equipment would complete the 17-18 chassis per build in 108 Calendar days from the time the first chassis is delivered to us and all necessary components are available for installation.

We feel that this schedule is reasonable and allows adequate time to complete each unit yet insure the highest quality workmanship. Any add on units could be completed in a 7 day turn around.

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com

SPECIFIC TERMS & CONDITIONS

General Information. The State of North Dakota truck fleet is a very large investment, and maximizing that investment is imperative. State Fleet Services operates using revenues generated from the rental of its vehicles to state agencies and institutions, and State Fleet Services incurs costs of **\$400** per truck each month over a seventeen-year amortization schedule/lifecycle. When new trucks are purchased, they cannot be rented by using agencies until truck boxes and accessories have been installed, and these costs can be substantial. For example, if twenty new trucks are purchased and the installer takes six months to install the box and accessories, the state incurs cost of **\$48,000** without receiving any revenues from those trucks. Additional costs may be incurred if a delay in receiving the new trucks results in major repairs being made to an old truck or prevents old trucks from being sold at auction. These expenses increase the rental rates of all state fleet vehicles, and ultimate increases to cost of state government. **Therefore, reducing the time required to approximately 120 days or less to integrate 20 new trucks into the fleet system is in the best interest of the state and North Dakota taxpayers.** In order to expedite the equipment installation process, the successful bidder may have the trucks drop shipped from the OEM to a plow/body manufacturer for some or all of the assembly; however the bidder must correct any deficiencies to the installations found by the inspection team within the borders of ND, a bordering city, or a location agreed to with NDDOT. If any installation of equipment is performed at a plow/body manufacturer, the bidder must provide round trip transportation and per diem for 2 NDDOT employees from Bismarck ND to inspect and approve the prototype.

Award. Award will be made to the offeror whose proposal best meets the specifications and other requirements of the request for proposal (RFP) and is the best proposal based on selection committee's review and scoring of all proposals using the guidelines outlined in the RFP. Minor deficiencies or technical variances, which by their nature, are restrictive to a given manufacturer, may be waived if, in the judgment of the RFP committee it would be in the best interest of the state of North Dakota and would not prejudice the rights of other offerors. The state reserves the right to reject any and all proposals in whole or in part. The state reserves the right to award by item, groups of items, or total proposal cost for all items.

Required Delivery Schedule, Acceptance, and Payment. Upon award, a staggered delivery schedule will be created based on number and type of trucks awarded to the contractor(s). The timetable will begin when at least three chassis are delivered to the contractor. Time will be allowed for prior contractor projects to be completed. Two additional working days will be allowed per package type for prototype time. State Fleet Services will arrange to have the chassis delivered to the successful contractor(s). **All trucks must pass a final inspection and be accepted by NDDOT at the contractor(s) location within ND, a bordering city, or other location as agreed to with NDDOT. Any deficiencies identified by the inspection team must be made at the inspection site or otherwise agreed upon location to bring the truck into compliance before delivery can be made.** Final inspections will be made as trucks are completed and delivery must be made within one week of each final inspection. Payment will not be made until trucks have been delivered and accepted by the delivery location. Payment will be withheld on final unit until calibration and training requirements have been met. Vendor is to contact named NDDOT representative to schedule inspections at least 5 days in advance.

Performance incentive. It is of the best interest of the state to complete the trucks in a timely manner; therefore, the following incentive has been created: If the contractor(s) delivers all trucks to

the respective shipping location before the required delivery date an additional award of 3% of the total award will be paid to the vendor. No performance incentive will be awarded for delivery after the required delivery date or if trucks fail to pass the final inspection and do not meet the acceptance requirements of NDDOT. No sacrifices in quality of product or workmanship will be accepted to meet this incentive.

Progress Reports. The successful bidder(s) shall provide monthly progress reports addressing the status of accessories received; work completed, and report any problems affecting the completion schedules. Such reports will be provided to State Fleet Services on the first of every month, beginning the first full month after delivery of the chassis. Periodic inspections will be made by the state to answer questions and insure quality.

Force Majeure. If execution of this contract shall be delayed or suspended, and if such failure arises out of causes beyond the control of and without fault or negligence of the contractor, the contractor shall notify State Fleet Services, in writing, within twenty-four (24) hours after the deal. Such causes may include but are not limited to acts of nature, war, acts of public enemy, acts of any government entity in its sovereign or contractual capacity, fires, floods, epidemics, strikes, and unusually severe weather. The state reserves the right to adjust the timetable in such an event.

Liquidated Damages. Time is of the essence in this contract. Failure to start and complete all work specified within the time allowed shall constitute material breach of contract. The "time allowed" will be based upon the timetable developed at the time of award and calculated when the first chassis is delivered to vendor, following the guidelines stated above. Failure of the successful offeror/contractor to deliver the completed trucks within the time allowed will result in damages, and for each consecutive day in excess, a sum of \$50 per truck per day shall be withheld from payment due the contractor. Such amount shall not be construed as a penalty but as a minimum value of liquidated damages that may be deducted from payment due to the contractor if such delay occurs.

Supplemental Purchases. Additional turnkey packages may be ordered from this proposal up to or exceeding the quantities of the initial order until **December 31, 2016**. The total proposal price is to include all discounts and deductions, and is to be less federal and state taxes, for which exemption certifications will be furnished upon request. Pricing shall be firm for the first 60 days of the contract period, after which time the contractor may submit a request for a price increase to the Procurement Officer. Request for a price increase or decrease must include a copy of the manufactures official notice or other evidence that the increase or decrease is applicable to all customers. Price increases will become effective 30 days after the receipt of the request, except the state reserves the right to accept or reject within 30 days or cancel the contract. All shipments are to be billed at prices in effect at the time of order, not the date the shipment is made.

Fleet Services Specifications in This Section

SSP-01 Warning Light System

SSP-22-2AUBW 58,000 GVW Tandem with Dump Box, for Underbody Scraper
and Snow Wing

SSP-22-2ADSUBW 58,000 GVW Tandem with Dump & Spreader Box, for
Underbody Scraper and Snow Wing

Fleet Services Informational Data & Photos

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
SIX LIGHT HEAD 12 VOLT SYNCHRONIZED LED WARNING LIGHT SYSTEM
WHELEN DOT-LED™, NDDOT03 OR PRE-APPROVED EQUAL**

Bidders Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

(All new products must be provided to NDDOT for testing purposes. Only products approved as a result of this request will be accepted.)

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
1) Two Whelen LED Micro Edge® 180° Light heads, or pre-approved equal.	X	—	_____
a) Aluminum I-beam structured housing.	X	—	_____
b) Shatter-resistant amber polycarbonate lenses with smooth exterior.	X	—	_____
c) Each Micro Freedom shall contain super-LED lamps with each having eighteen lamps that are mounted in two straight rows of nine amber LED's over nine clear LED's that will mounted behind a highly polished dual reflector per head.	X	—	_____
d) The combination of the two light heads must produce a 360° pattern output pattern.	X	—	_____
e) Micro Edges to alternate with the rear LED light heads of the system.	X	—	_____
f) Rectangular dimensions approximately 12.3"L x 4.67"H x 9.3"W.	X	—	_____
2) Four rear Whelen 400 super-LED directional light heads with aluminum housings, or pre-approved equal.	X	—	_____
a) Rectangular approximately 3 1/2" W x 7 3/4"H x 3 1/2"D housings.	X	—	_____
b) Shatter-resistant polycarbonate lenses with smooth exterior.	X	—	_____
i) Attached with stainless steel screws into a nylon mounting bracket.	X	—	_____
c) Two pair, one pair amber and one pair clear.	X	—	_____
i) Pairs independently controlled both from each other and from front.	X	—	_____
d) Wide angle linear LED's capable of emitting 180° of light.	X	—	_____
e) Heavy duty DOT solid state flasher with diagnostics.	X	—	_____
3) No less than 240 lineal feet TPE 3 conductor 600V 14 AWG stranded, pretinned copper flexible to -40° with no less than 30 feet of same type cable for each micro edge.	X	—	_____
4) Accessories			
a) Waterproof connectors, W441D/W442D/W441D/W446D, or pre-approved equal. Vendor to provide ample connector quantities for system installation to allow for disconnect of amber and clear light heads at LB box.	X	—	_____
b) Two one-inch PVC LB conduit fittings.	X	—	_____
c) The bid price shall include any miscellaneous items and special tools necessary to provide a complete installation.	X	—	_____
5) NOTE: Panel switches and indicator lamps provided by others.			
6) Vendor is to provide hands-on technical assistance to the installers.	X	—	_____
7) Manufacturer's written warranty of 2 years for complete system with 5 years on LED panels and LED ballasts.	X	—	_____

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
HYDRAULICS AND DUMP BOX FOR UNDERBODY & WING
(FOR TANDEM AXLE TRUCK – APPROXIMATELY 58,000 LBS G.V.W.)**

Bidders Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

General Information:

The hydraulics, box, and installation by the successful bidder must be complete in every aspect of the following specifications. All stainless steel components to be made of 201 or 304 grade. The painting of all installed accessories shall be complete and absolute, including primer. All minor items including, but not limited to, conduit, connectors, tape, paint, fittings, fuses, etc., are the responsibility of the bidder. When specifications do not clearly identify the proper installation or it is obvious there is an error, Tim Paul at State Fleet Services (701-328-1465) must be contacted for direction. A plan for mounting locations of the tool box, hydraulic reservoir, valve enclosure, ladder, etc. must be submitted to State Fleet and a prototype will be approved. It shall be the responsibility of the installer to relocate OEM and non-OEM components to accommodate the accessories if required by NDDOT. Frame modifications to accommodate pump, or other equipment installation are not acceptable. Complete hydraulic system provided to be from one common supplier or source. No additional monetary amount will be allowed.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
8) Hydraulics – Rear engine power take off (REPTO).	X	—	_____
a) Hydraulic pump: Force America FASD45R or Rexroth A10V100.	X	—	_____
i) 6.0 CID.	X	—	_____
ii) 46 GPM at 1800 RPM.	X	—	_____
iii) Load sensing with adjustable compensator with system pressure set for optimum performance of installed components.	X	—	_____
iv) 1 ¼" keyed shaft.	X	—	_____
v) Side ported.	X	—	_____
vi) Automatic electric pump outlet shut off if oil level drops to an insufficient level, with override switch.	X	—	_____
vii) Pump to be mounted with pressure compensator orientated to top side of pump	X	—	_____
b) Balanced drive line: Spicer 1310/1350/1380 series or equal.	X	—	_____
i) Splined to allow for movement.	X	—	_____
ii) Non Greaseable U-joints.	X	—	_____
iii) Tube to be filled with material to prevent driveline moan.	X	—	_____
iv) Installer responsible for REPTO adaptor if needed	X	—	_____
v) REPTO adapter to be forged steel construction	X	—	_____
c) Mounting: Shaft centerline at least one degree to the repto centerline not to create more than a three-degree angle. Shaft to have enough movement to allow removal of driveshaft without loosening or removing hydraulic pump.	X	—	_____
i) Body vendor provided bracket fabricated on frame rails.	X	—	_____

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER _____

Specifications for Hydraulics & Dump Box, Approximately 58,000 lbs G.V.W.

SSP-22-2AUBW

	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
d) Reservoir: mounted between cab guard uprights, 10 gauge stainless steel , 40-gallon capacity with baffle. Tank dimensions and height to be determined on prototype. Tank to be secured down by steel straps.(see drawing)	<input checked="" type="checkbox"/>	—	_____
i) Basket type filler breather cap.	<input checked="" type="checkbox"/>	—	_____
ii) Magnetic drain plug, easily accessible.	<input checked="" type="checkbox"/>	—	_____
iii) 3" OD with 2" ID NPT suction strainer with 100-mesh screen type filter.	<input checked="" type="checkbox"/>	—	_____
iv) Separate return port for control drain line.	<input checked="" type="checkbox"/>	—	_____
v) Sight temperature gauge externally mounted.	<input checked="" type="checkbox"/>	—	_____
vi) 2" full flow brass ball valve for suction line shutoff.	<input checked="" type="checkbox"/>	—	_____
vii) Electric level and temperature sending unit, wired to control panel and back lit for "low oil" and "oil temp" warning.	<input checked="" type="checkbox"/>	—	_____
viii) In-tank return filter to handle flow requirements and have porting of at least 1 1/4". Filter to have both visual and electrical indicators. Filter element shall be 10 micron "absolute" rated for no less than 80 GPM. Filter assembly shall be Filtration Products No. FFPR25-20N, Zinga TS-1200-25-1-0/ZSRE-409-10 or approved equal.	<input checked="" type="checkbox"/>	—	_____
ix) In-line pressure filter system to be installed between pump outlet and valve body inlet. Pressure filter to be mounted near hydraulic reservoir and orientated to allow for easy unobstructed service. Filter to have electrical restriction indicator viewable on in-cab LCD screen. Filter to be Eaton#300150 or equal. 60GPM flow minimum, 3,000 psi. Filter housing kit to be Force America # HP17125VG30EPUG5S2AE7050P or equal	<input checked="" type="checkbox"/>	—	_____
x) Hydraulic system shall be filled with the hydraulic oil under current contract with NDDOT. The contract vendor is to provide oil to the installer at contract price. Pricing available from State Fleet or https://secure.apps.state.nd.us/csd/spo/services/bidder/listCurrentContracts.htm . Oil to be Cenex, Quicklift® HTB Low Viscosity winter fluid.	<input checked="" type="checkbox"/>	—	_____
e) Electro/Hydraulic Valves: Shall be Force America add-a-fold, Rex Roth MP 18 or approved equal. The control valves shall be pulse-width modulated and where indicated proportionally controlled. All segments shall have heavy-duty continuous coils and connections shall be Hirshman or ITT Cannon type connectors. Each segment shall be equipped with a manual override. Each segment shall have adjustable flow control. Valve sections to be arranged as follows:	<input checked="" type="checkbox"/>	—	_____
i) Hoist, 4-way double acting with down side 500 psi relief, proportional control.	<input checked="" type="checkbox"/>	—	_____
ii) Plow lift, 3-way.	<input checked="" type="checkbox"/>	—	_____
iii) Plow angle, 4-way.	<input checked="" type="checkbox"/>	—	_____
iv) Scraper lift, 4-way, adjustable to maintain a constant psi of 300-500 hydraulic pressure down on road.	<input checked="" type="checkbox"/>	—	_____
v) Scraper angle, adjustable cross-port relief set @ 1200 psi. or at scraper manufacturers recommendation.	<input checked="" type="checkbox"/>	—	_____
vi) Wing toe (post), 4-way, adjustable work port relief up and down.	<input checked="" type="checkbox"/>	—	_____
vii) Wing heel, 4-way, proportional control, adjustable work port relief up and down.	<input checked="" type="checkbox"/>	—	_____

**Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560**

Specifications for Hydraulics & Dump Box, Approximately 58,000 lbs G.V.W.

SSP-22-2AUBW

	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
viii) Auger, proportional, 2-way with minimum flow rate of 21 GPM, adjustable work port relief.	X	—	_____
ix) Anti-ice, proportional, 2-way with minimum flow rate of 14 GPM.	X	—	_____
x) Spinner, proportional, 2-way with minimum flow rate of 7 GPM.	X	—	_____
(1) Note: The last two functions, Anti-ice and Spinner will be supplied with a two-function manifold using Hirschman or ITT cannon type connectors. This manifold would also include an integral end cover function.	X	—	_____
xi) Valve Enclosure to have the capability of housing 10 to 11 valve sections: Designed to be weatherproof and protect the valves and valve operators from road contaminants. Located vertically on cab guard on drivers side (see attached photo). Must provide rubber bumper to protect cab from valve enclosure door.	X	—	_____
(1) Easy serviceability with unobstructed access to all valves under cover.	X	—	_____
(2) Valve Enclosure to have removable weather-tight access panel on inboard side to permit field removal of spool valves without removing valve manifold assembly from enclosure.	X	—	_____
f) Spreader Control			
i) Force America 6100 or pre-approved equal. The electronic spreader control shall be designed for precise, closed loop control of granular material and direct liquid application. The unit must be protected from reverse polarity, as well as over-voltage protected.	X	—	_____
ii) The unit must be supplied with easy to service speedometer connection, valve control connection, and main power connection.	X	—	_____
iii) The unit must have full featured micro-processor control and provide operational modes for manual, open loop, or closed loop. In addition, the unit must be compatible with information management systems (GPS), provide rotary auger speed adjustment, rotary spinner speed adjustment, and ground based blast mode momentary, timed, or distance. Must have standby mode.	X	—	_____
iv) Temperature sensor, which shall be capable of displaying ambient air and pavement temperature simultaneously. Force America kit "6100-10-ROADTEMP-SENSOR" unit shall include, RoadWatch® BULLET™ temperature sensor part #849-1243-000 and must be compatible with the specified Force America 6100 sander controller. Temperature sensor shall be mounted to the mirror bracket of the truck and wire routed into the cab and connected directly to the 6100 sander control core module.	X	—	_____
v) Features			
(1) Remote mounted, 7" color LCD to display all spreader functions.	X	—	_____
(2) Five current compensated valve drive outputs.	X	—	_____
(3) Three types of material and ten programmable spread rates.	X	—	_____
(4) Bi-directional RS232 for data collection.	X	—	_____
(5) The electronic spreader firmware shall be upgradeable by downloading files from the supplier's web site at no charge to NDDOT for the life of the unit.	X	—	_____
(6) Closed loop granular feedback sensor and cabling.	X	—	_____

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	COMPLY YES	NO	SPECIFICATION DEVIATIONS
(7) Programming shall provide for automatic default to open loop in the event of a feedback failure.	<input checked="" type="checkbox"/>	—	_____
(8) Unit must have the ability to cross calibrate from closed loop to open loop operation.	<input checked="" type="checkbox"/>	—	_____
(9) Multi-lane dual boom direct liquid.	<input checked="" type="checkbox"/>	—	_____
(10) Enabled Event logging for AVL/GPS.	<input checked="" type="checkbox"/>	—	_____
(11) Supervisor access security key for each district.	<input checked="" type="checkbox"/>	—	_____
(12) Unit shall have a stationary unload feature for granular, prewet, and anti-ice functions.	<input checked="" type="checkbox"/>	—	_____
(13) Application rate limit adjustable from 20-3000 lb/mile. Hydraulic vendor to assist with final calibration upon delivery.	<input checked="" type="checkbox"/>	—	_____
g) Control Center			
i) Force America Patrol Commander Ultra Series or pre-approved equal. The control center must be an integral unit used for controlling the work functions of the electro/hydraulic control valves. The control center is to have the capabilities to install the spreader control box as a separate item to the control panel. The control panel is to have the capabilities to joystick control the miniature proportional joysticks for valve control of the dump box, front plow, underbody scraper, wing toe, and wing heel along with underbody scraper and wing disabling switches. Two-step select and operate systems are not acceptable.	<input checked="" type="checkbox"/>	—	_____
ii) Single miniature joystick shall control the hoist with center interlock or dead-man switch, and also contain integral dual axis miniature proportional joystick controls for plow, underbody scraper and wing along with three push button switches for spreader blast, standby, and box vibrator. The scraper control must be held in the down position for 3 seconds to activate automatic scraper down pressure mode. The controller must activate pre-wet ball valve in conjunction with the sander.	<input checked="" type="checkbox"/>	—	_____
iii) There shall be a pressure transducer installed in the scraper circuit to monitor the down pressure on the scraper. The transducer shall be wired into the valve module and the scraper pressure shall be read on the 7" color LCD spreader display.	<input checked="" type="checkbox"/>	—	_____
h) Wiring			
i) All wiring shall have color-coding with amp style connectors to connect the control panel and to valve enclosure. All connector pins shall be gold style to ensure good connections between the connecting halves. All wiring inside the valve enclosure shall have LED lights to indicate which valves are operating when function is required. All wiring inside of the enclosure shall be connected to the amp style connector to facilitate proper connection between the inside of the box and the outside of the box.	<input checked="" type="checkbox"/>	—	_____
ii) The wire ends are to be ITT or Cannon type connectors to connect the wire harness to the valves. The wire harness shall be wrapped to provide protection of the wires and used as a way to bundle the wires in a neat package.	<input checked="" type="checkbox"/>	—	_____
iii) The main control panel shall have its own power source with on/off to be controlled by ignition key switch via relay.	<input checked="" type="checkbox"/>	—	_____

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	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
iv) Parts manuals, service literature, driver, and 6 hours service training per location must be supplied at no extra charge. Payment contingent on performance.	X	—	_____
v) Each truck style box shall be wired identically and have the same color/size wiring to each circuit.	X	—	_____
i) Seat mounted hydraulic and sander controls to move with the seat suspension. The length and height not to obstruct the view of the operator dashboard. The position to be determined by the vendor and NDDOT. Bracket to be made of aluminum.	X	—	_____
i) The design and location must be approved on prototype (see attached photo). All openings shall be grommetted and sealed with an appropriate caulking. Final mount to be approved.	X	—	_____
j) Switches and Indicator Lights			
i) The switch panel will be included, installed, pre-wired and circuit breaker protected by OEM of truck.	X	—	_____
ii) Panel Switches:	X	—	_____
(1) Front and rear amber warning.	X	—	_____
(2) Rear clear warning.	X	—	_____
(3) Work light.	X	—	_____
(4) Momentary switch for box vibrator.	X	—	_____
(5) Momentary switch for hydraulic pump override.	X	—	_____
(6) Air tailgate.	X	—	_____
iii) Body vendor to provide the following:			
(1) Switches and indicators to be mounted in control panel. All switches, functions & names shall be backlit/illuminated.	X	—	_____
(a) Auto recall switch(ability to lift all plows)	X	—	_____
(b) Wing disable switch.	X	—	_____
(c) Underbody disable switch.	X	—	_____
(d) Liquid switch.	X	—	_____
(e) Spreader switch.	X	—	_____
(f) All switch labeling to include OEM switches if not provided by truck manufacturer. Any additional labels provided by the truck manufacturer to be left in truck cab for future labeling of any unused switches.	X	—	_____
(2) Indicator lights for body up/down (red), low hydraulic oil, oil temp, located in the panel. The warning lights shall flash when activated, audible alarms to be disabled.	X	—	_____
(3) An 80-amp thermal breaker with manual reset shall be provided in the wire between the power source and the switch panel.	X	—	_____
(a) Power wire from battery to 80amp thermal breaker shall be protected by 100 amp fuse located in battery box to protect circuit between battery and thermal breaker			
(4) One wire shall be run from the switch accessory and one wire form the battery to the switch panel.	X	—	_____

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k) Special Accessory Wiring

- i) Requirements – a 75 amp constant duty relay shall be provided to remove specified accessory circuits from the ignition key switch to prevent switch overloads, yet retaining key switch on/off control. Circuits controlled through relay shall include all console switches and functions, except plow lights and FM radio power source. Accessible terminals shall also be available for controlling additional department-installed equipment. This relay may be part of the hydraulic control counsel circuitry.

X

—

- ii) Headlight switching control will be part of the OEM truck bid.

X

—

l) Hydraulic hoses to be U.S. made WeatherHead™, Parker™ or approved equal as follows:

- i) 2" suction line – SAE 100 R4
ii) 1" pressure (pump to valves) – SAE 100 R2
iii) Hoist (not smaller than port size) – SAE 100 R2
iv) Return line 1 ¼" – SAE 100 R1
v) Plow lift, reversing ½" – SAE 100 R2

X

—

X

—

X

—

X

—

X

—

- (1) Reversing hoses terminated with Pioneer 9500 series ½" female lever quick coupler breakaway kit No. 9500-4 mounted to driver's side of quick hitch at height of the top of truck frame. (See photo)

X

—

m) Hydraulic lines for the sander shall be routed through the rear corner running board with through fittings, Parker brass anchor connectors 207ACBH or equal into running board and quick couplers with tethered dust caps at that point. They should be routed to the side, which is most efficient for the type of sander to be installed. A protective shield shall be installed to protect hoses from wheel spray. The return shall be split outside of box and have one 1" and one ½" coupler to allow for two return hoses from tailgate sander.

X

—

- i) Two main supply sander lines shall be ¾" schedule 80 high-pressure pipe. Return line pipe to be 1" no less than SAE R1. Black pipe acceptable, to be spaced for material to fall through. Design to be approved on prototype.

X

—

- ii) Hose from valve body and from sander connection, high-pressure line shall be two wire SAE 100 R2 rated.

X

—

- iii) Hose from reservoir and from sander connection to the return line shall be no less than one wire 1250 psi and must be plumbed in ahead of the return line filter.

X

—

- iv) Sander lines are to be fastened with hold-downs, which are removable for maintenance and shall keep the lines free from interference of hoist functions.

X

—

n) All pressure line fittings shall use high-pressure steel adapter fittings with swivel couplings to allow easy hose or component removal. (JIC 37° flare fittings wherever possible and practical) Return lines must use appropriate fittings for pressure present. All hoses from the back of the black pipe to the anchor connectors in the box must have 37° flare swivel fittings throughout.

X

—

o) All test ports for testing shall be accessible for connecting test gauge.

X

—

p) All hydraulic hosing to be routed, secured, and protected from pinching or abrasion. Securing of hoses to be designed to withstand severe ice and snow buildup. Use heavy J-hook style hose hangers as necessary. Routing and support to be approved.

X

—

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BIDDER _____

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Crysteel stainless steel select Tipper

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BIDDER

Specifications for Hydraulics & Dump Box, Approximately 58,000 lbs G.V.W.

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l) Double acting tailgate with formed boxed outer edge and boxed horizontal center braces having 30 degree slope top edge.	X	—	_____
m) D-ring attached to inside top center for lifting purposes.	X	—	_____
n) Solenoid operated tailgate lock Velvac Kit No. 10037 or Springville part No. 405317 with accessory valve Velvac part No. 032086 or Williams Controls part No. WM778A or approved equal. Installation shall allow operation of the tailgate should the air operated device fail.	X	—	_____
i) Solenoid valve location to be located in hydraulic valve enclosure	X	—	_____
ii) Shaft to be retracted in closed or off position.	X	—	_____
iii) The manual tailgate control lever shall have a detachable bolt connection or "corn pin" device.	X	—	_____
iv) Stainless steel tailgate linkage with exception to threaded rods, blocks and clevises.	X	—	_____
o) Top and bottom tailgate hinge pins to be 1" diameter.	X	—	_____
i) Tailgate hinge pins and latching mechanisms to be greaseable.	X	—	_____
p) 5/16" spreader chains attached to upper sides of tailgate with upper and lower anchors that permit hinging tailgate to top or bottom. Chain to be encased in hydraulic hose sheathing.	X	—	_____
q) Continuous welds throughout.	X	—	_____
r) Stainless steel ladder – mounted curbside. Must fold up for transport.	X	—	_____
i) Fabricated with approximately 5 rungs with access from about a 2' grade. Ladder design must be approved by NDDOT.	X	—	_____
ii) Mounted on front side of box ahead of dual tires.	X	—	_____
iii) When in transport position, must not extend beyond main edge of body more than 3". Adequate latch system to keep in place while traveling. Ladder shall not extend beyond top of box sideboard (with sideboards in place)	X	—	_____
iv) Fixed slip resistant grip strut rungs with no sharp corners welded to inside of box allowing a person to climb into box.	X	—	_____
v) Skid resistant/epoxy-bonded coating on top of each rung. Bustin Industrial Products Firm-grip™ grating, formed channel tread grip, or equal may be substituted for skid resistant coating on the rungs.	X	—	_____
s) All additional electrical wiring must be circuit breaker protected.	X	—	_____
t) Back-up alarm, self-adjusting sound level, 87 thru 107 decibels, and lifetime warranty ECCO SA901, Target Tech 210505, or approved equal. To be mounted to the bottom of the right taillight guard.	X	—	_____
10) Lights – NOTE: All wiring for the tail and clearance lights shall be protected from wear and tear and shielded from mud and ice buildup. All holes for wiring must be grommeted.	X	—	_____
a) Dump Box			
i) Lights to meet ICC regulations.	X	—	_____
ii) Clearance lights and reflectors - Minimum two amber clearance lights in front and two red clearance lights in rear of box.	X	—	_____
(1) Minimum 9 diode high count LED lamps, Grote G3002 red, Grote G3003 yellow or equal.	X	—	_____

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|--|---|---|---|
| <p>iii) LED Stop/Turn/Tail & Backup lights to have a 4" x 1/4" stainless steel bolted on rectangular shield around them. Taillights mounted on the outer edge of the box with bolt on brackets leaving a 1" air gap between housing and box side. Backup light to be below S/T/T light. Height 68" – 72" from ground level to center of S/T/T light. Exact location to be approved.</p> <p>(1) Stop/Turn/Tail and Backup lights to be Whelen 700 series, (7" x 3") or 400 series (5" x 3") or pre-approved equal mounted in double-light head 700 series rectangular stainless steel housing.</p> | <p>X</p> <p>X</p> | <p>—</p> <p>—</p> | <p>_____</p> <p>_____</p> |
| <p>b) Front Plow Lights – NOTE: All wiring to have protective covering and routed so as not to be pinched or worn prematurely from rubbing or chafing. Truck will be factory wired for plow lights to the hood hinge area with switch installed on instrument panel.</p> <p>i) Truck Lite #80880 snowplow lights or equal.</p> <p>ii) Housings to be corrosion and impact resistant.</p> <p>iii) LED lamps.</p> <p>(1) High/low beam, 12 volt.</p> <p>(2) Turn signal/parking lamp.</p> <p>iv) Light support – 1 1/4" steel angle to be fastened with existing grill bolts. Angle to be approximately 2' long, not to exceed hood height. Light mounted to 1" square tubing with adjustment holes capable of adjusting to an additional height of 24". 1 1/4" angle welded to top of square tubing and angle braced to extend light to position directly above OEM headlights. All fasteners attached to factory hood/grille must use rubber or other insulating/dampening material between hood/grille and plow light bracket. Design to be approved.</p> <p>v) Wiring to be connected to OEM wiring at hood hinge area and can be disconnected using a GM weatherpack connector or approved equal.</p> <p>vi) All wire splices shall be soldered and protected with heat shrink covering.</p> <p>vii) Wires to be properly grounded.</p> | <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> | <p>—</p> <p>—</p> <p>—</p> <p>—</p> <p>—</p> <p>—</p> <p>—</p> <p>—</p> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
| <p>c) Top/Rear plow light system. SIX LIGHT HEAD SYNCHRONIZED LED WARNING LIGHT SYSTEM (Must meet specification SSP-01) NOTE: All wiring for strobe lights shall be protected from abrasion and shielded from mud and ice buildup. All holes for wiring must be grommeted.</p> <p>i) Four rear mounted remote LED Warning light head assemblies, two amber and two clear. Continuous individual wiring from each light to the rear electrical housing and then to the control panel.</p> <p>ii) Two cab guard mounted 180 degree LED warning light head assemblies. Continuous individual wiring from each light to the control panel.</p> <p>(1) Mount level to front corners of cab guard, extendable from width of cab guard to outside width of mirrors through use of tube-in-tube design. Design must be approved. (See photo example)</p> <p>(2) Wiring for light heads from chassis frame to top of cab guard to be routed through metal conduit attached to the cab guard upright or split loom and tube clamps may be used as long as the clamps have maximum spacing of 12 inches.</p> | <p>X</p> <p>X</p> <p>X</p> <p>X</p> | <p>—</p> <p>—</p> <p>—</p> <p>—</p> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |

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iii) LED warning light system with heavy duty DOT solid state flasher with diagnostics.	X	—	_____
iv) Rear light electrical connectors housed in PVC access fitting connectors and PVC fittings provided by the strobe system supplier.	X	—	_____
v) Rear light support – 1 ½" square telspar steel tubing mounted approximately 60 degrees on rear of box and roughly adjustable from 9' – 12'. Tubing to be angled to the rear but not extending more than 18" behind box. Square tube support bracket not acceptable. Mounting brackets to be as high on the side of box as possible without interfering with tailgate operation or hinge pin removal.	X	—	_____
(1) See pictures of DOT support bracket to allow telspar tubing to pivot from vertical to horizontal. Nylon bushings shall be installed on both sides of pivot pin to hold telespar tubing from vibration but still allow free pivot movement. DOT will supply prototype bracket to awarded vendor.	X	—	_____
(2) Amber LED lights to be mounted to top of support. Clear LED lights to be mounted ½ the distance from top of support to top of box. Stainless steel fasteners to be used for the mounting of the aluminum light heads to the telspar along with nylon isolating washers placed between telspar and aluminum light head to prevent corrosion caused by dissimilar metals.	X	—	_____
e) One wing and one underbody scraper 12V LED work light, located at the rear corners of the cab. One sander work light located under left taillight housing. Final location to be determined upon award. All three lights to be wired to one work light switch. Truck Lite #8160 or equal	X	—	_____
i) Housings to be corrosion and impact resistant.	X	—	_____
(1) Weatherproof.	X	—	_____
ii) Universal mounting stud and adjustable bracket.	X	—	_____
11) Hoist			
a) NTEA rated and classified.	X	—	_____
b) Class 80, telescopic.	X	—	_____
i) Cylinder to have full power up and full power down.	X	—	_____
ii) Melonized cylinder rod surfaces with a predominance of single-phase epsilon nitride to cover entire surface.	X	—	_____
c) Minimum hinge pin diameter – 1 15/16" hardened steel.	X	—	_____
d) Minimum dumping angle – 50 degrees at 12" overhang.	X	—	_____
e) Minimum of 1 ½" chassis frame extending beyond wing cross tube to allow for pintle plate mounting.	X	—	_____
f) In cab, box up indicator light (see panel switches), to be coil spring wobble lever, sealed, snap action switch, frame mounted, Grainger stock no. 3A096 or equal.	X	—	_____
g) Safety prop(s) to support body at 20-degree angle, frame mounted, self-aligning for one person operation, easily accessible. Prototype to be approved.	X	—	_____
12) General			
a) Paint – All non-stainless steel to be primed and painted black.	X	—	_____
b) Spot painting must include hardener and be applied with spray gun.	X	—	_____

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|--|---|---|-----------|
| <p>c) Mud flaps front and rear of rear tires, 24" wide by 30" long, made of 5/16" quality rubber. Stainless steel brackets. The rear flaps must be quick to remove through the use of a 1/2" round rod and spring clip and free swinging. The front flaps fastened permanently with anti-sail devices mounted to prevent tire contact.</p> | X | — | _____ |
| <p>d) Tool box 18" x 18" x 24". All aluminum construction, .125 Treadbrite. Bottom hinged door. Full-length corrosion resistant hinge. Key lockable paddle latch with adjustable striker plate. Full neoprene door seal. Two chain or cable door retainers. Drip rail or door recess. Five year product warranty. Acceptable brand: Alum-Line, American or RKL. Other brands must be pre-approved.</p> | X | — | _____ |
| <p>i) Mounted with 2" mild steel channel, two cross supports under floor of box and gusseted. Mounting contact areas between aluminum and steel to be isolated with fuel tank rubber belting or similar</p> | X | — | _____ |
| <p>e) Must use stainless steel fasteners when mounting to stainless steel. Except where strength is needed.</p> | X | — | _____ |
| <p>f) Appropriate steps must be taken to keep mild steel and stainless steel cross contamination from occurring.</p> | X | — | _____ |
| <p>13) Snow Plow Quick Hitch, Falls 26B, Monroe FLS26BND, Henderson H46B-ND, or equal.</p> | X | — | Falls 26B |
| <p>a) Snowplow connecting mechanism shall be the Rapid Push Bar Quick Coupler as manufactured by Little Falls Machine, Inc., Monroe, Henderson or equal.</p> | X | — | _____ |
| <p>b) Quick coupler system shall incorporate push arm receptor sockets with spring loaded tapered pins for proper pin alignment. Grease zerks installed for pin lubrication. Pin retractor mechanism shall be conveniently located for ease of operation.</p> | X | — | _____ |
| <p>c) Mounting system shall adapt to frame rails of truck chassis and shall be adequately braced with grade 8 frame bolts meeting SAE J-429 specification to the truck chassis frame by minimum 3/4" x 4" A-36 steel bars which will be additionally reinforced. Stabilizer arms shall be attached to the frame by means of 1/2" thick steel Z brackets. Vertical risers and plow lifting yoke shall be low profile to allow clearance for tilting hood without tilting or disconnecting plow hitch.</p> | X | — | _____ |
| <p>d) Universal lift arm to be adjustable inward/outward using heavy-duty square tube within square tube with pin adjustment. Shall be capable of lifting reversible or V-plows weighing as much as 3000 lbs.</p> | X | — | _____ |
| <p>e) Hydraulic plow lift cylinder shall be minimum 4" x 10" single acting type with chrome-plated rod. Hydraulic cylinder shall be certified to a minimum of twice (2X) the working pressure (2250PSI) of the hydraulic system.</p> | X | — | _____ |
| <p>f) Hydraulic ball valve at lift cylinder to shut off oil flow when plow is not in use.</p> | X | — | _____ |
| <p>g) Mounting height shall be 15" to center of connecting pin. Hitch to be cushioned where tilting hood may strike when opened.</p> | X | — | _____ |
| <p>h) Complete hitch shall be primed and painted to match the truck frame.</p> | X | — | _____ |
| <p>14) Trailers pull plate, pintle hitch, D-rings, electrical connector, and glad hands installed on the truck. See enclosed drawing. Note: disregard the location of the light plug-ins on the drawing. The successful vendor must approve the entire hitch design with NDDOT and build a prototype for approval on the first truck.</p> | X | — | _____ |
| <p>a) Must be made using 3/4" material for the plate and gussets.</p> | X | — | _____ |

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- b) Must provide a Holland PH410 pintle hitch rated at 20,000lb vertical load and 100,000lb gross trailer weight installed with grade eight bolts and lock nuts.
- c) Two D-rings on each side of the pintle hitch rated for 100,000lb of gross trailer weight between the two. **Tandemloc® 9202-DS79 or equal**
- d) 2.5" receiver welded into the plate below the pintle hitch. **To be used for towing as well as spinner mounting.**
- e) Pull plate must be properly braced and welded to be rated for 100,000lb gross trailer weight.
- f) The round seven pin trailer light connector and two glad hands are to be mounted on right side fender on RDS bodies and on the right side of the body on dump bodies using all stainless steel hardware. Location and process must be approved by NDDOT.

<u>X</u>	—	_____
<u>X</u>	—	_____
<u>X</u>	—	_____
<u>X</u>	—	_____
<u>X</u>	—	_____

15) Warranty

- a) One-year full unconditional warranty, manufacturer's warranty shall apply if for longer period.

<u>X</u>	—	_____
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16) Delivery

- a) Truck must be test driven and all hydraulic, brine, plow, sander, and electrical functions must be tested to make sure they work properly, and that there are no fluid leaks. All vendor installed attachments to be greased/lubricated. **Grease bank hoses must be primed/prefilled.** Truck must pass a final inspection performed by NDDOT employees before delivery can be made.

<u>X</u>	—	_____
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BODY MAKE: Crysteel MODEL: Stainless steel select 1448806

HOIST MAKE: Crysteel MODEL: Marathon M63138 PA

PUMP MAKE: Force America MODEL: FAS045R-Repto-kit

QUICK HITCH MAKE: Falls MODEL: 26B

LED WARNING LIGHT SYSTEM MANUFACTURER: Whelen - no spec

Bert's Truck Equip. of Mhd
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BIDDER _____

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
HYDRAULICS AND DUMP & SPREADER BOX FOR UNDERBODY & WING
(FOR TANDEM AXLE TRUCK – APPROXIMATELY 58,000 LBS G.V.W.)**

Bidders Instructions: Indicate compliance to the specifications on the “COMPLY YES/NO” line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the “SPECIFICATION DEVIATIONS” line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

General Information:

The hydraulics, box, and installation by the successful bidder must be complete in every aspect of the following specifications. All stainless steel components to be made of 201 or 304 grade. The painting of all installed accessories shall be complete and absolute, including primer. All minor items including, but not limited to, conduit, connectors, tape, paint, fittings, fuses, etc., are the responsibility of the bidder. When specifications do not clearly identify the proper installation or it is obvious there is an error, Tim Paul at State Fleet Services (701-328-1465) must be contacted for direction. A plan for mounting locations of the tool box, hydraulic reservoir, valve enclosure, ladder, etc. must be submitted to State Fleet and a prototype will be approved. It shall be the responsibility of the installer to relocate OEM and non-OEM components to accommodate the accessories if required by NDDOT. Frame modifications to accommodate pump, or other equipment installation are not acceptable. Complete hydraulic system provided to be from one common supplier or source. No additional monetary amount will be allowed.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
17) Hydraulics – Rear engine power take off (Repto).	<input checked="" type="checkbox"/>	—	_____
a) Hydraulic pump: Force America FASD45R or Rexroth A10V100.	<input checked="" type="checkbox"/>	—	_____
i) 6.0 CID.	<input checked="" type="checkbox"/>	—	_____
ii) 46 GPM at 1800 RPM.	<input checked="" type="checkbox"/>	—	_____
iii) Load sensing with adjustable compensator with system pressure set for optimum performance of installed components.	<input checked="" type="checkbox"/>	—	_____
iv) 1 ¼” keyed shaft.	<input checked="" type="checkbox"/>	—	_____
v) Side ported.	<input checked="" type="checkbox"/>	—	_____
vi) Automatic electric pump outlet shut off if oil level drops to an insufficient level, with override switch.	<input checked="" type="checkbox"/>	—	_____
vii) Pump to be mounted with pressure compensator orientated to top side	<input checked="" type="checkbox"/>	—	_____
b) Balanced driveline: Spicer 1310/1350/1380 series or equal.	<input checked="" type="checkbox"/>	—	_____
i) Splined to allow for movement.	<input checked="" type="checkbox"/>	—	_____
ii) Non greaseable U-joints	<input checked="" type="checkbox"/>	—	_____
iii) Tube to be filled with material to prevent driveline moan.	<input checked="" type="checkbox"/>	—	_____
vi) Installer responsible for REPTO adaptor if needed.	<input checked="" type="checkbox"/>	—	_____
vii) REPTO adapter to be forged steel construction	<input checked="" type="checkbox"/>	—	_____
c) Mounting: Shaft centerline at least one degree to the repto centerline not to create more than a three-degree angle. Shaft to have enough movement to allow removal of driveshaft without loosening or removing hydraulic pump.	<input checked="" type="checkbox"/>	—	_____
i) Body vendor provided bracket fabricated to mount in the extended frame rails.	<input checked="" type="checkbox"/>	—	_____

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	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
d) Reservoir: mounted between cab guard uprights, 10 gauge steel, 40-gallon capacity with baffle. Tank dimensions and height to be determined on prototype. Tank to be secured down by steel straps.(see drawing)	X	—	_____
i) Basket type filler breather cap.	X	—	_____
ii) Magnetic drain plug, easily accessible.	X	—	_____
iii) 3" OD with 2" ID NPT suction strainer with 100 mesh screen type filter.	X	—	_____
iv) Separate return port for control drain line.	X	—	_____
v) Sight temperature gauge externally mounted.	X	—	_____
vi) 2" full flow brass ball valve for suction line shutoff.	X	—	_____
vii) Electric level and temperature sending unit, wired to control panel and back lit for "low oil" and "oil temp" warning.	X	—	_____
viii) In-tank return filter to handle flow requirements and have porting of at least 1 1/4". Filter to have both visual and electrical indicators. Filter element shall be 10 micron "absolute" rated for no less than 80 GPM. Filter assembly shall be Filtration Products No. FFPR25-20N, Zinga TS-1200-25-1-0/ZSRE-409-10 or approved equal.	X	—	_____
ix) In-line pressure filter system to be installed between pump outlet and valve body inlet. Pressure filter to be mounted near hydraulic reservoir and orientated to allow for easy unobstructed service. Filter to have electrical restriction indicator viewable on in-cab LCD screen. Filter to be Eaton#300150 or equal. 60GPM flow minimum, 3,000 psi. Filter housing kit to be Force America # HP17125VG30EPUG5S2AE7050P or equal	X	—	_____
x) Hydraulic system shall be filled with the hydraulic oil under current contract with NDDOT. The contract vendor is to provide oil to the installer at contract price. Pricing available from State Fleet or https://secure.apps.state.nd.us/csd/spo/services/bidder/listCurrentContracts.htm . Oil to be Cenex, Quicklift® HTB Low Viscosity winter fluid.	X	—	_____
e) Electro/Hydraulic Valves: Shall be Force America add-a-fold, Rex Roth MP 18 or approved equal. The control valves shall be pulse-width modulated and where indicated proportionally controlled. All segments shall have heavy-duty continuous coils and connections shall be Hirshman or ITT Cannon type connectors. Each segment shall be equipped with a manual override. Each segment shall have adjustable flow control. Valve sections to be arranged as follows:	X	—	_____
i) Hoist, 4-way double acting with down side 500 psi relief, proportional control.	X	—	_____
ii) Plow lift, 3-way.	X	—	_____
iii) Plow angle, 4-way.	X	—	_____
iv) Scraper lift, 4-way, adjustable to maintain a constant psi of 300-500 hydraulic pressure down on road.	X	—	_____
v) Scraper angle, adjustable cross-port relief set @ 1200 psi or at scraper manufacturer's recommendation.	X	—	_____
vi) Wing toe (post), 4-way, adjustable work port relief up and down.	X	—	_____
vii) Wing heel, 4-way, proportional control, adjustable work port relief up and down.	X	—	_____

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	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
viii) Auger, proportional, 2-way with minimum flow rate of 21 GPM, adjustable work port relief.	<u>X</u>	—	_____
ix) Anti-ice, proportional, 2-way with minimum flow rate of 14 GPM.	<u>X</u>	—	_____
x) Spinner, proportional, 2-way with minimum flow rate of 7 GPM.	<u>X</u>	—	_____
(1) Note: The last two functions, Anti-ice and Spinner will be supplied with a two-function manifold using Hirschman or ITT cannon type connectors. This manifold would also include an integral end cover function.	<u>X</u>	—	_____
xi) Valve Enclosure to have the capability of housing 10 to 11 valve sections: Designed to be weatherproof and protect the valves and valve operators from road contaminants. Located vertically on cab guard on drivers side (see attached photo). Must provide rubber bumper to protect cab from valve enclosure door.	<u>X</u>	—	_____
(1) Easy serviceability with unobstructed access to all valves under cover.	<u>X</u>	—	_____
(2) Valve Enclosure to have removable weather-tight access panel on inboard side to permit field removal of spool valves without removing valve manifold assembly from enclosure.	<u>X</u>	—	_____
f) Spreader Control			
i) Force America 6100 or pre-approved equal. The electronic spreader control shall be designed for precise, closed loop control of granular material and direct liquid application. The unit must be protected from reverse polarity, as well as over-voltage protected.	<u>X</u>	—	_____
ii) The unit must be supplied with easy to service speedometer connection, valve control connection, and main power connection.	<u>X</u>	—	_____
iii) The unit must have full featured micro-processor control and provide operational modes for manual, open loop, or closed loop. In addition, the unit must be compatible with information management systems (GPS), provide rotary auger speed adjustment, rotary spinner speed adjustment, and ground based blast mode momentary, timed, or distance. Must have standby mode.	<u>X</u>	—	_____
iv) Temperature sensor, which shall be capable of displaying ambient air and pavement temperature simultaneously. Force America kit "6100-10-ROADTEMP-SENSOR" unit shall include, RoadWatch® BULLET™ temperature sensor part #849-1243-000 and must be compatible with the specified Force America 6100 sander controller. Temperature sensor shall be mounted to the mirror bracket of the truck and wire routed into the cab and connected directly to the 6100 sander control core module.	<u>X</u>	—	_____
v) Features			
(1) Remote mounted, 7" color LCD to display all spreader functions.	<u>X</u>	—	_____
(2) Five current compensated valve drive outputs.	<u>X</u>	—	_____
(3) Three types of material and ten programmable spread rates.	<u>X</u>	—	_____
(4) Bi-directional RS232 for data collection.	<u>X</u>	—	_____
(5) The electronic spreader firmware shall be upgradeable by downloading files from the supplier's web site at no charge to NDDOT for the life of the unit.	<u>X</u>	—	_____
(6) Closed loop granular feedback sensor and cabling.	<u>X</u>	—	_____

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	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
(7) Programming shall provide for automatic default to open loop in the event of a feedback failure.	X	—	_____
(8) Unit must have the ability to cross calibrate from closed loop to open loop operation.	X	—	_____
(9) Multi-lane dual boom direct liquid.	X	—	_____
(10) Enabled Event logging for AVL/GPS.	X	—	_____
(11) Supervisor access security key for each district.	X	—	_____
(12) Unit shall have a stationary unload feature for granular, prewet, and anti-ice functions.	X	—	_____
(13) Application rate limit adjustable from 20-3000 lb/mile. Hydraulic vendor to assist with final calibration upon delivery.	X	—	_____
g) Control Center			
i) Force America Patrol Commander Ultra Series or pre-approved equal. The control center must be an integral unit used for controlling the work functions of the electro/hydraulic control valves. The control center is to have the capabilities to install the spreader control box as a separate item to the control panel. The control panel is to have the capabilities to joystick control the miniature proportional joysticks for valve control of the dump box, front plow, underbody scraper, wing toe, and wing heel along with underbody scraper and wing disabling switches. Two-step select and operate systems are not acceptable.	X	—	_____
ii) Single miniature joystick shall control the hoist with center interlock or dead-man switch, and also contain integral dual axis miniature proportional joystick controls for plow, underbody scraper and wing along with three push button switches for spreader blast, standby, and auxiliary function. The scraper control must be held in the down position for 3 seconds to activate automatic scraper down pressure mode. The controller must activate pre-wet ball valve in conjunction with the sander.	X	—	_____
iii) There shall be a pressure transducer installed in the scraper circuit to monitor the down pressure on the scraper. The transducer shall be wired into the valve module and the scraper pressure shall be read on the 7" color LCD spreader display.	X	—	_____
h) Wiring			
i) All wiring shall have color-coding with amp style connectors to connect the control panel and to valve enclosure. All connector pins shall be gold style to ensure good connections between the connecting halves. All wiring inside the valve enclosure shall have LED lights to indicate which valves are operating when function is required. All wiring inside of the enclosure shall be connected to the amp style connector to facilitate proper connection between the inside of the box and the outside of the box.	X	—	_____
ii) The wire ends are to be ITT or Cannon type connectors to connect the wire harness to the valves. The wire harness shall be wrapped to provide protection of the wires and used as a way to bundle the wires in a neat package.	X	—	_____
iii) The main control panel shall have its own power source with on/off to be controlled by ignition key switch via relay.	X	—	_____

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	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
iv) Parts manuals, service literature, driver, and 6 hours service training per location must be supplied at no extra charge. Payment contingent on performance.	X	—	_____
v) Each truck style box shall be wired identically and have the same color/size wiring to each circuit.	X	—	_____
i) Seat mounted hydraulic and sander controls to move with the seat suspension. The length and height not to obstruct the view of the operator dashboard. The position to be determined by the vendor and NDDOT. Bracket to be made of aluminum.	X	—	_____
i) The design and location must be approved on prototype (see attached photo). All openings shall be grommetted and sealed with an appropriate caulking. Final mount to be approved.	X	—	_____
j) Switches and Indicator Lights			
i) The switch panel will be included, installed, pre-wired and circuit breaker protected by OEM of truck.	X	—	_____
ii) Panel Switches:			
(1) Front and rear amber warning.	X	—	_____
(2) Rear clear warning.	X	—	_____
(3) Work light.	X	—	_____
(4) Momentary switch for box vibrator.	X	—	_____
(5) Momentary switch for hydraulic pump override.	X	—	_____
(6) Air tailgate.	X	—	_____
iii) Body vendor to provide the following:			
(1) Switches and indicators to be mounted in control panel. All switches, functions & names shall be backlit or illuminated.	X	—	_____
(a) Auto recall switch (give you the ability to lift all plows).	X	—	_____
(b) Wing disable switch.	X	—	_____
(c) Underbody disable switch.	X	—	_____
(d) Liquid switch.	X	—	_____
(e) Spreader switch.	X	—	_____
(a) All switch labeling to include OEM switches if not provided by truck manufacturer. Any additional labels provided by the truck manufacturer to be left in truck cab for future labeling of any unused switches.	X	—	_____
(2) Indicator lights for body up/down (red), low hydraulic oil, oil temp, located in the panel. The warning lights shall flash when activated, audible alarms to be disabled.	X	—	_____
(3) An 80-amp thermal breaker with manual reset shall be provided in the wire between the power source and the control center.	X	—	_____
(a) Power wire from battery to 80amp thermal breaker shall be protected by 100 amp fuse located in battery box to protect circuit between battery and thermal breaker	X	—	_____
(4) One wire shall be run from the switch accessory and one wire form the battery to the switch panel.	X	—	_____

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|---|---|---|-------|
| k) Special Accessory Wiring | | | |
| i) Requirements – a 75 amp constant duty relay shall be provided to remove specified accessory circuits from the ignition key switch to prevent switch overloads, yet retaining key switch on/off control. Circuits controlled through relay shall include all console switches and functions, except plow lights and FM radio power source. Accessible terminals shall also be available for controlling additional department-installed equipment. This relay may be part of the hydraulic control counsel circuitry. | X | — | _____ |
| ii) Headlight switching control will be part of the OEM truck package. | X | — | _____ |
| l) Hydraulic hoses to be U.S. made Weatherhead, Parker or approved equal as follows: | | | |
| i) 2" suction line – SAE 100 R4 | X | — | _____ |
| ii) 1" pressure (pump to valves) – SAE 100 R2 | X | — | _____ |
| iii) Hoist (not smaller than port size) – SAE 100 R2 | X | — | _____ |
| iv) Return line 1 ¼" – SAE 100 R1 | X | — | _____ |
| v) Plow lift, reversing ½" – SAE 100 R2 | X | — | _____ |
| (1) Reversing hoses terminated with Pioneer 9500 series ½" female lever quick coupler breakaway kit No. 9500-4 mounted to driver's side of quick hitch at height of the top of truck frame. (See photo) | X | — | _____ |
| vi) Hose from valve body to sander connection high-pressure line shall be sized according to body manufacturer recommendation and be two wire SAE 100 R2 rated. | X | — | _____ |
| (1) Any piping must be schedule 80 high-pressure pipe to be spaced for material to fall through. Design to be approved on prototype. | X | — | _____ |
| vii) Hose from reservoir and from sander connection to the return line shall be no less than one wire 1250 psi and must be plumbed in ahead of the return line filter. | X | — | _____ |
| m) All pressure line fittings shall use high-pressure steel adapter fittings with swivel couplings to allow easy hose or component removal. (JIC 37° flare fittings wherever possible and practical) Return lines must use appropriate fittings for pressure present. All hoses from the back of the black pipe to the sander connection must have 37° flare swivel fittings throughout. | X | — | _____ |
| n) All test ports for testing shall be accessible for connecting test gauge. | X | — | _____ |
| o) All hydraulic hosing to be routed, secured, and protected from pinching or abrasion. Securing of hoses to be designed to withstand severe ice and snow buildup. Use heavy J-hook style hose hangers as necessary. Routing and support to be approved. | X | — | _____ |
| 18) Dump & Spreader Box | X | — | _____ |
| a) Body shall be of standard production, versatile, with the ability to be used as a dump body or as a spreader to allow material to discharge through the tailgate onto a spinner assembly. | X | — | _____ |
| b) The body shall be 14' in length and top outside width shall be 96", with a minimum of 8 cubic yard capacity. Continuous welds throughout. | X | — | _____ |
| c) Minimum 7 gauge stainless steel, one piece sides of a radius or trapezoidal design or of not less than a 35° slope if non radius or trapezoidal. Understructure and floor to be minimum of 3/16" stainless steel. | X | — | _____ |

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d) Front and rear ends to be minimum 6" higher than sides and equipped with pockets for 2" wide sideboards.	<u>X</u>	—	_____
e) Body longitudinals should be of height to provide sufficient clearance between body-mount fenders and top of wing post	<u>X</u>	—	_____
f) Integral box mounted rear fenders to cover wheels of truck chassis. Designed with no raised edges to trap material and the strength to carry and support a minimum of 200 gal pre-wet tanks filled to capacity with fluid chemicals weighing up to 14 lbs per gallon. (One each side).	<u>X</u>	—	_____
i) Brine tanks not to protrude beyond fender width.	<u>X</u>	—	_____
g) Boxed top rail at sides and front.	<u>X</u>	—	_____
h) Free standing/stationary cab guard shall be approximately 24" with width to widest point of cab and adequate height to provide proper cab clearance. Cab guard shall incorporate square tubing into the front corners to allow for adjustable warning light supports. Cab guard shall allow for the chassis exhaust system to pass through or alongside to give the best cab protection without modification of the exhaust system. If the exhaust system must be modified it must be approved. All modifications are at the box vendor's expense. (See drawing)	<u>X</u>	—	_____
i) Cab shield panel to be minimum 10 gauge stainless steel.	<u>X</u>	—	_____
ii) Uprights shall be standard 6" channel to top part of cab and for cross member.	<u>X</u>	—	_____
(1) Upright flanges shall face away from center of chassis.	<u>X</u>	—	_____
(2) Each upright shall be bolted with a minimum of 4 each of 5/8" grade 8 bolts to chassis rails.	<u>X</u>	—	_____
(3) 6" channel to be placed between the uprights (flanges down) on the top of the frame rails and properly welded to uprights. This channel shall not be welded to frame rails. Hydraulic tank brackets to be welded to topside of channel.	<u>X</u>	—	_____
iii) Top cross member shall be welded to uprights and gusseted with two 1/4" plates of 6" x 6" x 8 1/2" dimensions at rear part of assembly.	<u>X</u>	—	_____
iv) Cab shield shall be continuously welded or bolted with grade 8 bolts to uprights and top cross member.	<u>X</u>	—	_____
(1) Reinforced and welded to cross member with two 3" – 4.1# channel irons, which are extended the full length of the cab shield and align with the 6" channel uprights.	<u>X</u>	—	_____
(2) Adequately gusseted from 3" channel iron to 6" channel iron.	<u>X</u>	—	_____
(3) Welded to 3" channel irons with flanges downward.	<u>X</u>	—	_____
(4) Have provisions that do not allow ponding of water.	<u>X</u>	—	_____
v) 1/4" x 2" x 2" angle iron shall be welded at bottom of cab shield between uprights to support cab shield.	<u>X</u>	—	_____
vi) Rubber seal/wiper between shield and dump body. Shall not allow accumulation of material between body and cab guard.	<u>X</u>	—	_____
vii) Shovel holder for long handle square spade attached to upright.	<u>X</u>	—	_____
viii) Must have prototype approved.	<u>X</u>	—	_____
i) Tailgate with formed boxed outer edge and boxed horizontal center braces having 30 degree slope top edge. Outer vertical channels of boxed perimeter to be 1/4" thick for additional strength.	<u>X</u>	—	_____
j) D-ring attached to inside or outside top center for lifting purposes.	<u>X</u>	—	_____
k) Air operated tailgate latch system. Installation shall allow temporary operation of the tailgate should the air operated device fail.	<u>X</u>	—	_____

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|--|---|---|--|
| l) Top and bottom tailgate hinge pins to be 1" diameter, minimum | X | — | _____ |
| i) Tailgate hinge pins and latching mechanisms to be greaseable. | X | — | _____ |
| m) 5/16" spreader chains attached to upper sides of tailgate with upper and lower anchors that permit hinging tailgate to top or bottom. Chain to be encased in hydraulic hose sheathing. | X | — | _____ |
| n) Material door in bottom center of tailgate with self-locking adjustable screw jack opening to control material volume accessible from ground level. | X | — | _____ |
| o) The body conveyor shall be a minimum of 28" width and shall have 26,000 pound tensile strength per strand pintle chain AL667XH or better with 1 1/2" x 1/2" bar flights welded top and bottom to every other link. | X | — | _____ |
| i) Rear conveyor shaft shall have full width rubber belting connected from floor pan and extending over rear shaft and protrude slightly through passing floor chain bar flights to effectively wipe every bar flight clean as it passes over rear sprocket. | X | — | Bonnell Has
Two wipers
Exceeds spec. |
| ii) Conveyor shall be driven by a minimum single 25:1 planetary or two 6:1 spur gear boxes and high torque/low speed hydraulic motor(s), eight tooth sprockets keyed to 2" drive shafts. Single planetary gearbox must be protected from damage with a keyed surface area rated for use with the specified output of the gearbox. Heavy duty, dust sealed, self-aligning four bolt flange bearings. At least one of the conveyor drive motors must have an integral speed sensor with 100 pulses per revolution to operate in conjunction with the closed loop ground speed controller. Speed sensor connection must be tied up in an accessible position near motor to keep out of debris and allow for easy access for diagnostics. NO EXCEPTIONS. | X | — | _____ |
| iii) Front idler shaft shall be 2" with eight tooth sprockets keyed to shaft, mounted supported by heavy duty, dust sealed bearings. | X | — | _____ |
| iv) Chain tension adjustment shall use stainless steel threaded rod and lock nut with slide rail system. NO EXCEPTIONS. | X | — | _____ |
| v) Grease banks as necessary for easy access to lubrication points. | X | — | _____ |
| vi) Conveyor to have removable cover made of stainless steel to prevent debris from dropping on the truck frame. | X | — | _____ |
| p) Spinner assembly, complete, with all mounting hardware and instructions, is to be supplied with the truck for mounting at NDDOT district locations. Spinner shall be an open disc with a deflector to guide sand away from truck. Spinner shall also be designed for quick removal by one man during non-sanding applications. Quick couplers with tethered dust caps for spinner to be mounted rear side of box. Design must be approved. (See photo example) | X | — | _____ |
| i) The spinner motor shall be high torque/low speed mounted directly to the spinner disc with a hub. Bolt on spinner disc shall be minimum 18" diameter and manufactured of 1/2" thick polyurethane or 10 gauge stainless steel. | X | — | _____ |
| q) Stainless steel ladder – mounted curbside. Must fold up for transport | X | — | _____ |
| i) Fabricated with approximately 5 rungs with access from about a 2' grade. Ladder design must be approved by NDDOT. | X | — | _____ |
| ii) Mounted on front side of box ahead of dual tires. | X | — | _____ |

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iii) When in transport position, must not extend beyond main edge of body more than 3". Dual latch system to keep in place while traveling. . Ladder shall not extend beyond top of box sideboard (with sideboards in place)	X	—	_____
iv) Fixed slip resistant grip strut rungs with no sharp corners welded to inside of box allowing a person to climb into box.	X	—	_____
v) Skid resistant/epoxy-bonded coating on top of each rung. Bustin Industrial Products Firm-grip™ grating, formed channel tread grip, or equal may be substituted for skid resistant coating on the rungs.	X	—	_____
r) All additional electrical wiring must be circuit breaker protected.	X	—	_____
s) Back-up alarm, self-adjusting sound level, 87 thru 107 decibels, and lifetime warranty ECCO SA901, Target Tech 210505, or approved equal. To be mounted to the bottom of the right taillight guard.	X	—	_____
19) Lights – NOTE: All wiring for the tail and clearance lights shall be protected from wear and tear and shielded from mud and ice buildup. All holes for wiring must be grommeted.	X	—	_____
a) Dump Box & Spread Box			
i) Lights to meet ICC regulations.	X	—	_____
ii) Clearance lights and reflectors - Minimum two amber clearance lights in front and two red clearance lights in rear of box.	X	—	_____
(1) Minimum 9 diode high count LED lamps, Grote G3002 red, Grote G3003 yellow or equal.	X	—	_____
iii) LED Stop/Turn/Tail & Backup lights to have a 4" x 1/4" stainless steel bolt on rectangular shield around them. Taillights mounted on the outer edge of the box with bolt on brackets leaving a 1" air gap between housing and box side. Backup light to be below S/T/T light. Height 68" – 72" from ground level to center of S/T/T light. Exact location to be approved.	X	—	_____
(1) Stop/Turn/Tail and Backup lights to be Whelen 700 series, (7" x 3") or 400 series (5" x 3") or pre-approved equal mounted in double-light head 700 series rectangular stainless steel housing primed and painted to match box.	X	—	_____
b) Front Plow Lights – NOTE: All wiring to have protective covering and routed so as not to be pinched or worn prematurely from rubbing or chafing. Truck will be factory wired for plow lights to the hood hinge area with switch installed on instrument panel.	X	—	_____
i) Truck Lite #80880 snowplow light or equal.	X	—	_____
ii) Housings to be corrosion and impact resistant.	X	—	_____
iii) LED light.	X	—	_____
(1) High/low beam, 12 volt.	X	—	_____
(2) Turn signal/parking lamp.	X	—	_____
iv) Light support – 1 1/4" steel angle to be fastened with existing grill bolts. Angle to be approximately 2' long, not to exceed hood height. Light mounted to 1" square tubing with adjustment holes capable of adjusting to an additional height of 24". 1 1/4" angle welded to top of square tubing and angle braced to extend light to position directly above OEM headlights. All fasteners attached to factory hood/grille must use rubber or other insulating/dampening material between hood/grille and plow light bracket. Design to be approved on prototype.	X	—	_____

**Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560**

Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

SSP-22-2ADSUBW

- | | | | | |
|------|--|---|---|-------|
| v) | Wiring to be connected to OEM wiring at hood hinge area and can be disconnected using a GM weatherpack connector or approved equal. | X | — | _____ |
| vi) | All wire splices shall be soldered and protected with heat shrink covering. | X | — | _____ |
| vii) | Wires to be properly grounded. | X | — | _____ |
| c) | Top/Rear plow light system. SIX LIGHT HEAD SYNCHRONIZED LED WARNING LIGHT SYSTEM (Must meet specification SSP-01) NOTE: All wiring for strobe lights shall be protected from abrasion and shielded from mud and ice buildup. All holes for wiring must be grommited. | X | — | _____ |
| i) | Four rear mounted remote LED light head assemblies, two amber and two clear. Continuous individual wiring from each light to the rear electrical housing and then to the control panel. | X | — | _____ |
| ii) | Two cab guard mounted 180 degree LED strobe light head assemblies. Continuous individual wiring from each light to the control panel. | X | — | _____ |
| | (1) Mount level to front corners of cab guard, extendable from width of cab guard to outside (102" width) of mirrors through use of tube-in-tube design. Design must be approved. (See Photo example) | X | — | _____ |
| | (2) Wiring for light heads from chassis frame to top of cab guard to be routed through metal conduit attached to the cab guard upright or split loom and tube clamps may be used as long as the clamps have maximum spacing of 12 inches. | X | — | _____ |
| iii) | One inside cab mounted four-outlet LED ballast/junction box. | X | — | _____ |
| iv) | LED warning light system with heavy duty DOT solid state flasher with diagnostics. | X | — | _____ |
| v) | Rear light support – 1 ½" square telspar steel tubing mounted approximately 60 degrees on rear of box and roughly adjustable from 9' – 12'. Tubing to be angled to the rear but not extending more than 18" behind box. Square tube support bracket not acceptable. Mounting brackets to be as high on the side of box as possible without interfering with tailgate operation or hinge pin removal. | X | — | _____ |
| | (1) See pictures of DOT support bracket to allow telespar tubing to pivot from vertical to horizontal. Nylon bushing/washers shall be installed on both sides of pivot pin to hold telespar tubing from vibration but still allow free pivot movement. DOT will supply prototype bracket to awarded vendor.. | X | — | _____ |
| | (2) Amber LED lights to be mounted to top of support. Clear LED lights to be mounted ½ the distance from top of support to top of box. Stainless steel fasteners to be used for the mounting of the aluminum light heads to the telspar along with nylon isolating washers placed between telspar and aluminum light head to prevent corrosion caused by dissimilar metals. | X | — | _____ |
| | (3) Wiring to be routed through the center of the telspar. | X | — | _____ |
| d) | One wing and one underbody scraper 12V LED work light, located at the rear corners of the cab. One sander work light located under left taillight housing. Final location to be determined upon award. All three lights to be wired to one work light switch. Truck Lite #8160 or equal | X | — | _____ |
| i) | Housings to be corrosion and impact resistant. | X | — | _____ |
| | (1) Weatherproof. | X | — | _____ |
| ii) | Universal mounting stud and adjustable bracket. | X | — | _____ |

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W. SSP-22-2ADSUBW

20) Hoist

- a) NTEA rated and classified.
- b) Class 80, telescopic.
 - i) Cylinder to have full power up and power down top stage.
 - ii) Melonized cylinder rod surfaces with a predominance of single-phase epsilon nitride to cover entire surface.
- c) Minimum hinge pin diameter – 1 15/16" hardened steel.
- d) Minimum dumping angle – 50 degrees at 12" overhang.
- e) Minimum of 1 1/2" chassis frame extending beyond wing cross tube to allow for pintle plate mounting.
- f) In cab, box up indicator light (see panel switches), to be coil spring wobble lever, sealed, snap action switch, frame mounted, Grainger stock no. 3A096 or equal.
- g) Safety prop(s) to support body at 20-degree angle, frame mounted, self-aligning for one person operation, easily accessible. Prototype to be approved.

X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____

21) General

- a) Paint – All non-stainless steel to be primed and painted black.
- b) Spot painting must include hardener and be applied with spray gun.
- c) Mud flaps front and rear of rear tires, 24" wide by 30" long, made of 5/16" quality rubber. Stainless steel brackets. The rear flaps must be quick to remove through the use of a 1/2" round rod and spring clip and free swinging. The front flaps fastened permanently with anti-sail devices mounted to prevent tire contact.
- d) Tool box 18" x 18" x 24". All aluminum construction, .125 Treadbrite. Bottom hinged door. Full-length corrosion resistant hinge. Key lockable paddle latch with adjustable striker plate. Full neoprene door seal. Two chain or cable door retainers. Drip rail or door recess. Five year product warranty. Acceptable brand: Alum-Line, American or RKL. Other brands must be pre-approved.
 - i) Mounted with 2" mild steel channel, two cross supports under floor of box and gusseted. **Mounting contact areas between aluminum and steel to be isolated with fuel tank rubber belting or similar.**
- e) Must use stainless steel fasteners when mounting stainless steel. Except where strength is needed.
- f) Appropriate steps must be taken to keep mild steel and stainless steel cross contamination from occurring.

X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____

22) Snow Plow Quick Hitch, Falls 26B, Monroe FLS26BND, Henderson H46B-ND or equal.

- a) Snowplow connecting mechanism shall be the Rapid Push Bar Quick Coupler as manufactured by Little Falls Machine, Inc., Monroe, Henderson or equal.
- b) Quick coupler system shall incorporate push arm receptor sockets with spring loaded tapered pins for proper pin alignment. Grease zerks installed for pin lubrication. Pin retractor mechanism shall be conveniently located for ease of operation.

X	—	_____
X	—	_____
X	—	_____

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W. SSP-22-2ADSUBW

- | | | | | |
|-----|--|---|---|-------|
| c) | Mounting system shall adapt to frame rails of truck chassis and shall be adequately braced with grade 8 frame bolts meeting SAE J-429 specification to the truck chassis frame by minimum 3/4" x 4" A-36 steel bars which will be additionally reinforced. Stabilizer arms shall be attached to the frame by means of 1/2" thick steel Z brackets. Vertical risers and plow lifting yoke shall be low profile to allow clearance for tilting hood without tilting or disconnecting plow hitch. | X | — | _____ |
| d) | Universal lift arm to be adjustable inward/outward using heavy-duty square tube within square tube with pin adjustment. Shall be capable of lifting reversible or V-plows weighing as much as 3000 lbs. | X | — | _____ |
| e) | Hydraulic plow lift cylinder shall be minimum 4" x 10" single acting type with chrome-plated rod. Hydraulic cylinder shall be certified to a minimum of twice (2X) the pressure (2250PSI) of the hydraulic system. | X | — | _____ |
| f) | Hydraulic ball valve at lift cylinder to shut off oil flow when plow is not in use. | X | — | _____ |
| g) | Mounting height shall be 15" to center of connecting pin. Hitch to be cushioned where tilting hood may strike when opened. | X | — | _____ |
| h) | Complete hitch shall be primed and painted to match the truck frame. | X | — | _____ |
| 23) | Trailers pull plate, pintle hitch, D-rings, electrical connector, and glad hands installed on the truck. See enclosed drawing. Note: disregard the location of the light plug-ins on the drawing. The successful vendor must approve the entire hitch design with NDDOT and build a prototype for approval on the first truck. | | | |
| a) | Must be made using 3/4" material for the plate and gussets. | X | — | _____ |
| b) | Must provide a Holland PH410 pintle hitch rated at 20,000lb vertical load and 100,000lb gross trailer weight installed with grade eight bolts and lock nuts. | X | — | _____ |
| c) | Two D-rings on each side of the pintle hitch rated for 100,000lb of gross trailer weight between the two. | X | — | _____ |
| d) | 2.5" receiver welded into the plate below the pintle hitch. | X | — | _____ |
| e) | Pull plate must be properly braced and welded to be rated for 100,000lb gross trailer weight. | X | — | _____ |
| f) | The round seven pin trailer light connector and two glad hands are to be mounted in hitch plate. Air glad hands one on either side of pintle hitch. 7 pin trailer connections to be above LH glad hand. 7 pin trailer connection must not be positioned above pintle hitch for clearance issues with trailer tongue. See attached picture for guidance. Final location and process must be approved by NDDOT. | X | — | _____ |
| g) | RH or LH rear wing post mount to be integrated into hitch plate and be bolt removable for summer operations. Must use wing manufacturers recommended bracketry to attach to hitch plate and design be approved by manufacturer. See attached photo for reference. | X | — | _____ |
| 24) | Warranty | | | |
| a) | One-year full unconditional warranty, manufacturer's warranty shall apply if for longer period. | X | — | _____ |

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W. SSP-22-2ADSUBW

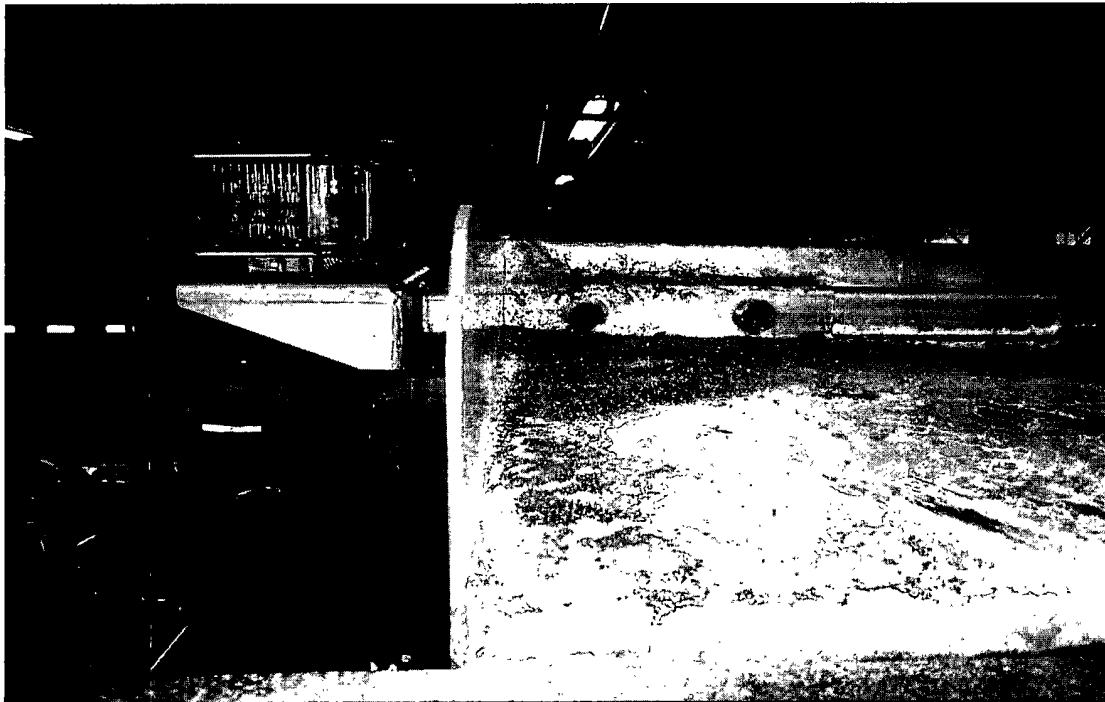
25) Delivery

- a) Truck must be test driven and all hydraulic, brine, plow, sander, and electrical functions must be tested to make sure they work properly, and that there are no fluid leaks. All vendor installed attachments to be greased/lubricated. **Grease bank hoses must be primed/prefilled.** Truck must pass a final inspection performed by NDDOT employees before delivery can be made. Truck must be test driven and all hydraulic, brine, plow, sander, and electrical functions must be tested to make sure they work properly, and that there are no fluid leaks. All vendor installed attachments to be greased/lubricated. Truck must pass a final inspection performed by NDDOT employees before delivery can be made.

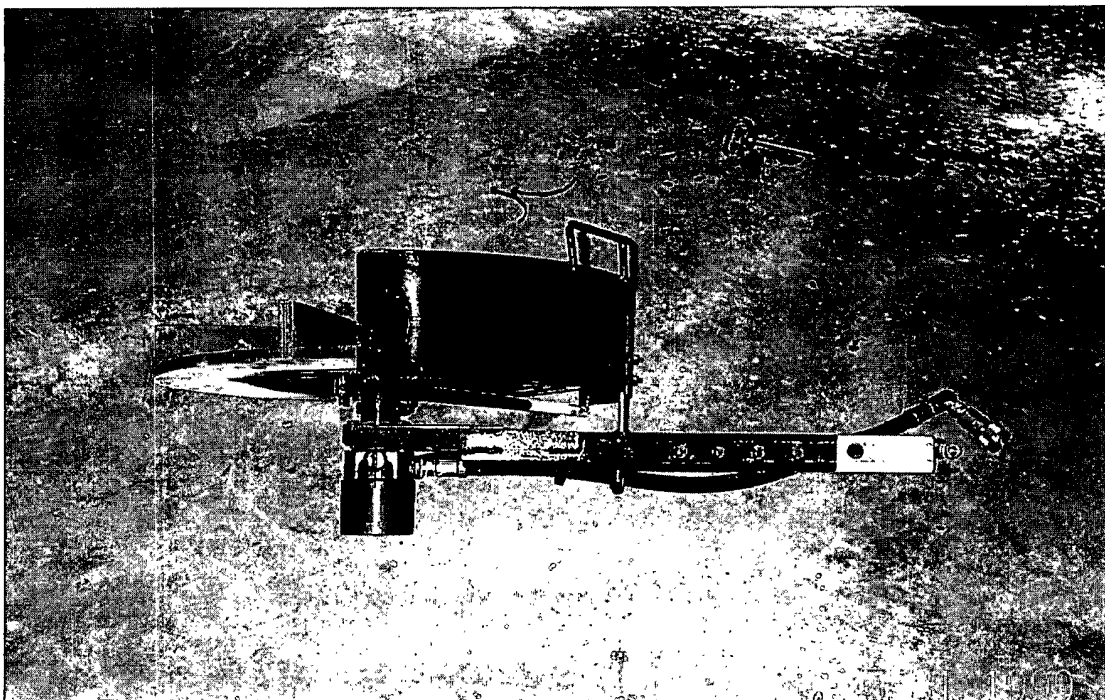
BODY MAKE: Bonnell MODEL: Commander MCR-14-S2-ND
HOIST MAKE: Mailhot MODEL: CS-130-9.5-3 DA
PUMP MAKE: Force America MODEL: FASD45R-Repto-kat
QUICK HITCH MAKE: Falls MODEL: 26B
LED WARNING LIGHT SYSTEM MANUFACTURER: Whelen

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BIDDER _____

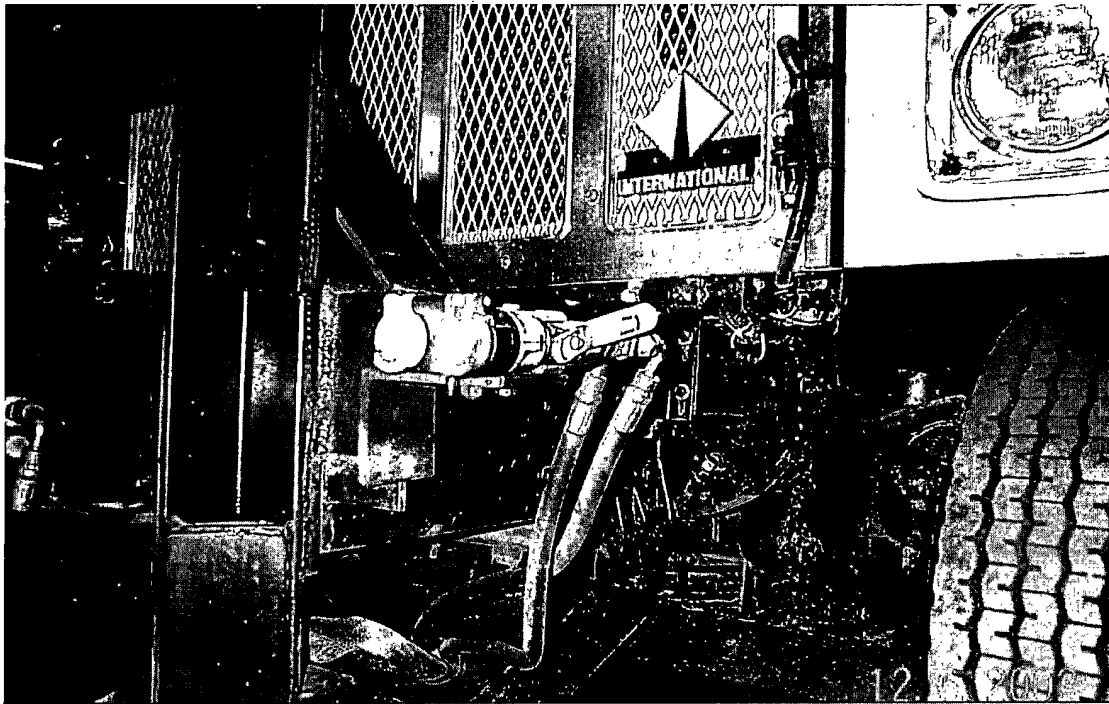


Adjustable mounting brackets for LED light heads

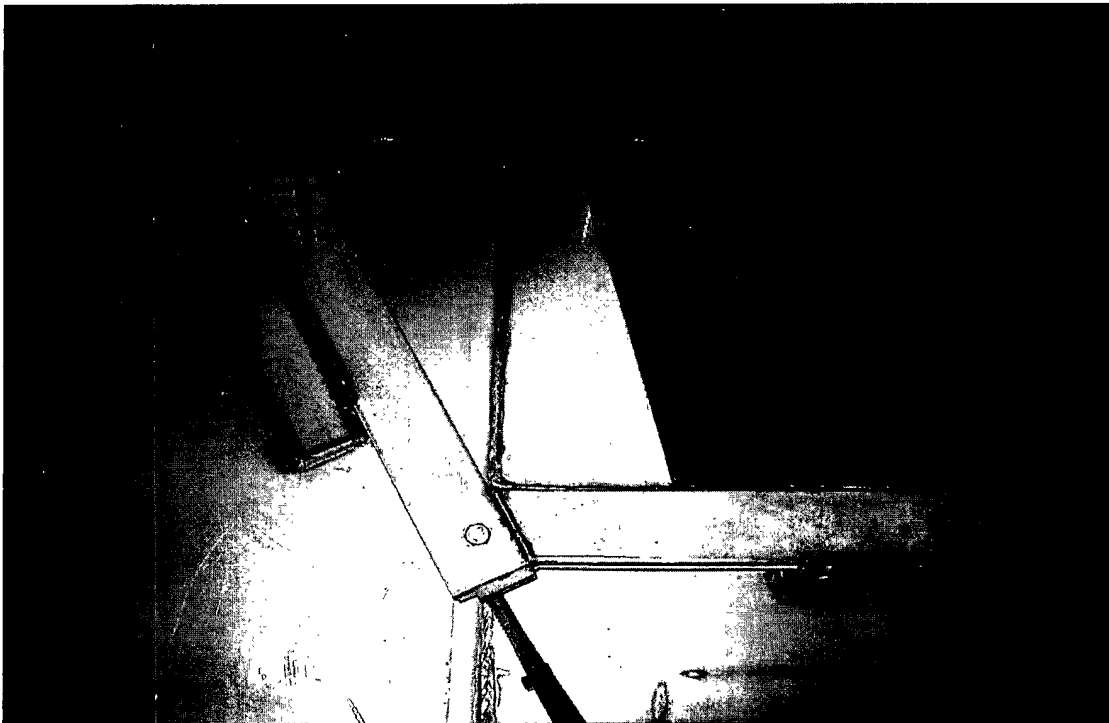


Example of spinner type

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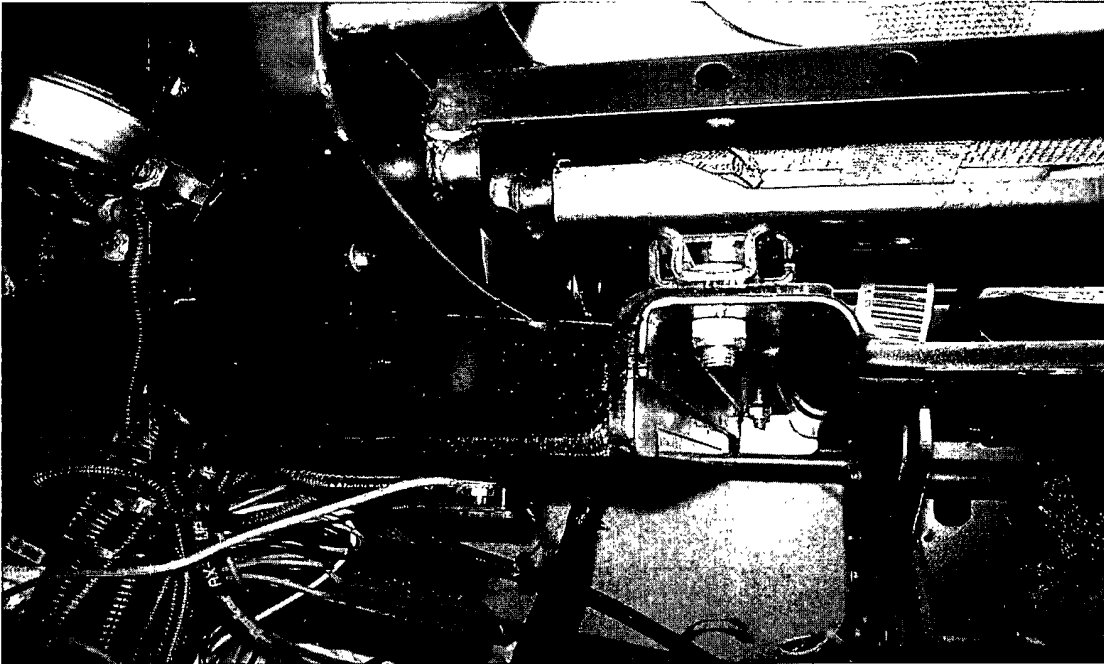
Front plow quick coupler mount



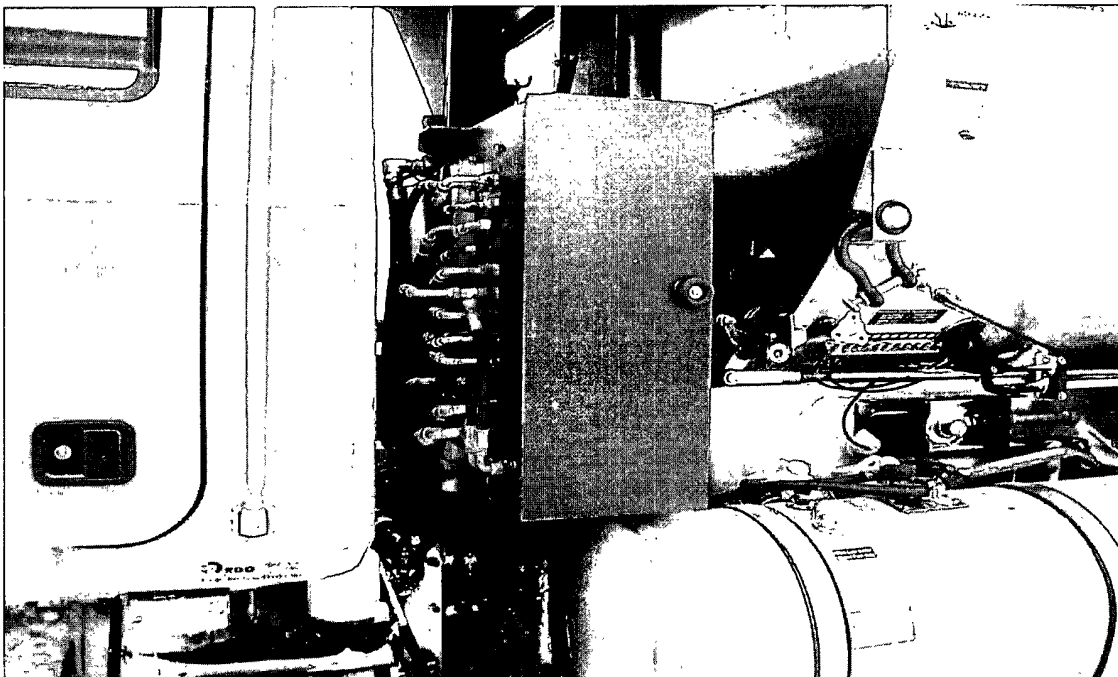
Example of rear LED light bracket

4/13/2015

Informational Data



Seat mounted hydraulic and sander controller bracket

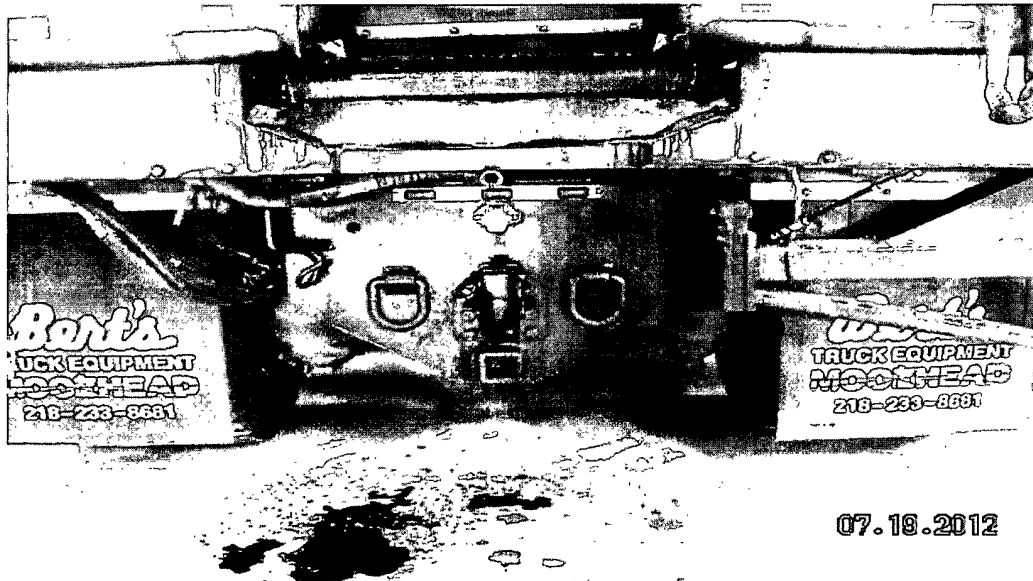


Vertical valve enclosure

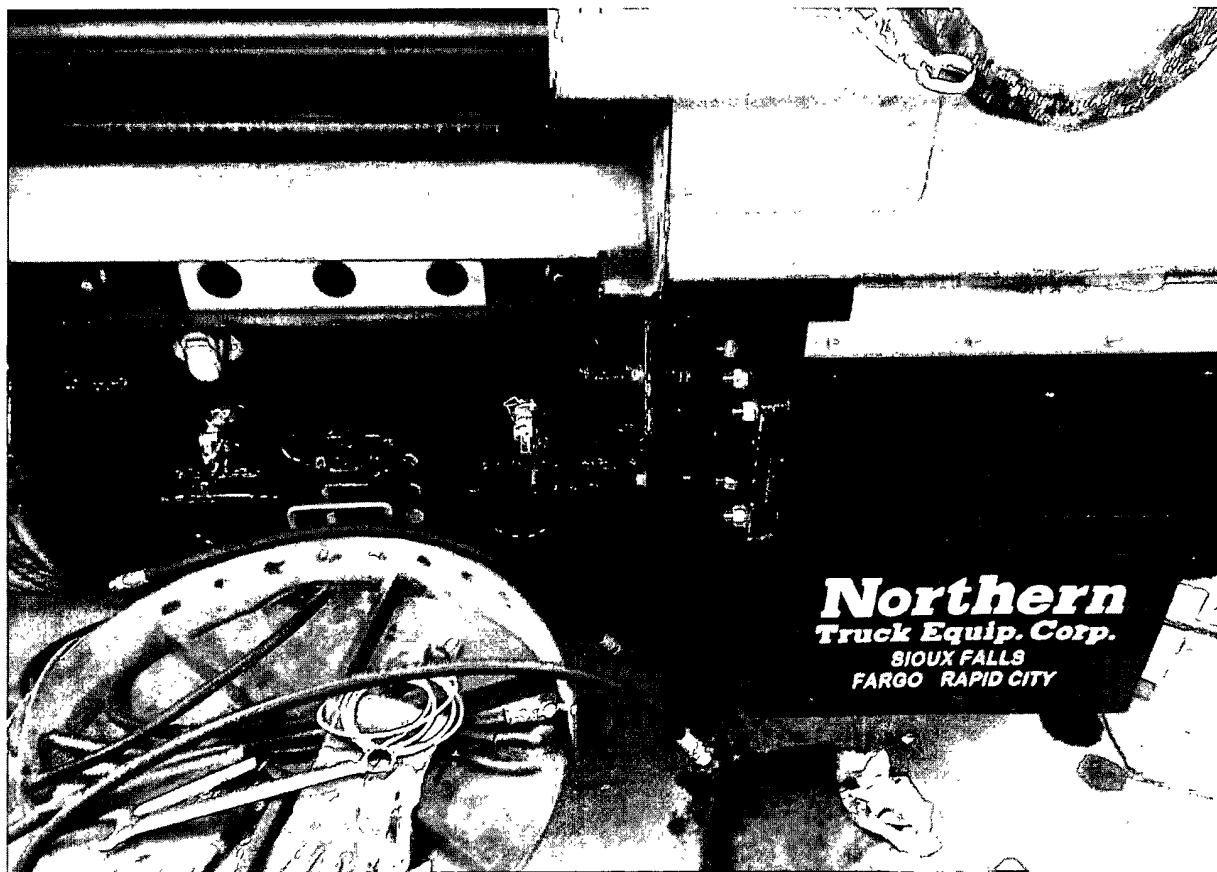
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4/13/2015

Informational Data



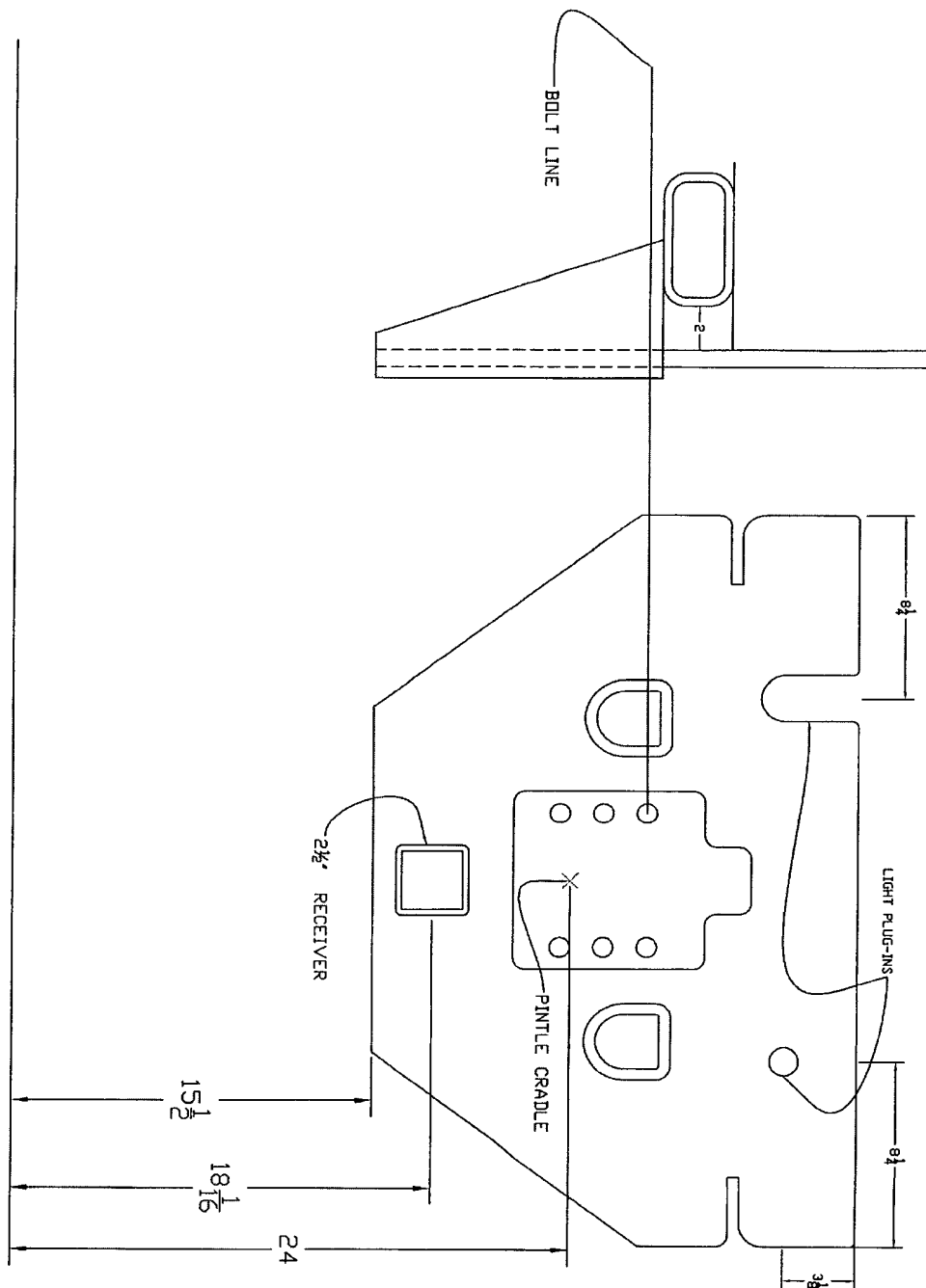
Picture of Integrated rear wing mount (RH wing)



Preferred Hitch component locations

Bert's Truck Equip. of Mhd
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PROPOSED HITCH

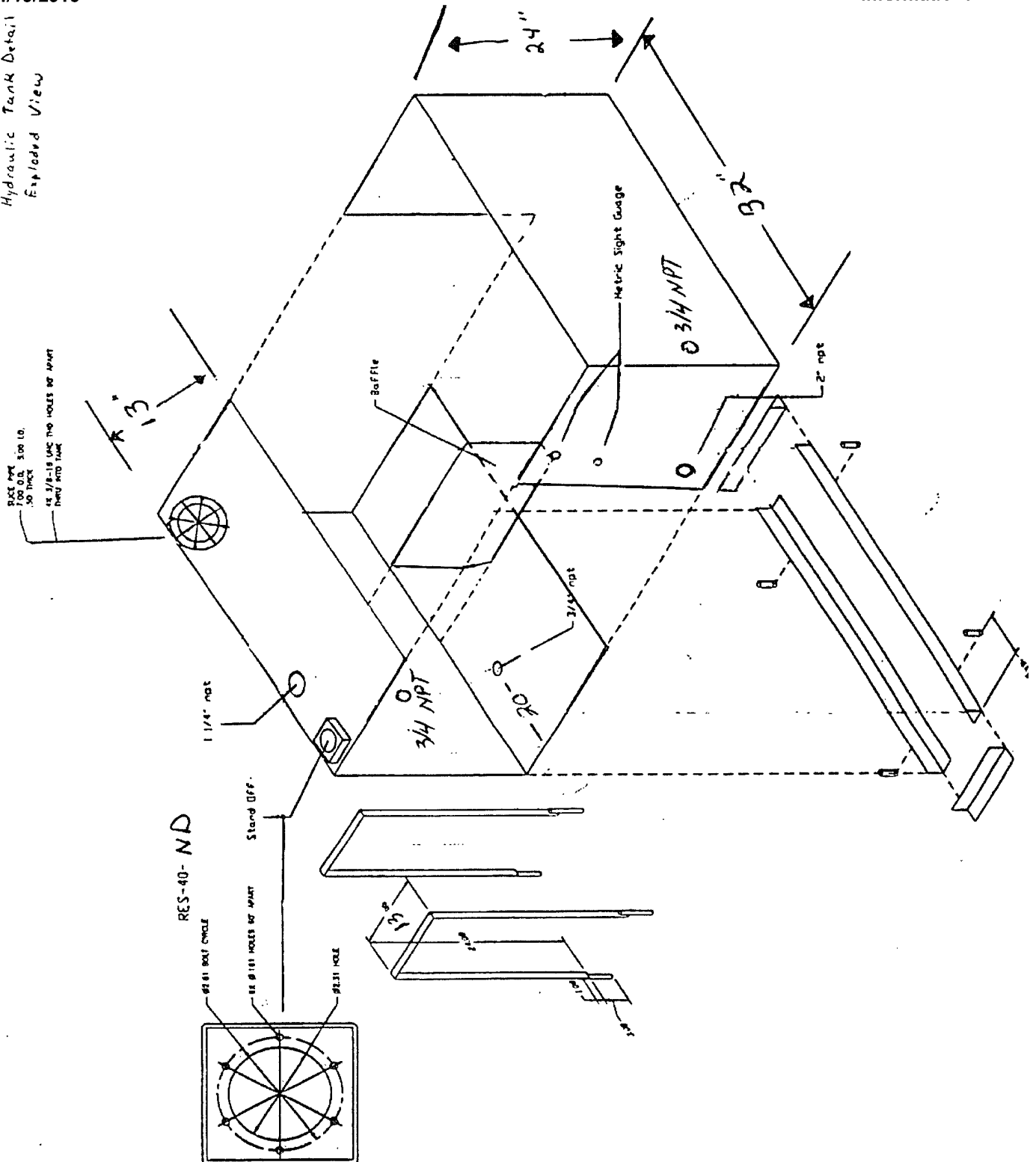


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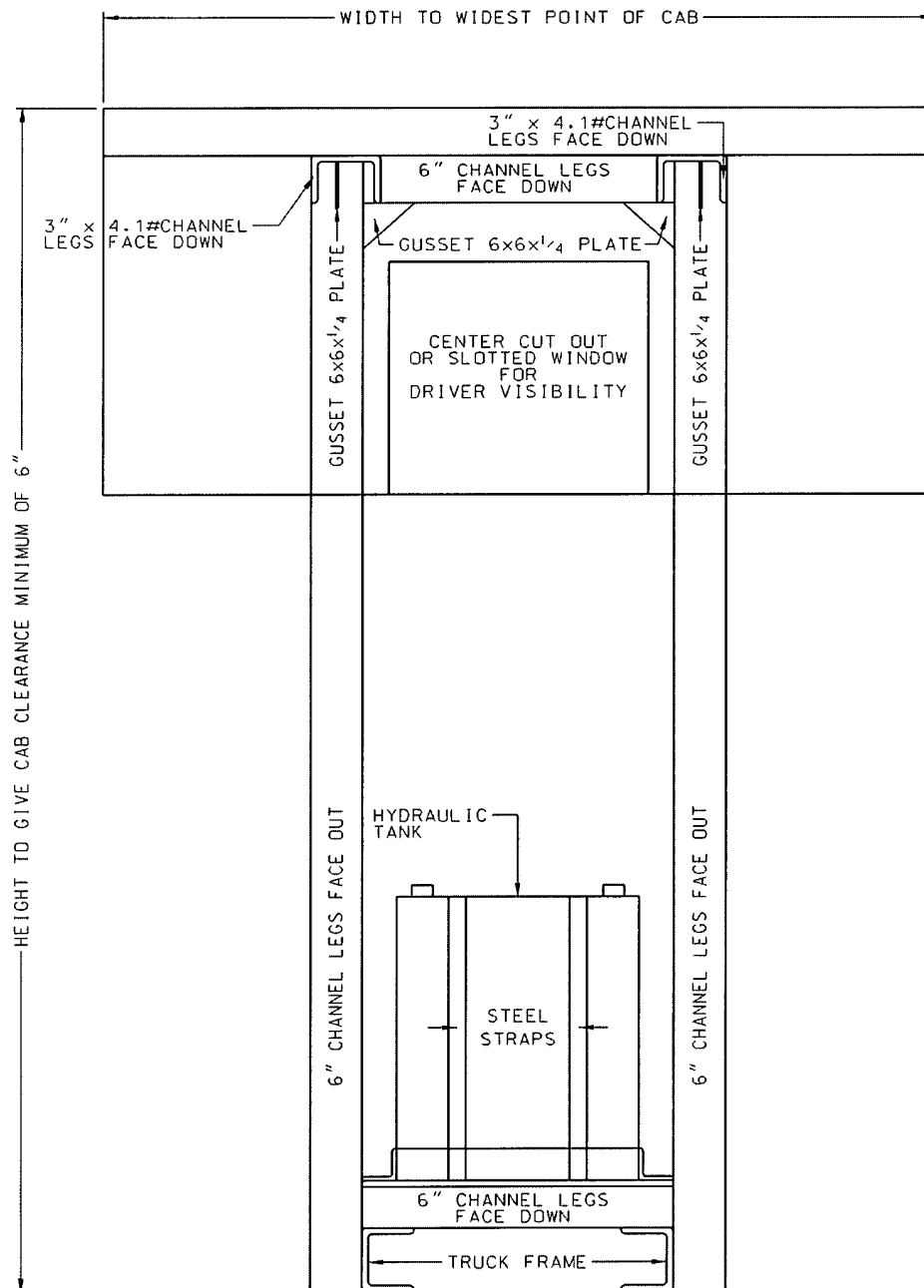
4/13/2015

Informational Data

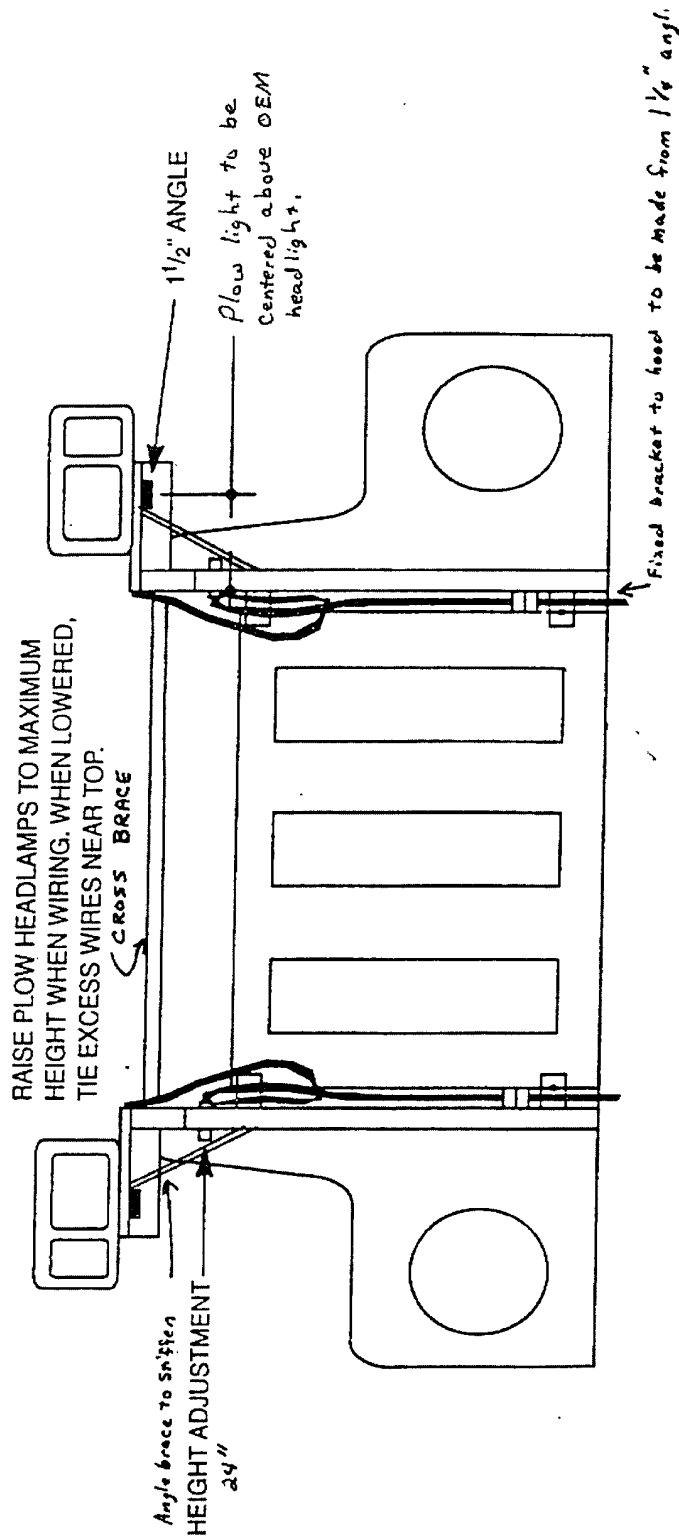
Hydraulic Tank Detail
Exploded View



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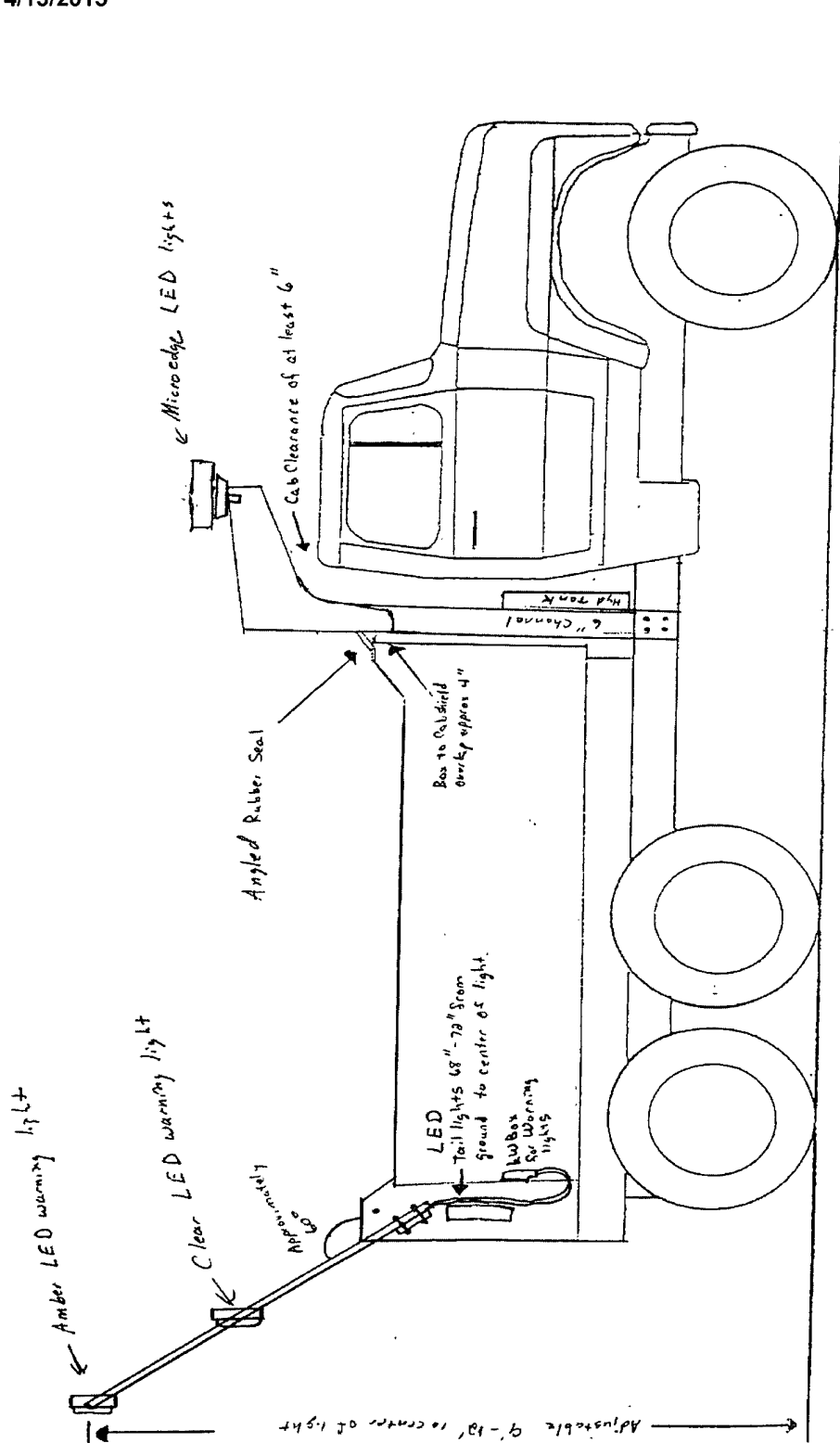


PLOW HEADLAMPS



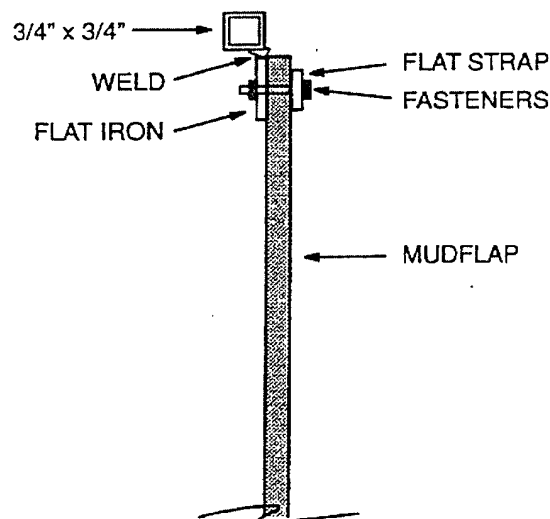
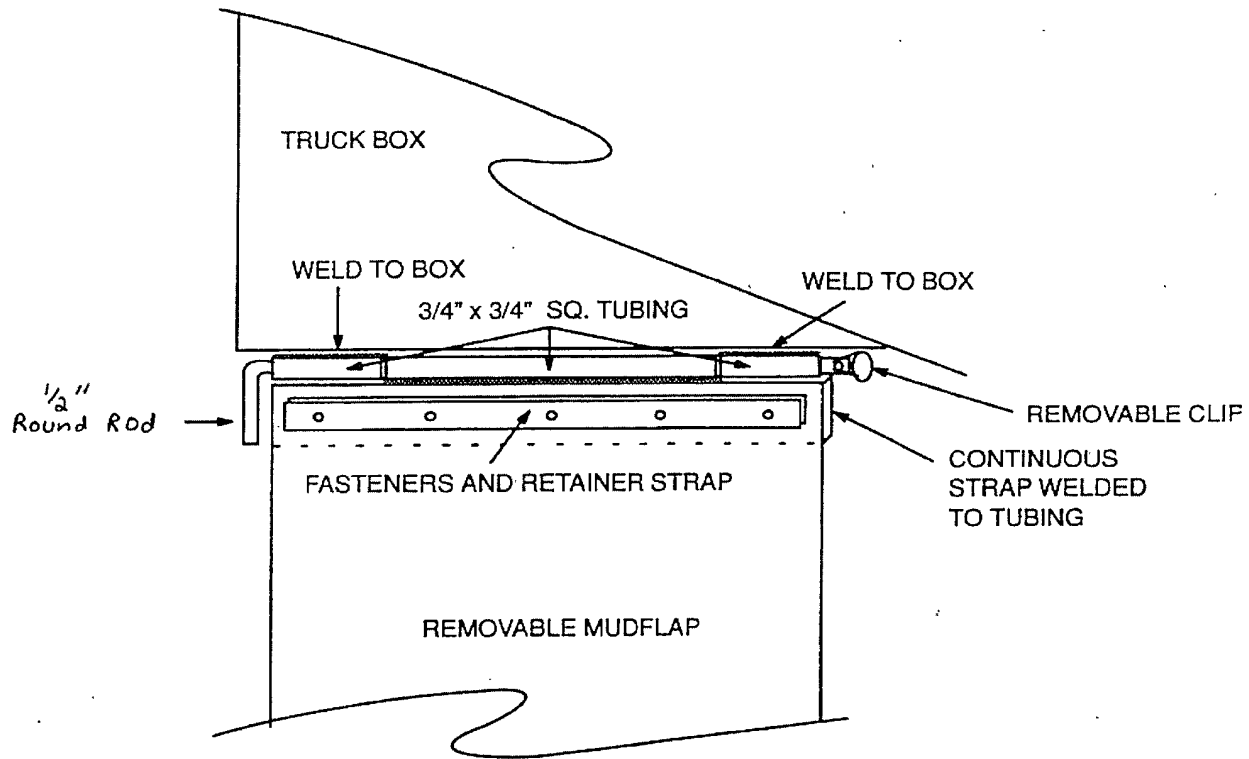
Mounting of plow headlamps needs to allow for installation of a winter front.

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REAR MUDFLAP DETAILS



Bert's Truck Equip. of Mhd
3804 Hwy 75 N
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Maintenance & Engineering Services Specifications This Section

SSP-95-4180-2	11' Underbody Scraper
SSP-95-4200-23	10' Rear Mount Snow Wing
SSP-95-2400-4	Tailgate Spreader
SSP-95-5700-4	200 Gallon Fender Mount Gravity Pre-wet System
SSP-95-5700-10	150 Gallon Tailgate Mount Gravity Pre-wet System

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
UNDERBODY REVERSIBLE SCRAPER, 11'
(MONROE 3500-11, ROOT F-89-11 WITH OPTIONS, FALLS IBR-11 WITH OPTIONS,
HENKE UBS-XH11, HENDERSON H-UBS-11, OR PRE-APPROVED EQUAL)**

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe an 11' underbody scraper to be furnished and installed on a 58,000 GVW tandem axle truck. The underbody will be installed on the same chassis with a rear wing. The underbody shall work in combination with the 10' rear wing and discharge material onto the wing without leaving a ridge between the wing and underbody. The underbody shall be designed for high-speed snow plowing, removing hard packed snow, or scraping ice. The underbody shall be of all steel fabrication, of rugged construction, and properly braced and reinforced. The underbody shall be standard production of the latest model with standard accessories and in addition meet **or exceed** the following minimum specifications.

Installation: The underbody scraper shall be installed according to the manufacturer's instruction and to the acceptance of the NDDOT. The underbody shall be installed at a height of 20", $\pm 0.5"$ as space allows, from the bottom side of the circle to the ground on a bare chassis (**NO EXCEPTIONS**). Two grease banks shall be installed for easy greasing of the hanger rod and the center bushing. Six to Eight grease ports equally spaced shall be plumbed into the hanger board / rod connection. The grease ports on the hanger board shall be split to two separate banks with equal ports per side. The center bushing grease port may be plumbed to either grease bank. The grease banks shall be mounted on the ends of the hanger board for easy access and rotate with the underbody. A metal fitting shall be used at the grease port. Grease hose tubing shall be used to connect the grease port to the grease bank. The grease hose tubing shall be Parker Paraflex Hytron HLB02, 1/8" ID, 3,000 PSI rated or equal. The fittings shall be 1/8" straight and/or 1/8" swivel from Parker or equal. The grease hose tubing shall be secured to the front of the hanger board. The grease tubing shall be properly secured to prevent from being caught or rubbed on hardware or other components. Where the tubing is susceptible to contact with other components, it shall be wrapped or protected. **All grease hoses to be primed/prefilled with grease.** The circle mount stop blocks shall be chamfered and welded on all accessible sides of the block. Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck @ (701)328-2565.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
1. CIRCLE			
a. 1" thick steel	X		
b. One piece, notchless	X		
c. 5" hardened center pin/bushing	X		
i. Relubable by grease bank	X		
d. Cylinders will be mounted with 1.5" hardened pivot pins or grade 8 bolts and lock nuts	X		
e. 13" hold down blocks with polyurethane or steel wear pads preferred but not required (Note: manufacturer's standard production model according to sales literature is required)	X		
2. HANGER			

UNDERBODY REVERSIBLE SCRAPER, 11'

SSP-95-4180-2

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
a.	¾" thick plate steel one piece hanger bracket or equal	X		
b.	A 36 or equal steel	X		
c.	10"--30# structural member or equal	X		
i.	Channel hanger board	X		
ii.	½" x 7½" reinforcing	X		
iii.	Full hinge length 4" S & C 13.8# channel, ½" x 3" x 3" angle, or equal	X		
3.	MOLDBOARD			
a.	11' wide x 1" thick x 20" high	X		
b.	Heat treated carbon steel	X		
c.	Offset and punched and spaced according to AASHTO standards to accept 5/8" bolts for tungsten carbide cutting edges (cutting edge furnished by NDDOT)	X		
d.	Clearance height with moldboard in fully raised position from the bottom of the frog to the ground approximately 10"	X		
e.	Two heavy duty shock absorber assemblies or hydraulic accumulator system	X		Hydraulic Accumulator
f.	1' square piece of expanded steel or machine punched grip strut on the drivers and passenger side back of the moldboard to be under the side truck step	X		
4.	HINGE			
a.	2½" O.D. solid carbon or 1¾" cold rolled steel shaft	X		
i.	96" long	X		
b.	Minimum three hinges	X		
c.	Greased by grease bank	X		
5.	HYDRAULIC COMPONENTS			
a.	Two 3½" double acting reversing cylinders	X		
i.	2" nitrated cylinder rod	X		
ii.	Crossover relief valve	X		
b.	Two 3" double acting moldboard actuating cylinders	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

UNDERBODY REVERSIBLE SCRAPER, 11'

SSP-95-4180-2

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
i.	1.5" nitrated cylinder rod	<input checked="" type="checkbox"/>		
ii.	2" O.D. trunion bearings	<input checked="" type="checkbox"/>		
c.	Externally mounted hydraulic steel tubing or hydraulic hose with wear resistant coating protectant. All hydraulic hose must meet minimum specification as outlined in the truck box specification.	<input checked="" type="checkbox"/>		
d.	Set to apply and maintain 500 psi moldboard down force	<input checked="" type="checkbox"/>		
i.	Manufacturer's pressure relief valve shall be omitted from installation and relief controlled through hydraulic valving from hydraulic vendor	<input checked="" type="checkbox"/>		
6. Manuals, as applicable				
a.	Two operator's manuals	<input checked="" type="checkbox"/>		
b.	Two lubrication schedules	<input checked="" type="checkbox"/>		
c.	Two parts books	<input checked="" type="checkbox"/>		
d.	Two Technical Repair Manual	<input checked="" type="checkbox"/>		
7. Paint				
	Moldboard, mounting brackets, push tube, and other hardware to be powder coated and painted black	<input checked="" type="checkbox"/>		
8. Warranty				
	One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<input checked="" type="checkbox"/>		

The underbody scraper shall be delivered mounted on the truck for immediate use. The underbody scraper shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Fall MODEL: IDR - 11 A
 PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Equipment TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
 3804 Hwy 75 N
 Moorhead, Mn 56560

BIDDER: _____

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR**

REAR MOUNT SNOW WING, 10'

(FALLS SDL-10, MONROE 10-DFWMB/ND, HENDERSON HWS-10, OR PRE-APPROVED EQUAL)

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a 10' rear mounted patrol snow wing to be furnished and installed on a 58,000 GVW tandem axle truck. The wing will be installed on the same chassis with an underbody scraper. The wing shall work in combination with the 11' underbody scraper and receive material from the underbody and discharge the material without leaving a ridge between the wing and underbody. The wing shall be of all steel fabrication, of rugged construction, and properly braced and reinforced. The wing shall be standard production of the latest model with standard accessories and in addition meet or exceed the following minimum specifications.

Installation: The snow wing shall be installed according to the manufacturer's instructions and to the acceptance of the NDDOT. The wing post shall be installed in front of the tandem axles under the truck box and shall not be out beside the box. The rear push tube brace assembly shall be installed behind the rear axles on 6" of after frame behind the spring assembly. **The rear push tube brace shall be installed directly to trucks rear hitch plate using manufacturers approved bracketry.** Steel plates that extend down from the truck frame that hold the rear push tube brace are not acceptable. All connections to the truck frame shall be bolted connections using grade 8 frame bolts, meeting SAE J-429 specifications. The wing brace tube shall be capable of being removed without having to disconnect from frame or removing hitch. The disconnect point shall be on the wing side and shall be bolt together plates at this disconnect point, welded to the cross tube and shall be bolted together with a minimum of four 3/4" G8 bolts. For sample see photo. The final design shall be approved by the NDDOT Maintenance & Engineering Services Division, Shawn Hauck, (701) 328-2565

The wing shall be installed to allow the moldboard toe to fully float taking account for truck sag due to loading. The moldboard toe shall not apply any down pressure. The hydraulic hoses shall have swivel couplers and 37° JIC fittings where applicable and be quick coupled. The couplers shall be located up as high as possible to limit their contact with road material. A fluorescent orange tubular plow marker shall be attached to the top of the wing moldboard heel to delineate the outside edge of the wing. The tubular marker shall have a weep hole drilled into the base of the marker to allow moisture to seep out. The wing LED warning light mounting location shall be approved by the NDDOT and shall be wired to the same in cab control switch as the amber body warning lights. Any questions and weekly updates shall be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck @ 701-328-2565.

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
1.	Stored/folded-up clearance			
a.	Front 13"	<input checked="" type="checkbox"/>		
b.	Rear 90"	<input checked="" type="checkbox"/>		
2.	Lift			
a.	Cab-controlled hydraulic lift cylinder	<input checked="" type="checkbox"/>		
i.	Cylinder rods to be nitrated rods	<input checked="" type="checkbox"/>		
b.	All hydraulic front post slide mechanism (Note: tube in tube type slide with cable is not acceptable)	<input checked="" type="checkbox"/>		

REAR MOUNT SNOW WING, 10'

SSP-95-4200-23

		COMPLY		SPECIFICATION
		YES	NO	DEVIATIONS
c.	Heel lift	X		
d.	Floatation both heel and toe	X		
e.	Wing Loc or equal outboard lift cylinder hydraulic locking device	X		
3.	Moldboard			
a.	50,000 PSI 10-gauge EX-TEN 50 (MILD STEEL NOT ACCEPTABLE)	X		
b.	Overall moldboard length 10'	X		
c.	100% continuously welded	X		
d.	3/4" thick frog	X		
e.	Frog to be square hole punched and spaced according to AASHTO standards to accept two 3' (one on each end) and one 4' (in the center) tungsten carbide cutting edges secured with 5/8" bolts, there shall be sufficient holes in the frog so all of the holes in the cutting edge can be used (cutting edges furnished by NDDOT)	X		
f.	Full length top and bottom supports	X		
g.	Height at front 29"	X		
h.	Height at rear 29"	X		
i.	Spring-cushioned push tube with shear pin	X		
j.	Push tube pin location, pinned 18" from outside end maximum	X		
k.	Weight of moldboard minimum 600 lbs maximum 1550 lbs	X		
l.	28" high fluorescent orange tubular plow marker kit, Buyers or Catco model 1308105 or equal	X		
m.	Wing lift eye/pick point, 2 each mounted so that the wing can be lifted evenly when being removed	X		
4.	Mount			
a.	Right or Left side, rear mount to be flange mounted for easy removal	X		
b.	Front post assembly positioned in front of the rear axles with adequate pipe bracing positioned to stabilize the post from forward-backward and side to side motion, two pipe braces minimum	X		
c.	Front post cross brace to both frame rails shall allow clearance for the drive shaft	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

REAR MOUNT SNOW WING, 10'

SSP-95-4200-23

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
d.	If applicable, The pivot shaft top plate(s) shall be 100% welded top and bottom	X		
e.	The ears on the rear push tube brace that the push tube pins to shall be in line with the push tube (Note: ears at 90" to the truck frame are not acceptable)	X		
f.	The rear of the push tube shall be attached to the rear push tube brace with a 1/2" grade 2 bolt that will act as the shear point for the wing. The rear push tube brace shall allow the push tube to fall away if bolt shears	X		
g.	Heavy duty 3 1/2" O.D. 1/4" wall thickness outer pipe, 2 1/2" O.D. 1/4" wall thickness inner pipe rear push tube with bracing mounted behind rear axles	X		
	i. The push tube shall have a 3/8" weep hole drilled at the top and bottom of both ends of the tube to allow moisture to escape	X		
	ii. The push tube spring shall have a minimum of 4 braces	X		
	iii. Push tube length adjustment to be secured with bolt and lock nut. Hitch pin with hair pin not acceptable.	X		
h.	Adjustable heavy duty push tube as close as possible to 90" angle to the moldboard not to exceed maximum 18" from the outside end of the moldboard	X		
i.	Close-in transport position 24" maximum to outside of wing, push tube shall rest against a T-brace type stop with a rubber cushion bumper when wing is in transport position	X		
j.	T-brace type stop shall be located below the bottom of the box height so not to strike the box or interfere with the box operation	X		
k.	Wing drift safety chain mounted to T-brace stop, fixed at the cab (front) end and loose at the box (back) end	X		
l.	Wing drift chain mounted to front post with a fixed and loose end	X		
5.	Weight of complete assembly, minimum 1,600 lbs maximum 2,200 lbs	X		
6.	Wing plow warning light, Whelen TIR3 Super LED, WPLOW1A			
	a. Shall be wired to the truck rear amber warning light switch	X		
	b. Wiring on the wing shall be routed through conduit or in an acceptable manner to protect wire from being damaged, if the wiring can be routed through existing moldboard supports, it shall be secured in an acceptable manner using Waytek button head ties part no. 21087, or equal. Any holes that the wiring runs through must be grommited	X		
	c. Wing warning light shall have a weatherproof connection and be capable of being unplugged at the front wing post	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

REAR MOUNT SNOW WING, 10'

SSP-95-4200-23

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
7.	Reflective tape shall be placed on the top of the toe cylinder (Note: see picture for location)	<u>X</u>	_____	_____
8.	Manuals, as applicable			
a.	Two operator's manuals	<u>X</u>	_____	_____
b.	Two lubrication schedules	<u>X</u>	_____	_____
c.	Two parts books	<u>X</u>	_____	_____
d.	Two Technical Repair Manual	<u>X</u>	_____	_____
9.	Paint			
	Moldboard to be powder coated and painted orange. Mounting brackets, push tube, and other hardware to be powder coated and painted black	<u>X</u>	_____	_____
10.	Warranty			
	One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<u>X</u>	_____	_____

The snow wing shall be delivered mounted on the truck and ready for immediate use. The snow wing shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Falls MODEL: SOL-10
 PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Equip. TELEPHONE: 800-232-3787

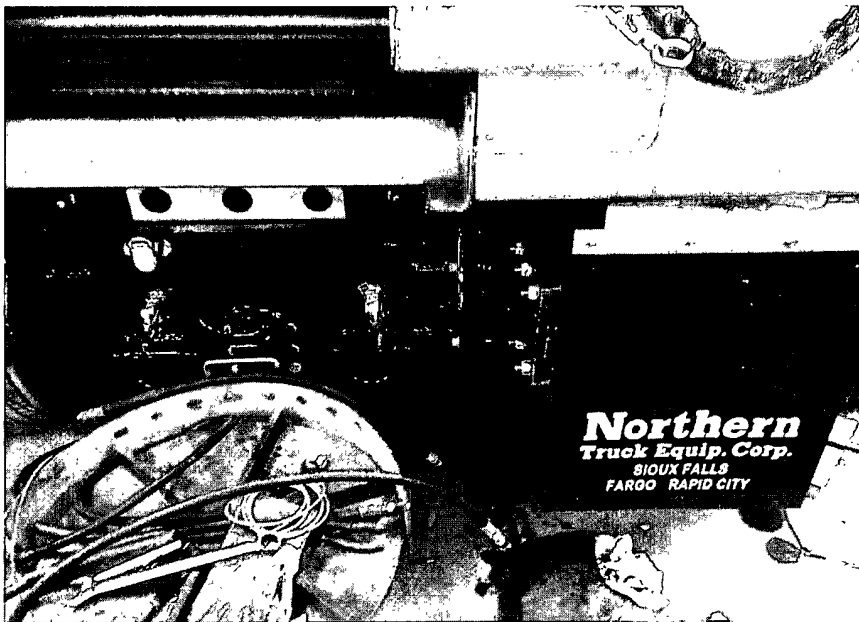
**Bert's Truck Equip. of Mhd
 3804 Hwy 75 N
 Moorhead, Mn 56580**

BIDDER: _____

REAR MOUNT SNOW WING, 10'

SSP-95-4200-23

These are sample images for informational purposes only, actual products are to be approved by the NDDOT, Maintenance & Engineering Division



Example of rear wing brace tube and disconnect flange



Example of reflective tape on wing toe cylinder

**Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56580**

BIDDER: _____

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL
DIRECT DRIVE, SINGLE AUGER, SINGLE SPINNER
(MONROE MS9, SWENSON SB9, HENDERSON TGS9-ND, OR PRE-APPROVED EQUAL)

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a #304 stainless steel tailgate spreader to be furnished and installed. The tailgate spreader shall mount on the rear of a truck dump box below the regular tailgate in a manner to allow use of the dump body with the spreader attached. The tailgate spreader shall be standard production of the latest model with standard accessories and in addition meet or exceed the following minimum specifications:

Installation: The tailgate spreader shall be installed according to the manufacturer's instruction and to the acceptance/approval of the NDDOT, Maintenance & Engineering Office. The hydraulic hoses shall be routed under the tailgate area and down along the spinner hanger bracket and secured allowing full operation of the cover plate, clean out door, and spinner without needing to disconnect hoses. All hydraulic hoses shall be quick coupled, including the return lines. The spinner hoses shall be run independent of the auger hoses up to the truck to allow for easy removal. The spinner return must be quick coupled using a ½" coupler. The auger return must be quick coupled using a ¾" coupler. All hardware mounted to the spreader shall be stainless steel or other non-corrosive material and approved by the NDDOT. The spreader shall be calibrated to apply 0 - 3,000 pounds/mile by use of the in cab ground speed spreader control. Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck phone: (701)328-2565.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
1. Auger			
a. Single auger	X		
b. 9" diameter	X		
c. 1½" shaft	X		
d. ¾" flight thickness	X		
e. Greaseable, sealed, self-aligning bearings	X		
i. Four bolt flange	X		
f. Direct drive	X		
i. Low speed, high torque hydraulic motor directly coupled to auger	X		
ii. Non-corrosive bushing for auger attachment	X		

SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL

SSP-95-2400-4

COMPLY
YES NO

SPECIFICATION
DEVIATIONS

- iii. Integral feedback sensor/speed sensor capable of 100 pulses per revolution. The sensor shall be mounted internally in the motor housing and have a rigid 4-pin connector mounted externally on the housing. This sensor shall be compatible with the DOT closed loop system Force America 6100 controller

X

2. Spreader Trough

- a. 7 gauge #304 stainless steel body
- b. 7 gauge #304 stainless steel cover plate
- c. 1/4" #304 stainless steel end plates
- d. Full-width, hinged-bottom, clean-out panel
- e. Lock--unlock latches without use of tools
- f. Easy remove anti-flow shields
- g. Hopper to accommodate 84" inside box width
- h. Overall length 102" maximum

X

X

X

X

X

X

X

X

- i. Side shields shall be 1/4" stainless steel. The side shields shall serve both as a material spill shield as well as a tailgate prop. The side shield shall be attached and removed without the need for tools or special equipment. The top pin shall be welded to the truck box and the shield shall slide onto the pin and be clipped on. **Provisions must be made to keep the side shields rigid to the tailgate without movement.** The side shield design shall be approved by the NDDOT. See photo for example.

X

3. Spinner Assembly

- a. All metal components shall be #304 stainless steel, **NO EXCEPTIONS**
- b. Mounted independent of clean-out panel
- c. Mounted on opposite side of wing
- d. 18" spinner
 - i. Molded one-piece polyurethane as manufactured by C.U.E. #P0652, Thombert #1001357, or approved equal
 - ii. Bolt on hub
 - iii. 1/2" thick disc
 - iv. 1" high vanes

X

X

X

X

X

X

X

X

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL

SSP-95-2400-4

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
	v. Direct mount to motor	X		
	e. Motor mounted under spinner	X		
	f. Adjustable spread patterns--right, left, and center--one, two, or three lanes	X		
	g. Self-leveling	X		
	h. 10 gauge #304 stainless steel guards and deflectors	X		
	i. Spinner shield to keep material off truck undercarriage	X		
	j. Removable assembly	X		
4.	Hydraulic components	X		
	a. All hydraulic hoses, connections, and quick couplers, 1/2" pressure and 3/4" return line for auger and all 1/2" for spinner	X		
	i. Hydraulic hoses routed as stated above in the installation instructions	X		
	ii. All hydraulic hoses shall have a tethered cap or plug to prevent any contamination	X		
	iii. Quick coupled to truck hydraulics	X		
	iv. Spinner pressure and return hydraulic hose must be Independently routed and attached to the truck box to allow for easy removal of spinner (location of couplers to be approved on first truck)	X		
	b. Low speed, high torque hydraulic auger motor	X		
	c. Low speed, high torque hydraulic spinner motor	X		
5.	Mounting	X		
	a. Quick disconnect mounting pins. Pins must be supported on inside of body corner and welded on exterior to prevent from pulling off body	X		
	b. Mounting hardware, shall be non-corrosive or stainless steel	X		
	c. Convenient chain lifting slots	X		
6.	Manuals, as applicable			
	a. Two operator's manuals	X		
	b. Two lubrication schedules	X		
	c. Two parts books	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL

SSP-95-2400-4

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
d.	Two Technical Repair Manual	<u>X</u>		
7.	Standards			
	Unit shall meet OSHA standards	<u>X</u>		
8.	Warranty			
	One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<u>X</u>		

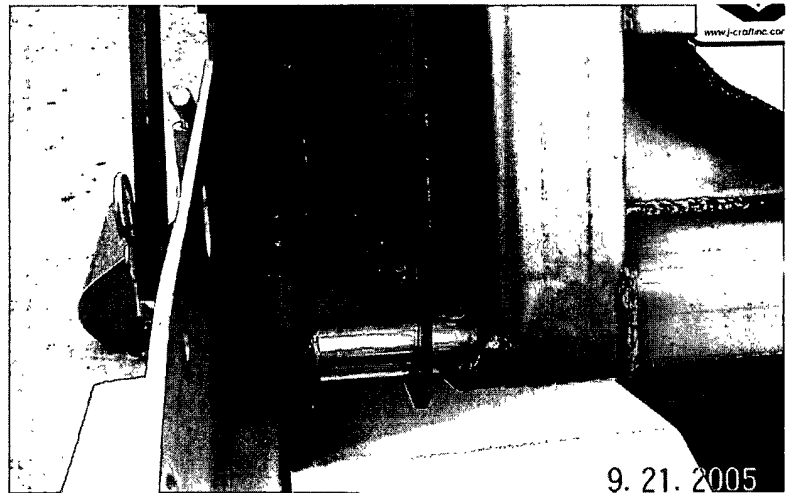
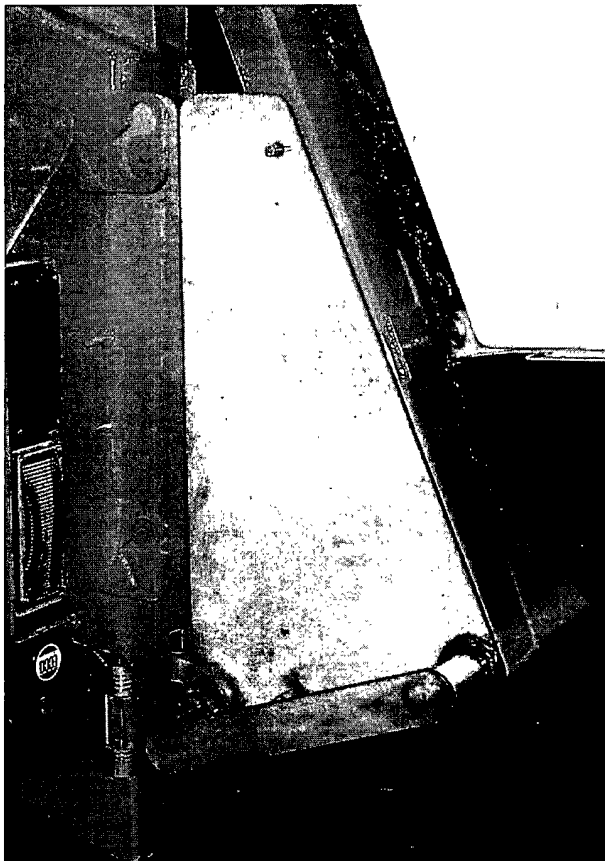
The tailgate spreader shall be delivered mounted on a truck dump box. The tailgate spreader shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Swenson MODEL: SBO-9-SS

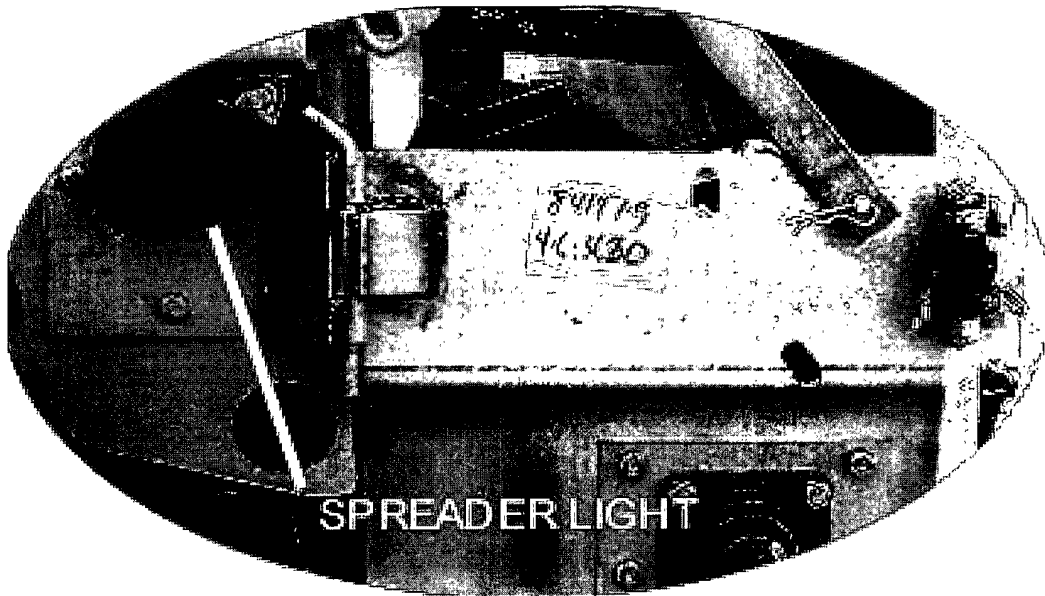
PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Equip. TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
3804 Hwy 75 N.
Moorhead, Mn 56560

BIDDER: _____



These are sample images for informational purposes only, actual products are to be approved by the NDDOT, Maintenance & Engineering Division



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
LIQUID PRE-WET SYSTEM, RADIUS DUMP FENDER MOUNT, GRAVITY FLOW
(FORCE VB-150-GF-PFD, MONROE VERSA-COAT, OR PRE-APPROVED EQUAL)**

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a gravity flow liquid pre-wet system for the application of de-icing solution directly onto the material being spread by the spreader. The pre-wet system shall be compatible with a variety of de-icing solutions including sodium chloride, calcium chloride, magnesium chloride, potassium acetate, CMA, and Ice Ban. The pre-wet system shall be capable of being mounted on a single axle or tandem axle truck. The tanks shall fit over a rigid **body mounted fender**. The fender shall have no raised edges to trap material and openings in the front and rear inboard corners to allow accumulated material to escape. The tanks may rest on skids that hold the tanks 1" above the fender to clean around the tank and fender, or rest directly on top of rubber mat on top of fender. Either option shall provide space on all sides, except bottom, of tank to allow debris to fall or be washed away. The pre-wet system shall come complete with all the hardware that is required to apply liquid de-icing solution to granular material at the spreader spinner. The pre-wet system shall be standard production of the latest model with standard accessories and in addition meet the following minimum specifications:

Installation: The pre-wet system shall be installed according to the manufacturer's instruction and to the acceptance/approval of the NDDOT. A 1" schedule 80 stainless steel threaded pipe nipple or equal non-corrosive fitting shall be properly attached to the spreader spinner assembly. A 1" poly 90" elbow shall be threaded into the pipe nipple. A 1" Banjo quick coupler with cover caps shall be plumbed in line to quick disconnect the poly braid hose from the spreader spinner assembly. The tanks shall be positioned for easy access to the fill ports.

The system shall be calibrated to apply 3 gallons per minute by means of in-line ball valve with ½ " supply hose with filled tanks for head pressure. All electrical and plumbing connections shall be secured so they will not fail with heavy snow and ice build up on them. There shall be an additional ball valve installed between the two tanks so that they can be filled equally. This ball valve shall be installed on the fill side of the truck between the fill port and tank. See photo. **The vendor must use flanged fittings with SS clamps wherever possible for all plumbing rather than threaded fittings.** Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck phone: (701)328-2565.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
1. Liquid Reservoir			
a. 2 - polyethylene rotationally molded or equal tanks, one for each side of the spreader body	X		
b. Tank capacity drivers side – 200 gallon minimum, or similar approved size	X		250 + Exceeds spec.
c. Tank capacity passenger (wing) side – 200 gallon minimum or similar approved size	X		250 + Exceeds spec.
d. Trapezoidal, triangular type shape that fills the void created by the bottom of the spreader body	X		
e. UV stabilized	X		
f. ⅜" wall thickness or design liquid rating of 14.5 lbs per gallon	X		

LIQUID PRE-WET SYSTEM, RADIUS DUMP FENDER MOUNT, GRAVITY FLOW

SSP-95-5700-4

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
g.	Anti-slosh baffle built into top of tank at the opening(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h.	fill port with spin on lids and rubber gaskets, or threaded steel cap	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i.	Spin on lids, if applicable , shall be tethered to prevent being separated from tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j.	1¼" minimum , bottom quick fill port	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
k.	1" suction port (Note: if the 1¼" port is used for discharge, the port must be necked down to 1")	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l.	1" vent at top of tank, or largest available from manufacturer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	i. Tank Vent and lid to be located on forward of LH and RH tanks to prevent spillage when body is raised	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.	Hardware	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	All parts in contact with the de-icing solution shall be of non corrosive material	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b.	Three #304 stainless steel mounting brackets per tank without a cradle that are lined with rubber or equal belting material to prevent tank wear due to vibration (preferred) OR two 3" and 15,000 lb web breakage rating UV stabilized nylon straps per tank secured to the fender with 1,000 lb rated and 3,000 lb breakage triangle eye with bolted connections and lock nuts to the fender. #304 stainless steel skids may be mounted under tanks to insure the tanks are mounted 1" above the fixed stainless steel fender with no raised edges. Tanks may rest on full coverage rubber mat and lye directly on fender as long as there are no raised areas to collect water and debris and space exists between body side and tank sides to prevent wear on tanks and allow debris to be flushed away clean all around tank.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c.	The tanks shall not stick out beyond the side of the steel fender. The fender shall be sturdy enough to serve as a bump rail from small impacts from a loader tractor or pay loader.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d.	Tanks shall be plumbed to fill and dispense together	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e.	1½" plumbing and 2" male cam lock fitting with female cover cap for quick bottom fill plumbed opposite side of the wing. Adequate reinforcement shall be made to support the fill side plumbing from falling when connected to the supply line. Stainless steel or other non-corrosive hardware shall be used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f.	Glass reinforced polyethylene fittings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g.	Clear 1" polyester braid reinforced plastic discharge hose for cold weather use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h.	Remote control electric ball valve, 1" full port flanged fittings with ss clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560**

BIDDER: _____

LIQUID PRE-WET SYSTEM, RADIUS DUMP FENDER MOUNT, GRAVITY FLOW

SSP-95-5700-4

	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
i. Spray Systems Co. model 344BEC-24-C (NO EXCEPTIONS)	<u>X</u>	<u> </u>	<u> </u>
ii. 1" flanged connections w/ss clamps	<u>X</u>	<u> </u>	<u> </u>
iii. Single pole double throw switch (3 wire)	<u>X</u>	<u> </u>	<u> </u>
iv. Wetted parts of nylon, teflon, polypropylene, or viton	<u>X</u>	<u> </u>	<u> </u>
v. Tank low level sensor	<u>X</u>	<u> </u>	<u> </u>
vi. Cab control switch and indicator light provided in spreader control or switch bank	<u>X</u>	<u> </u>	<u> </u>
i. 3-1½" standard ball valve with flanged fittings	<u>X</u>	<u> </u>	<u> </u>
i. Polypropylene	<u>X</u>	<u> </u>	<u> </u>
j. 1" standard ball valve with flanged fittings	<u>X</u>	<u> </u>	<u> </u>
i. Polypropylene	<u>X</u>	<u> </u>	<u> </u>
k. 1" schedule 80 mild steel threaded pipe nipple or equal non- corrosive fitting	<u>X</u>	<u> </u>	<u> </u>
l. 1" poly 90° elbow	<u>X</u>	<u> </u>	<u> </u>
m. 1" Banjo or equal quick coupler with cover caps	<u>X</u>	<u> </u>	<u> </u>
3. Manuals, as applicable			
a. Two operator's manuals	<u>X</u>	<u> </u>	<u> </u>
b. Two parts books	<u>X</u>	<u> </u>	<u> </u>
4. Warranty			
One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<u>X</u>	<u> </u>	<u> </u>

The pre-wet system shall be delivered mounted onto the truck chassis rear fenders. The pre-wet system shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Bonnell Pre-wet MODEL: Commander 500 PW

PARTS/SERVICE/WARRANTY DEALER: Bert's Truck Equip. TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

The following are sample images for informational purposes only, actual products are to be approved by the NDDOT, Maintenance & Engineering Division

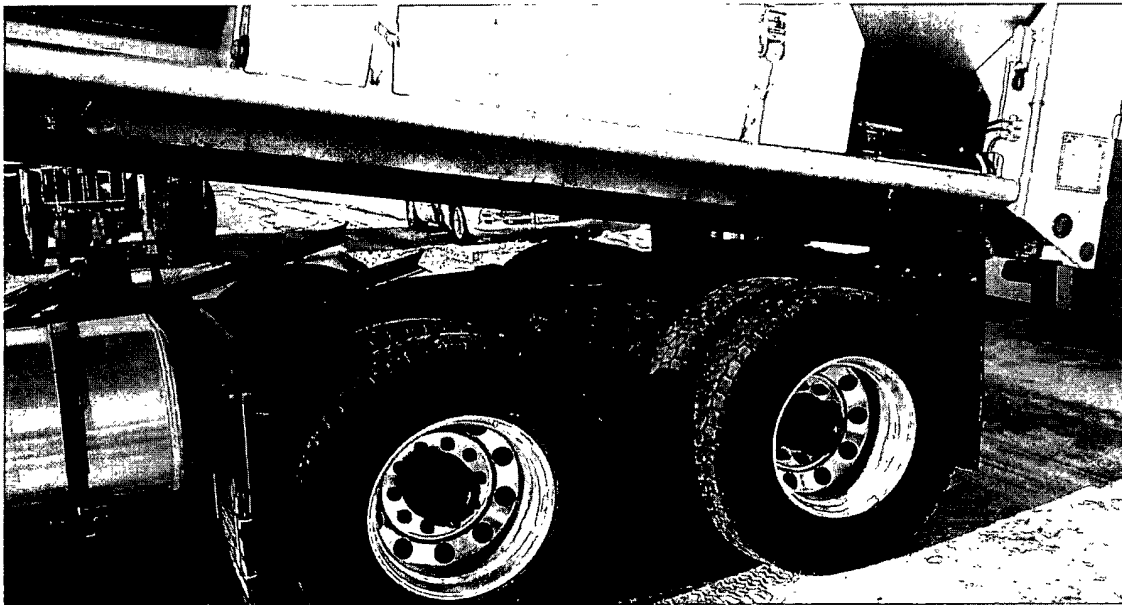
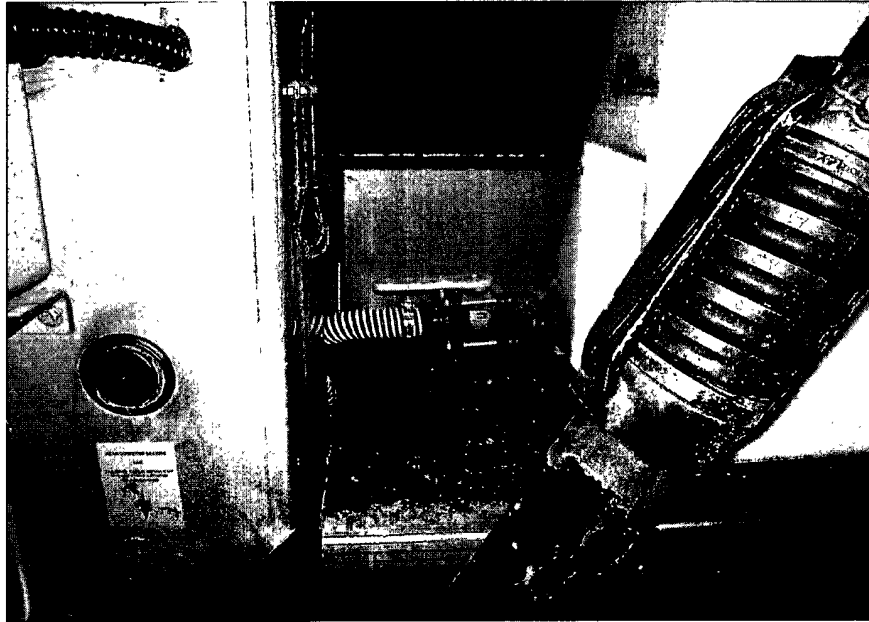


Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

LIQUID PRE-WET SYSTEM, RADIUS DUMP FENDER MOUNT, GRAVITY FLOW

SSP-95-5700-4



Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
LIQUID PRE-WET SYSTEM, TAILGATE MOUNT, GRAVITY FLOW
(FORCE TG-150-EGF, MONROE TAILGATE, SWENSON LSSF-T, OR PRE-APPROVED EQUAL)**

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a gravity flow liquid pre-wet system to be furnished and installed for the application of de-icing solution directly onto the material being spread by the tailgate spreader. The pre-wet system shall be compatible with a variety of de-icing solutions including sodium chloride, calcium chloride, magnesium chloride, potassium acetate, CMA, and Ice Ban. The liquid reservoir tank shall be mounted on the tailgate of a tandem axle truck dump box and be sized as specified. The pre-wet system shall come complete with all the hardware that is required to apply liquid de-icing solution to granular material at the spreader trough at the discharge side. The pre-wet system shall be standard production of the latest model with standard accessories and in addition meet **or exceed** the following minimum specifications:

Installation: The pre-wet system shall be installed according to the manufacturer's instruction and to the acceptance of the NDDOT. The hose dispensing the liquid shall be routed not to interfere with the spreader operation and supported to maintain liquid application to the spreader trough at the discharge side. A ¾" stainless steel threaded pipe nipple or equal non corrosive fitting shall be properly attached to the spreader discharge end side plate. A ¾" poly 90° elbow shall be threaded into the pipe nipple. A ¾" Banjo quick coupler with cover caps shall be plumbed in line to quick disconnect the poly braid hose from the spreader. The tank shall be mounted to overhang the truck tailgate and positioned for easy access to the fill ports. The tank shall be mounted as low as possible on the tailgate and high enough not to interfere with the operation of the spreader cover plate. The mounting structure shall be a rigid connection to the tailgate, fixed not to fall off, and extend a minimum of 70" wide across the back of the tailgate to distribute the load along the entire tailgate. The tank's mounting structure shall not require the use of tools to remove from the tailgate. The bottom of the mounting structure shall be fastened by a pin type clip and not bolted into the tailgate. The tailgate shall be reinforced where the mounting structure meets the tailgate. The mounting of the tailgate prewet mounting structure shall be approved by the NDDOT, Maintenance and Engineering Office. The system shall be calibrated to apply 3 gallons per minute with a ½ discharge hose with filled tank for head pressure. All electrical and plumbing connections shall be secured so they will not fail with heavy snow and ice build up on them. The wiring for the electric ball valve shall be long enough to extend to the side of the truck box for connection to the power lead. The switch and wiring must allow for the ball valve to be activated by both the individual brine switch and also through the sander standby button on the Force 5100 controller. **The vendor must use flanged fittings with SS clamps wherever possible for all plumbing rather than threaded fittings.** Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck phone: (701)328-2565.

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
1.	Liquid Reservoir			
a.	Polyethylene rotationally molded or fiberglass tank	X		
b.	Trapezoidal, rectangular, or "D" shaped (oval or cylindrical is not acceptable)	X		
c.	Tank capacity - minimum 135 gallon, maximum 150 gallon	X		
d.	UV stabilized	X		
e.	3/8" wall thickness or design liquid rating of 14.5 lbs per gallon	X		

LIQUID PRE-WET SYSTEM, TAILGATE MOUNT, 150 GAL, GRAVITY FLOW

SSP-95-5700-10

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
f.	Rectangular or "D" shaped tanks shall be horizontal mount	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g.	Anti-slosh baffle built into top of tank at the opening(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h.	3" fill port with spin on lid and rubber gaskets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i.	Spin on lids shall be tethered to prevent being separated from tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j.	1¼" bottom quick fill port located on both sides of the tank for right or left side fill, ports should be molded into the tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bulkhead Fittings Exceeds spec.
k.	1" suction port located on both sides of the tank for right or left side discharge (Note: if the 1¼" port is used for discharge, the port must be necked down to 1")	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l.	1" vent at top of tank, or largest available from manufacturer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
m.	Maximum 84" wide	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.	Hardware			
a.	All parts in contact with the de-icing solution shall be of non corrosive material	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b.	#304 stainless steel cradle to support the full weight of the tank with two #304 stainless steel mounting brackets without a cradle that are lined with rubber or equal belting material to prevent tank wear due to vibration (preferred) OR two 3" and 15,000 lb web breakage rating UV stabilized nylon straps secured to the cradle with 1,000 lb rated and 3,000 lb breakage triangle eye bolted connections with lock nuts to the cradle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c.	1½" plumbing and 2" male cam lock fitting with female cover cap for quick bottom fill with flanged fittings and ss clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d.	Glass reinforced polypropylene fittings with flanged fittings and ss clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e.	Clear 1" polyester braid reinforced plastic discharge hose for cold weather use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f.	Remote control electric ball valve, 1" full port	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i.	Spray Systems Co. model 344BEC-24-C (NO EXCEPTIONS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ii.	1" flanged connections and ss clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iii.	Single pole double throw switch (3 wire)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iv.	Wetted parts of nylon, teflon, polypropylene, or viton	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
v.	Tank low level sensor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Bert's Truck Equip. of Mhd
3804 Hwy 75 N.
Moorhead, Mn 56560

BIDDER: _____

LIQUID PRE-WET SYSTEM, TAILGATE MOUNT, 150 GAL, GRAVITY FLOW

SSP-95-5700-10

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
vi.	Cab control switch and indicator light provided in spreader control or switch bank	<u>X</u>		
vii.	Wiring from control valve shall be long enough to reach the side of the truck box for connection	<u>X</u>		
g.	1½" standard ball valve with flanged fittings	<u>X</u>		
i.	Polypropylene	<u>X</u>		
h.	1" standard ball valve with flanged fittings	<u>X</u>		
i.	Polypropylene	<u>X</u>		
i.	1" stainless steel threaded pipe nipple or equal non corrosive fitting	<u>X</u>		
j.	1" poly 90" elbow	<u>X</u>		
k.	1" Banjo or equal quick coupler with cover caps	<u>X</u>		
3.	Manuals, as applicable			
a.	Two operator's manuals	<u>X</u>		
b.	Two parts books	<u>X</u>		
4.	Warranty			
	One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<u>X</u>		

The pre-wet system shall be delivered mounted onto the truck tailgate. The pre-wet system shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Varitech (Forac) MODEL: LDS-TG150 EGF1N0
 PARTS/SERVICE/WARRANTY DEALER: Bert's Truck Equipment TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
 3804 Hwy 75 N
 Moorhead, Mn 56560

BIDDER: _____

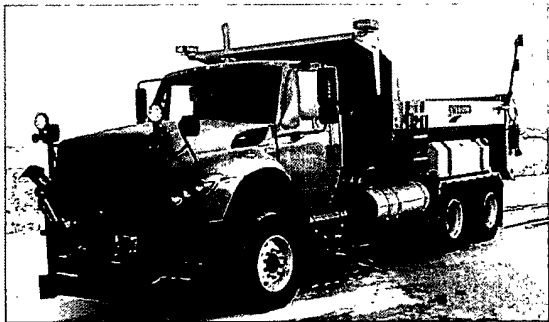
Bert's

TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

Past Experience and Future Guarantee

Bert's Truck Equipment has unprecedented experience and knowledge when it comes to building "turnkey" plow trucks. In just the last 17 years we have built over 450 plow trucks for municipalities, counties and state agencies, including over 120 units over the last fifteen years for the North Dakota Department of Transportation.



Our past history with the Department of Transportation speaks for itself. In the past, we have consistently produced quality units of all types and delivered them on time. Additionally, we have a deep commitment to customer satisfaction ensuring the products installed meet the specifications and perform as expected.

Our highly experienced technicians know the importance of performing high quality installations and delivering trucks ready to work. We take pride in our products and more importantly pride in our workmanship and customer service.

As our past projects proved, we have always taken the necessary steps and procedures to ensure that the final products that are delivered meet not only the ND DOT standards but also our standards. Our quality is exemplified time and time again in our workmanship and it shows in the final products we deliver.

Bert's Truck Equipment has assembled a team of professionals who take great pride in their work and have the best possible knowledge in the industry when it comes to building plow trucks. It is what they do, and they do it to the highest standard each and every time.

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

Bert's Truck Equipment realizes that besides selling quality products, excellent product support and parts availability is crucial to our customers.

On average we stock over one million dollars of parts inventory and supplies. Because of our close proximity to our major suppliers, we are able to supply non-stocked parts in a timely manner, usually in one to two business days. Parts such as hydraulic cylinders, conveyor chains, spinner assemblies and other items that may be needed on short notice will also be supplied in a timely manner, usually in one to five business days.

In addition and specifically for the ND DOT, we will would constantly review and work with the ND DOT to make sure the parts you need are available in a timely manner. By doing this, almost any parts needed would be available in one to two days and in many cases the same day.

In addition we realize that excellent communication is important. We will make routine visits to the ND DOT facilities in Fargo and Bismarck, and a minimum of two visits a year to each of the other districts. Also, the representatives from the manufactures represented in this proposal will periodically make visits to ensure any issues that may occur are handled in a timely manner.

Parts and Service Locations

Bert's Truck Equipment, Inc

3804 Hwy. 75 North
Moorhead, MN 56560
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax

Parts Department

Dan Bentley, Parts Manager and Purchasing Coordinator
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
Email: danb@bertsonline.com

Key Contacts:

Service Department:

Jeremy Gregoire, Vice President and Operations Manager
Barry Berg, Shop Forman and Body Shop Manager
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
Email: jeremy@bertsonline.com

Sales Department

Jim McLaughlin, Commercial, Fleet and Government, Sales
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
701-361-1847 (Jim's Mobile Number)
Email: jimmc@bertsonline.com

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Bonnell parts availability.

May 18th, 2015

Reference: State of North Dakota contract. (Bert's Truck Equipment)

Bonnell Ind. Inc. manufacture snow and ice control equipment here in Dixon Illinois. The Commander MCR-14 is a current production body. All the components used to manufacture this body – are current model design and in production. Many of the components used to manufacture the Commander Body – are available from several sources. As for Bonnell Performance - we stock parts here in Dixon Illinois and are capable of direct shipping parts where needed. Bonnell currently has over 2.8 million dollars of inventory. If notified before 2:00PM Bonnell can Next day ship stock parts – that same day.

Bonnell Service and Parts Dept.

A handwritten signature in cursive script, appearing to read 'Joe Bonnell', is written below the text 'Bonnell Service and Parts Dept.'.



TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

The Bert's Truck Equipment Team!

Jeremy Gregoire



President and Operations Manager: 21 years truck equipment experience. Jeremy serves as President and Operations Manager for the past 13 years. His duties include overseeing daily operations and coordinating all contract projects.

Barry Berg



Shop Forman: 22 years body shop and general shop experience management and plow truck design and installation. Barry works hands on with his technicians and works closely with the end user to make sure that specifications and installations are correct and are the highest quality of products and installation.

Andy Anderson:



Installation Technician: 16 years truck equipment experience. Andy specializes in Pre-wet system installation as well as electrical and hydraulic installation and plumbing of snowplow truck equipment.

Pat Hiller:



Installation Technician: 9 years truck equipment experience. Pat specializes in custom steel, aluminum and stainless steel fabrications and equipment installation

Jesse Stowers:



Painter and Installation Technician: 17 years truck equipment experience. Jesse specializes in paint preparation and finish painting. He also assists with wiring and final detail.

Dan Paquin:



Installation Technician: 24 years truck equipment experience. Dan specializes in custom fabrication, Hydraulics and equipment installation.

Jim McLaughlin



Commercial, Fleet and Government Sales: 25 years truck equipment sales experience. Jim handles commercial, fleet and government Sales for Bert's and works with our suppliers and manufactures to ensure the specifications are correct and prepares the necessary RFP's and bid documents.

Dan Bently:



Parts Department Manager/Purchasing: 21 years parts and Hydraulic components Sales experience. Dan orders all necessary parts and equipment and well as processes as well as coordinates all warranty requests.

Jim Owens

Regional Sales manager for Falls Plows

Doug Loyes:

Outside Sales Representative Force America: 28 years hydraulic systems sales and service experience related to snow and ice control: Doug has served as the territorial manager for Forces America for the past six years. Doug specializes in system design and onsite training. Doug also does on site problem analysis and trouble shooting.

Joe Bonnell

President of Bonnell Industries. Bonnell Ind. Inc is a Family owned business. 56 years in Service. Currently in third generation ownership. The current owner, Joe Bonnell purchased Bonnell Ind. Inc. in 2009. Bonnell Ind. is a manufacturer of snow and ice control equipment. Bonnell also does truck equipment installation. Bonnell believes the difference in being successful is listening to the customer and building products that help the customer find value in ownership. Bonnell takes pride in quality and customer service. The company mission statement says it all. "We are committed to manufacturing, distributing, installing and servicing the best and most innovative solutions for our customers in the truck and road equipment industry, constantly striving to improve industry standards and to exceed the customer's expectations." Bonnell Ind. Inc. believes taking the path of quality and integrity is not always the easiest path to take – however Bonnell has always found success in treating people right.

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681

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MOORHEAD, MN 56560

jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

Warranty Policies Summaries'

Major Manufactures Warranty Policies Summaries (See manufacture Warranty statements for complete policies)

Bonnell Industries

Two year Limited warranty on Commander Series Bodies and Pre-wet systems

Mailhot Cylinders

Two year limited warranty on Mailhot Cylinders.

Falls Snow and Ice Control Products

Two year Limited Warranty on Plows, Plow wings, Scrapers, sanders, and hitch assemblies. **This is an Additional One year Warranty for ND DOT Fleet!**

Hydraulic Components-Force America

One year Limited Warranty on Pump, Valve Assemblies, Reservoir, Controls, and miscellaneous components.

Whelen Light Systems

Two year limited Warranty on lighting components. Five year limited warranty on LED Light heads.

Swenson Manufacturing Warranty

One year limited warranty on spreaders

Bert's Truck Equipment Installation and Fabrication

One year limited warranty for fabricated parts and installation procedures performed by Bert's Truck Equipment on material defects or faulty installation

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TRUCK EQUIPMENT

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Warranty Parts & Service Locations

Warranty Parts and Service available at:

Bert's Truck Equipment, Inc

3804 Hwy. 75 North

Moorhead, MN 56560

218-233-8681

800-232-3787 (toll free)

218-233-9548 Fax

Key Contacts:

Service Department:

Jeremy Gregoire, President and Operations Manager

Barry Berg, Plow Shop Forman and Body Shop Manager

218-233-8681

800-232-3787 (toll free)

218-233-9548 Fax

Email: jeremy@bertsonline.com

Parts Department

Dan Bentley, Parts Manager and Purchasing Coordinator

218-233-8681

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218-233-9548 Fax

Email: danb@bertsonline.com

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WARRANTY

Issued: January 1, 1998

Bonnell Industries, Inc. warrants to the original purchaser that if any part of the product proves to be defective in workmanship or material within one year of the date of original installation and is returned to us freight prepaid within 30 days after such defect is discovered and notification thereof is provided Bonnell, we will either replace or repair the defective part (our option). This warranty does not apply to damage resulting from neglect, misuse, accident or improper installation or maintenance. Charges for field service, labor, or other expenses not previously authorized and approved in writing by Bonnell Industries, Inc. will not be accepted. This warranty is exclusive and in lieu of all other warranties whether expressed or implied. Bonnell Industries, Inc. neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with this warranty, and will not be liable for consequential damages. This warranty applies only to products made and/or supplied by Bonnell Industries, Inc. and does not apply to other products not made or supplied by us and to which our products may be attaches, such as trucks. We accept no responsibility for damages to such other products, even if our product is alleged to have contributed to the damage of the other product.

Hydraulic, electrical, or other components furnished by other manufacturers and used with our products are warranted by that manufacturer and not by Bonnell Industries, Inc. the manufacturer's own warranty will apply to these parts. Hydraulic or electrical components are not to be disassembled without the express written permission of Bonnell Industries, Inc.

All defective parts returned from an end user must include the unit model, serial number, date installed, and dealer from whom purchased.

Bonnell Industries, Inc. reserves the right to make changes or improvements to its products without incurring any liability or obligation and without being required to make corresponding changes or improvements to products manufactured or sold prior to those changes or improvements.

The Bonnell Industries, Inc. Warranty Policy is subject to change without notice.



51 WINTHROP ROAD, CHESTER, CT 06412-0684
(860) 526-9504 • FAX: (860) 526-4078 • www.whelen.com

Distributor/OEM Policies

DP14.1W

March 1, 2014 (Revised 02/17/14)

— GENERAL POLICY INFORMATION —

- (1) These policies may be amended or changed without notice. All Whelen Engineering customers acknowledge receipt of these policies and accept their terms and conditions by purchasing products covered in the current Whelen Automotive Catalog and/or Price Lists.
- (2) Prices are subject to change without prior notice. Price in effect at time of shipment will prevail on scheduled orders. Every effort will be made to avoid price revisions prior to void date noted on the Official Price List. Should material cost escalate beyond our control, Whelen Engineering reserves the right to make adjustments deemed necessary.
- (3) Whelen Engineering Company reserves the right to add surcharges to invoices for special taxes that are imposed on Whelen by state governments or other legal entities for our doing business in their jurisdiction. Every effort will be made to provide appropriate notice in advance of the start of such surcharges.
- (4) Any product may be discontinued, or upgraded with design improvements, without notice.
- (5) By the purchase of products from Whelen, customer agrees to abide by and be bound to the terms and conditions stated herein, unless a Whelen corporate officer has otherwise agreed in writing. These terms and conditions are exclusive and shall apply in lieu of all other terms and conditions appearing on the customer's purchase order or other customer documentation. Customer agrees that Whelen's acceptance of customer's order or quotation is limited to and governed exclusively by these terms and conditions. Neither Whelen's commencement of performance nor shipment of products shall be deemed to constitute acceptance of any additional or different terms and conditions proposed by customer. Whelen's failure to object to provisions contained in any order or other document of customer shall not be construed as a waiver by Whelen of Whelen's terms and conditions or an acceptance of any terms and conditions of Customer, which are hereby rejected by Whelen. Customer also agrees to and accepts unsolicited faxes and/or emails from Whelen on promotions, literature, etc.
- (6) Whelen in-house quality assurance program is used in all manufactured products. Customer imposed or requested programs will only be used at Whelen Plants when agreed to by an authorized corporate officer and any quotation will reflect the cost of such a program in the pricing and accepted by the customer.
- (7) Catalog, price list or policy statement possession does not constitute the right to purchase directly from Whelen Engineering Company, Inc. Contact the factory for official account status, customer classification and current discount for all product categories.
- (8) To order, configure and program certain Whelen Products, the customer may be required, at their cost, to update their computer's hardware and/or operating system to the latest version.
- (9) Whelen Trademarks are the property of Whelen Engineering Company, Inc. and may be used only as set forth in the Guidelines for use of Whelen Trademarks available at www.whelen.com.
- (10) Whelen Engineering Company reserves the right to terminate or change status of any current customer at any time without notice. Such accounts may be reinstated at the discretion of the Whelen Authorized Managing Sales Representative for the territory provided that: A) placement of the required stocking order and all other criteria are met, and B) distributorship for the given area is still available.
- (11) Whelen Engineering Company reserves the right to terminate any customer that imports for sale, offers for sale or sells non-Whelen Products that: (A) are either copies of, or replacement parts for, genuine Whelen products, (B) infringe any of the intellectual property rights of Whelen in its products, including without limitation any Whelen patent, trade secret, copyright, trademark or trade dress or, (C) cause confusion or could reasonably lead the marketplace to believe that the source or origin of such products is Whelen or that Whelen has approved, endorsed or authorized such products as replacements for genuine Whelen products.

ORDERING AND PAYMENT POLICIES

- (12) Customers are urged to email or fax orders. Distributors should use either email to autoorder@whelen.com or fax to 1-800-637-8762. OEM customers should either email to oeorder@whelen.com or fax to 1-800-245-6925. Whelen accepts no responsibility for errors concerning verbal orders.
- (13) Duplicating written orders not marked "confirmation" or discrepancies on confirming purchase orders following original telephone orders is not the responsibility of Whelen Engineering Company, Inc. Returns due to discrepancies or duplication are subject to a restocking charge, as noted in Item #28. Email and a toll free order fax-line is provided to assure accuracy of order entry, see item #12.
- (14) An order acknowledgement is faxed or emailed for each order. It is customer's responsibility to carefully check each order for accuracy and notify Whelen immediately of any discrepancies. If no response is received from the customers, said customers will accept the order as entered. This includes, but is not limited to, product, pricing and schedule dates.
- (15) Minimum billing is \$50 Net. Orders of less than \$50 Net will be billed at \$50 Net.
- (16) All prepaid orders (except credit card payments) will receive a 3% cash discount. Correct amount of payment must be received prior to entry and processing of order.
- (17) 3% prompt payment terms are offered and based on written agreement only, contact the factory for details. No other terms offered.
- (18) All discounts apply to orders shipped to one location at a time, covered by one purchase order number.
- (19) Net terms continue to be 30 days. Accounts over 30 days may be charged a finance charge (plus collection fees) on the unpaid balance. Accounts due 45 days will be placed on hold and accounts that reach 60 days will automatically become a cash-in-advance or credit card account. At any time after 60 days, the collection process may begin.
- (20) Orders from accounts with no prior approved line of credit will require cash in advance or an authorized MC/VISA credit card number, see Item #22.
- (21) Returned or uncollectible checks will be subject to a \$50 handling fee. Any further occurrence will necessitate forfeiture of open account terms.
- (22) Mastercard™ and Visa™ payments are encouraged (No C.O.D. offered). The following information is required at the time a credit card order is placed: 1. Exact full name as shown on credit card. 2. Complete account number. 3. Expiration date (month and year). 4. Bank number on card. 5. Security code. 6. Your telephone number and billing address of credit card. Note: We reserve the right to not drop ship credit card orders.
- (23) Whelen is not responsible for the selection of appropriate equipment or product type required for a particular application or service. Whelen will not be liable for any direct, indirect, consequential or incidental loss or damage arising out of the installation, use or inability to use the product selected.
- (24) Consolidation of orders cannot be accepted. Whelen will ship and invoice products as they become available on each order from the factory at which the products are manufactured, either the New Hampshire or the Connecticut facility.
- (25) Whelen offers a bid specification program for Distributors only, contact your Authorized Managing Sales Representative for details.

MATERIAL RETURN, EXCHANGES AND CANCELLATIONS POLICIES

- (26) Order cancellation must be emailed or faxed, see Item #12, with all pertinent information given. Verbal cancellations are not acceptable. An acknowledgement of the cancellation will be emailed or faxed back. Otherwise standard restocking fee will apply. Restocking charges will apply for items which have already been packaged for delivery.
- (27) Custom designs, special orders, green LED products, GTT OPTICOM™ Emitters, 24 volt models or model/series marked with ++ notation in the Official Price List are non-cancelable and non-returnable.
- (28) Material returned for credit or exchange must be new, unused and in its original packaging and have prior written approval. Contact factory for a return authorization form. Such material will be subject to acceptance inspection upon return, and to a minimum 25% restocking charge (\$30 minimum fee required). Product must be in current production and less than six months old from date of invoice.
- (29) All claims must be filed by the customer within 10 days of receipt of shipment. File claims for damage with the carrier, and claims for shortage with Whelen when applicable.

FREIGHT POLICIES

- (30) Freight is FOB origin freight prepaid from Chester, Connecticut or Charlestown, New Hampshire in the 48 Contiguous States (excludes AK & HI). The choice of freight carrier will be at the sole discretion of the Whelen Engineering Company. For UPS Premium Shipments, full charges will be added to invoice. All other premium shipping methods will be forwarded "freight collect", including drop shipments. Whelen reserves the right to pass along any and all freight surcharges, including, but not limited to, fuel surcharge, delivery (remote/extended), area surcharges, residential delivery surcharge, etc.
- (31) "Prepay and Add" requests for premium truck or air freight routing will include a small additional administrative and handling charge in the freight invoice.
- (32) Shipments out of the United States from customers will accrue a minimum of a \$50.00 processing fee. Customers are urged to contact the factory for a quote prior to entering any orders.

WARRANTY

- (33) A factory direct warranty is offered with all products manufactured by Whelen Engineering Company, Inc. A copy of this warranty policy is available at www.whelen.com/warranty. These official Whelen warranties are in lieu of all other warranties, expressed or implied. Under no circumstances shall Whelen be liable for any consequential damages, special damages, incidental damages, punitive damages or lost profits of any kind, whether incurred directly or indirectly by another party.

— EFFECTIVE 3/1/14, REPLACES ALL PREVIOUSLY PUBLISHED DISTRIBUTOR/OEM POLICIES —

Whelen Model # NDDOTSY1

Part Number	Description	Per Unit
01-0416222-000	KIT, DOT 9/C FLEX TUBING	3
01-0416467-410	KIT, W441D WHELEN 3 PIN CONN	4
01-0416467-420	KIT, W442D WHELEN 3 SCKT CONN	4
01S04164674440	KIT, W444D14 WHELEN 2 PIN 14GA	4
01S04164674460	KIT, W446D14 WHELEN 2 SCT 14GA	4
01-0417354-00Y	KIT, INSTALLATION SUPER-LED	1
01-0418310-00B	KIT, STRAIN RELIEF DOT SYSTEM	2
01-0464073-000	KIT, CABLE INSTALL 5/C "D"	2
01-0664144-A49	ASSY, 400 SERIES LTHD DOT VERT	2
01-0664144-C4B	ASSY, 400 SERIES LTHD DOT VERT	2
01-066E461-R1B	ASSY, LTHD 700 LED B/T/T 12V	2
01-06837187C1C	ASSY, 700 LED FLUSH MT LIGHTHD	2
01S0686900CF2C	ASSY, MICRO FREEDOM DRIVER A/W	1
01S0686900CF3C	ASSY, MICRO FREEDOM PASS A/W	1
01-0686920-00B	ASSY, D.O.T. JUNCTION BOX	1
02-0486900-00C	OPT, SUB 30' CABLE FOR 60'	2
03-0110020-000	CARTON, 1200 AD DIE CUT	1
03-0110048-000	CARTON, #M-12-S1 MASTER	2
04-0113861-00H	INSTRUCTION SHEET	1
07-744043-0010	PLATE, SIDE WINDOW COVER	6
07-763513-023B	PLATE, BACKING 700 LED SERIES	4
07-763870-0000	PLATE, BACKING 400 LINEAR LED	4
11-481648-000E	BRACKET, FACEPLATE SNAPIN LT	8
11-486697-102B	HOUSING, LTHD DOT 700/TIR3	4
11-486698-1SSB	HOUSING, LTHD DOT 700/TIR3	2
13-062C40-16J0	SCREW GROMMET, #6/#8	16
13-130130-0720	NUT, 1/4-20 ELASTIC STOP BRASS	12
14-130116-1600	SCREW, 1/4-20 X 1" PFHMS SS	12
21-11003205-00	GROMMET, BLIND/PLUG 1"	18
39-1H00316-350	PIN, WATERPROOF	24
39-1H00316-370	PIN, WATERPROOF	24
39-1H00326-350	SOCKET, WATERPROOF REEL	24
39-1H00326-370	SOCKET, WATERPROOF	24
39-3L12025-060	HOUSING, 2-3 PIN BUSSED, RECPT	4
46-0642938-000	CABLE, 5/C 18 GA W/ SHIELD TPR	60
46-0643040-00A	CABLE, 2/C 14 GA TPR SHIELDED	240
46-076D170-02A	ASSY, HARNESS 2:4 RED/BLK	4

WHELEN® USER DIRECT WARRANTY (FOR AUTOMOTIVE PRODUCTS ONLY)

Whelen Engineering Company, Inc. warrants products of its manufacture against defects in material and workmanship. This is provided that the product has been installed and operated in accordance with the manufacturer's recommendations. During the warranty period (see below) the Factory Repair Center or an Authorized Whelen Repair Center† will repair or replace (at its option) any parts or electronic assemblies of the unit which disclose a defect in material or workmanship. The Repair Center will return the repaired unit, transportation cost prepaid.

The above warranty is between the first purchaser (ultimate user) only and Whelen Engineering Company, Inc. (manufacturer). **No prior authorization is required for returning Whelen products for warranty consideration.** Each Whelen product sold is covered only by the official warranty in effect at time of purchase.

*This warranty is not applicable to any Whelen product that has failed from damage as a result of incompatible chemicals (including de-icing or road treatment), cleaning products or due to abuse, misuse, improper installation, excessive voltages, or alterations to the product that affects, in the manufacturer's judgment, intended use and service. Whelen will not be held liable for any incidental or consequential damages, and assumes no responsibility or liability for expenses incurred in the removal and/or re-installation of products requiring service and/or repair; nor the packaging, handling, and shipping to the Factory Repair Center or Authorized Whelen Repair Center†; nor for the handling of products returned from the repair center after service or repair.

There are no other warranties, expressed or implied, including, but not limited to, any implied merchantability or fitness for a particular use. Whelen Engineering Company, Inc. reserves the right to modify this warranty statement at any time; or discontinue, modify, or upgrade any products of its manufacture with design improvements without prior notice.

The use of magnetic or vacuum/suction mounted warning lights mounted on the roof or exterior of a vehicle in motion is at the sole discretion and risk of the user. Whelen Engineering makes no warranties or guarantees of equipment used in this way.

All power plugs/cigar plugs, incandescent and halogen bulbs, polycarbonate/plastic materials, radar products, aviation equipment, industrial products and high power voice/siren systems are not covered by this warranty (see applicable warranty statement).

All Non-Whelen manufactured items that are sold by Whelen are covered by that manufacturer's warranty, and are excluded from this warranty statement (such as, GTT Emitters). This warranty will be void when using or substituting other than all-genuine Whelen system components, such as remote head assemblies, xenon flash tubes, shielded cables, strobe power supplies, siren amplifiers and siren speakers. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

WHELEN ENGINEERING COMPANY ELECTRO-MECHANICAL AND STROBE PRODUCTS

STANDARD / 2 YEAR WARRANTY

Whelen products are covered by a direct warranty for up to a maximum two years from date of purchase (not to exceed three years from date of manufacture), with proof of purchase. In accordance with the policy statement described herein, the unit may be returned directly to the factory or to an Authorized Whelen Repair Center† for warranty consideration. Whelen siren speakers, when used with a Whelen siren amplifier, are covered by a 2 year warranty from the date of manufacture. Heavy-Duty motor assemblies (so marked) are covered by a direct warranty for up to three years from date of manufacture. For warranty consideration, both the siren speakers and motor assemblies are subject to the conditions and steps described herein.

HDP® / 5 YEAR WARRANTY

Whelen Automotive Non-Lightbar Strobe Power Supplies, LED Ballasts and LED Products bearing the official HDP label and manufactured to HDP standards, are covered by a direct warranty for up to five years from date of manufacture. In accordance with the policy statement described herein, the unit may be returned directly to the factory or to an Authorized Whelen Repair Center† for warranty consideration.



12 MONTH WARRANTY — BACK-UP ALARMS

Whelen Back-Up Alarms are covered by a 12 month warranty and are subject to the conditions and steps described herein.

10 YEAR LIMITED WARRANTY — LIGHTBAR POWER SUPPLY

*All repairable warranty and non-warranty Edge® style lightbar strobe power supplies will be replaced with a compatible new power supply. If out of initial warranty period but less than 10 years old, the charge will be a flat fee of \$200.00 (warranty for standard power supply is 2 years and HDP® Heavy-Duty Professional power supply is 5 years). This is subject to the conditions and steps described herein.

12 AND 24 MONTH DIRECT WARRANTY — XENON FLASH TUBES

(Except Flash Tubes from 1000/1500/2000/3000 & VP Series which are covered by a 6 Month Warranty)

If the xenon flash tube component of a "Whelen" brand (not from 1000/1500/2000/3000 or VP Series) product is returned to Whelen within 12 months of the date which is affixed to the flash tube, Whelen will replace that flash tube free of charge ONE TIME ONLY, subject to the conditions and steps herein. Whelen "Gold Medallion" flash tubes including all linear flash tube assemblies, carry a 24 month warranty. Whelen will pay ground transportation from Whelen's factory or Authorized Whelen Repair Center† to the customer via UPS where available (in the Continental U.S.).

12 MONTH EXTENDED WARRANTY — WHELEN REPAIRED STROBE POWER SUPPLIES

Whelen offers to repair or replace, free of charge, any part of its strobe light power supplies that have been repaired by Whelen within 12 months and are less than 5 years old, subject to the conditions and steps herein. Whelen will pay ground transportation from Whelen's factory or Authorized Whelen Repair Center† to the customer via UPS where available (in the Continental U.S.).

WHELEN ENGINEERING COMPANY OUT-OF-WARRANTY FACTORY REPAIR PROGRAM:

*If found to be repairable, the Whelen Factory Repair Center (only) will repair Non-Lightbar Electronic Strobe Power Supplies for \$110 each. This does not include replacement of any other electro-mechanical parts including flash tubes, polycarbonate domes, motors, or hardware items.

*Follow the "Steps To Be Taken For Return" noted below, and include a check or money order for \$110 for each unit returned. For Whelen products older than 10 years, repair charges will be determined upon examination only (minimum charge is \$200). Contact factory service center for further details.

STEPS TO BE TAKEN FOR WARRANTY RETURN:

- 1) Whelen products are to be returned **freight prepaid** to the: Whelen Factory Repair Center Building B, 51 Winthrop Road, Chester, CT 06412-0684; or an Authorized Whelen Repair Center†. Do not ship by bus.
- 2) A copy of the sales receipt must be returned with the defective unit to qualify for warranty coverage from date of purchase.
- 3) Include a short statement explaining the problem.
- 4) Include your name, address, and day-time telephone number.
- 5) Whelen and its Authorized Repair Centers will, via UPS, ship back the repaired unit **freight prepaid**, usually within a few days after its receipt.

WHELEN®

ENGINEERING COMPANY, INC.

51 Winthrop Road
Chester, CT 06412-0684
Phone: (860) 526-9504
Fax: (860) 526-4078
www.whelen.com

— EFFECTIVE 07/01/14, REPLACES ALL PREVIOUSLY PUBLISHED SERVICE POLICIES —

† The only AUTHORIZED WHELEN REPAIR CENTER(S) are predetermined by the Whelen Factory via official listing obtained from Whelen Engineering Company, Chester, CT.

* New/Revised

102502-070114

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Product Warranty

FORCE America Inc. warrants to the original purchaser of its products that the products are free of defects in materials and workmanship, when operated under normal conditions and in accordance with accepted FORCE America and/or industry recommended practices. The standard warranty period is 12 months from the date the product is first put into service but not to exceed 18 months from the date of shipment. Products must be returned, freight prepaid, to the FORCE America Service Center from which it was shipped, for inspection. A Returned Goods Authorization (RGA) number must be obtained from that service center before shipment is made, and clearly indicated on the shipping package. Product must be received by FORCE America Inc. within 3 months of the claim as per the requirements of FORCE America's Returned Goods Policy, which is considered to be part of the warranty. FORCE America reserves the right to repair or replace any product found to be under warranty. This warranty policy does not provide for a refund or credit for defective material.

This warranty is null and void if in the judgment of FORCE America, the part had been used in the wrong application, damaged, improperly maintained or repaired, subjected to inappropriate environmental and operating conditions, repaired by a non-FORCE America party without prior authorization from FORCE America, not used in accordance with FORCE America operational and service recommendations, or repaired with other than FORCE America approved parts.

This warranty is in lieu of all other warranties, express or implied and may be varied only by a separate agreement signed by a duly authorized representative of FORCE America Inc. FORCE America makes no warranty of merchantability or fitness for a particular purpose. The foregoing states FORCE America's entire and exclusive liability and buyer's exclusive and sole remedy in connection with the sale of the parts hereunder. In no event shall FORCE America be liable for any special, incidental, or consequential damages whatsoever including loss of use or travel, labor or material costs to remove or reinstall the product. Under no circumstances will FORCE America's liabilities exceed the original repair cost for the products for which liability claimed.

For further information please consult factory.



52182 Ember Road
Lake Crystal, MN 56055

800-533-0494
www.CRYSTEEL.com

Crysteel® Manufacturing 5 Year Customer Satisfaction Pledge & Warranty

Crysteel offers the most comprehensive warranty in the industry. Crysteel warrants each product against defects in material and workmanship for 60 Months from in-service date:

- First 36 months (3 years) at 100% coverage
- Second 24 months (2 years) at 50% coverage



Crysteel's Warranty on all Dump Bodies and Truck Products includes:

- Crysteel manufactured product
- The repair of warranted product
- Labor to replace warranted product
- Freight for replacement product
- Warranted product return freight (if required)

Paint Warranty on all Crysteel Product applies as follows:

- Primer applied to Crysteel product. Primer carries a six month warranty from the original invoice date from the Crysteel factory due to the shelf life of the applied primer.
- Factory applied top coat paint has a one year warranty.
- Paint warranty does not include any primer or paint applied to the inside or understructure of any Crysteel dump body.

This warranty does not cover:

- Diagnostics time
- Loss of use or any other downtime expense
- Travel Time or Rental unit
- Maintenance fluids
- Repairs due to inadequate diagnostics or installation
- OEM Products or accessories purchased by Crysteel as part of or offered with our product will carry the OEM manufacturer's warranty.

No warranty of any kind applies to products which have been damaged, or have failed because of neglect, lack of maintenance, service, lubrication, wear, misuse, accidental overloading, or improper installation. All warranty is limited to product supplied under the Crysteel Manufacturing name and does not cover any Distributor Modifications. Repair or replacement is at Crysteel's Discretion.

Complete warranty details available by contacting Crysteel.

Thank you for being a Crysteel Customer!

Falls® Limited Warranty

Little Falls Machine, Inc. warrants that all parts and equipment are tested and inspected. Little Falls Machine, Inc. will repair or, at the option of Little Falls Machine, Inc., replace those parts which prove defective due to material or workmanship under normal use for a period of two (2) years from the date of retail sale or date of invoice from Little Falls Machine, Inc. whichever is later. Expendable items such as pins, runners, cutting edges, or springs are excluded from this warranty. Trade accessories such as hydraulic cylinders, valves, motors, control cables are warranted to the extent of the manufacturer's stated warranty and not by Little Falls Machine, Inc.

Little Falls Machine, Inc. warrants that the products manufactured by us to be in accordance with our published specifications or those specifications agreed to by us in writing at the time of sale. The obligation of Little Falls Machine, Inc. is expressly limited to repairing or replacing, at its option, any product not meeting such specifications within the warranty period.

LIMITATIONS OF WARRANTY AND DAMAGES

LITTLE FALLS MACHINE MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.

IN NO EVENT SHALL LITTLE FALLS MACHINE, INC. BE HELD LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR DAMAGES RESULTING FROM MISAPPLICATION, ABUSE, MISUSE, ACTS OF GOD, UNAUTHORIZED ALTERATION OF THE FALLS PRODUCT, OR SUBSTITUTION OF PARTS NOT AUTHORIZED IN WRITING BY LITTLE FALLS MACHINE, INC.

To obtain service under this warranty the consumer must return the defective Falls product to the dealer from which the product was purchased or to any authorized Falls Snow Products dealer, transportation and freight charges prepaid. Only Falls Snow Products dealers are authorized to perform the obligations under this warranty.

No person is authorized to alter or amend this warranty or to create any warranty other than that set forth herein without the expressed written consent of Little Falls Machine, Inc.

Little Falls Machine, Inc. reserves the right to make improvement changes on any of our products without prior notice.

Falls® is the registered trademark of Little Falls Machine, Inc.



TRUCK EQUIPMENT

“Celebrating 76 years 1939-2015”

References

Hydraulics by Force America

Rich Sieg

Cass County Highway Dept
1201 Main Avenue West
West Fargo, ND 58078
701-298-2370

Randy Huot

Polk County Highway Dept
820 Old Hwy 75 S
Crookston, MN 56716
218-470-8267

Nathan Gannon or Dave Overboe

Clay County Highway Dept.
2951 41 ½ Street South
Moorhead, MN 56560
218-299-5099

Herb McCormick

Hubbard County Highway Dept
101 Crocus Hill Street
Park Rapids, MN 56740
218-732-3302
218-252-6170 (Mobile)

Bonnell Manufacturing (Commander Body)

CITY OF DIXON

121 West Second Street
Dixon, IL 61021

Contact: Jeff Kuhn
Phone: 815-440-2364

BOONE COUNTY HIGHWAY DEPT

9759 Illinois Route #76
Belvidere, IL 61008

Contact: Scott Sell
Phone: 815-509-4723

ROAD DISTRICT OF GRAFTON TOWNSHIP

10109 Vine Street
Huntley, IL 60142
Contact: Tom Poznanski
Phone: 847-669-5070

MARENGO TOWNSHIP

4010 North Route #23
Marengo, IL 60152
Contact: Dave Schirmer
Phone: 815-568-8636

VILLAGE OF HUNTLEY

10987 Main Street
Huntley, IL 60142
Contact: Dan Ruggles
Phone: 847-669-3450

Crysteel Dump Bodies**Bob Ramstad**

Norman County Highway Dept
814 East Main
Ada, MN 56510
218-784-7126

Randy Huot

Polk County Highway Dept
820 Old Hwy 75 S
Crookston, MN 56716
218-470-8267

Herb McCormick

Hubbard County Highway Dept
101 Crocus Hill Street
Park Rapids, MN 56740
218-732-3302
218-252-6170 (Mobile)

Swenson Products**Randy Cameron**

MN DOT, Equipment Section
6000 Minnehaha Ave
St. Paul, MN 55111
651-366-5712

Rich Sieg

Cass County Highway Dept
1201 Main Avenue West
West Fargo, ND 58078
701-298-2370

Allan Erickson

City of Fargo, Central Shop
402 23rd Street North

Falls Snow and Ice Control Equipment

Bob Ramstad

Norman County Highway Dept
814 East Main
Ada, MN 56510
218-784-7126

Rich Sieg

Cass County Highway Dept
1201 Main Avenue West
West Fargo, ND 58078
701-298-2370

Nathan Gannon or Dave Overboe

Clay County Highway Dept.
2951 41 ½ Street South
Moorhead, MN 56560
218-299-5099

Randy Huot

Polk County Highway Dept
820 Old Hwy 75 S
Crookston, MN 56716
218-470-8267

Pre-wet systems By Varitech Industries

Allan Erickson

City of Fargo, Central Shop
402 23rd Street North
Fargo, ND 58102
701-241-1459

Rich Sieg

Cass County Highway Dept
1201 Main Avenue West
West Fargo, ND 58078
701-298-2370

Al Gavlouski

Beltrami County Highway Dept.
2493 Adam Ave NW
Bemidji, MN 56601
218-333-8173

Note: All Products and manufactures are currently being or have been used by ND Dot

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681

FAX (218) 233 9548

1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com



NORMAN COUNTY HIGHWAY DEPARTMENT

814 EAST MAIN STREET
ADA, MINNESOTA 56510-1318

OFFICE PHONE: (218) 784-7126
COUNTY GARAGE: (218) 784-4728
FAX: (218) 784-3430

May 18, 2015

To Whom It May Concern,

The Norman County Highway Department has been having Bert's Truck equipment of Moorhead, do the installs of their new Snow Plow Equipment for approximately the last fifteen years. Previously the Norman County Highway Department worked with Little Falls Machine in Little Falls, Mn. Falls Equipment did wonderful work, but the distance we had to take our equipment for the installs and or repairs took up a lot of time and required two people to drop off a truck and pick it up. When we decided to contract with Bert's, one of the main reasons was the close proximity to Norman County. When our trucks are having the equipment installed, it is very easy for myself or our shop foreman to drop in and look at how the install's are going, and if we see something we don't like, we can make changes before the unit is completed.

The staff at Bert's has been very helpful over the years. They are very knowledgeable about the equipment they are selling and do a wonderful job at explaining different types of equipment available and how it works in the field. When drawing up the specifications for the new equipment, we primarily work with Jim McLaughlin. He knows the equipment he is selling us and goes above and beyond the call of duty if we are having any trouble with our units shortly after we put them into service, and also years down the road. I am proud to say that Bert's Truck Equipment is in it for the long haul, and service to their customers is their number one priority.

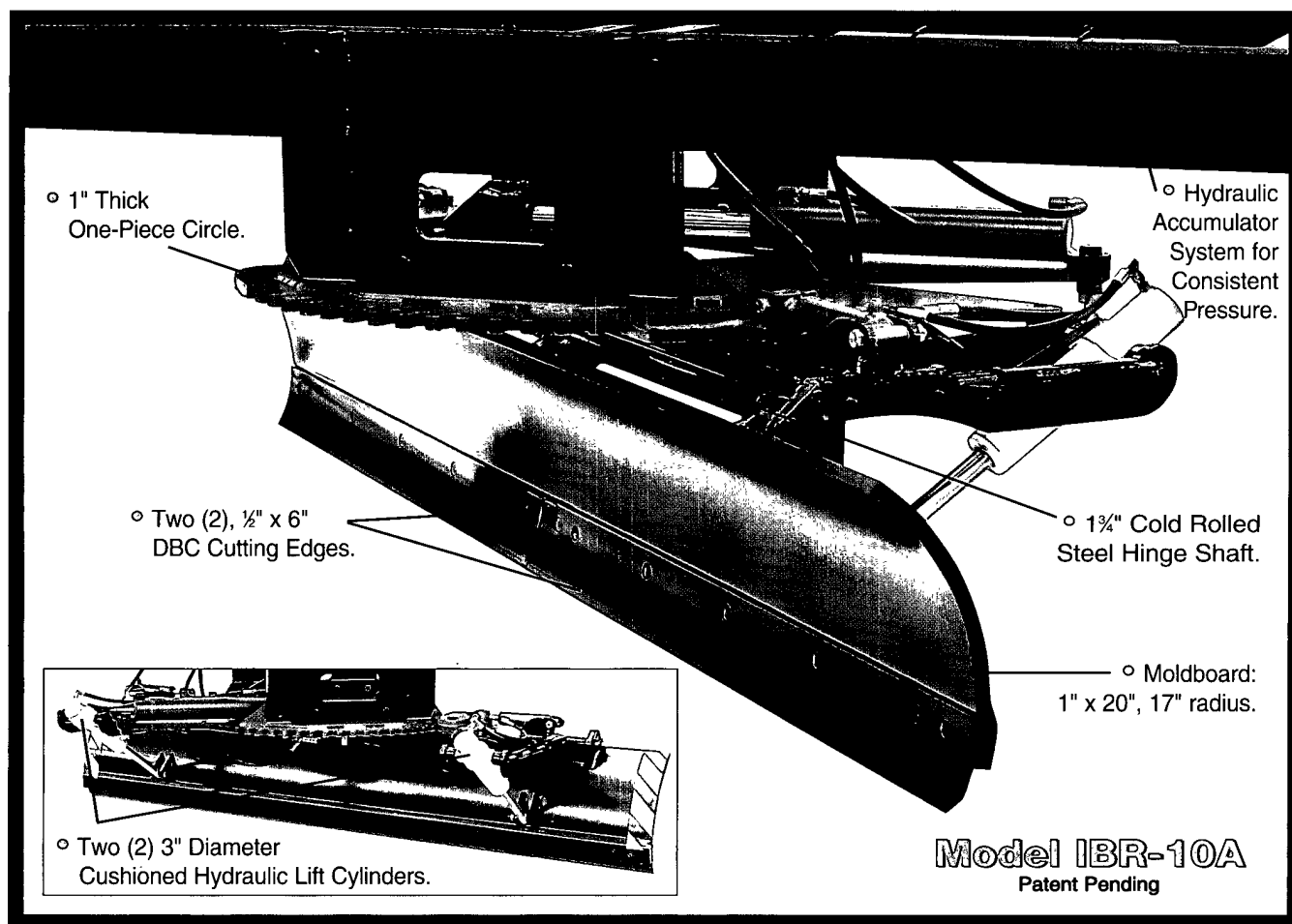
In closing, I would like to say that the Norman County Highway Department has purchased a new Snow Plow Truck for 2015, and is in the process of having Bert's Truck Equipment do all of the install's of the Snow Plow Equipment, Dump box , Lighting and Hydraulics. We are very satisfied with the work that Bert's has done for us in the past. The Equipment they sell and the installations they have done for us, is giving us years of service from our equipment.

Thank you for your time.

Sincerely,

Bob Ramstad
Maintenance Superintendent
Norman County Highway Department

Falls® IceBreaker™ Reversible Underchassis Scraper



- AASHO & Carbide Punch
- 500 PSI Pressure Reducing Valve Included
- Two (2) Double-Acting 3 1/2" Diameter Reversible Cylinders

- Optional Power Lock Pins Available with Monoblock Sequence Valve
- Compact Design For Easier Installation and Better Blade Contact Angle

Specifications

IceBreaker™ Reversible Underchassis Scraper

The following specifications are designed to assist you in acquiring a Falls® IceBreaker™ Reversible Underchassis Snow and Ice Scraper or its equal. The dimension within the specifications are intended to indicate the size, type, and quality of unit desired.

Moldboard: Shall be minimum 1" thick x 20" SEF heat-treated 40/50 carbon steel smooth rolled to a 17" radius. Moldboard shall be formed to accept double bevel curved cutting edges. Moldboard shall be punched to accept AASHO standard cutting edges as well as standard carbide punched blades. Moldboard shall come supplied with two (2) ½" x 6" cutting edges. Moldboard ends to be clearly marked with reflective tape.

Hydraulic Cylinders: Shall be two (2) minimum double acting 3" diameter ID x 11½" stroke. The cylinder shafts shall be minimum 1½" diameter and shall be coated with minimum 36 hour salt spray chrome. Hydraulic cylinders shall have an operating pressure of 2500 psi and shall be tested for a minimum 7500 psi burst strength. Hydraulic cylinders shall have urethane Poly-pack seals and urethane wiper.

Hydraulic Accumulator: The hydraulic lift cylinder shall be protected with a nitrogen-charged hydraulic piston-type accumulator, 231 cu. in. capacity, to allow scraper moldboard movement due to road surface irregularities. Accumulator shall be precharged to 375 psi. Coil springs for shock abatement are not acceptable. Very important - No exceptions!

Pressure Reducing Valve: A pressure reducing valve shall be provided for installation in the accumulator circuit and shall not allow "bleed out" or dumping of oil in the circuit. Maximum pressure not to exceed 500 psi. A liquid-filled pressure gauge, 0-1000 psi, shall be installed in the cab for monitoring. Very important - No exceptions!

Power Reverse Assembly: Reversing circle shall be minimum 1" thick A-36 steel plate. Circle shall be one (1) piece and shall provide for 45 degrees rotation left or right. Circle shall be equipped with two (2) double-acting hydraulic cylinders minimum 3½" diameter ID x 18" stroke. The cylinder shafts shall be minimum 2" diameter and shall be coated with minimum 36 hour salt spray chrome. Hydraulic cylinders shall have an operating pressure of 2500 psi and shall be tested for a minimum 7500 psi burst strength. Hydraulic cylinders shall have urethane Poly-pack seals and urethane wiper. Hydraulic cushion valve shall be provided.

Mounting Assembly: Hinge shaft shall be minimum 1¼" cold-rolled round steel. Hanger assembly shall consist of ½" A-36 plate steel and 4" x 13.8 lb. car & ship channel.

Paint: Shall be black.

ID & Warranty: Unit shall be identified with a metal plate riveted to the moldboard. ID tag shall include model, serial number, and manufacturer. 12 month limited warranty.

Approved models: Include Falls® IceBreaker™ Model IBR-10A or equal. Non-approved makes and models must contact procurement office or bidding agency a minimum of two (2) weeks prior to bid opening for evaluation.

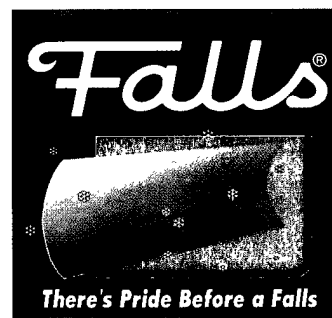
Options: 10, 11, & 12 ft. moldboard lengths. ¾" thick moldboard. Power locking pins. (see following sample spec)

Power Locking Pins: Shall consist of two (2) spring-loaded, single-acting hydraulic cylinders, 1¼" diameter ID x 1¼" stroke. The cylinder shaft shall be minimum 1" diameter and shall be coated with minimum 36 hour salt spray chrome. Hydraulic cylinders shall have an operating pressure of 2500 psi and shall be tested for a minimum 7500 psi burst strength. Hydraulic cylinders shall have urethane Poly-pack seals and urethane wiper. Hydraulic circuit shall include a mono-block shuttle/selector valve for the smooth operation of the locking pins and to reduce the number of hydraulic connections and potential leaking problems. Reversing circle shall permit no less than twelve (12) lockable positions. No exceptions!

Note: With power locking pins, hydraulic reverse mechanism will be accomplished with one (1) hydraulic cylinder instead of two (2) unless otherwise specified.

Specifications are subject to change without notice.

The policy and promise of Little Falls Machine, Inc. is continuing product improvement. Design change and structural alterations may occur without prior notice. Such changes will not sacrifice quality or product integrity.



LITTLE FALLS MACHINE, INC.

300 Lindbergh Drive South
Little Falls, MN 56345
Phone (320)632-9266
Fax (320)6323484
1-800-772-PLOW
www.fallsplovs.com

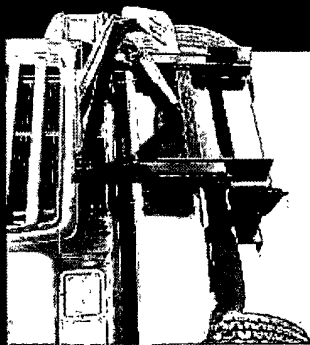
YOUR DEALER IS:

Falls®, DirectLink™, and IceBreaker™ are trademarks of Little Falls Machine, Inc.

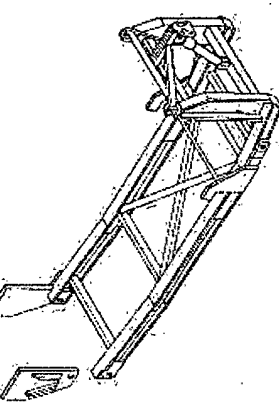
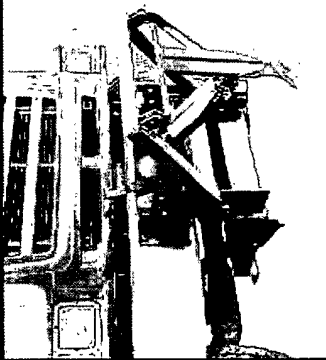
Little Falls Machine, Inc. is an equal opportunity employer.

® Falls is a trademark of Little Falls Machine, Inc.

PRINTED IN U.S.A. 0399



Falls Tilting Hitch Option
effortlessly tilts forward to
allow full hood tilt. This
option is available on all
Falls 2X Hitch Systems
except the 21B model.



Falls #30 Hitch System is a husky, heavy-duty underchassis-style hitch built with 4" H-beams and 6" ship channel. This hitch transmits load and force to the rear-mounted side plates on truck chassis that don't have the frame or spring capacity to sustain the static weight of plow and hitch or the dynamic forces of snow plowing. Extra cross bracing and reinforcement at every stress point make this the strongest hitch in its class.

Every Falls Hitch System includes a standard, single-acting 4" x 10" lift cylinder with a 3" tubular shaft plated with 36-hour salt spray chrome. You also have the option of substituting a 3 1/2" x 10" double-acting cylinder with 2" solid shaft.

QUICK REFERENCE MODEL # CHART

COUPLING STYLES	PLOW ONLY HITCH FALLS MODEL #	PLOW & SNOW WING HITCH FALLS MODEL #
w/ Manual Pin Coupler	20B	40B
w/ Hustling Hitch Coupler	21B	41B
w/ Bonnell Loop Coupler	24B	44B
w/ Rapid Push Bar Coupler	26B	46B
w/ Jaw Quick Coupler	28B	48B

YOUR DEALER IS:

Specifications are subject to change without notice.
The policy and promise of Little Falls Machine, Inc. is continuing product improvement. Design changes and product improvements may occur without prior notice. Such changes will not sacrifice quality or product integrity.
Falls* is a trademark of Little Falls Machine, Inc.
Little Falls Machine, Inc. is an equal opportunity employer.
091255-8P

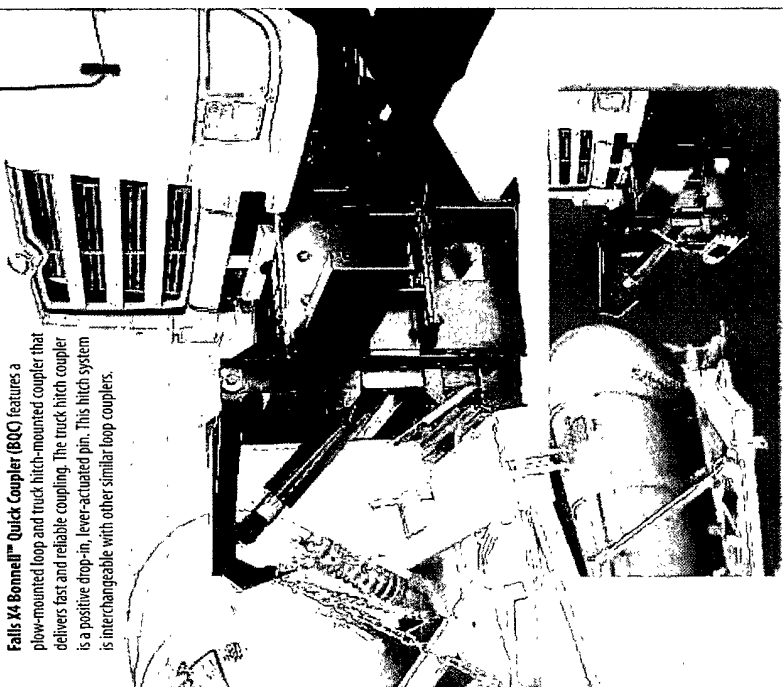
Falls
LITTLE FALLS MACHINE, INC.
300 Lindbergh Drive South
Little Falls, MN 56245
Toll-free 800-772-PLOW
Phone (320) 632-9266 • Fax (320) 632-3484
www.fallsplovers.com

Falls

Don't hook up your Falls snow handling equipment to anything less than the #1 hitch systems on the road. Falls Hitch Systems are built to take punishment tougher than anything you're likely to see. And, they're made for easy operation, whether you run trucks or motor graders. Start your Falls System with your choice of our rugged plow-only hitch (the 2X series) or our combination plow and snow wing hitch (the 4X series). Then, select the coupling system that you prefer from the many available Falls options. It's that simple. Check out a Falls Hitch System today.

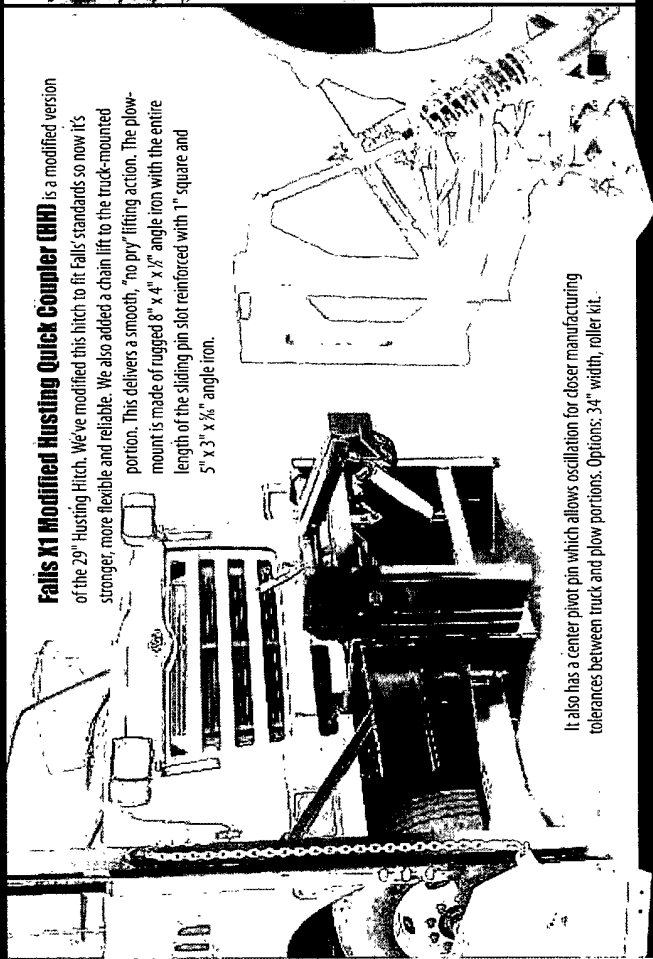
HITCH SYSTEMS FOR TRUCK-MOUNTED SNOW PLOWS & SNOW WINGS

Falls 24 Bonnell™ Quick Coupler (BQC) features a plow-mounted loop and truck hitch-mounted coupler that delivers fast and reliable coupling. The truck hitch coupler is a positive drop-in, lever-actuated pin. This hitch system is interchangeable with other similar loop couplers.



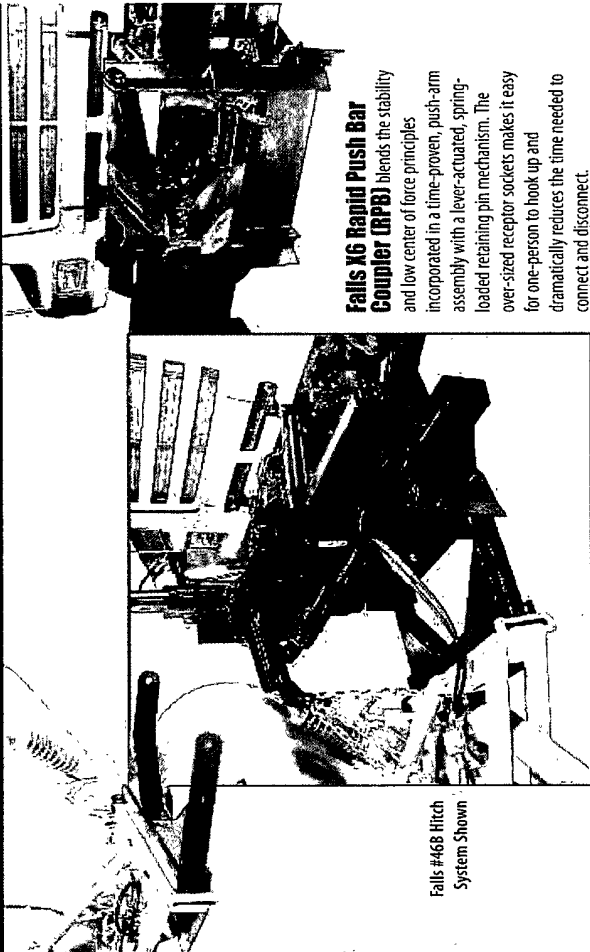
Falls #48 Hitch System

Falls X1 Modified Hustling Quick Coupler (HH) is a modified version of the 29" Hustling Hitch. We've modified this hitch to fit Falls' standards so now it's stronger, more flexible and reliable. We also added a chain lift to the truck-mounted portion. This delivers a smooth, "no pry" lifting action. The plow-mount is made of rugged 8" x 4" x 1/2" angle iron with the entire length of the sliding pin slot reinforced with 1" square and 5" x 3" x 3/4" angle iron.



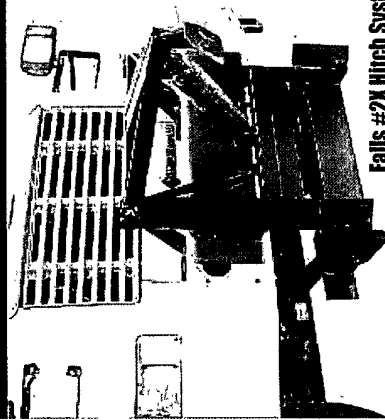
It also has a center pivot pin which allows oscillation for closer manufacturing tolerances between truck and plow portions. Options: 34" width, roller kit.

Falls X6 Rapid Push Bar Coupler (RPB) blends the stability and low center of force principles incorporated in a time-proven, push-arm assembly with a lever-actuated, spring-loaded retaining pin mechanism. The over-sized receptor sockets makes it easy for one-person to hook up and dramatically reduces the time needed to connect and disconnect.

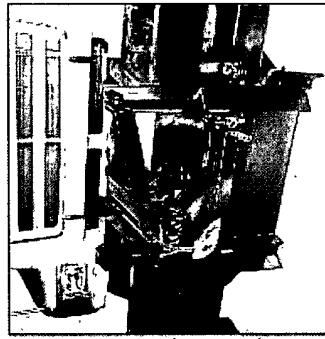


Falls #468 Hitch System Shown

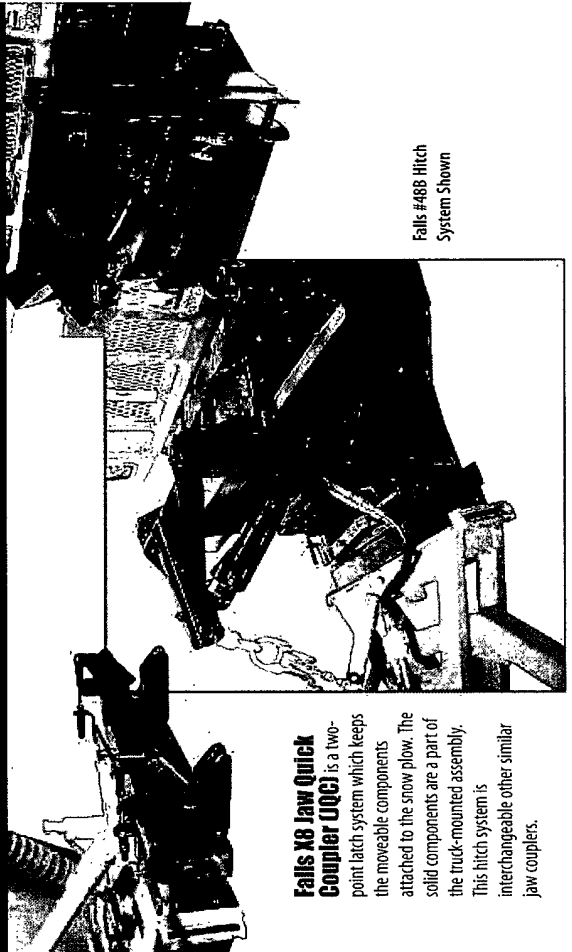
Falls #2X Hitch System is a "plow only" truck-mounted hitch that mounts directly on the existing truck chassis frame. The hitch assembly is heavily fortified to withstand the forces of heavy-duty plowing. Standard Thrust Arms deliver extra strength and stability. The low profile vertical risers permit a wide range of hood openings without tilt mechanisms (see available tilt mechanisms on pg. 4). Adapts to all Falls Quick Hitch Coupler Systems.



Falls #4X Hitch System is a "plow-wing" truck-mounted hitch. The hitch mounts directly on the existing truck chassis frame with 7" steel side plates. The hitch assembly is heavily fortified so it stands up to the forces of plowing and it's equipped with wing mounting provisions. Standard Thrust Arms deliver extra strength and stability. The low profile vertical risers permit a wide range of hood openings without tilt mechanisms. This system adapts to all Falls Quick Hitch Coupler Systems.

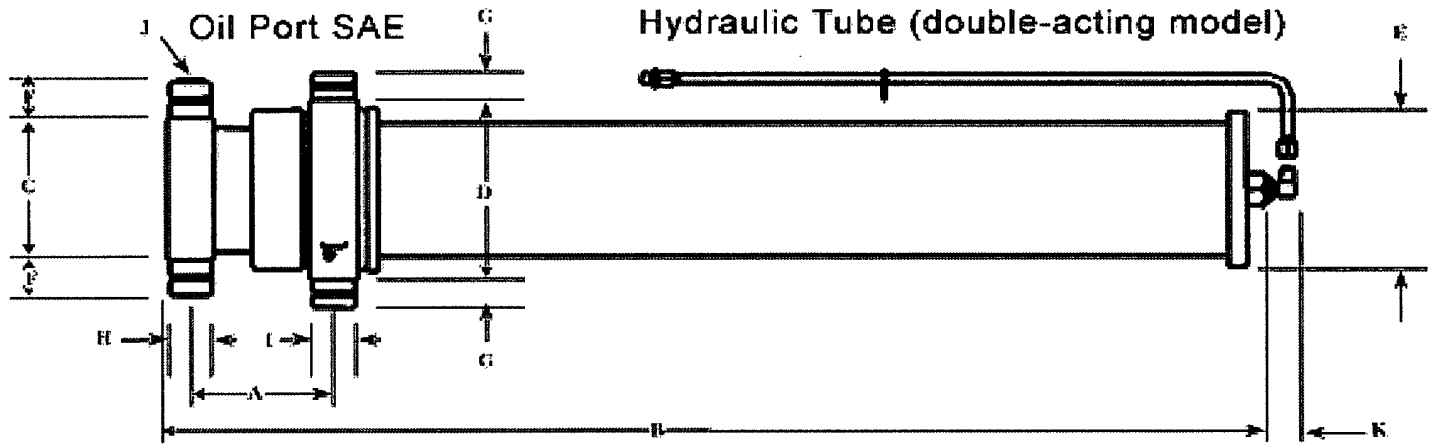


Falls X8 Jaw Quick Coupler (JQC) is a two-point latch system which keeps the moveable components attached to the snow plow. The solid components are a part of the truck-mounted assembly. This hitch system is interchangeable other similar jaw couplers.



Falls #488 Hitch System Shown

Telescopic Cylinder - CS SERIES



Many others sizes, strokes and mountings available upon request.

												Theoretical	
CYLINDER NUMBER	A	B	C	D	E	F	G	H	I	J	K	Gal.	Wt. Lbs.
SINGLE ACTING													
PS0400902VM0035 (CS-90-4-2)	A 5 1/4	B 57	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	6.0	226
PS0401002VM0071 (CS-100-4-2)	A 5 1/4	B 62	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	6.7	244
PS0401102VM0072 (CS-110-4-2)	A 5 1/4	B 67	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	7.4	261
PS0400903VM0036 (CS90-4-3)	A 5 1/2	B 48	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	4.5	212
PS0401003VM0037 (CS100-4-3)	A 5 1/2	B 48	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	4.7	212
PS0401103VM0038 (CS110-4-3)	A 5 1/2	B 55	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	5.5	236

Telescopic Cylinder - CS SERIES

PS0401203VM0039 (CS120-4-3)	A 5 1/2	B 55	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	5.6	236
PS0501103VM0032 (CS110-5-3)	A 5 7/8	B 52 1/4	C 7	D 9	E 7 3/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	8.7	324
PS0501203VM0107 (CS120-5-3)	A 6 1/2	B 57 5/8	C 7	D 9	E 7 3/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	9.8	350
PS0501303VM0028 (CS130-5-3)	A 6 1/2	B 57 5/8	C 7	D 9	E 7 3/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	10.2	350
PS0501403VM0051 (CS140-5-3)	A 6 3/8	B 61 7/8	C 7	D 9	E 7 3/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	-	11.0	368
PS0601303VM0042 (CS130-6-3)	A 7 5/8	B 58 1/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	-	15.5	430
PS0601403VM0079 (CS140-6-3)	A 6 1/2	B 61 7/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	-	15.9	445
PS0601504VM0047 (CS150-6-4)	A 7 5/8	B 56 3/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	-	15.5	430
PS0601604VM0161 (CS160-6-4)	A 7 5/8	B 56 3/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	-	15.7	434
PS0601704VM0050 (CS170-6-4)	A 7 5/8	B 59	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	-	15.9	450

DOUBLE ACTING (LAST STAGE ONLY)

PSD0400802VM0102 (CS-80-4-2 DA)	A 6 1/2	B 54 11/16	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	5.5	221
PSD0400902VM0093 (CS-90-4-2 DA)	A 5 1/8	B 57	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	6.0	229

DOUBLE ACTING (ON ALL STAGES)

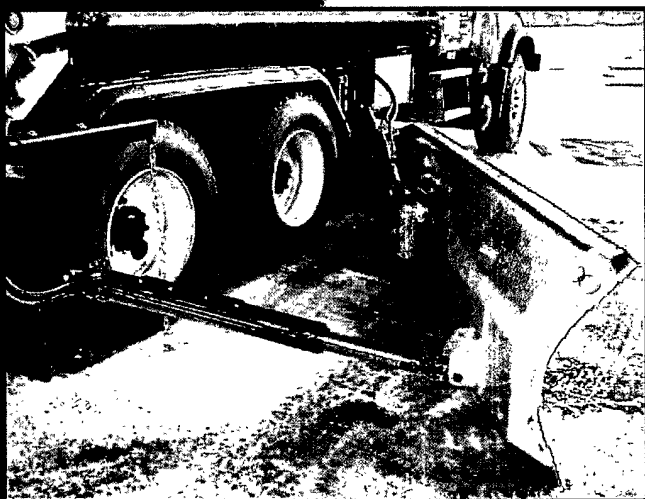
PSD0450803VM0134 (CS80-4.5-3 DA)	A 5 1/2	B 48	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	4.2	214
PSD0450903VM0098 (CS90-4.5-3 DA)	A 5 1/2	B 48	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	4.4	214

Telescopic Cylinder - CS SERIES

PSD0451003VM0129 (CS100-4.5-3 DA)	A 5 1/2	B 48	C 5 3/4	D 8	E 6 1/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	4.6	215
PSD0551103VM0136 (CS110-5.5-3 DA)	A 6 1/2	B 57 3/4	C 7	D 9	E 7 3/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	9.3	360
PSD0551203VM0108 (CS120-5.5-3 DA)	A 6 1/2	B 57 3/4	C 7	D 9	E 7 3/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	9.7	360
PSD0551303VM0126 (CS130-5.5-3 DA)	A 6 1/2	B 57 3/4	C 7	D 9	E 7 3/4	F 2	G 1 1/4	H 1 7/8	I 1 7/8	J 12	K 1 3/16	10.0	360
PSD0651303VM0138 (CS130-6.5-3 DA)	A 7 5/8	B 63 1/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	K 1 3/16	16.1	457
PSD0651403VM0162 (CS140-6.5-3 DA)	A 7 5/8	B 63 1/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	K 1 3/16	16.5	457
PSD0651504VM0109 (CS150-6.5-4 DA)	A 7 5/8	B 58 7/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	K 1 3/16	14.8	460
PSD0651604VM0013 (CS160-6.5-4 DA)	A 7 5/8	B 58 7/8	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	K 1 3/16	15.0	454
PSD0651704VM0163 (CS170-6.5-4 DA)	A 7 5/8	B 61	C 8	D 10 3/16	E 8 3/4	F 2	G 1 1/2	H 2 1/4	I 2 1/4	J 16	K 1 3/16	15.2	468

Falls
SDL Series

DIRECT HYDRAULIC SNOW WING



- 8, 9, 10, 11, and 12 ft. Cutting Edge Lengths
- 3.5" Diameter Double-Acting Hydraulic Cylinders
- Nitrided Cylinders for Increased Corrosion Resistance
- 1-3/4" Wing Hinge Bolt
- Trip Edge or Trip Moldboard Available
- Equipped with Falls' Exclusive Wing Lock Valve with Built-In Relief
- Double-Boxed Wing Construction Eliminates Twisting
- Two (2) Cylinder Control for Precise Positioning
- Heavy-Duty Construction Throughout
- Works in Conjunction with Underchassis Scraper to Eliminate Windrows
- Shown with Optional Nitrogen-Accumulated Hydraulic Push Bar Extension

SPECIFICATIONS

MODEL	SDL-9A	SDL-10A	SDL-11A
Overall length	9'6"	10'6"	11'6"
Overall height, front	30"		
Overall height, rear	30"		
Moldboard thickness	10 gauge hi-tensile steel, A607-50		
Cutting Edge (AASHO Punched)	1/2" x 6" x 9ft	1/2" x 6" x 10ft	1/2" x 6" x 11ft
Push Bar	One (1) adjustable spring-cushioned – Hydraulic extension optional		
Clearing width	60" - 90"	70" - 100"	80" - 110"
Front lift height	13"		
Rear lift height	96"	102"	108"
Weight, wing only	580 lb	640 lb	700 lb
Weight, wing & mtgs	1550 lb	1610 lb	1670 lb

Valves required: Two (2) double-acting hydraulic control valves.

Options available: Trip edge; nitrogen-accumulated hydraulic push bar extension.

YOUR DEALER IS:

Specifications are subject to change without notice.

The policy and promise of Little Falls Machine, Inc. is continuing product improvement. Design change and structural alterations may occur without prior notice. Such changes will not sacrifice quality or product integrity.

*Falls® is a trademark of Little Falls Machine, Inc.
Little Falls Machine, Inc. is an equal opportunity employer.*

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300 Lindbergh Drive South

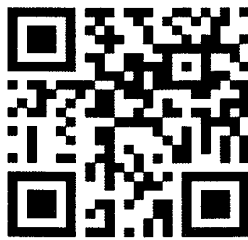
Little Falls, MN 56345

Toll-free 800-772-PLOW

Phone (320) 632-9266 • Fax (320) 632-3484

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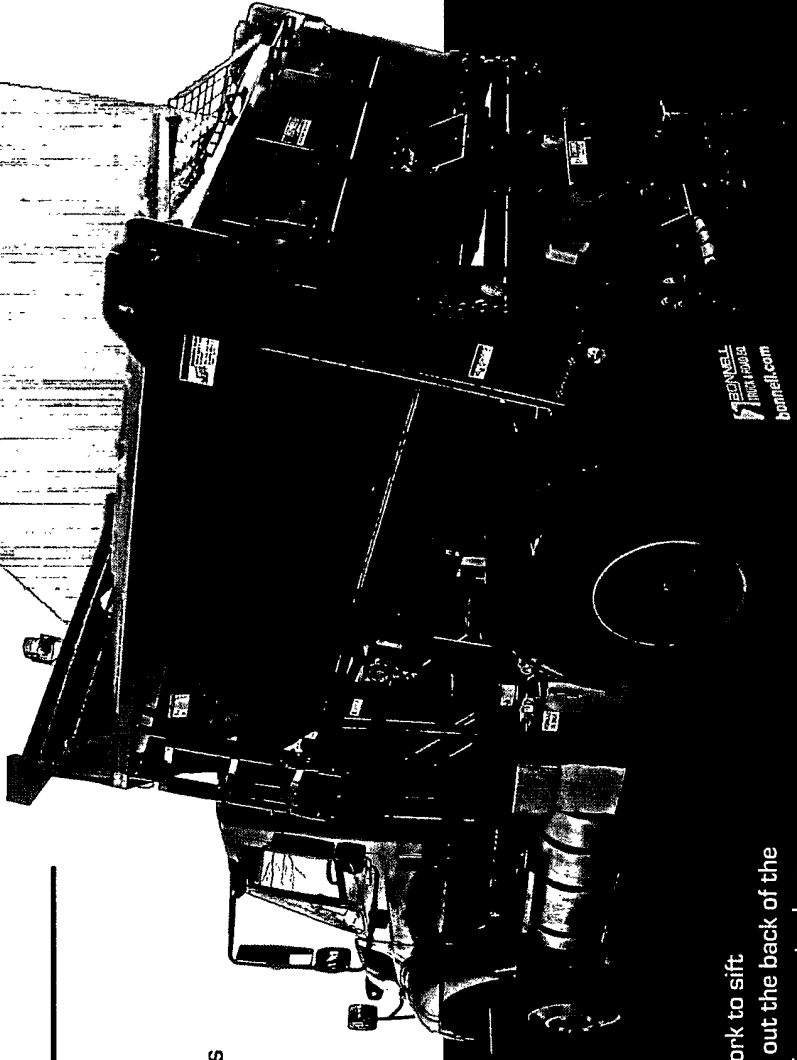
COMMANDER SERIES TRUCK BODIES



《《《 ACTION VIDEO

www.youtube.com/bonnellindustries

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The unique polygonal shape of the new Commander Series bodies combined with a center conveyor work to sift material down and out the back of the body, all while holding a great volume.

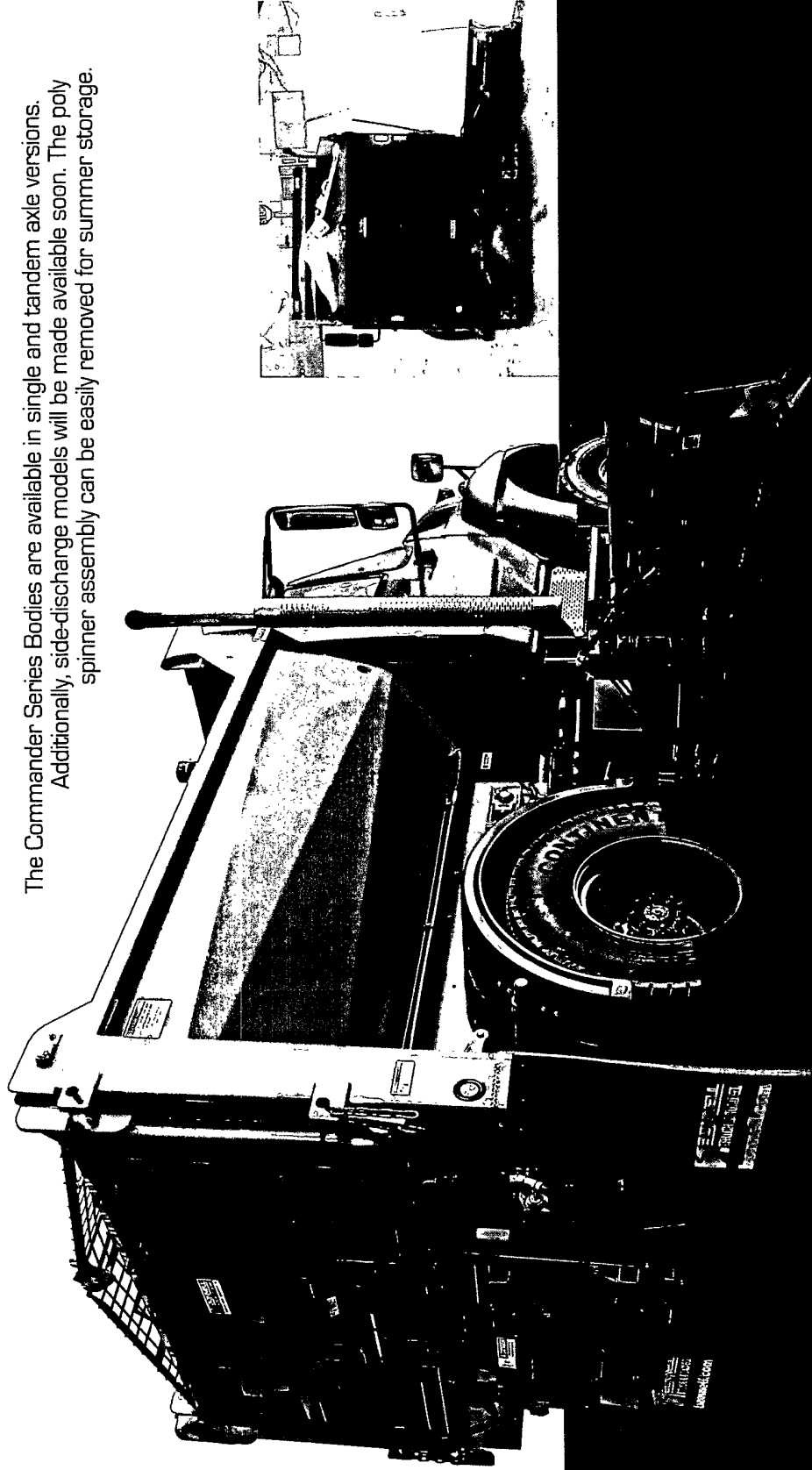


All-New Commander Series Bodies. COMMAND YOUR ROADWAYS.

The all-new Bonnell Industries Commander Series truck bodies have been designed from the frame up to be a game-changer in the snow and ice control industry. The Commander bodies are designed to be multi-purpose weapons for your public works fleet. By marrying a poly spinner assembly to a traditional dump tailgate, Commander Bodies allow you to tackle numerous jobs with one truck. The unique polygonal shape of the Commander Bodies work to sift material down and out the back of the body while still holding an impressive amount of material. Bonnell Commander bodies give you the ultimate in cost-efficiency, because one truck can be used in all four seasons.

The Commander Series Bodies are available in single and tandem axle versions.

Additionally, side-discharge models will be made available soon. The poly spinner assembly can be easily removed for summer storage.



Commander MCR Model Shown

Commander Body



A Subsidiary of FORCE America, Inc.

The Tailgate series of tanks are designed for medium and heavy duty truck pre-wetting applications. Featuring a minimum specific gravity rating of 1.9 and U.V. stabilized material the Tailgate series of tanks offer extra long life with reduced bulging, and are capable of applying liquids of all specific gravities.

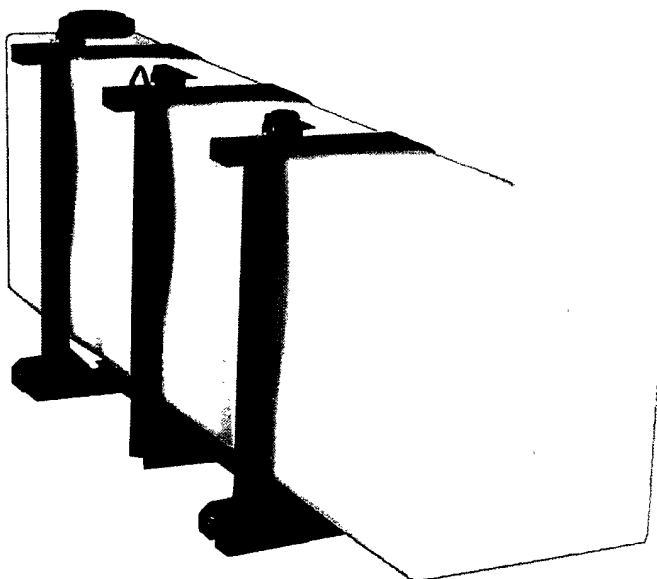
The Tailgate series of tanks can be used in manual, open-loop and closed-loop pre-wetting applications.

Application Equipment

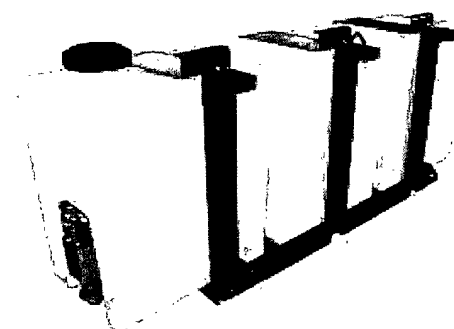
Tailgate Series Tanks

F E A T U R E S

- **Molded Internal Baffles**
Improved vehicle stability with less material movement.
- **Extra Heavy Duty Tank**
Able to accurately apply high specific gravity liquids.
- **High-density, U.V. Stabilized Polyethylene Plastic**
Exceptional protection from sun deterioration for extended life.
- **Extra Large 5" Vented Fill Cap**
Allows easy access to tank for maintenance, service and top filling.
- **Splash Proof Vent**
Prevents spilling associated with liquid sloshing.
- **1-1/2" Quick Disconnect Fill Port**
Ground accessible fill and drain port.
- **Optional Stainless Steel Carrier**
Pre-engineered mounting system fits the most popular truck frames.
- **Bulkhead Tank Connections**
Service connectors easily with replaceable parts.
- **Suction Filter Cartridge Standard**
Protects pump for added life.
- **Integrated Power Unit Mounting**
No secondary enclosure parts to mount, maintain, or replace.



Tailgate 150 Gallon Tank

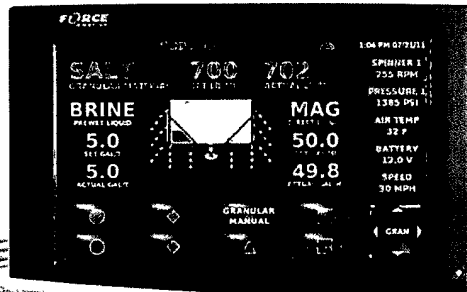


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FORCE
America INC.



VISIONARY

SSC6100 CAN Bus Spreader Control System

Designed with Vision in Mind

FORCE America understands the importance of engineering with a vision for the future. That is why the 6100 Control System is considered the industry's premier integrated joystick and spreader control system. The 6100 features a vivid 7" color LCD and true CAN bus connectivity. It can be customized for use today and expanded to accompany new developments in snow and ice fighting techniques down the road. The 6100 Control System is truly designed for today with tomorrow in mind.

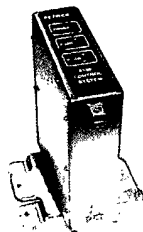
High Resolution 7" Color LCD Screen

Displays information-rich graphical representations providing operators a comprehensive view of their snow and ice operation.



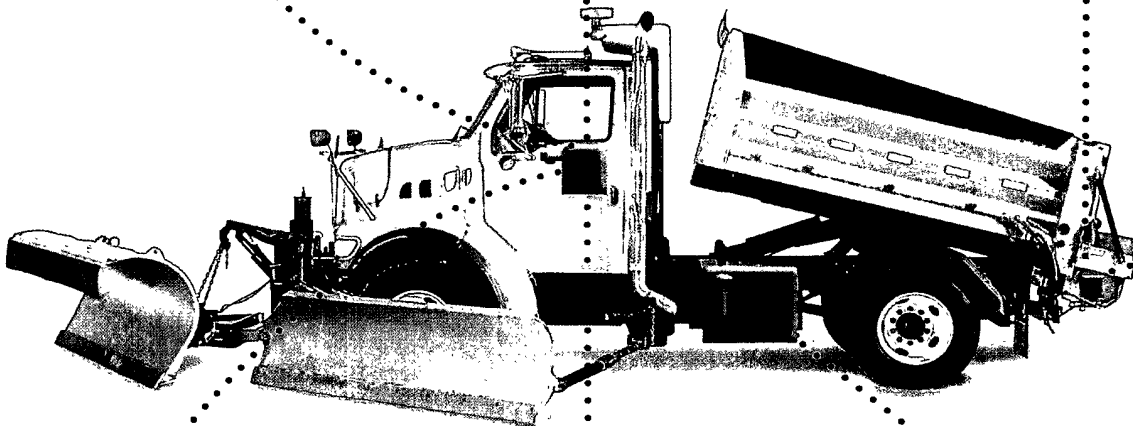
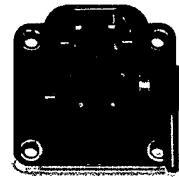
CAN Bus Central Processing Module

Slim design provides centralized connections to AVL devices, USB fobs and other in-cab peripherals with a path for future expansion.



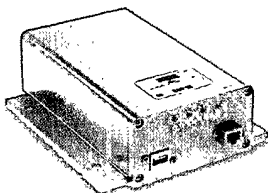
Connectivity

Offers ability to plug-and-play with a single connector system to 12 VDC spreader body and trailer systems.



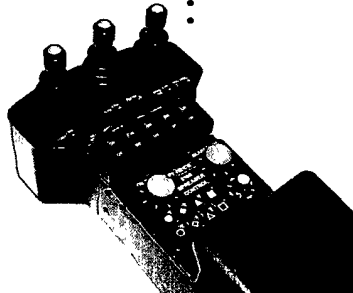
Visible Integration

Integrated AVL/GPS System collects and reports complete information on: Route, Vehicle, Location and Material Application (available separately).



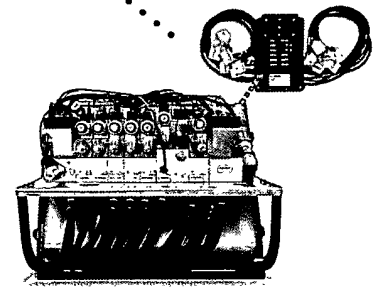
Patrol Commander Ultra

Offers intuitive user interface on the joystick armrest for ease of operator sight and reach.

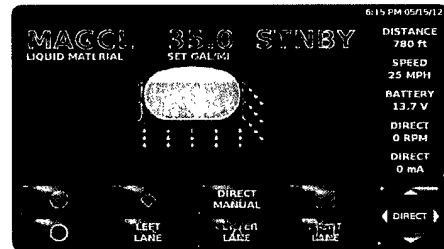
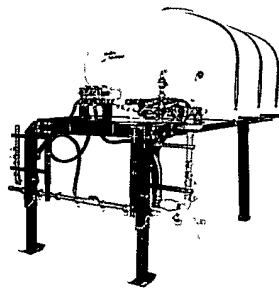


Quality Assurance

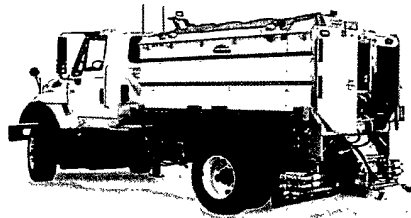
CAN Bus control system is designed for and tested against the harsh environment of winter road maintenance with multiple levels of fault protection.



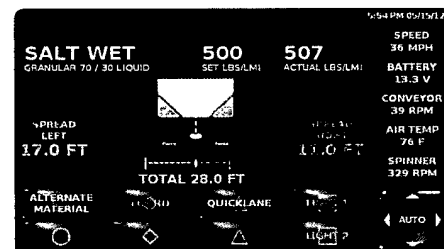
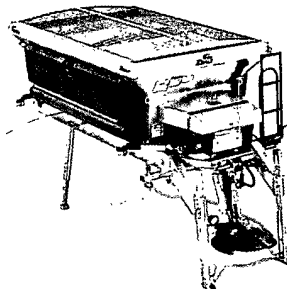
Its visionary design reduces the amount of wiring needed, offering an unmatched ease of use and flexibility. In addition, through the use of ISOBUS connectivity, the single connector system supplies CAN signals and 60A of 12VDC power to equipped spreader bodies and trailer systems. Best of all, the LCD's graphic-rich mode-specific screens allow for easy viewing of comprehensive information.



Multi-Lane Direct Liquid Application When connected to a 3-lane liquid anti-icing system, the display adapts to show live status of spray bar activity and liquid levels in the tank.

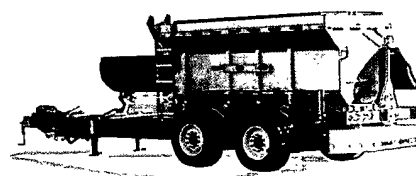


Slurry Application Connect to a granular spreader body with high-flow liquid capability to apply a slurry mixture that hits – and sticks – to the road.



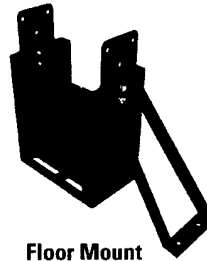
Precision Spread Pattern Control Individually controls the spinner RPM and direction as the system automatically maintains the chosen application rate per lane mile.

The Hi-Way® Xzalt® is a registered trademark of Highway Equipment Company.



Tow Plow Simultaneously drive two closed loop granular and/or liquid spreaders – one on the truck, and one on the tow plow.

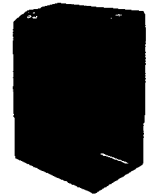
Available Options



Floor Mount



Chair Mount



Switch Panel Mount

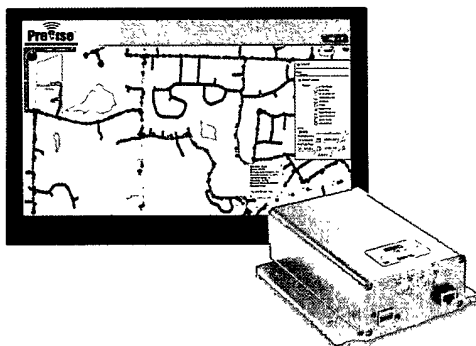
Patrol Commander™ Ultra 6100 Cab Mounting Options

One to Five Joystick Configurations. The popular SSC6100 Patrol Commander Ultra series controller is now available with one to five mini-joystick configurations to meet your specific needs.



Spartan SPJC® CommandAll® Controller

The fully proportional, single-stick control is an integrated spreader control with ergonomic design, allowing one-handed, finger-tip control of all hydraulic functions. Individual mini-joysticks on the handle offer superior control to push-button designs and simultaneous proportional control of today's most popular functions.



PreCise™ Mobile Resource Management

As a part of the FORCE America family, the PreCise MRM solution is integrated deeply with the SSC6100 control system. Accurate material usage reporting, controller error alerts, and vehicle accessory details are all available as a part of a total system approach. PreCise MRM goes beyond AVL/GPS to provide a complete fleet management solution.

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501 East Cliff Road Burnsville, Minnesota 55337 www.forceamerica.com

Service Centers and Sales

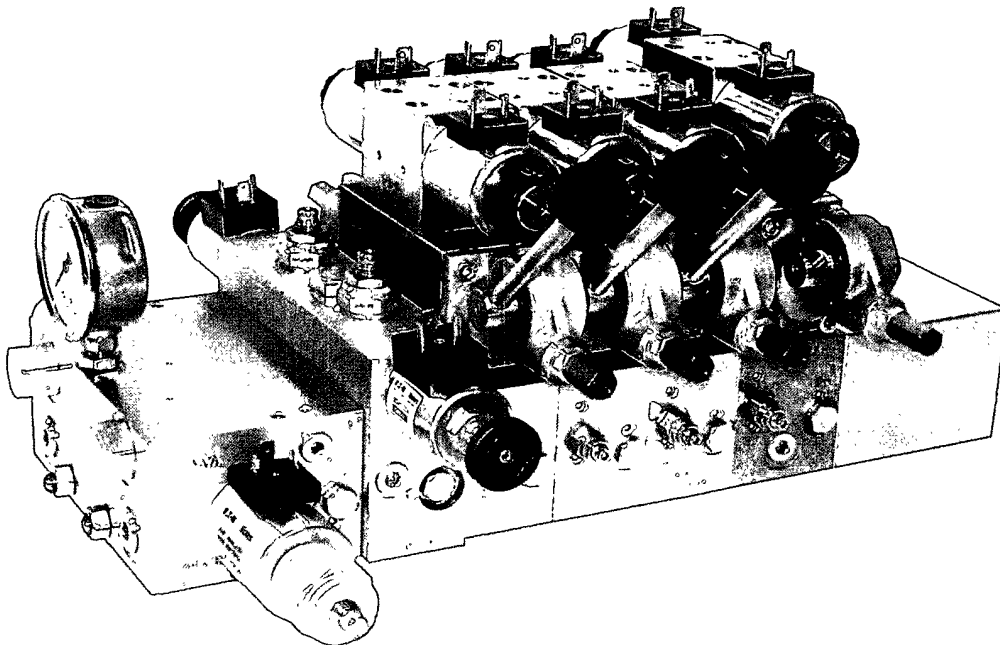
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Charlotte, NC	800-788-8598	Denver, CO	888-833-7711	Minneapolis, MN	800-328-2732
Chicago, IL	800-488-5765	Fort Dodge, IA	800-362-2994	Philadelphia, PA	800-492-6621
Columbus, OH	888-449-0356	Kansas City, MO	800-383-4720	Salt Lake City, UT	877-230-0505

F E A T U R E S

The Add-A-Fold® valve is a multifunctional valve originally designed to control cylinders and motors on truck applications. The enclosure is a cost effective solution to protect the valve from typical corrosion problems of "exposed" valves. A simple rubber latched cover employs a gasketless weather resistant seal design that stops harmful salt spray.

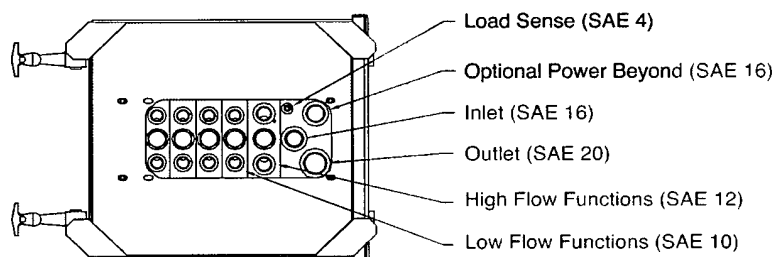
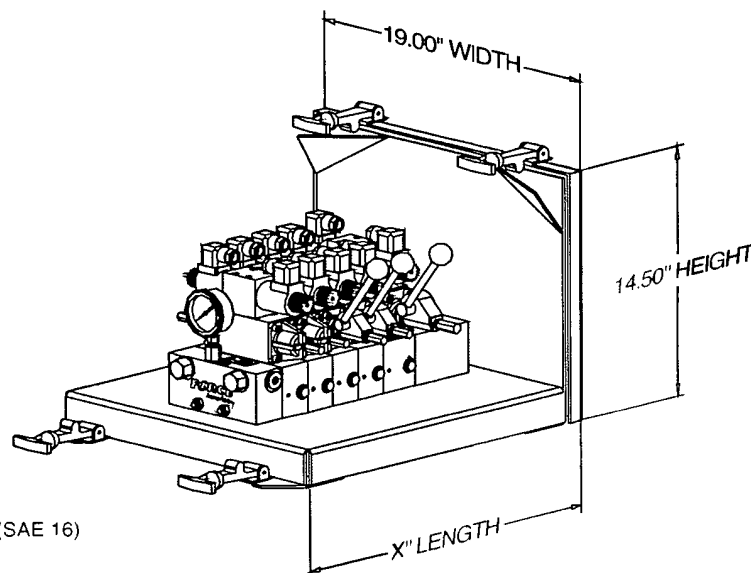
- **Manifold Mounted Valve Sections**
 - Unsurpassed serviceability with bolt-on style valve sections
- **Modular Sub-Base Design**
 - Provides unlimited configurations of valve sizes, including optional pressure compensation and work port reliefs
- **Rack and Pinion Manual Handle Overrides**
 - Assists in troubleshooting and repair, with the added security of a robust manual control
- **Unique Self-Piloted Electric Actuators**
 - Pilot coils use full internal system pressure, no pilot lines, filters, or reducing valves required
- **Gear Pump or Load-Sensing Versions Available**
- **Optional Manifolds**
 - Dual 2-way and zero leak three and four way elements provide enhanced performance
- **Pre-Wired Valve Harnesses**
- **Level Ports All Exit on the Bottom Side**



Installation Information

Dim.	Valve Sections					
	2-3	4-5	6-7	8-9	10-11	12-13
X	16.50	20.50	24.00	27.75	31.50	35.00

All dimensions are approximate.

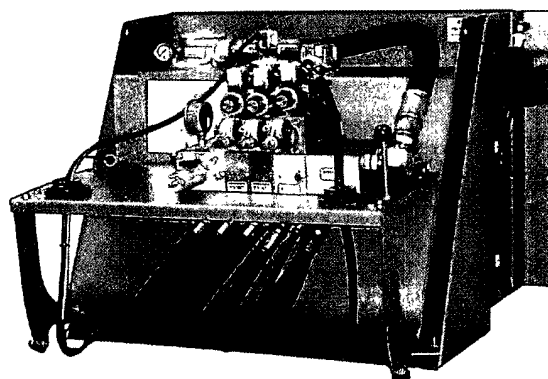


Valve Specifications

Nominal Inlet flow rating.....	50 gpm*
Operating Pressure (maximum)	
Model 30.....	3000 psi
Model 45.....	4500 psi
Temperature Range.....	-40°F to +180°F
Fluid requirement.....	petroleum based 35-1750 ssu
Filtration Requirements.....	ISO 4406 18/14
Seals.....	BUNA-N
Mounting sensitivity.....	none

Electrical Specifications

Rated Voltage.....	12 VDC
Coil resistance (at 68°).....	6.5 ohms
Current.....	2 amps
Power.....	24 watts
Duty cycle.....	100%
Frequency.....	50 Hz pwm
Electrical connector.....	Din 43650A



Add-A-Fold® valves are also available in the VT-35 Valve/Tank assembly. The VT-35 valve tank assembly combines the valve enclosure and tank into one easy to install assembly. All components: tank, valve, filter, filler/breather, sensors, cables, valve fittings, and hose ends are under one rubber latched cover.



501 East Cliff Road
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Part Number: FA502 05/13/12

Sales and Service Centers

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Denver, CO	888-833-7711	Salt Lake City, UT	877-230-0505



Load Sense Piston Pump

FASD - Severe Duty

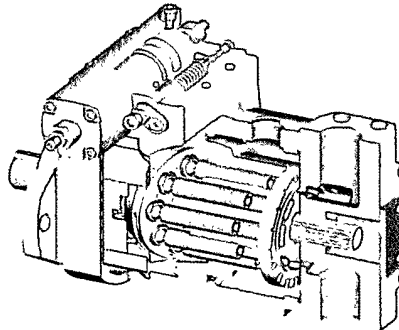
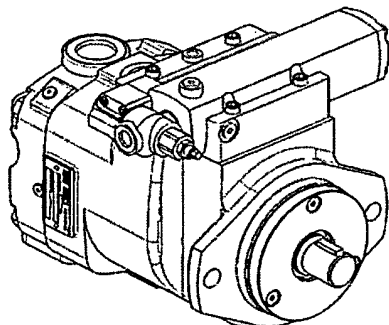
Features

FORCE America
model FASD
variable volume
load sense piston
pumps are
specifically
designed for
severe duty
mobile truck
application

- High flow rates: 34 or 45 GPM (at 1800 RPM) 2400 RPM maximum speed
- High pressure: Intermittent pressure to 4000 PSI
- Severe duty high pressure (2000 PSI) outboard Teflon shaft seal protects pump shaft bearing and seal from external contamination and salt spray
- Special hardening process on all wear surfaces
- Steel piston shoes for proven rotating group design
- O-ring housing seals, no gaskets!

Available Models

FASD34-R	-	4.67 cu/in, right hand rotation, 1-1/4" round keyed shaft, SAE C 2-bolt mount
FASD34-L	-	4.67 cu/in, left hand rotation, 1-1/4" round keyed shaft, SAE C 2-bolt mount
FASD45-R	-	6.00 cu/in, right hand rotation, 1-1/4" round keyed shaft, SAE C 2-bolt mount
FASD45-L	-	6.00 cu/in, left hand rotation, 1-1/4" round keyed shaft, SAE C 2-bolt mount



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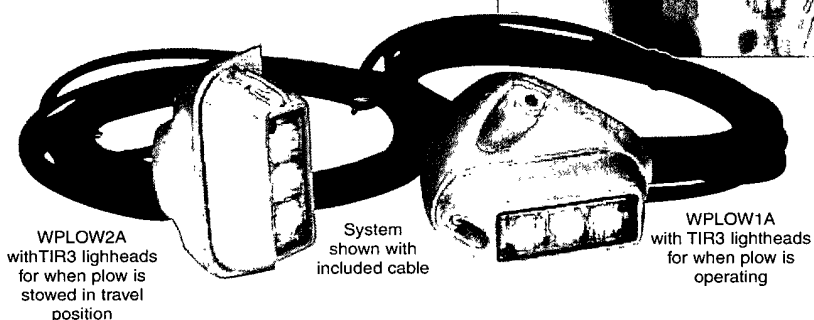
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Wing Plow™ Tip Lighting

SUPER-LED® WARNING SYSTEM FOR SNOWPLOWS

**Put an added measure of safety
on your DOT warning system
with Whelen's Super-LED
snowplow wing tip lights.**

For complete coverage, the two high-intensity Super-LED light system, provides high visibility warning in both the wing plow operating and stowed travel position.



WLOW2A
with TIR3 lighthead
for when plow is
stowed in travel
position

System
shown with
included cable

WLOW1A
with TIR3 lighthead
for when plow is
operating

WLOW3A
Two light system
for complete
protection when
plow is in
operation or
stowed



WLOWZ1A
LINZ6 lighthead
for when plow is
operating

WLOWZ2A
LINZ6 light-
heads for
when plow is
stowed in
travel
position

FEATURES

- Super effective Amber TIR3™ or LINZ6™ Super-LED light modules with individual built-in flashers.
- SAEJ595 & J845 Class 1 Certified.
- LINZ6 lighthead features six Linear Super-LEDs for superior light output.
- Each high impact Super-LED light-head is fully encapsulated in a cast aluminum housing built to take rough working conditions.
- Fully encapsulated housing. Super-LED modules are vibration, water and salt/chemical resistant.
- System includes 20 feet of heavy-duty TPR cabling with built-in strain relief connectors which completes the weather, vibration and salt/chemical resistant package.
- 24 Scan-Lock™ flash patterns plus steady mode.
- 12 VDC.
- Five year HDP® Heavy-Duty Professional warranty.



Whelen Engineering reserves the right to upgrade and improve products without notice.
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NASCAR® is a registered trademark of the National Association for Stock Car Auto Racing, Inc.
Code No. 11545C - 07/13

MODELS

TIR3 Lighthead Models

WLOW1A.....For use when wing plow is operating.

WLOW2A.....For use when wing plow is stowed for travel.

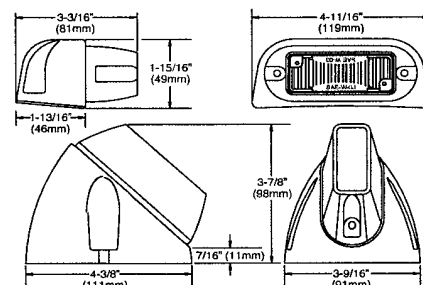
WLOW3AA...Includes one WLOW1A and one WLOW2A for complete coverage.

LINZ6 Lighthead Models

WLOWZ1A ..For use when wing plow is operating.

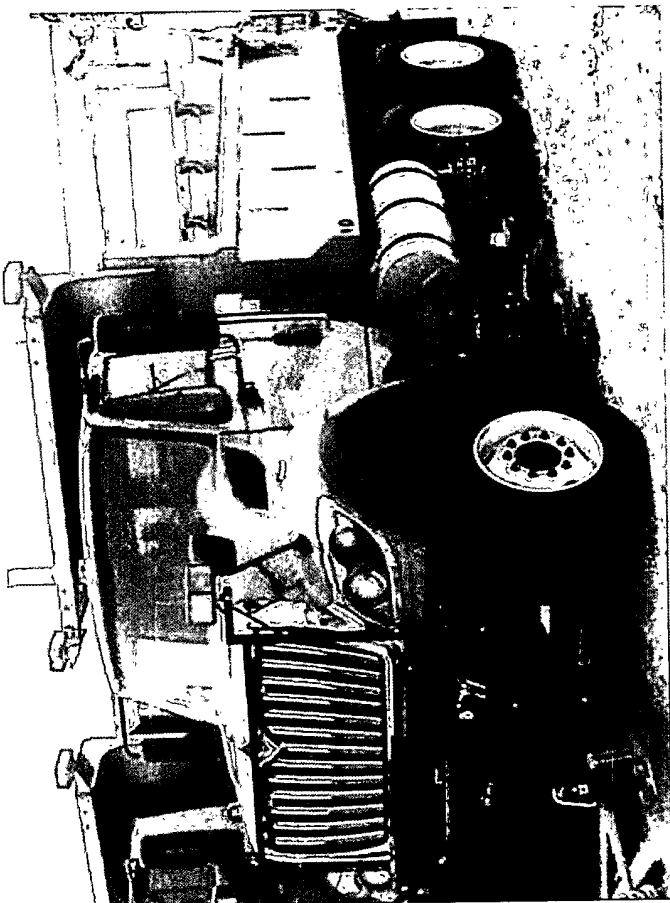
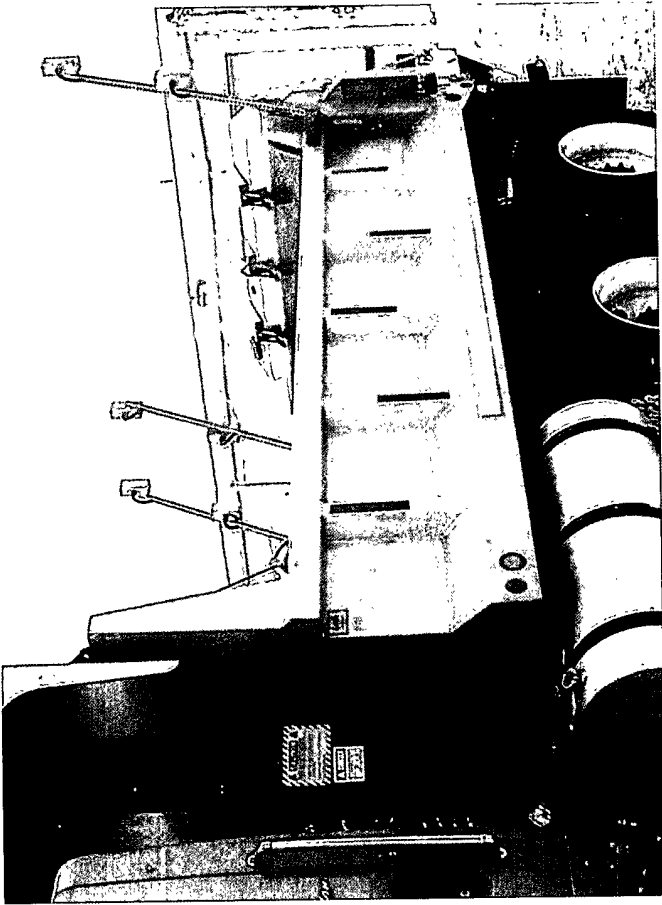
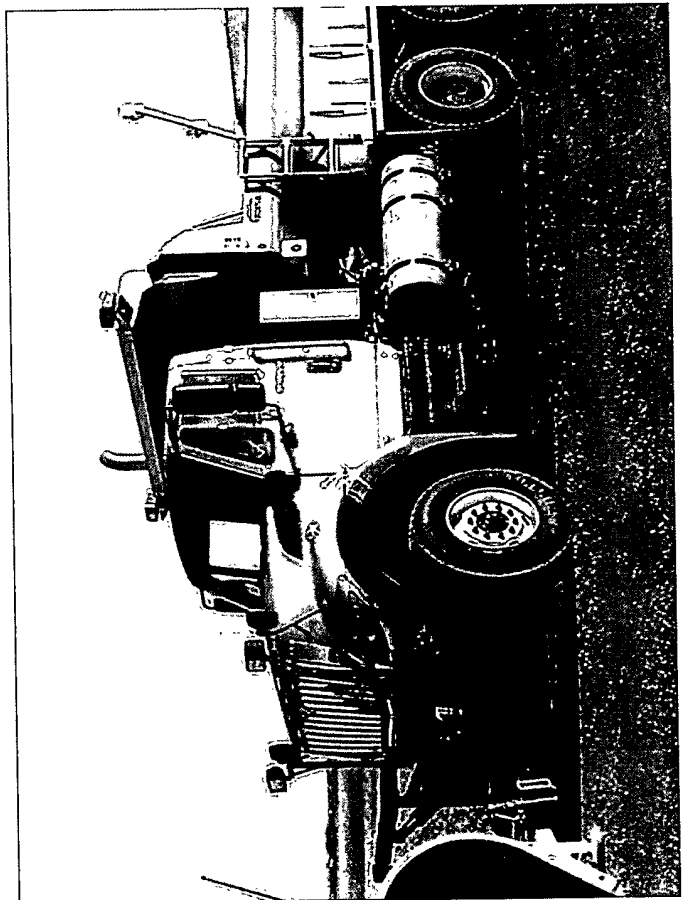
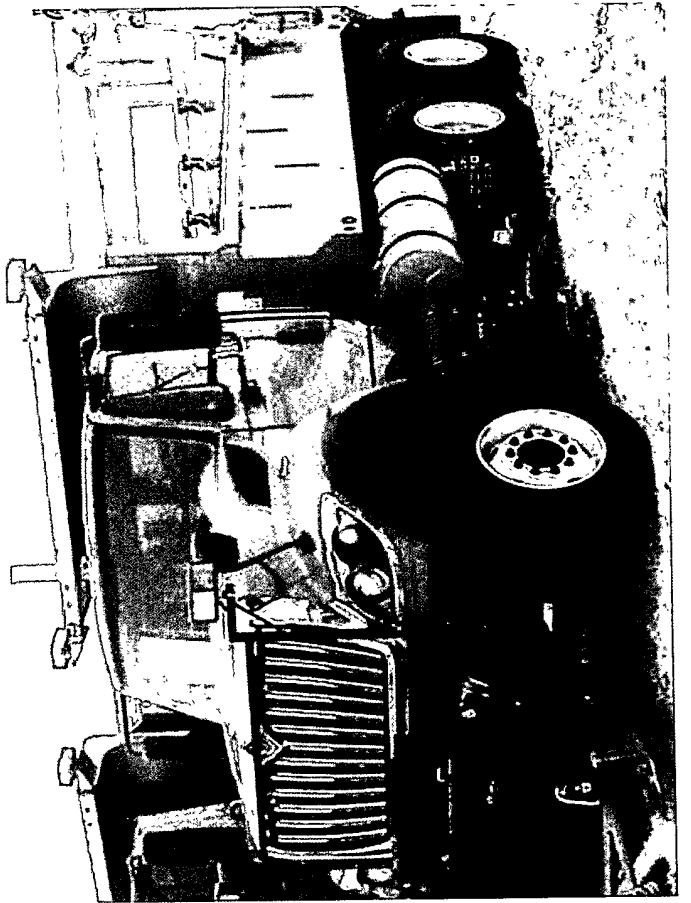
WLOWZ2A ..For use when wing plow is stowed for travel.

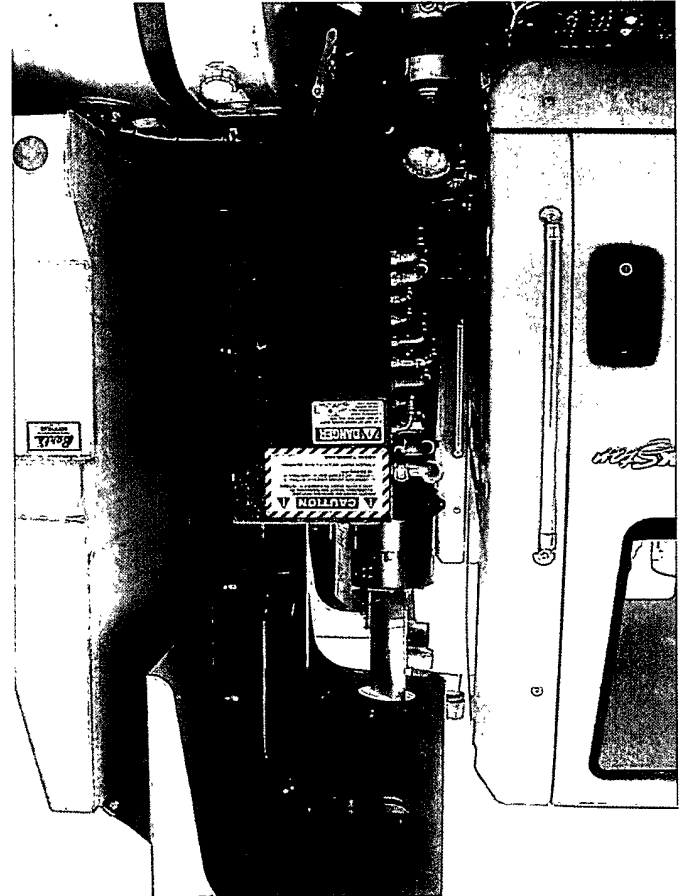
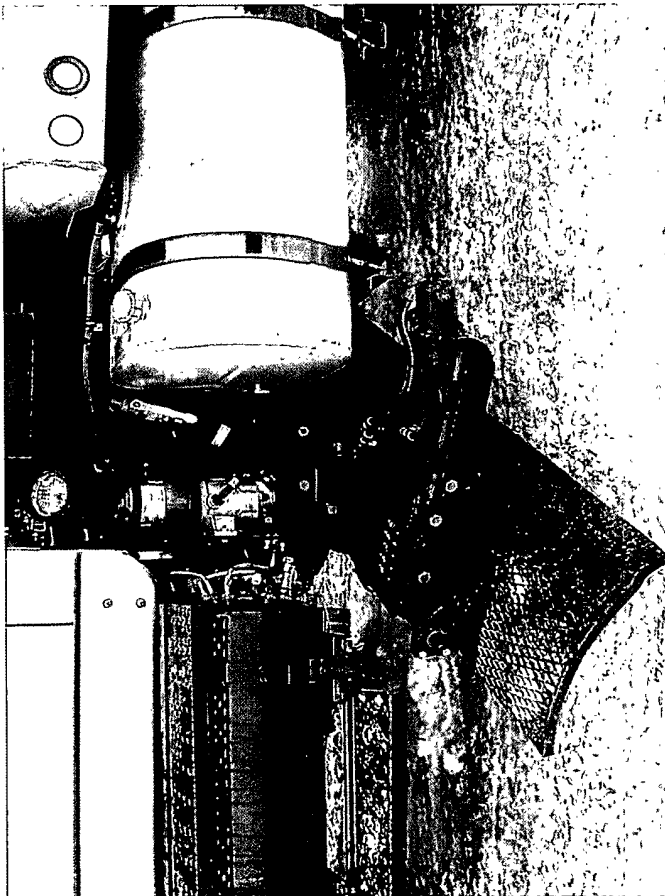
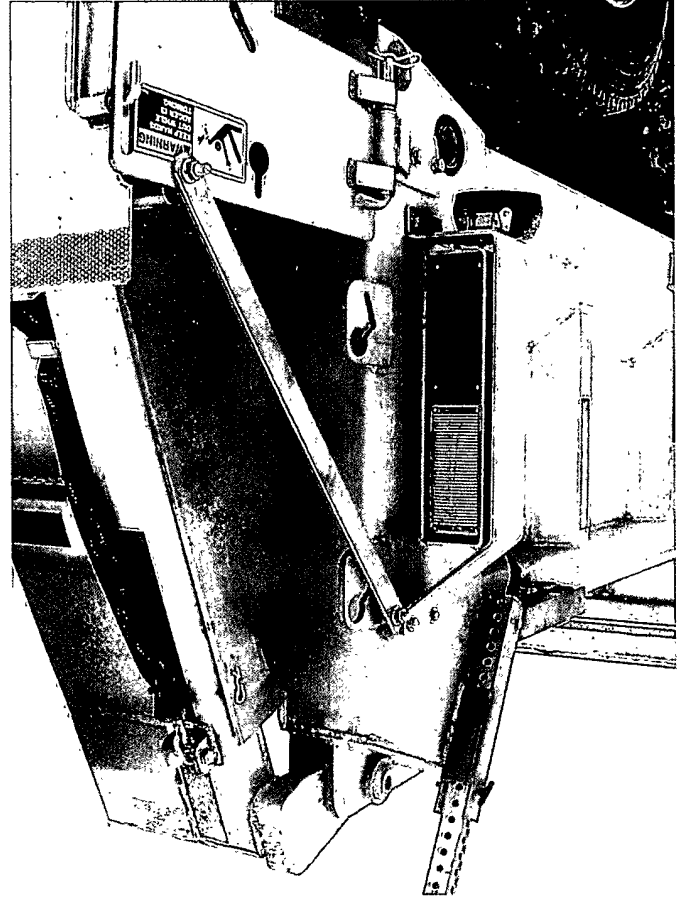
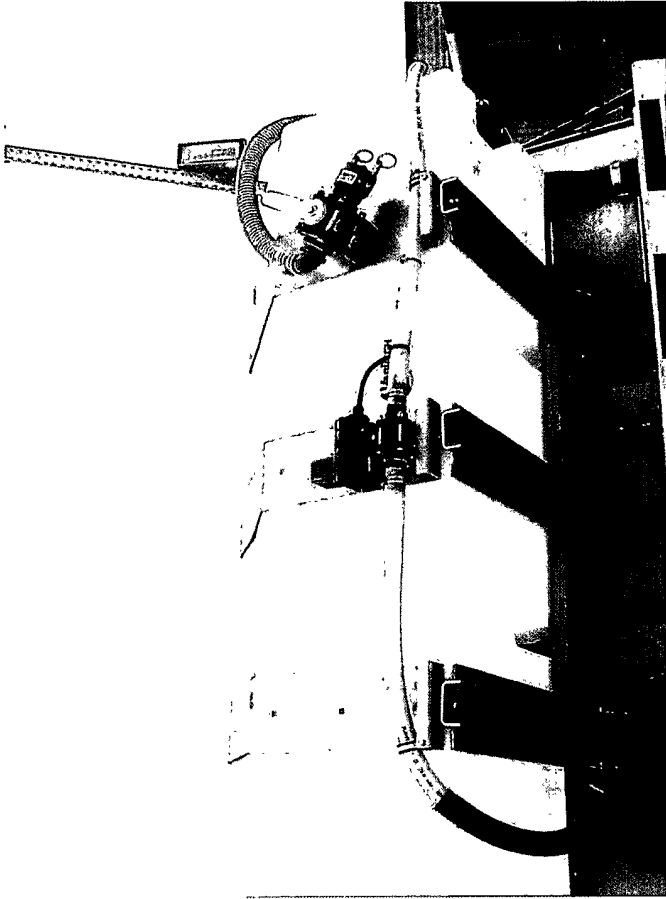
WLOWZ3A ..Includes one WLOWZ1A and one WLOWZ2A for complete coverage.

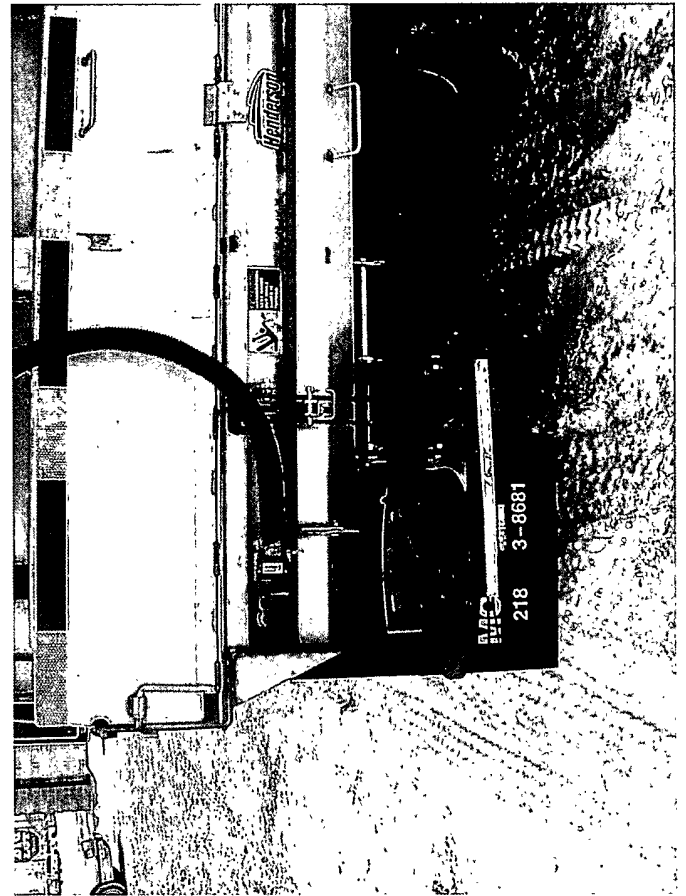
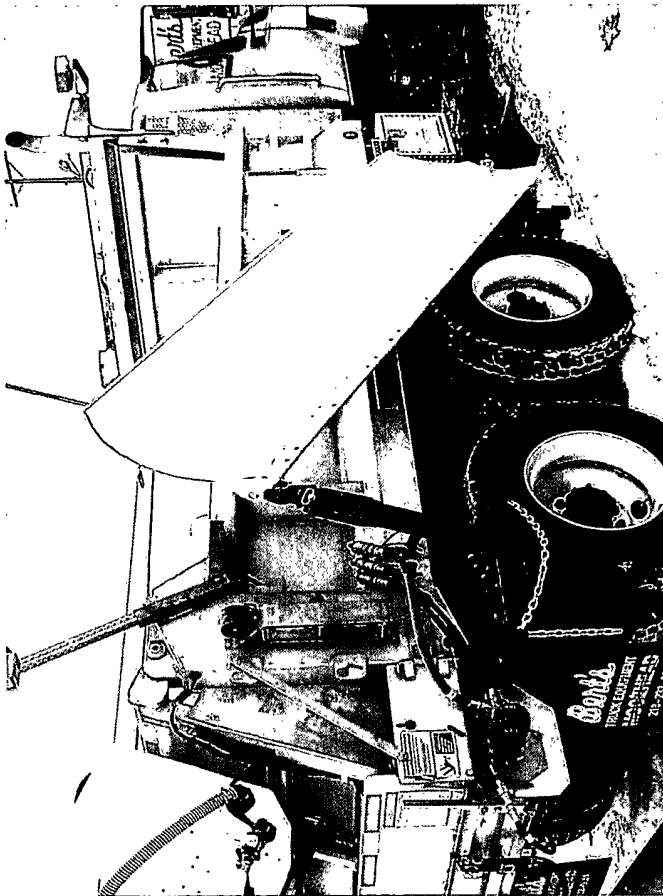
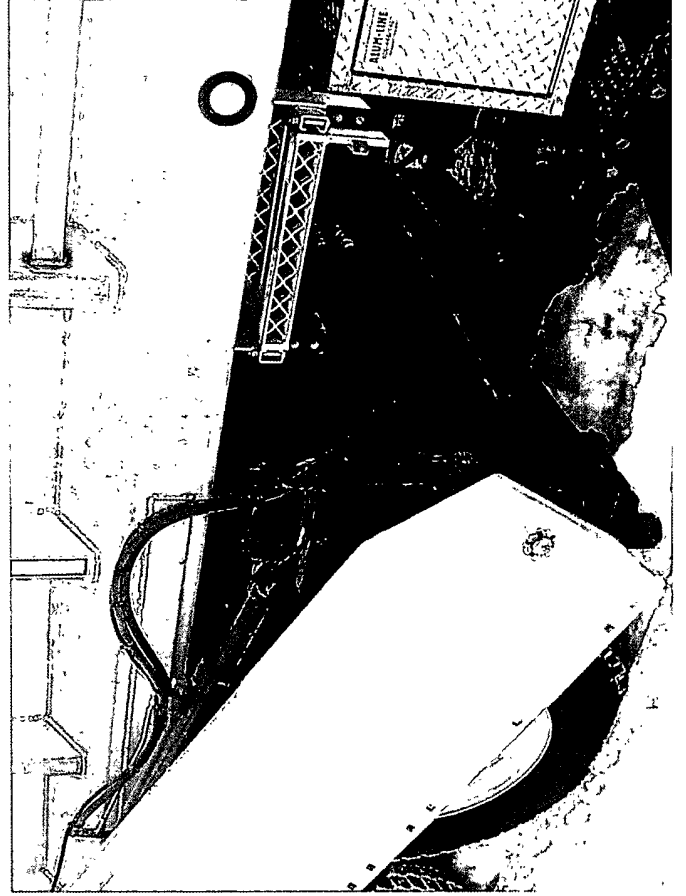
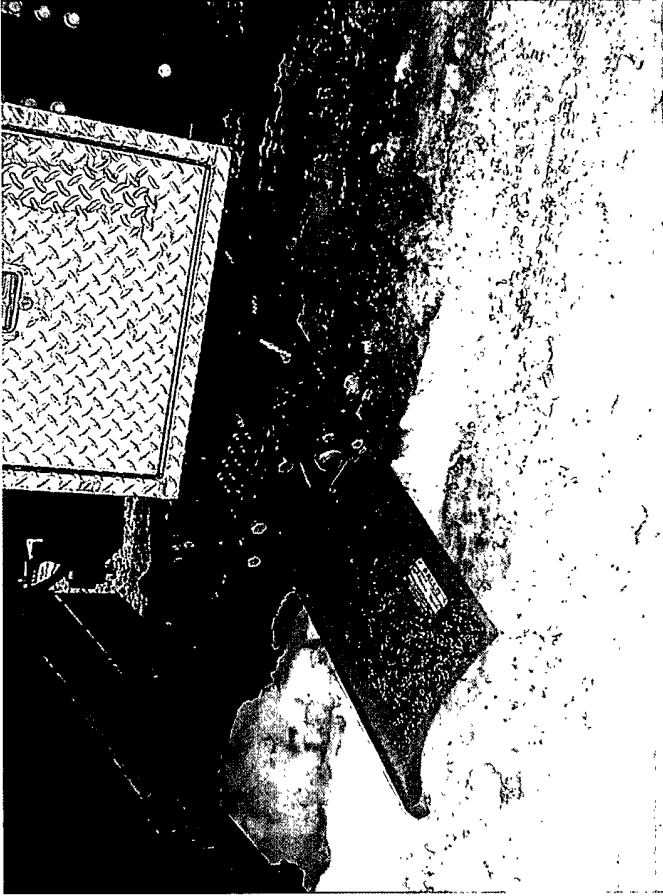


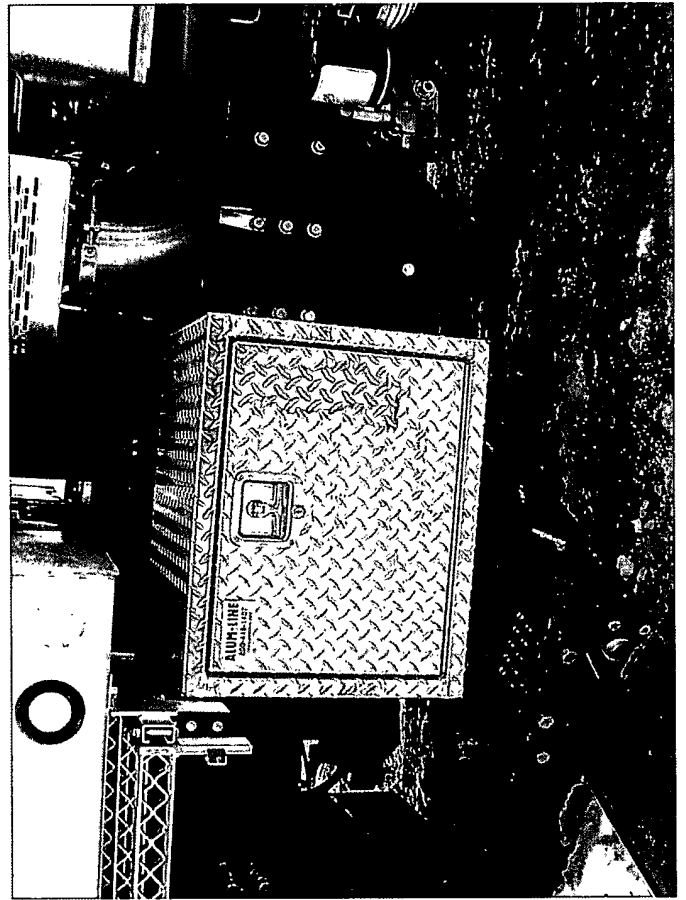
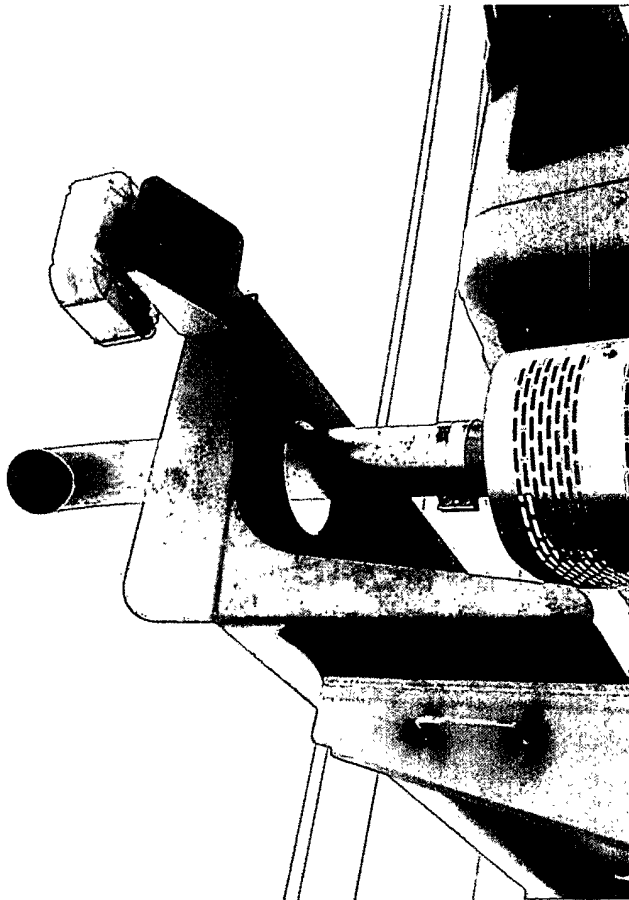
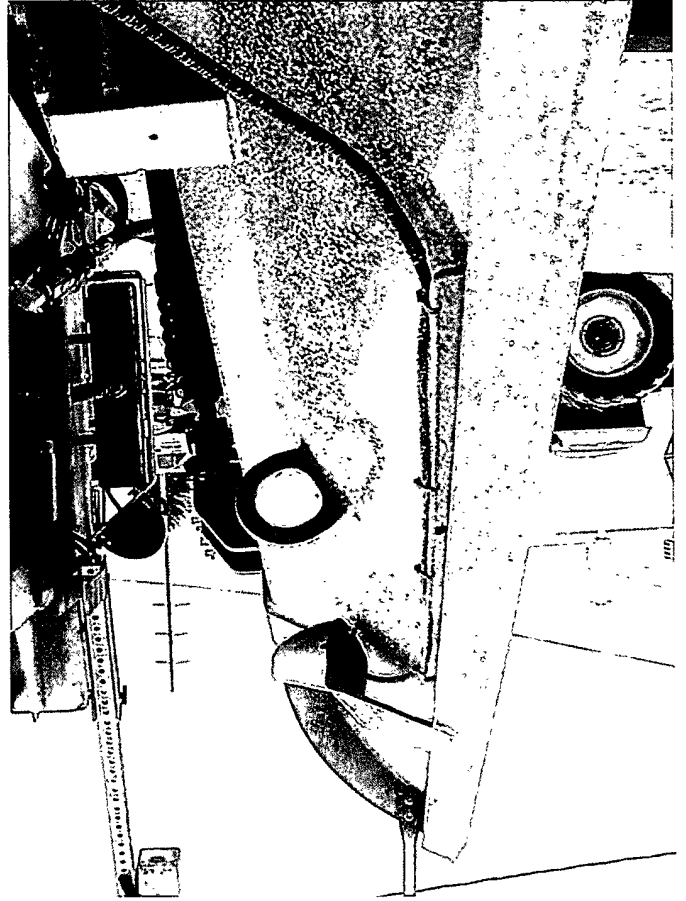
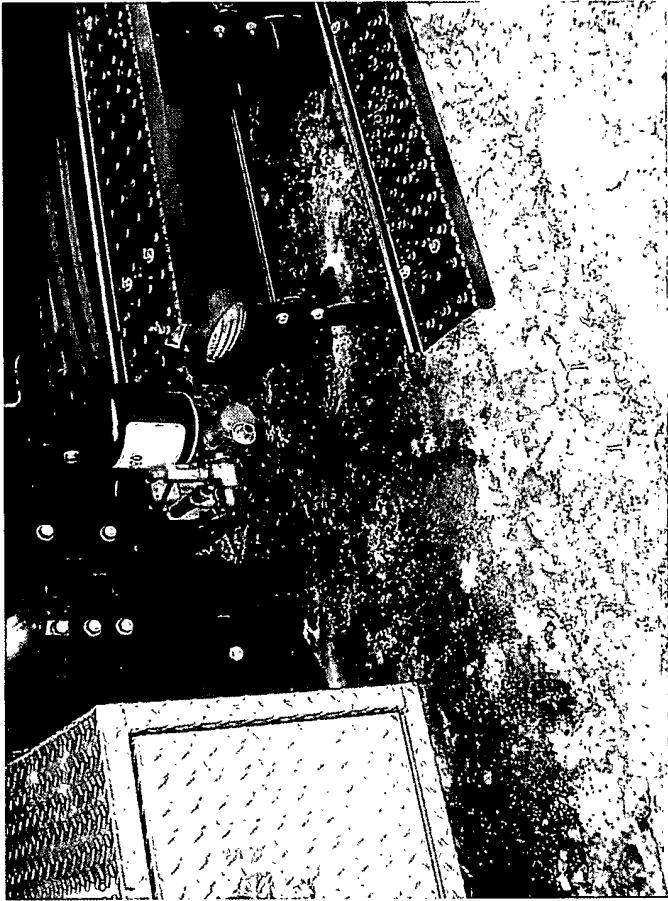
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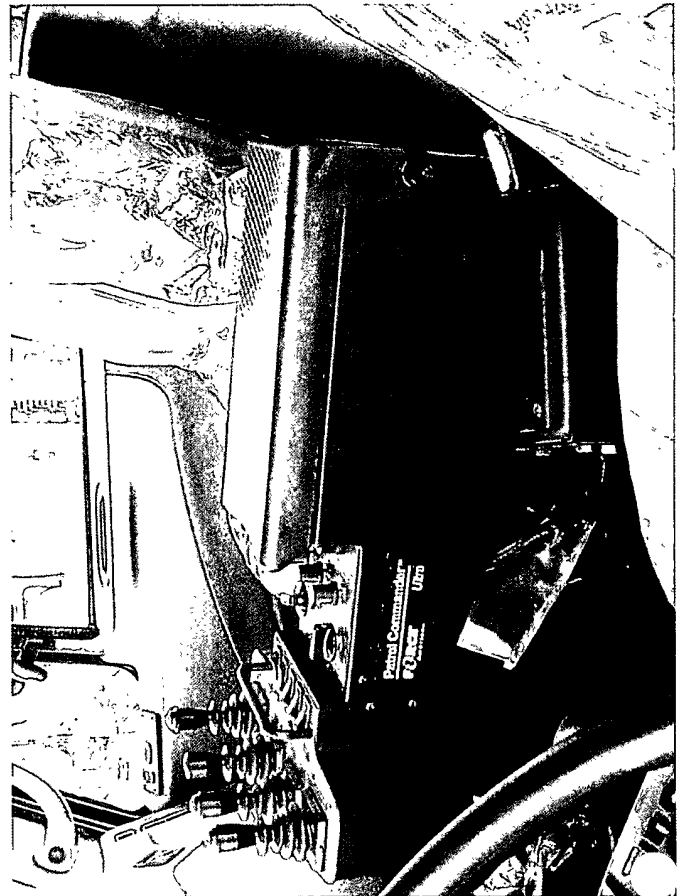
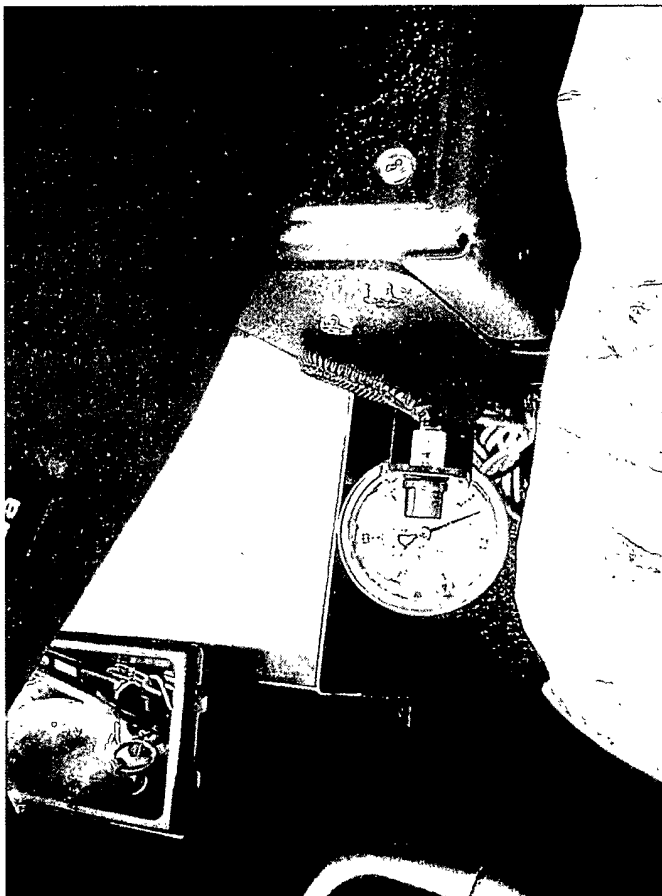
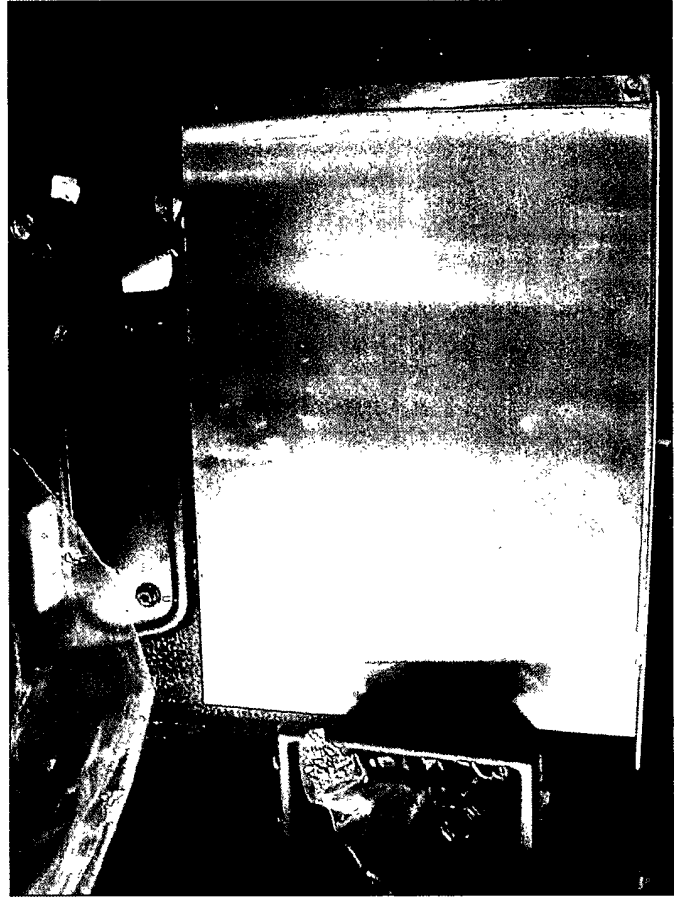
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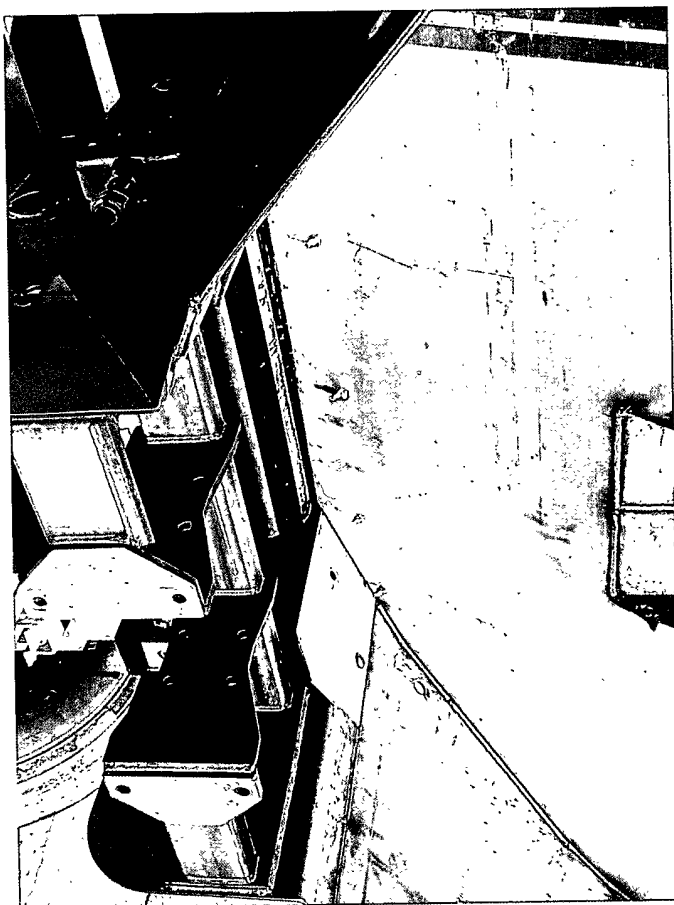
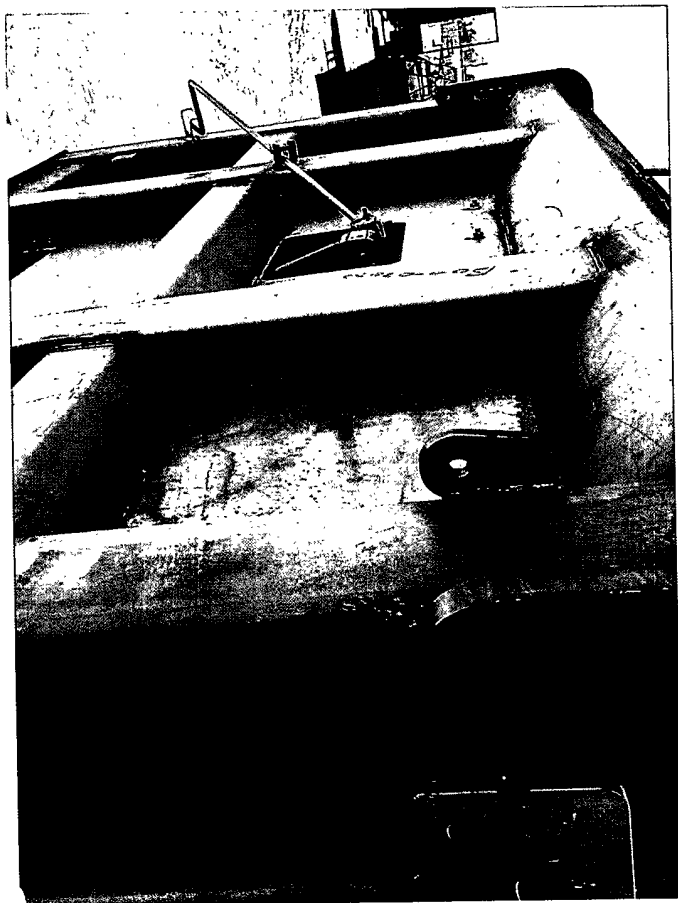


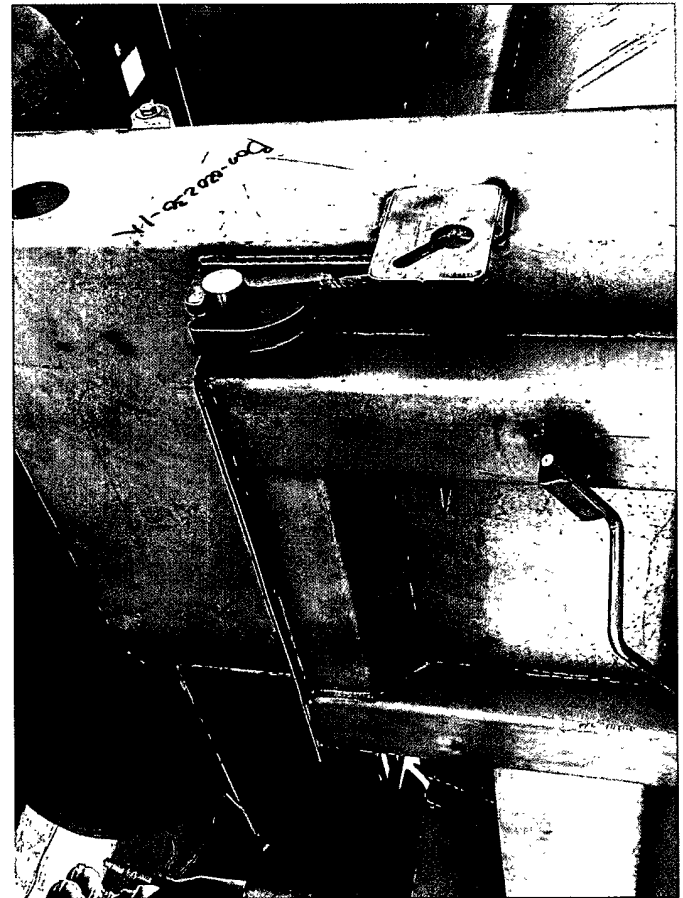
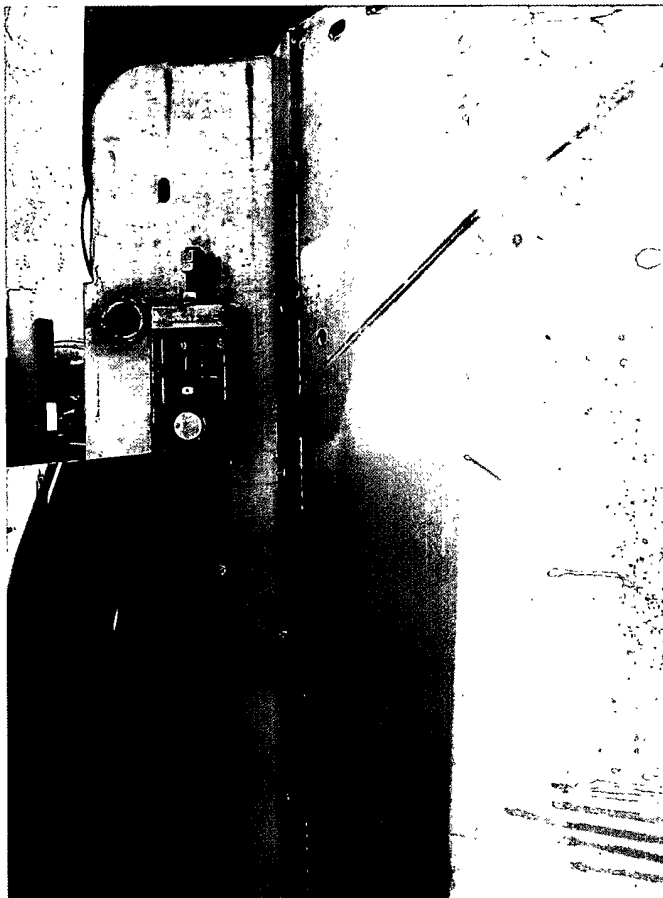
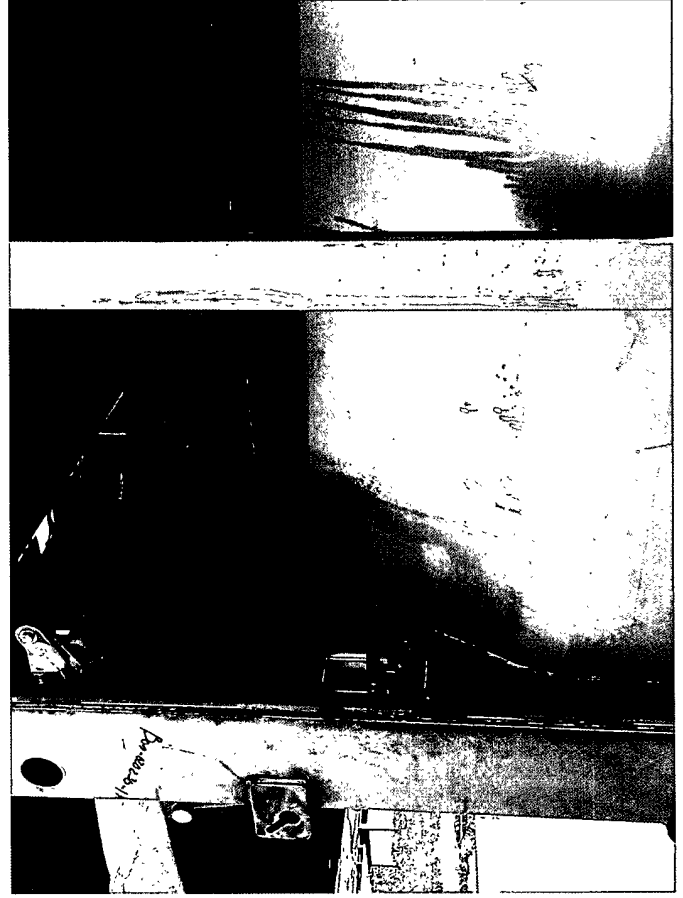
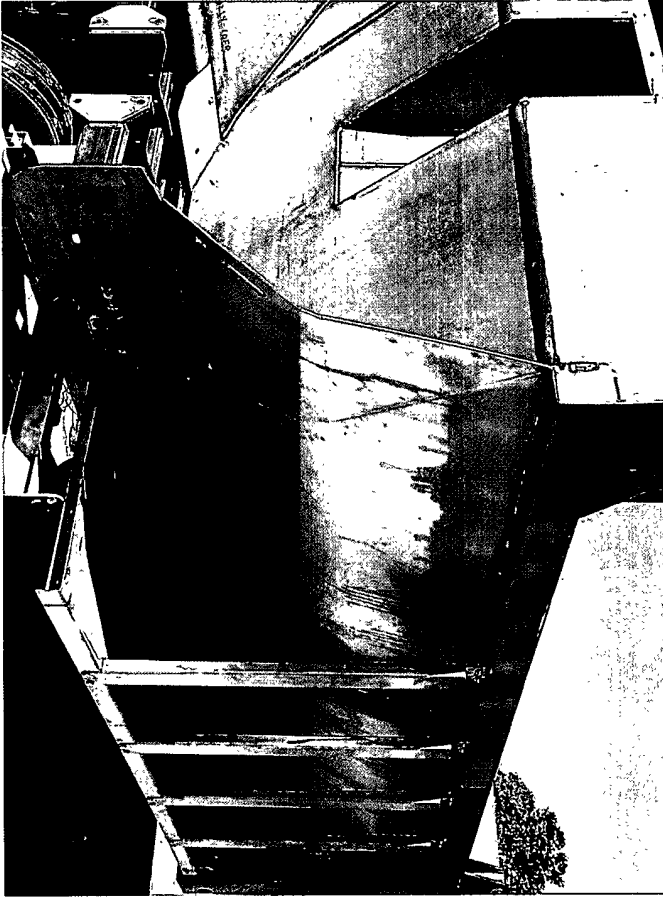


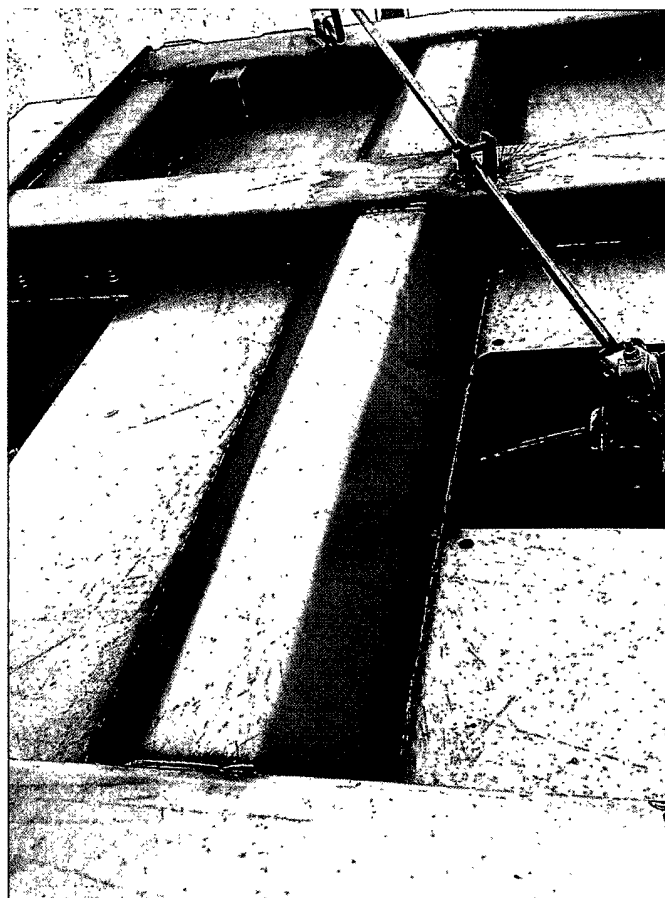
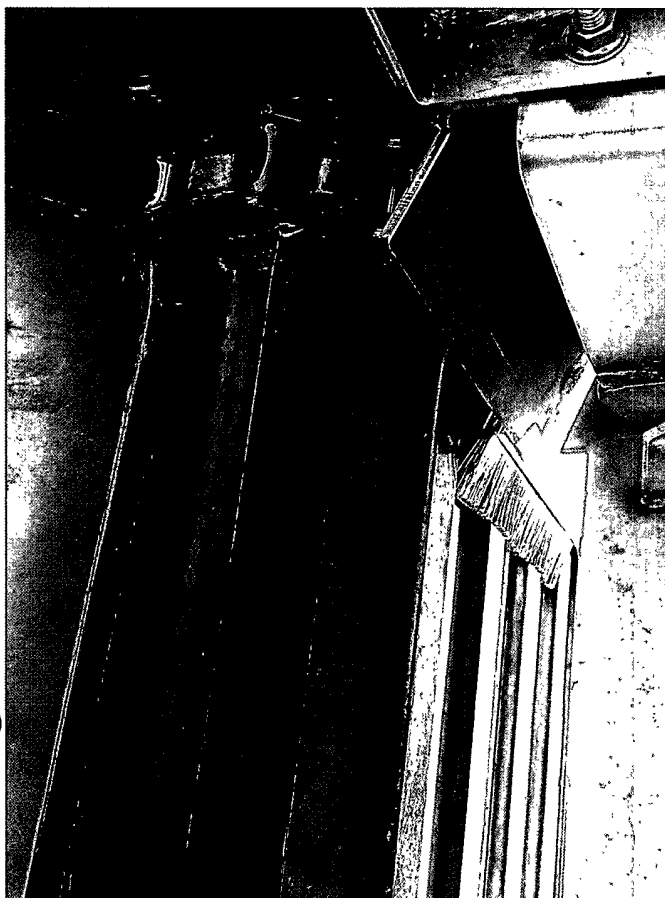
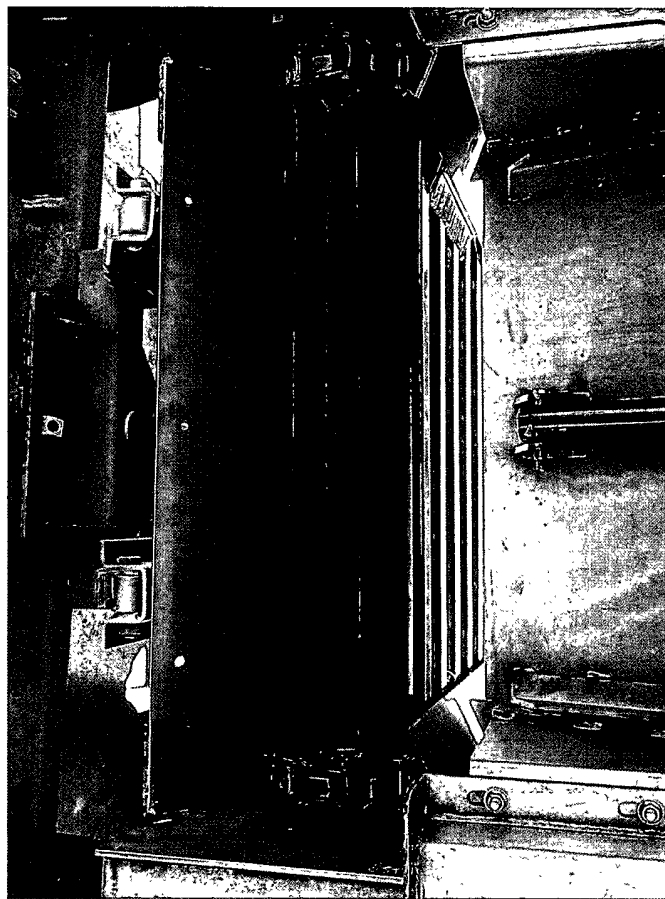
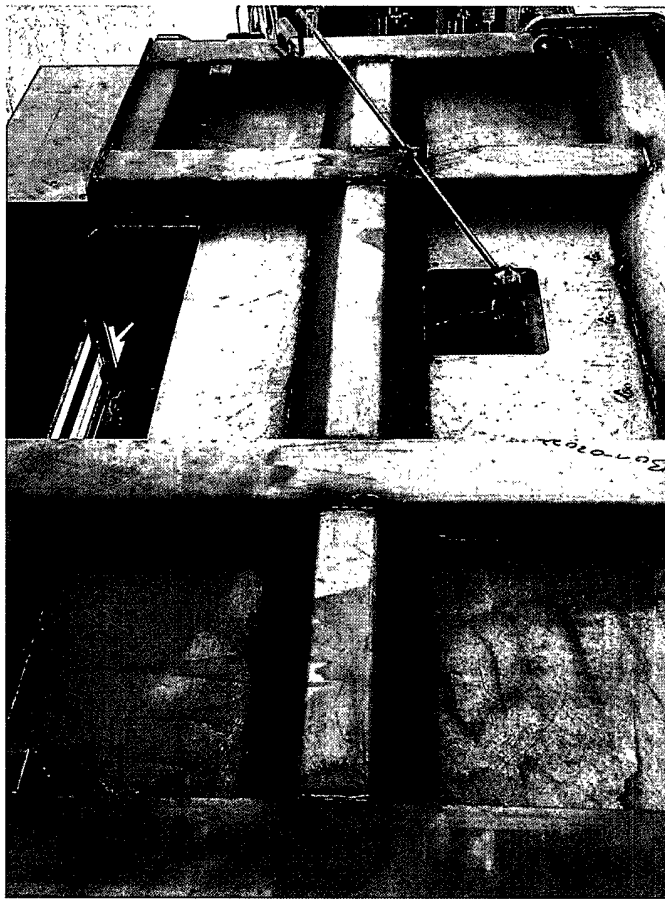












Amendment No. 1

To: ALL INTERESTED SUPPLIERS
From: Vanessa Brosten, Purchasing Agent II
North Dakota Department of Transportation
Date: May 8, 2015
Re: RFP 065-30-15-050, Snow Plow Truck Turnkey Package

Bidders Instruction #11 of the solicitation established a deadline for receipt of questions. The responses to these questions are provided as addenda to the solicitation. The solicitation is amended to include any new information provided in this amendment.

Question 1) Page 5, 8, C, i, specification; Can the pump mounting bracket be fabricated into the cab shield or does it need to be fabricated to the "Frame Rails"

Answer 1) The pump mounting bracket must be mounted to the Frame Rails but supporting bracketry can be attached to cab shield uprights.
No amendment necessary.

Question 2) Page 27, #20 Hoist, c. Specification is asking for 1-15/16" diameter trunnion hoist pin diameter. The Mailhot cylinder we use has 1-7/8" diameter pins. Can spec be changed, or an exception allowed for this NTEA-approved cylinder?

Answer 2) 1 7/8" diameter is acceptable. Change the minimum diameter to 1 7/8".
The bid is hereby amended.

Question 3) Page 55, 1(g), Specification "Anti-slosh baffle built into top of tank at the openings." Need more information as to what this specification is requiring.

Answer 3) Change to read: "Anti-slosh baffle built into top of tank at the opening if opening is greater than 2" diameter.
The bid is hereby amended.

Question 4) Page 55, 1(h), Specification; Fill port with spin on lids and rubber gaskets, or threaded steel cap. High capacity tank does not have an upper fill port due to the narrow cross section of the tank in that area. It has 2" NPT vented caps that work in conjunction with the bottom quick-fill ports. We would like clarification as to what is acceptable.

Answer 4) 2" vented caps are acceptable as long as vent is run to front side of tank on both sides.
The bid is hereby amended.

Question 5) In reference to specific terms and conditions and delivery requirements:
In regards to lead-time/ production one of our manufacturers currently has a product lead-time that ranges from 165-220 days after receipt of order. Will this be acceptable?

Answer 5) Bidders are to provide NDDOT with their timetable. Please submit your timetable and it will be evaluated as part of the evaluation process.
No amendment necessary.

Question 6) Please check the specification "numbering sequence" on all pages. It seems to be off on some pages such as item # 19 on page 27 is out of number sequence, it should be item # 21.

Answer 6) Replace pages 27, 28, and 29 of the specifications with the attached.
The bid is hereby amended.

Question 7) Page 27 and forward, of Specification, the numbered outline bullets are sometimes duplicated and out of sequence.

Answer 7) Replace pages 27, 28, and 29 of the specifications with the attached.
No amendment necessary.

Question 8) What is the estimated delivery date of the truck chassis?

Answer 8) September – October 2015.
No amendment necessary.

Question 9) Specification, Hydraulics: Reservoir on Page 6, item 8-d, it calls out for a 10 gauge SS reservoir with steel straps. On page 18, item 17-d, it calls out for a 10 gauge steel reservoir and steel straps. Are the tanks and support straps to be of SS or carbon steel?

Answer 9) Page 6, Item 8, d and Page 18, Item 17, d; Hydraulic Reservoir and straps are to be constructed of stainless steel.
The bid is hereby amended.

Question 10) Specification, Snow Plow Hitch: In ref to item # 13-e, on page 15, a 4" x 10" single acting lift cylinder with chrome rod is called out. Is this cylinder with a "nitride rod" in lieu of the chrome rod acceptable?

Answer 10) Change #13 e on page 15 and # 22, e on page 28 to read:
Hydraulic plow lift cylinder shall be minimum 4" x 10" single acting type with chrome-plated or nitride rod.
Hydraulic cylinder shall be certified to a minimum of twice (2X) the pressure (2250PSI) of the hydraulic system.
The bid is hereby amended.

Question 11) Specification, RDS Body & related items:

Ref to items 18-a on page 22 thru 18-q (iv) on page on page 25, where the term "SS" is used in regards to the fabrication of the unit, is 201SS acceptable?

Answer 11) Reference page 5, paragraph 2, sentence 2 of specifications. All stainless steel components to be made of 201 or 304 grade.
No amendment necessary.

Question 12) Specification, Ref to item 18-h on page 23, are the up-right channels as well as the horizontal support channels of the free standing cab-shield to be of carbon steel or SS ? If it is to be the SS is a "formed channel" acceptable?

Answer 12) Carbon steel is acceptable for cab guard framework.
No amendment necessary.

Question 13) Specification, Ref to item 18-l on page 24, ref to the top and bottom hinge pins, it is recommended to use 1.25" diameter pins in lieu of the 1 inch as stated in the specifications.

Answer 13) Exceeding specifications is acceptable.
No amendment necessary.

Question 14) Specification, Ref to item 18-o (iv) on page 24, It is recommended the SS adjuster bolt be specified as an 1.25" minimum diameter.

Answer 14) Adjuster bolt diameter not specified.
No amendment necessary.

Question 15) Specification, 11 foot Underbody Scraper:

The Monroe 3500-11 "series" scraper is mentioned in the specifications as being acceptable. The 3500 series scraper has since been replaced with a now named "4500 Series" unit. This is a very similar unit to the 3500 Series but with the following improvements:

Nitride cylinders have been replaced with the "Socotri 1000 Cylinder Rods". The Socotri rod is far more corrosive resistant than either the Chrome or Nitride cylinder rod. It is widely used in the oil & gas industry as well in the military, aerospace & off-shore/marine industries.

The 5" center pin is "piloted" into the hanger-board to increase effective surface area to relieve "side shear" on the pilot bushing.

For increased strength, the "hold-down blocks" are now contoured to match the radius of the circle.

"Bolt-on" Trunion Pins at the Canister Pivot Points are now "standard", providing for ease of maintenance and an easier replacement.

The improvements as listed above for the "replacement" 4500 Series Scraper meet (or exceed) all of the specification requirements of the North Dakota Underbody specifications.

Answer 15) Please provide product information upon submitting bid.
No amendment necessary.

Question 16) Specification, Under Tailgate Spreader:

Ref to the Tailgate Spreader on page 49, the N.D. specifications call out for the unit to be fabricated in 304SS. Would this unit fabricated in the 201SS in lieu of the 304SS be acceptable?

Answer 16) 201SS will be acceptable. Change specifications for SSP-95-2400-4 to read "stainless steel" in place of "304 stainless steel".
The bid is hereby amended.

Question 17) Specification, Liquid Pre-wet:

Item 1-g on page 55 refers to tanks with "anti-slosh" built into the tanks. Our 270 gallon tank is equipped with 2" NPT lids and also is "vented" to a higher point of the body preventing spillage. Is this acceptable?

Answer 17) Yes. This meets minimum specification.
No amendment necessary.

Question 18 a) Item 2-b on page 55, specification, "hardware" calls out the 304SS. Is the 201SS acceptable?

Question 18 b) Item 2-b on page 60, specification, "hardware" calls out the 304SS. Is the 201SS acceptable?

Answer 18) 201SS will be allowed in lieu of 304SS. Please amend items 2b on pages 55 and 60 of specification to read "#304 or #201 stainless steel".
The bid is hereby amended.

Question 19) Page 34 on Options Pricing page of the RFP, there are two options listed as item #9. Would NDDOT please re-number these options to correctly identify each individually?

Answer 19) Replace page 34 of 37 of the RFP document with the attached.
The bid is hereby amended.

Question 20) Page 34 on Options Pricing page of the RFP, #11, Mounting/hardware for dual wing. Would NDDOT please clarify this option? Are you looking for pricing for installation and hardware plus the additional wing to make this a true dual wing option?

Answer 20) This cost is any additional cost of mounting hardware only to install dual wings. The price of wing is already included in Option #1.
No amendment necessary.

Question 21) Henderson is listed as approved model for the Underbody Scraper and Wing. If we have any deviations from the way the NDDOT specifications are written do we need to document the difference on the compliance sheets or can we indicate 'yes' comply since we are approved model?

Answer 21) Henderson models are pre-approved but deviations from minimum spec must be identified so changes in specifications or product can be addressed.
No amendment necessary.

Question 22) Should the switch read be Enable instead of Disable?

Answer 22) Replace all switches labeled "Disable" to "Enable".
The bid is hereby amended.

THE BID IS AMENDED AS FOLLOWS. PLEASE MAKE THE FOLLOWING CHANGES

Change 1) Change: Page 6, #8, d, sentence 3 **and** Page 18, #17, d, sentence to read:
Tank to be secured down by stainless steel straps.

Change 2) Change: Page 6, d, i **and** Page 18, d, I to read:
Basket type filler breather cap shall be a Zinga FB=10-40-0-00-0N-E or approved equal.

Change 3) Change Page 6, d, iv **and** Page 18, d, iv to read:
Separate return port for Case Drain.

Change 4) Change Page 6, d, viii, sentence 4 **and** Page 18, d, viii, sentence 4 to read:
Zinga TS-1600-25-1-0/ZSRE-490-10-E or approved equal.

Change 5) Change Page 7, e, viii **and** Page 19, e, viii; Auger, proportional, 2-way with minimum flow rate of 21 GPM, adjustable work port relief to read:
Auger, proportional, 3-way with minimum flow rate of 21 GPM, adjustable work port relief.

Change 6) Change Sentence 2, Page 7, f, iv **and** Page 19, f, iv to read:
Force America kit "6100-ROADTEMP-SENSOR unit shall include...

Change 7) Change Page 8, f, 9, **and** Page 20, f, 9 to read:
Multi-lane direct liquid.

Change 8) Change Page 8, h, i **and** Page 20, h, i, to read:
All wiring shall have CAN bus connectors to connect the control panel and to valve enclosure. All wiring inside the valve enclosure shall have LED lights to indicate which valves are operating when function is required. All wiring inside of the enclosure shall be connected to the CAN bus connector to facilitate proper connection between the inside of the box and the outside of the box.

Change 9) Change Page 9, j, iii (1)(d) **and** Page 21, j, iii (1)(d).
Change liquid switch label to read "Auxiliary".

Change 10) Change Page 9 , j, iii (2) **and** Page 21, j, iii, (2) to read:

Indicator lights for Body Up, Oil Level, Oil Temp, Low Filter Bypass, and High Filter Bypass. A Red Warning Message will be displayed on the 7" Color LCD screen when activated, Audible alarms shall be disabled.

Vendors are instructed to acknowledge receipt of and compliance with this amendment by signing below and returning this acknowledgement with your bid or proposal.

Any questions regarding this amendment must be submitted in writing to the undersigned Procurement Officer.

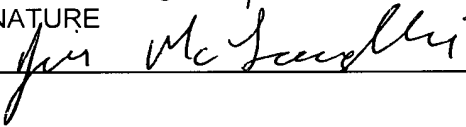
Vanessa Brosten, Procurement Officer

PHONE: 701-328-4466

FAX: 701-328-0310

E-MAIL: vbrosten@nd.gov

By my signature below, I hereby acknowledge receipt of and compliance with this amendment to the above referenced solicitation.

PRINTED NAME OF BIDDER OR OFFEROR <u>and</u> TITLE	
Jim McLaughlin, Bert's Truck Equipment, Fleet Sales	
SIGNATURE	DATE
	5-18-15

Amendment No. 2

To: ALL INTERESTED SUPPLIERS
From: Vanessa Brosten, Purchasing Agent II
North Dakota Department of Transportation
Date: May 11, 2015
Re: RFP 065-30-15-050, Snow Plow Turnkey Package

Bidders Instruction #11 of the solicitation established a deadline for receipt of questions. The responses to these questions are provided as addenda to the solicitation. The solicitation is amended to include any new information provided in this amendment.

Question 1) In reference to Page 14, 11b (ii); Is a chrome cylinder acceptable?

Answer 1) Yes. Please change the sentence to read:

"Melonized or chrome cylinder rod surfaces with a predominance of single-phase epsilon nitride to cover entire surface".

The bid is hereby amended.

Vendors are instructed to acknowledge receipt of and compliance with this amendment by signing below and returning this acknowledgement with your bid or proposal.

Any questions regarding this amendment must be submitted in writing to the undersigned Procurement Officer.

Vanessa Brosten, Procurement Officer
PHONE: 701-328-4466
FAX: 701-328-0310
E-MAIL: vbrosten@nd.gov

By my signature below, I hereby acknowledge receipt of and compliance with this amendment to the above referenced solicitation.

PRINTED NAME OF BIDDER OR OFFEROR and TITLE <i>Bert's Truck Equipment, Jim McLaughlin, Fleet Sales</i>	
SIGNATURE <i>Jim McLaughlin</i>	DATE <i>5-18-15</i>

Receipt of the following addenda to the RFP, by date, is acknowledged:

<u>Addendum # 1</u>	<u>5-8-15</u>
<u>Addendum # 2</u>	<u>5-11-15</u>

SIGNED: Jeremy K. Gregoire

FULL NAME: Jeremy K. Gregoire
(Please Print)

TITLE: President

FIRM NAME: Bert's Truck Equipment of Moorhead, Inc

FIRM ADDRESS: Po Box 336 - Moorhead, MN 56561-0336

FIRM PHONE NUMBER: 218-233-8681 FIRM FAX NUMBER: 218-233-9548

EMAIL ADDRESS: Jeremy @ berts online. com

Proposals must remain open and valid for at least 90 DAYS from the deadline specified for submission of proposals. Proposals may be withdrawn at any time prior to proposal opening date.

The signatory agrees that the NDDOT has the right to reject any or all proposals for any reason.



TRUCK EQUIPMENT

"Celebrating 76 years 1939-2015"

May 18th, 2015

Vanessa Brosten
North Dakota State Fleet
608 East Boulevard Avenue
Bismarck, ND 58505-0700

Dear Vanessa:

Bert's Truck Equipment is pleased to submit the following **"Cost Proposal"** for the for the State of North Dakota "Turnkey Snow Plow Truck Equipment" for your 2015 and 2016 calendar year.

For the past 76 years, Bert's Truck Equipment has provided our customers with the highest quality equipment backed by years of professional installations. Because we have been building "turnkey" plow trucks for over 27 years, we have an in-depth knowledge and understanding of the upcoming project, and the highly skilled staff to meet the states expectations and requirements.

Bert's Truck Equipment is proud to be a certified **"MVP"** equipment provider and installer as recognized by the National Truck Equipment Association.

Please feel free to contact me if you have any questions or concerns regarding our proposals. We look forward to serving the North Dakota Department of Transportation's equipment needs!

Sincerely

Jim McLaughlin
Commercial, Fleet, and Government Sales

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com

ATTACHMENT 4

Proposal Response Sheets– Next 4 Pages

Instructions: ONE (1) completed set of cost proposal response sheets is to be submitted in a separate sealed envelope or package, clearly labeled "cost proposal."

Proposals must be signed by a company officer empowered to bind the company. An offeror's failure to include these items in the proposals may cause the proposal to be determined to be non-responsive and the proposal may be rejected.

**RFP Number: 065-30-15-030
Proposal Response Sheets**

TURNKEY PACKAGE ITEM #1

Purchase price and labor to install 14' dump & spreader box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear-mount snow wing and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2ADSUBW SSP-01	14' dump & spreader box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$ 76,953 ⁰⁰
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$ 10,409 ⁰⁰
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$ 10,807 ⁰⁰
SSP-95-5700-4	400 gallon hopper pre-wet system furnished and installed.	\$ 4075 ⁰⁰
Total package price each.		\$ 102,248 ⁰⁰
Package price x 17 = Total Contract Price for Package #1		\$ 1,738,148 ⁰⁰

TURNKEY PACKAGE ITEM #2

Purchase price and labor to install 14' dump box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear mount snow wing, tailgate sander, box vibrator, and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2AUBW SSP-01	14' dump box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$ 63,399 ⁰⁰
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$ 10,409 ⁰⁰
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$ 10,807 ⁰⁰
SSP-95-2400-4	Tailgate sander furnished and installed.	\$ 4,799 ⁰⁰
SSP-95-5700-10	150 gallon tailgate pre-wet system furnished and installed.	\$ 3,945 ⁰⁰
Box vibrator, Cougar model DC-3200, Tend Air model RV-3500 or approved equal, furnished and installed as per manufacturer's instructions with mounting and location to be approved by NDDOT.		\$ 870 ⁰⁰
Total package price.		\$ 94,229 ⁰⁰
Package price x 17 = Total Contract Price for Package #2		\$ 1,601,893 ⁰⁰

Truck Delivery Charges Per Unit for the Following Destinations:

Bismarck - \$ 270⁰⁰
Valley City - \$ 90⁰⁰
Devils Lake - \$ 230⁰⁰
Minot - \$ 360⁰⁰

Dickinson - \$ 390⁰⁰
Grand Forks - \$ 100⁰⁰
Williston - \$ 525⁰⁰

Fargo - \$ - 0 -

PROPOSED DELIVERY TIME FOR 17 UNITS IN 2015: 108 DAYS (AFTER RECEIPT OF CHASSIS)

PROPOSED DELIVERY TIME FOR 17 UNITS IN 2016: 108 DAYS (AFTER RECEIPT OF CHASSIS)

ITEM #3

Option: Purchase additional complete quick hitch assemblies with installation hardware for life of contract.

FOB: Bismarck, ND. Price each \$ 1984⁰⁰.

ITEM #4

Option: Purchase additional quick hitch assemblies without lift cylinder and with complete installation hardware for a life of contract.

FOB: Bismarck, ND. Price each \$ 1695⁰⁰.

ITEM #5

Option: Purchase additional stainless steel tailgate spreaders with side shields, installation hardware, and as specified within for life of contract.

FOB: Bismarck, ND. Price each \$ 3984⁰⁰.

ITEM #6

Option: Force America 6100-3 lane programming package with individual loose wires for lane selection. Truck portion of trailer anti-ice wiring harness. All necessary hydraulic plumbing and couplers needed to connect to the trailer at the rear of truck.

Price each installed \$ 1665⁰⁰. *Does not include tow plow
Multiup coupler*

ITEM #7

Option: Force America 5 joystick controller and 2 additional valve sections with all necessary hydraulic plumbing and couplers needed to connect to the tow plow at the right rear of truck.

Price each installed \$ 4940⁰⁰.

ITEM #8

Option: Purchase additional 14' stainless steel dump/spreader box with cylinder, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ 29,995⁰⁰.

ITEM #9

Option: Purchase additional 14' stainless steel dump box with cylinder, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ 15,491⁰⁰.

ITEM #9

Option: Purchase dual auger w/stainless steel cover plate and vibrator in lieu of conveyor chain on dump/spreader box.

Add/Deduct \$ 3170⁰⁰.

ITEM #10

Option: Mounting/hardware for dual wing.

Add/Deduct \$ 1623⁰⁰.

ITEM #11

Option: Reflexite® V82 red and white reflective conspicuity tape.

Price per foot installed \$ 1.25

ITEM #12

Option: Paraglide type wing post and counterbalance valve in lieu of standard slide type wing post.

Add/Deduct \$ 3345⁰⁰.

ITEM #13

Option: Purchase heavy duty flatbed to support 2500 brine tank, approximately 8'Wx16'L, stake pockets, rub rails, treadplate floor and countersunk LED lighting. Class F double acting hoist, 45° dump angle w/safety props. No bulkhead.

DUMP BOX MAKE: Knapheide P44J-163B

MODEL: P44J-163B

HOIST MAKE: Scott 1

MODEL: LL-800 - Less Pump

FOB: Fargo, ND. Price w/o labor \$ 6345⁰⁰.

Receipt of the following addenda to the RFP, by date, is acknowledged:

<u>Addendum # 1</u>	<u>5-8-15</u>
<u>Addendum # 2</u>	<u>5-11-15</u>

SIGNED: Jeremy K. Gregoire

FULL NAME: Jeremy K. Gregoire
(Please Print)

TITLE: President

FIRM NAME: Berts Truck Equipment of Moorhead, Inc

FIRM ADDRESS: PO Box 336- Moorhead, MN 56561-0336

FIRM PHONE NUMBER: 218-233-8681 FIRM FAX NUMBER: 218-233-9548

EMAIL ADDRESS: Jeremy@bertsonline.com

Proposals must remain open and valid for at least 90 DAYS from the deadline specified for submission of proposals. Proposals may be withdrawn at any time prior to proposal opening date.

The signatory agrees that the NDDOT has the right to reject any or all proposals for any reason.

STATE OF NORTH DAKOTA
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
608 EAST BOULEVARD AVENUE
BISMARCK, ND 58505-0700
TELEPHONE 701-328-4466 FAX NUMBER 701-328-0310

DATE

NOTICE OF INTENT TO AWARD

Request for Proposal (RFP) 065-30-15-030 Snow Plow Turnkey Truck Package was issued by the North Dakota Department of Transportation on 04/13/2015.

The following vendors submitted proposals in response to the RFP:

LIST NAMES AND ADDRESSES OF ALL OFFERORS THAT SUBMITTED PROPOSALS OR INCLUDE AS AN ATTACHMENT.

A committee evaluated the proposals based upon the criteria stated in the RFP to select the offeror that submitted the most advantageous proposal. We announce our intent to award a contract to **NAME OF SUCCESSFUL OFFEROR.**

The successful offeror is instructed not to begin work, purchase materials, or enter into subcontracts relating to the project until both the recipient and the State sign the contract.

An offeror may protest this Notice of Intent to Award by submitting a written protest to the procurement officer within seven calendar days after the date of this notice.

On behalf of the North Dakota Department of Transportation, thank you for your efforts in preparing a proposal in response to this solicitation. We appreciate your interest in doing business with the State of North Dakota, and your company will remain our bidders list for any future solicitations of a similar nature.

If you have any questions, please feel free to contact me at (701) 328-4466.

Sincerely,

Vanessa Brosten

Procurement Officer

ATTACHMENT 6

CHECKLIST FOR OFFERORS

- ☒ Submit any questions, comments, or requests for clarification to the procurement officer by the deadline for submission of questions.
- ☒ Review the Attachments 2 and 3. State any objections to any of the provisions in the Contract Form or Indemnification and Insurance Requirements prior to the deadline for submission of questions.
- ☒ Be sure an individual authorized to bind the offeror to the provisions of the RFP signs the proposal.
- ☒ Comply with the North Dakota Secretary of State and the North Dakota State Procurement Office Registration requirements prior to the deadline stated in the RFP.
- ☒ Comply with professional licensing requirements, and provide copies of certifications, if required.
- ☒ Provide the information about the qualifications of the firm that will be working on the project.
- ☒ Provide the information about all subcontractors that will be working on the project as required in section 7.08 of the proposal.
- ☒ Identify all known federal requirements that apply to the proposal, the evaluation, or the contract.
- ☒ Provide the required number of letters of reference.
- ☒ Provide all documents or materials that must be submitted with the RFP.
- ☒ Identify and label and sections of the proposal you feel contain confidential information.
- ☒ Provide completed specifications with any deviations clearly stated.
- ☒ Provide product literature with history, warranty, service, parts, and product support information.
- ☒ Provide ONE ORIGINAL (1) AND FOUR COPIES (4) of the proposal furnished in a 3-ring binder with indexing, without pricing in a sealed envelope or package.
- ☒ Provide proposal response sheets, completed in their entirety, plus complete list of options with pricing, submitted in a separate sealed envelope or package, clearly labeled "cost proposal".