



*Gary Quinn, Director
Gerry P. Little, Deputy Director
Virginia E. Haines, Commissioner
John P. Kelly, Commissioner
Joseph H. Vicari, Commissioner*

*Michael J. Fiure, Director, Management & Budget
Jennifer L. Bowens, Purchasing Agent*

*County of Ocean
Administration Building
101 Hooper Avenue
Toms River, NJ 08754*

BID

MOTOR VEHICLES: TRIAXLE DUMP AND TRACTOR TRUCKS

2021

***ADVERTISEMENT DATE: October 6, 2021
OPENING: October 26, 2021, 11:00 am***

Bid Category: 04- Automotive Products, Vehicles and Services

NOTICE TO BIDDERS

NOTICE IS HEREBY GIVEN that sealed bids for the furnishing and delivery of **MOTOR VEHICLES: TRIAXLE DUMP AND TRACTOR TRUCKS** for the County of Ocean, will be received by the Purchasing Agent of the County of Ocean on **Tuesday, October 26, 2021 at 11:00 am**, prevailing time.

Bids may be received electronically via the [County's ProcureNow Electronic Bid Portal \(https://secure.procurenw.com/portal/oceancounty/\)](https://secure.procurenw.com/portal/oceancounty/)

Specifications and form of proposal are on the **Procurement Portal (Link Below)** or available for viewing in the Department of Purchase, Room #224, Administration Building, 101 Hooper Avenue, Toms River, New Jersey. Direct all inquiries to Jennifer L. Bowens, Purchasing Agent.

Bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq. and P.L. 1975 C. 127 (N.J.A.C. 17:27-1 et seq.) regarding equal employment opportunities and with the requirements of P.L. 1977 C.33 regarding corporate and/or partnership ownership.

Electronic Submission Site: <https://secure.procurenw.com/portal/oceancounty/>

The right to reject any and all bids is reserved in accordance with applicable law.

By order of the Board of Commissioners of the County of Ocean.

Signed:

GARY QUINN, Director

JENNIFER L. BOWENS, Purchasing Agent

CONTACT INFORMATION AND PROJECT TIMELINE

Summary

The purpose of this bid package is to provide the County of Ocean with a Contractor who will supply the materials or services described and specified herein.

Contact Information

For further information regarding these specifications, contact

Brian W. McCarthy

Director

Email: ocpurchasing@co.ocean.nj.us

Phone: [\(732\) 349-4579](tel:(732)349-4579)

Department:

Purchasing

Timeline

Advertising Date	October 6, 2021
Bid Opening Date	October 26, 2021, 11:00am Administration Building, 101 Hooper Ave., Room 119, Toms River, NJ, 08753

IMPORTANT INSTRUCTIONS FOR ELECTRONIC SUBMITTAL

Instructions for Electronic Bid Submission

The County is accepting electronic bid submissions with ProcureNow by following these instructions:

Sign up for a FREE account at <https://secure.procurenow.com/signup>.

Once you have completed account registration, browse back to this page, <https://secure.procurenow.com/portal/oceancounty>.

Click on the bid of interest, then click "Draft Response".

Follow the instructions to submit the electronic bid.

It is important to note that this process should be completed well in advance of the bid deadline / bid opening. **DO NOT WAIT UNTIL THE LAST MINUTE.** The County's electronic submission system will not allow electronic bids to be submitted once the deadline has passed, even if you've already started the process. The deadline is based on the countdown timer found on the ProcureNow bid submission page.

INSTRUCTIONS TO BIDDERS

Bid Opening

All bids will be opened publicly in the Administration Building, Room 119, 101 Hooper Avenue, Toms River, New Jersey, commencing at 11:00 am, prevailing time on Tuesday, October 26, 2021.

Electronic Bid Submissions

Bids must be submitted electronically through Ocean County's Procurement Portal by the date and time stipulated in the Notice to Bidders.

Deadline Instructions

The County will not be responsible for late bids, and no bids will be accepted if received after the time stipulated in the notice to bidders.

Completion of all Documents

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package and must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

Right to Reject

The County reserves the right to reject all bids in accordance with N.J.S.A. 40A:11-13.2, to waive any informalities in the bid and to accept the lowest responsible bid in accordance with applicable law.

Bidder Default

In case of default by the bidder or contractor, the County of Ocean may procure the articles or services from other sources and hold the bidder or contractor responsible for any excess cost occasioned thereby.

Indemnity

The bidder, if awarded a contract, agrees to protect, defend and save harmless the County against any damage for payment for the use of any patented material process, article or device that may enter into the manufacture, construction or form a part of the work covered by either order or contract, and he further agrees to indemnify and save harmless the County from suits or actions of every nature and description brought against it, for, or on account of injuries or damages received or sustained by any party or parties by, or from any of the negligent acts of the contractor, his servants or agents.

Specifications

It is to be understood by the bidder that this bid is submitted on the basis of specifications prepared by the County and the fact that any bidder is not familiar with these specifications or conditions will not be accepted as an excuse.

Bid Security

NO BID SECURITY

Performance Bond

NO PERFORMANCE BOND

Pricing Proposal

Bidders must use the pricing proposal provided in the bid specifications. Failure to use the pricing proposal in the bid specifications shall be cause for rejection of the bid.

Pricing

Insert prices for furnishing all of the material and/or labor described or required. Prices shall be net, including any charges for packing, crating, containers, etc. and all transportation charges fully prepaid by the contractor F.O.B. destination and placement at locations specified by the County. No additional charges will be allowed for any transportation costs resulting from partial shipments made at the vendor's convenience when a single shipment is ordered.

Payment

Payments will be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. The County will not pay interest or late fees regardless of language provided.

Discrepancy in Pricing

In the event that there is a discrepancy between the unit prices and the extended totals, the unit prices shall prevail. In the event there is an error of the summation of the extended totals, the computation by the OWNER of the extended totals shall govern.

Award Timeframe

Award will be made by Ocean County Board of Commissioners within sixty (60) days after receipt of bids.

Equal or Tie Bids

The County of Ocean reserves the right to award at their discretion to any one of the tie bidders where it is most advantageous for the County to do so, pursuant to N.J.S.A. 40A:11-6.1.

Tax Exempt

The County of Ocean is exempt from any State sales tax or Federal excise tax.

Equivalent Product

For purpose of evaluation where an equivalent product is being furnished, bidder must indicate any variation to our specifications no matter how slight. If no variations are indicated, it will be construed that the bid fully complies with our specifications.

Quantities

Quantities shown are approximate and the County reserves the right to decrease or omit quantities. The County will not consider minimums placed on order quantities. The County also reserves the right to increase quantities to twenty (20) percent of the maximum quantities listed at the unit price bid, in accordance with N.J.A.C. 5:30-11.3.

Delivery of Goods and Services

Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

American Goods and Products

All contractors must comply with the provisions of New Jersey Statute Title 40A:11-18, when applicable.

Assignment

This agreement shall not be assigned without the written consent of the County of Ocean.

NJ One Call

By presenting a bid, contractor declares that he is aware of and, if required, will comply with the requirements of the "Underground Facility Protection Act (Public Law 1994, Chapter 118)" prior to commencing any intended excavation. The telephone number to call is 1-800-272-1000.

Public Works Contractor Registration Act, N.J.S.A. 34:11-56.48 et seq

The bidder must comply with the provisions of "The Public Works Contractor Registration Act", if applicable.

- All named contractors must be registered with the Department of Labor and Workforce Development pursuant to the Public Works Contractor Registration Act at the time the proposal is received, or the proposal will be determined to be non-responsive.
- Any non-listed contractor must be registered with the Department of Labor and Workforce Development prior to physically starting work. It is the responsibility of the General Contractor to insure that all non-listed sub-contractors comply.
- Contractors are encouraged to submit their and all named sub-contractors' Public Works Contractor Registration Certificates with the bid.

Prevailing Wage & Labor Laws

The New Jersey Prevailing Wage Act (P.L. 1963, Chapter 150) and provisions of the State Labor Laws must be complied with by the successful bidder, if applicable. The current Prevailing Wage Rates can be found online at <https://lwdwebpt.dol.state.nj.us/archivewages/210152831-ocean-7-28-20.pdf>

Special Surety Bid Requirements for Certain Construction Projects

The attention of the bidder is called to the provisions of N.J.S.A. 2A:44-143 which requires that the County of Ocean shall only accept performance and payment bonds from surety companies meeting the requirements of that statute. The bidder shall deliver with its bid a Consent of Surety. The Bidder's Surety Company shall complete the "Certificate of Surety Company" which bidder shall submit with its bid.

New Jersey Business Registration Requirements

Pursuant to N.J.S.A. 52:32-44, Ocean County ("Contracting Agency") is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

Prior to contract award or authorization, the contractor shall provide the Contracting Agency with its proof of business registration and that of any named subcontractor(s).

Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the Contracting Agency prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

During the course of contract performance:

- (1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
- (2) the contractor shall maintain and submit to the Contracting Agency a list of subcontractors and their addresses that may be updated from time to time.
- (3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at <http://www.state.nj.us/treasury/revenue/busregcert.shtml>.

Before final payment is made under the contract, the contractor shall submit to the Contracting Agency a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable

for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.

Pay to Play Requirements

Starting in January 2007, all business entities are advised of their responsibility to file an annual disclosure statement of political contributions with the New Jersey Election Law Enforcement Commission (ELEC) pursuant to N.J.S.A. 19:44A-20.27 if they receive contracts in excess of \$50,000 from public entities in a calendar year. Business entities are responsible for determining if filing is necessary. Additional information on this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us.

Statement of Ownership

The provisions of N.J.S.A. 52:25-24.2 applies to all forms of corporations and partnerships, including, but not limited to, limited partnerships, limited liability corporations, limited liability partnerships, and Subchapter S corporations.

Certification of Non-Involvement in Prohibited Activities in Iran

Certification of Non-Involvement in Prohibited Activities in Iran. Pursuant to N.J.S.A. 52:32-58, the proposer must certify that neither the proposer, nor one of its parents, subsidiaries, and/or affiliates (as defined in N.J.S.A. 52:32-56(e)(3)), is listed on the Department of the Treasury's List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32-56(f). If the proposer is unable to so certify, the proposer shall provide a detailed and precise description of such activities. Prior to contract award or authorization, the contractor shall provide the Contracting Agency with a completed Certification on Non-Involvement in Prohibited Activities in Iran.

Insurance Requirements

The contractor shall maintain primary insurance to protect against all claims under Workmen's Compensation, Comprehensive General Liability and Automobile. Except for Workmen's Compensation, all coverage shall apply as primary coverage with respect to any other insurance or self-insurance program afforded to the County. There shall be no endorsement or modification of this coverage to make it excess over other available insurance/coverage; alternatively, if the CGL and umbrella, excess of reinsurance states that it is pro rata, it shall be endorsed to be primary with respect to the County. Primary Coverage shall be subject to approval for adequacy of protection as per the following limits:

Worker's Compensation

1. Limits according to Worker's compensation Laws of the State of New Jersey.
2. Contractor's Liability not less than \$100,000.

Comprehensive General Liability

1. Bodily Injury - \$500,000 per person; \$1,000,000 per occurrence.
2. Property Damage - \$1,000,000 per occurrence.

Comprehensive General Liability Details

Comprehensive Automobile Liability shall include the following:

Business auto liability insurance or its equivalent with a minimum limit of \$1,000,000 per accident and including coverage for all of the following:

- A. Liability arising out of the ownership, maintenance or use of any auto;
- B. Auto non-ownership and hired car coverage.
- C. Contractor's Worker's Compensation, Comprehensive General Liability and
- D. Comprehensive Automobile Liability arising out of subcontractor's operations shall be identical as that listed above.

Proof of Insurance

Copies of each insurance certificate shall be furnished to the County when requested.

County Cooperative Contract Purchasing System

The County has established a "COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM" pursuant to N.J.S.A. 40a:11-1 et seq...

The IDENTIFIER for this system is:

CK-02-OC

This system allows local government contracting entities located within the geographical boundaries of the County to purchase goods and services awarded as a result of this bid proposal if it is extended by the low bidder.

Goods and services must be made available without substitution or deviation from specifications, size, features, quality, price or availability as herein set forth. It is understood that orders, if any, will be placed directly by contracting units, subject to the overall terms of the contract to be awarded by the County of Ocean.

The estimated quantities listed in this specification reflect only the needs of the agencies under the direct control of the Ocean County Board of Commissioners. If the vendor chooses to extend the resulting contract to all other contracting units, the quantities could be higher.

Please check (✓) the YES or NO box in the Vendor Questionnaire to indicate whether or not you will extend contract prices to all contracting units.

AWARD METHOD

Contract will be awarded on a lump sum by item basis.

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY

N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127)

N.J.A.C. 17:27

GOODS, PROFESSIONAL SERVICE AND GENERAL SERVICE CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

- Letter of Federal Affirmative Action Plan Approval
- Certificate of Employee Information Report
- Employee Information Report Form AA302 (electronically provided by the Division and distributed to the public agency through the Division's website at www.state.nj.us/treasury/contract_compliance)

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase & Property, CCAU, EEO Monitoring Program as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code at N.J.A.C. 17:27.**

AMERICANS WITH DISABILITIES ACT

Equal Opportunity For Individuals With Disabilities

The CONTRACTOR and the COUNTY do hereby agree that the provisions of title II of the Americans with Disabilities Act of 1990 (the "Act") (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the COUNTY pursuant to this contract, the CONTRACTOR agrees that the performance shall be in strict compliance with the Act. In the event that the CONTRACTOR, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the CONTRACTOR shall defend the COUNTY in any action or administrative proceeding commenced pursuant to this Act. The CONTRACTOR shall indemnify, protect and save harmless the COUNTY, its agents, servants and employees from and against any and all suits, claims, losses, demands, or damages of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The CONTRACTOR shall, at its own expense, appear, defend and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the COUNTY'S grievance procedure, the CONTRACTOR agrees to abide by any decision of the COUNTY which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the COUNTY or if the COUNTY incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the CONTRACTOR shall satisfy and discharge the same at its own expense.

The COUNTY shall, as soon as practicable after a claim has been made against it, give written notice thereof to the CONTRACTOR along with full and complete particulars of the claim. If any action or administrative proceeding is brought against the COUNTY or any of its agents, servants and employees, the COUNTY shall expeditiously forward or have forwarded to the CONTRACTOR every demand, complaint, notice, summons, pleading, or other process received by the COUNTY or its representatives.

It is expressly agreed and understood that any approval by the COUNTY of the services provided by the CONTRACTOR pursuant to this contract will not relieve the CONTRACTOR of the obligation to comply with the Act and to defend, indemnify, protect and save harmless the COUNTY pursuant to this paragraph.

It is further agreed and understood that the COUNTY assumes no obligation to indemnify or save harmless the CONTRACTOR, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the CONTRACTOR expressly understands and agrees that the provision of this indemnification clause shall in no way limit the CONTRACTOR'S obligations assumed in this Agreement, nor shall they be construed to relieve the CONTRACTOR from any liability, nor preclude the COUNTY from taking any other actions available to it under any other provisions of this Agreement or otherwise at law.

VENDOR QUESTIONNAIRE

County Cooperative Contract Purchasing System*

Vendor will extend contract prices to "County Cooperative Contract Purchasing System" Participants as described in [Instruction to Bidders](#) .

Yes

No

*Response required

Signature Page*

The information on this page will be used to process contract documents and ensure your BRC is valid. Please make sure the address on this page is the address you want your contract mailed to.

Please complete the form by clicking on the link. **Make sure that the email you complete the form with matches the email of your vendor account.**

NOTE: In order to access the forms available in this question, you must click on the green "Draft Response" button in the top left. Once you click the "Draft Response" button, the ability to access DocuSign to view the forms becomes available.

You must access DocuSign, input your name and email and agree to the terms in order to access the forms.

Once you have accessed the forms, you will see three lines (the menu) in the top left corner of the DocuSign window. Clicking the menu you will give you the ability to download or print the forms.

Please note: The County's preferred method of submission is DocuSign.

[Click here to go to the form](#)

*Response required

Copy of Bidder's New Jersey Business Registration Certificate

Please use this area to upload your company's BRC.

Use this link to verify your company's BRC:

https://www1.state.nj.us/TYTR_BRC/jsp/BRCLoginJsp.jsp

Please note that a BRC is not required at the time of bid submission but shall be required prior to the award of a contract.

Mandatory Equal Employment Opportunity Statement*

Does the BIDDER comply with the [#Mandatory Equal Employment Opportunity Statement?](#)

Yes

No

*Response required

Americans with Disabilities Act Provisions*

Does the BIDDER comply with the [#Americans with Disabilities Act Provisions?](#)

Yes

No

*Response required

BID DOCUMENTS TO BE EXECUTED*

Documents include:

- Non Collusion Certification
- Affirmative Action Questionnaire
- Statement of Ownership (N.J.S.A. 52:25-24.2) (Mandatory Document)

FAILURE TO SUBMIT ANY OF THESE DOCUMENTS MAY BE CAUSE FOR REJECTION OF BID.

Please complete the form by clicking on the link. Make sure that the email you complete the form with matches the email of your vendor account.

NOTE: In order to access the forms available in this question, you must click on the green "Draft Response" button in the top left. Once you click the "Draft Response" button, the ability to access DocuSign to view the forms becomes available.

You must access DocuSign, input your name and email and agree to the terms in order to access the forms.

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Please note: The County's preferred method of submission is DocuSign.

[Click here to go to the form](#)

*Response required

Requested Documents Pertaining to Affirmative Action

Within seven (7) days after receipt of the notification of intent to award the contract or receipt of the contract, whichever is sooner, a Contractor should present one of the following to the County of Ocean:

- (a) An existing federally approved or sanctioned affirmative action program.
- (b) A New Jersey Certificate of Employee Information Report Approval.
- (c) If the Contractor cannot present "a" or "b", the Contractor is required to submit a completed Employee Information Report (Form AA302). This form will be made available to the Contractor by the County of Ocean.**

QUESTIONS BELOW MUST BE ANSWERED BY ALL CONTRACTORS:

1. Do you have a Federally approved or sanctioned Affirmative Action Program?

If yes, please upload a photocopy of such approval.

2. Do you have a State of New Jersey "Certificate of Employee Information Report" approval?

If yes, please upload a photocopy of such certificate.

Certification of Non-Involvement in Prohibited Activities in Iran

CERTIFICATION IS REQUIRED PRIOR TO CONTRACT AWARD

Pursuant to N.J.S.A. 52:32-57, et seq (P.L. 2012, c. 25, and P.L. 2021, c. 4), any person or entity that submits a bid or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list is found on the Division's website at <http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Bidders must review this list prior to completing the below certification. If the Director finds a person or entity to be in violation of law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

Please fill out the below Powerform. **You must use the same name and email address you used when logging in to ProcureNow.**

The Disclosure of Investment Activities in Iran Statement is not a mandatory document and is not required at the time of bidding. However, this form will be required prior to the award of any contracts.

NOTE: In order to access the forms available in this question, you must click on the green "Draft Response" button in the top left. Once you click the "Draft Response" button, the ability to access DocuSign to view the forms becomes available.

You must access DocuSign, input your name and email and agree to the terms in order to access the forms.

Once you have accessed the forms, you will see three lines (the menu) in the top left corner of the DocuSign window. Clicking the menu you will give you the ability to download or print the forms.

Please note: The County's preferred method of submission is DocuSign.

[Click here to go to the form](#)

Descriptive Literature and Warranty Details*

Please supply all descriptive literature and warranty details for all items being bid as well as a list of all diagnostic tools and testing equipment, if applicable.

*Response required

Mechanic and Operator Training for All Heavy Duty Motor Vehicles*

MECHANIC AND OPERATOR TRAINING

Training shall be provided by the successful bidder for operators and Mechanics at a County location with instructional materials as needed.

Mechanic training will be provided on site for shop mechanics and supervisors. Class size will not exceed twenty (20) total people. Separate training sessions may be required to accommodate the County's two (2) shifts. Training will be conducted to include the following minimum material:

- Brake system component identification / diagnosis and service procedures
- Electrical system features / diagnosis / maintenance
- Air conditioning system diagnostic and service procedures
- Engine repair and maintenance to include specifications / components / sensor locations
- Emissions equipment to include exhaust after treatment / regeneration / warning system
- Internet based Service and Parts Manual usage

Operator training will be provided for a minimum of four (4) hours immediately following vehicle check in and acceptance. The training will cover familiarization of the truck chassis, installed equipment, and truck hydraulic system operation.

By confirming this question, bidder understands they shall comply with the Mechanic's Training set forth above.

- Please confirm
*Response required

COMPLIANCE PAGES FOR MOTOR VEHICLE: TRIAXLE DUMP AND TRACTOR TRUCKS*

Please download the attached Compliance Pages for MOTOR VEHICLES: TRIAXLE DUMP AND TRACTOR TRUCKS. Complete each compliance line by placing a check mark in the box for yes or no. Once finished, upload the completed document. If you are taking any exceptions to any of the compliance lines, please list and explain each exception in detail on company letterhead. Please upload the exceptions letter with the completed compliance pages.

- [COMPLIANCE PAGES FOR MOTOR ...](#)

*Response required

ADDITIONAL VENDOR DOCUMENTATION

Please submit any additional information you wish to be considered as part of your bid package.

Acknowledgement of Submission of Forms from Current Bid Package*

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

- Please confirm

*Response required

Submission of Bid Package*

By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this solicitation must be submitted and that failure to do so may be cause for rejection.

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Please confirm

*Response required

MOTOR VEHICLE SPECIFIC SCOPE OF WORK

CONTRACT TERMS

Contract shall be one (1) year from date of award or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15.

SPECIFICATIONS

Detailed specifications for this bid are located in the Vendor Questionnaire under the question labeled "Compliance Pages for MOTOR VEHICLES: TRIAXLE DUMP AND TRACTOR TRUCKS" .

INTENT

The purpose of this bid package is to provide the County of Ocean with a contractor(s) who will supply current model year, or newer Motor Vehicles as specified herein.

NO ASSIGNMENT

This agreement shall not be assigned without the written consent of the County of Ocean which consent shall not be unreasonably withheld. Assignee shall promptly prepare and complete such documents as the County shall require.

AVAILABILITY AND DELIVERY

The bidder should indicate the number of days required for the delivery After Receipt of Order (A.R.O.). If not submitted with the bid proposal, the County reserves the right to request this information prior to the award of contract.

OWNERSHIP DISCLOSURE

All contractors shall comply with all laws governing the disclosure of all stockholders or partners, as included in N.J.S.A. 52:25-24.2.

BID REVIEW

Bids may be reviewed once the bid meeting has concluded. Additionally, bid results are available in the Ocean County Purchasing Department on the day following the bid openings for any interested party that may wish to review them.

MODIFICATIONS & WITHDRAWALS

Bids may be withdrawn based from the bidder prior to the time fixed for opening. No right for withdrawal exists after the bid has been opened. Written request shall be signed by the bidder or proper corporate officers.

EVALUATION

The quality of the equipment supplied, their conformity with the specifications, their suitability to requirements, delivery terms, guaranty clauses, price of the materials shall all be taken into consideration. Where equivalent equipment is offered, the County will determine if the proposed item is equal or better than that specified. The awards will be made on the basis of a comparison of prices of each vehicle listed with standard equipment plus the cost of optional equipment.

TRANSITIONAL PERIOD

In the event services are terminated by contract expiration or by voluntary termination by either the Contractor or the County of Ocean, the Contractor shall continue all terms and conditions of said contract for a period not to exceed one (1) month at the County's request.

AVAILABILITY OF FUNDS

The County's obligation hereunder is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the County for payment of any money shall arise unless, and until funds are made available each year to the Ocean County Purchasing Agent.

MANUALS

Unless otherwise indicated, a minimum of three (3) complete sets of manuals, for each model year, MUST be provided with the first vehicle/equipment delivery as follows (CD/DVD/USB format preferred, if available):

- 1) Operator's Manual
- 2) Parts Book
- 3) Shop Service Manuals including wiring diagrams and trouble shooting guide
- 4) Hydraulic System Manual including parts book and service repair manual (if applicable)

TRAINING AND TECHNICAL SUPPORT

If requested, training shall be provided by the successful bidder for operators and mechanics at a County location with instructional materials as needed.

COOLING SYSTEM PROTECTION

All vehicles furnished must be protected to -20°F (-30°C) with permanent type anti-freeze and summer coolant.

AIR CONDITIONING

All air conditioning shall be factory installed, support system (cooling, electrical, etc.) shall be upgraded in accordance with factory recommendations.

FUEL & FLUIDS

All vehicles will be delivered with a minimum of one-half (½) tank of fuel. All other fluids will be filled in accordance with the manufacturer's recommended levels.

STANDARD EQUIPMENT

These specifications include all standard equipment provided for each vehicle unless specifically upgraded or deleted. In the event options are required, the contractor shall provide upgrading of all support systems affected, in accordance with factory recommendations.

DESIGN

Materials shall be of good commercial quality for the intended service and shall be produced by use of current manufacturing processes and treated to resist rust, corrosion and wear. The design of the mechanical member shall be such that the stress imposed through normal shock loads of maximum engine torque, shall not cause rupture or permanent deformation or undue wear on any member.

REPAIRS

All repairs are to be performed at the location the vehicle is stationed or at a service center within the County. All requests for repairs must be responded to within 24 hours.

DEMONSTRATION

Bidder shall be prepared to give, prior to bid award, a complete demonstration of the equipment proposed at a County facility or a mutually agreed to location and time within the State of New Jersey. The equipment so demonstrated shall be complete as offered by the bidder.

SERVICE

Contractor shall be able to service all equipment proposed. The contractor shall maintain a service facility staffed with qualified service personnel and a working inventory of parts.

WARRANTY

All warranty paperwork will be supplied with each unit at the time of delivery and shall be in typed form. The warranty commences with the final inspection and acceptance of the unit by the County. The authorized Dealer's Warranty shall be for a minimum of one (1) year period from date of final inspection and acceptance by the County for parts and labor on chassis, engine, transmission and all optional equipment. The vendor shall furnish for each vehicle delivered, all of the manufacturer's standard warranty against defects in material, workmanship and design in said vehicles. This agreement shall cover all warranty work, minor warranty and service work at the successful bidder's location. When requested by the Director of Vehicle Services, this agreement shall also cover all warranty work, minor warranty and service work at a County facility. The successful bidder will be responsible for vehicle transportation for all warranty repairs and recall work for the complete vehicle and installed equipment during the standard or extended warranty period, when applicable. The vehicle must be picked up within five (5) working days of notification that work is required, and returned to the County within seven (7) working days. Bidder shall have full service facility stocked with parts capable of performing all warranty and non-warranty repairs, to ensure efficient and economic maintenance of the vehicles and to reduce down time. In the case of any unnecessary delays in repairing vehicles with warranty work because of parts availability or service scheduling, the Director of Vehicle Services shall be notified and, if requested, a replacement vehicle shall be provided.

DESCRIPTIVE LITERATURE AND TECHNICAL SPECIFICATIONS

Bidders are encouraged to submit descriptive literature and technical specifications with their bid. If not submitted with the bid, the County reserves the right to request this information, prior to contract award.

USE OF OTHER NAMES AND REFERENCES

Unless otherwise stated, the use of manufacturers' names and product numbers are for descriptive purposes, and establishing general quality levels only. They are not intended to be restrictive. Bidders are required to state exactly what they intend to furnish, otherwise it is fully understood that they shall furnish all items as stated.

MODEL INFORMATION REQUIRED

The manufacturer, make and exact models proposed as substitutes shall also be submitted on bidder's letterhead with any proposal contended to be "equivalent". The vehicles, equipment and accessories shall be new. The bidder shall specify the specific model being bid in each class or type of vehicle.

ROLL-OVER MODEL YEAR

The County will consider any request for a contract roll-over to the next model year after the passing of the vehicle manufacturer's cut-off date, at the same contract pricing, specifications, terms and conditions or better. If a roll-over is agreed upon between the awarded bidder and Vehicle Services Director and approved by the Purchasing Agent, the contract affected by the roll-over will be amended to the newest model year information.

CUT-OFF DATES FOR MODEL YEAR SPECIFIED

The bidder shall notify the County of Ocean Purchasing Department, c/o Jennifer Bowens, Purchasing Agent, P.O. Box 2191, Toms River, NJ 08754 in writing or by fax (732-288-7636) no less than thirty days prior to the factory cut-off date for any vehicle under contract. Successful bidder MUST provide written proof from manufacturer of factory cut-off dates and MUST confirm receipt of same by the County of Ocean Purchasing Department.

COMPLIANCE TO MINIMUM BID REQUIREMENTS EQUIVALENT PROPOSALS

It is the intent of these specifications to describe and govern the purchase of new and unused motor vehicles equipment with any and all accessories as noted herein. The units shall conform to the highest quality of manufacturing and design standards. Any item or items not specifically mentioned herein, but which would be required to produce a complete working unit, shall be supplied by the vendor. All bidders must answer compliance questions in full. A general exception cannot be taken for any paragraph or item. If a bidder is basing his proposal on equipment other than what is specified in these bid documents and wishes the equipment he proposes to be considered as an "approved equal", he shall submit on a separate sheet, in the exact format of the technical specifications contained herein, an item by item description of that which he proposes to substitute including any and all variations from or exceptions to the conditions and specifications of this bid. Failure to comply may result in rejection of bid.

KEYS

A minimum of six (6) sets of keys are required with each vehicle and piece of equipment ordered. This is a minimum requirement: if additional sets are required, it will be indicated in the detailed specification section.

BID PROPOSAL PRICE INCLUSIONS

The price quoted shall include all options specified and all transportation charges fully prepaid to Ocean County Department of Vehicle Services, Chestnut Street, Toms River, New Jersey.

FLEET NUMBER

For Ford Vendors: The County of Ocean Fleet number is QB504.

PRE-BUILD

A detailed vehicle production plan must be provided and approved prior to the start of any upfitting. The production plan detail must include exact mounting locations and configurations for all components.

TITLES

Each vehicle must be delivered with a New Jersey motor vehicle new vehicle inspection sticker in place as prescribed by law. Each vehicle must also be delivered with a New Jersey Motor Vehicle Commission title, registration, and plates. (Temporary plates are not acceptable) Deliver with title issued as follows: 610 234 000 08754 0 Ocean, County of PO Box 2191, Admin. Bldg. Toms River, NJ 08754

DELIVER WITH TITLE NOT CERTIFICATION OF ORIGIN

Notwithstanding the delivery of the title, the County reserves the right to inspect the vehicles and reject them if non-conforming to the specifications.

DELIVERY REQUIREMENTS

Please be advised that when delivering vehicles and/or equipment to the County of Ocean the following procedure must be strictly adhered to: 1. Three (3) days prior to delivery, the successful contractor is required to contact Vehicle Services at (732) 349-4579 and speak with one of the service writers for an approved delivery date. 2. Two (2) days prior to the vehicle delivery the successful bidder will provide via Electronic Delivery (E-mail) a completed and accurate Vehicle Data Sheet and Parts Listing Sheet in a Word Document format for each vehicle being delivered. 3. The successful bidder will have a representative available, and if requested, present during the check-in process. 4. ALL manuals and related materials, as requested in the specifications, MUST be presented to appropriate County personnel at time of delivery of said vehicles /equipment. 5. ALL parts, if requested in the specifications (i.e. belts, filters, hoses, etc.), MUST be presented at time of delivery. 6. The successful contractor shall provide, upon delivery, a list of all supplies (filters, hoses, belts, etc.) needed for the periodic maintenance for the first year. This list shall be complete with part numbers. 7. The successful contractor shall provide, upon delivery, an "As Built" list of all installed equipment and part numbers to cover the vehicle chassis and body. 8. The successful contractor will also be

responsible to fill out any and all paperwork needed by the County prior to vehicle delivery. This will assure proper data entry of each vehicle to aide in any future warranty issues. 9. A letter of assurance, on the awarded bidder's company letter head, shall accompany each delivered vehicle, certifying that the vehicle meets or exceeds all specifications as ordered on the Purchase Order. 10. The vehicles furnished shall comply with all safety laws, rules and regulations of the State of New Jersey and with standards for automotive vehicles. A DOT (Department of Transportation) Safety Kit shall be delivered with each vehicle purchased and include a First Aid Kit, Fire Extinguisher, and Safety Triangles. 11. The vehicles, equipment and accessories shall be new and ready for immediate use upon delivery, all service and make-ready having been done prior to delivery. Any vehicle not in such condition will be rejected. All vehicles are to be delivered to the Ocean County Department of Vehicle Services, Chestnut Street, Toms River, New Jersey. 12. No advertising shall appear on any vehicle delivered under the terms of the contract. Further, the contractor will not affix the dealer name to the vehicle. Vehicles delivered to final destinations with dealer's advertising will be rejected. 13. No Vehicle will be accepted at the final delivery point without all supporting documentation and paperwork completed and delivered with the units, which include the vehicle title, warranty, odometer/engine hour statement (if applicable), specified manuals, any line set tickets, invoice and keys sets. No unit will be considered accepted until it has undergone final inspection. 14. All delivered vehicles must be clean both inside and outside. Manufacturer's standard items, such as hubcaps, floor mats, jack and lug wrench or the like, shall be provided, installed, by the contractor prior to delivery.

DELIVERY INSPECTIONS

Prior to presentation for inspection, it shall be the contractor's responsibility to pre-inspect each vehicle. The vehicle must conform to the manufacturer's "new vehicle prep" procedures, if any. The contractor will be required to submit a copy of any "new vehicle prep" procedures upon delivery of the vehicle. Each vehicle presented for inspection shall be accompanied by an inspection package including, but not limited to the following: purchase order, line set sheet (when available) and dealer's pre-inspection prep checklist. The checklist will list the responsible prep mechanic and acknowledge that the vehicle conforms to delivery specifications and that all added equipment and accessories have been properly installed.

Reasons for rejection of units include, but are not limited to:

1. Grinding noise in the wheels (wheel bearings).
2. Improperly aligned wheels.
3. Damaged rims.
4. Any spare tire-rim not mounted on vehicle.
5. Leakage of oil.
6. Transmission leaking fluid at transmission cooler lines or transmission seals.
7. Leakage at rear end.
8. Leaking at radiator.
9. Fuel Leaks.

10. Restrictions in fuel system.
11. Leakage in any part of the exhaust system.
12. Excessively noisy brakes or excessive brake pedal travel.
13. Oil pan damage.
14. Inoperative windshield wipers.
15. Windshield washer not functioning properly.
16. Windshield washer bottle leaking.
17. Transmission malfunctions.
18. Lack of grease fittings in ball joints, U-joints, etc. if factory standard.
19. Horn blowing while driving or inoperative.
20. Gauges or dials missing/malfunctioning.
21. Vehicle pulls to one side.
22. Seatbelts not operating properly.
23. Keys not working properly.
24. Door locks inoperative.
25. Oil dipstick missing or rust on dipstick.
26. Appropriate new vehicle inspection sticker not furnished on windshield.
27. Lights – running, turn, backup, brake, side indicators, and indicator lights not working properly.
28. Lenses missing on interior/exterior light or water in lenses.
29. Any manufacturing deficiencies which permit water leakage into passenger compartment.
30. Windows not operating properly.
31. Vehicle not properly prepped in accordance with the manufacturer's pre-delivery specifications.
32. Vehicle not configured with all equipment and items specified in the contract/purchase order.
33. Body dents, scratches and other defects.
34. Body paint defects.
35. Water leak through roof.
36. Any defects in equipment installation.
37. Electrical system problem.
38. Any defects in after-market components, such as truck body, snow plow, aerial platform, generator, winch, crane and lift-gate.
39. Improperly run wiring and hoses along the chassis.

Inspected units which do not comply with these or other requirements will be rejected. If a vehicle has been rejected, the contractor will be notified and the notification will indicate the reason for rejection. All rejected units will be corrected and the corrected unit(s) will be presented for re-inspection within seven (7) working days. The ordering Department may cancel the purchase order if the contractor fails to correct any problem, without incurring any cost or fee.

PRICING PROPOSAL

ITEM #1 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL

Line Item	Description	Qty.	Max. Qty.	Unit of Measure	Unit Cost	Total	Comments
1	Model Year 2023 Western Star 49X SF Specialized Dump Truck with Plow and Spreader, As Specified, or Equal	1	10	EA			
OPTIONS							
1a	Heavy Duty Heated Crossmemberless Stainless Steel Dump Body Under Options, As Specified	1	10	EA			
1b	Freedom 2.2 Spreader Control in Lieu of Manual Specification, As Specified	1	10	EA			
1c	Central Hydraulic System (Electric Proportional Plow/Granular Controls Specifications) In Lieu of Manual Controls, As Specified	1	10	EA			
1d	Paint for Dump Body, As Specified	1	10	EA			
1e	Road Department Paint Color Scheme, As Specified	1	10	EA			
1f	Spreader Leg Stands, As Specified	1	10	EA			
1g	One-Way Plow with QCP, As Specified	1	10	EA			
1h	Diagnostic Tools/Test Equipment, As Specified	1	3	EA			
1i	Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified	1	10	EA			
1j	Installation of County-Supplied Two-Way Radio and Accessories, As Specified	1	10	EA			
1k	Technical Support, As Specified	1	80	HOUR			
TOTAL							

ITEM #2 - MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL

Line Item	Description	Qty.	Max. Qty.	Unit of Measure	Unit Cost	Total	Comments
2	Model Year 2023, or Newer, Specialized Western Star 49X Tractor, As Specified, or Equal	1	10	EA			

Line Item	Description	Qty.	Max. Qty.	Unit of Measure	Unit Cost	Total	Comments
OPTIONS							
2a	Road Department Options (Shall Consist of All Items Listed), As Specified, or Equal	1	10	EA			
2b	Solid Waste Options (Shall Consist of All Items Listed), As Specified, or Equal	1	10	EA			
2c	Diagnostic Tools/Test Equipment, As Specified	1	3	SET			
2d	Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified	1	10	EA			
2e	Installation of County-Supplied Two-Way Radio and Accessories, As Specified	1	10	EA			
2f	Technical Support, As Specified	1	180	HOUR			
TOTAL							

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL

Manufacturer/Model: Click or tap here to enter text.

Engine: Click or tap here to enter text.

Transmission: Click or tap here to enter text.

Warranty: Click or tap here to enter text.

Delivery, A.R.O.: Click or tap here to enter text.

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL		
2023 WESTERN STAR 49X SF	<input type="checkbox"/>	<input type="checkbox"/>
Set forward axle	<input type="checkbox"/>	<input type="checkbox"/>
Lh primary steering location	<input type="checkbox"/>	<input type="checkbox"/>
DIMENSIONS		
Front axle 20,000 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Pusher axle 20,000 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Rear axle 52,000 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Registered gvwr 80,000 lbs.; cg tags	<input type="checkbox"/>	<input type="checkbox"/>
ENGINE		
Cummins x15 performance series 14.9l, 912 cid minimum 500v hp @ 1900rpm.	<input type="checkbox"/>	<input type="checkbox"/>
Gov 2000 rpm, and 1850 lb.-ft. Torque @ 1150rpm.	<input type="checkbox"/>	<input type="checkbox"/>
Must be in line 6 cylinder of wet sleeve design utilizing hardened Cylinder liners, and electronics for simple service and diagnosis as needed.	<input type="checkbox"/>	<input type="checkbox"/>
Minimum displacement shall be 14.9 liters.	<input type="checkbox"/>	<input type="checkbox"/>
Engine must comply with latest federal mandate for diesel emissions. Should an Alternate power plant be offered the bidder must provide, all necessary technical data to show proof of equality including Maintenance schedules.	<input type="checkbox"/>	<input type="checkbox"/>
ENGINE EQUIPMENT		
Engine must have latest 50 state clean idle diesel emission certification	<input type="checkbox"/>	<input type="checkbox"/>
Oil check and fill: engine mounted	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ENGINE EQUIPMENT (Cont'd)		
Air intake: under hood mounted air intake with precleaner integrated into hood with inside/outside air snow door	<input type="checkbox"/>	<input type="checkbox"/>
Alternator: 200 amp 28 si with remote battery volt sense	<input type="checkbox"/>	<input type="checkbox"/>
Batteries: (4) 12-volt gnb maintenance-free 4000 CCA	<input type="checkbox"/>	<input type="checkbox"/>
Battery box: frame-mounted stack battery box LH or RH side back of cab	<input type="checkbox"/>	<input type="checkbox"/>
Positive load disconnect control switch mounted under dash or floor	<input type="checkbox"/>	<input type="checkbox"/>
Remote jump start studs mounted on frame next to starter	<input type="checkbox"/>	<input type="checkbox"/>
Silicone heater/radiator hoses where possible	<input type="checkbox"/>	<input type="checkbox"/>
Compressor: Cummins 18.7 CFM with internal safety valve	<input type="checkbox"/>	<input type="checkbox"/>
Engine protection: electronic engine-integral warning system with shut down function	<input type="checkbox"/>	<input type="checkbox"/>
Engine brake: Cummins intebreak compression brake with on off switch and low, med and high retardation switch	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust: single right-hand under cab ATD with bright finish upper 11' vertical stack cab mounted	<input type="checkbox"/>	<input type="checkbox"/>
2-piece fan shroud and rear rock guard	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust shield: stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
Fan drive: electronically controlled variable speed automatic control with dash switch and light	<input type="checkbox"/>	<input type="checkbox"/>
13 gallon diesel exhaust fluid tank	<input type="checkbox"/>	<input type="checkbox"/>
Non-polished aluminum cover for def tank	<input type="checkbox"/>	<input type="checkbox"/>
Oil filter: full-flow	<input type="checkbox"/>	<input type="checkbox"/>
Fuel filter/water separator: Detroit engine mounted with water in fuel Indicator	<input type="checkbox"/>	<input type="checkbox"/>
Radiator: 1400 square-inch severe service assembly bolted to engine	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ENGINE EQUIPMENT (Cont'd)		
Heavy-duty coolant: -34 oat extended life	<input type="checkbox"/>	<input type="checkbox"/>
Coolant hoses: silicone where possible	<input type="checkbox"/>	<input type="checkbox"/>
Hose clamps: constant tension for coolant hoses and air intake system	<input type="checkbox"/>	<input type="checkbox"/>
Engine heater: Philips 1500w/115v	<input type="checkbox"/>	<input type="checkbox"/>
Chrome heater receptacle: mounted under driver's door	<input type="checkbox"/>	<input type="checkbox"/>
Cast iron front and rear engine supports	<input type="checkbox"/>	<input type="checkbox"/>
Starter: Delco 12v 39 MT+ HD OCP	<input type="checkbox"/>	<input type="checkbox"/>
TRANSMISSION AND EQUIPMENT		
Allison RDS 4700 automatic transmission with PTO provision	<input type="checkbox"/>	<input type="checkbox"/>
Programming for 70 mph output speed	<input type="checkbox"/>	<input type="checkbox"/>
S1 performance primary shift schedule	<input type="checkbox"/>	<input type="checkbox"/>
1800 rpm primary mode shift speed	<input type="checkbox"/>	<input type="checkbox"/>
Disable-load based shift schedule	<input type="checkbox"/>	<input type="checkbox"/>
Transmission prognostics-enabled	<input type="checkbox"/>	<input type="checkbox"/>
PTO mounting LH & RH side of main transmission	<input type="checkbox"/>	<input type="checkbox"/>
Water to oil transmission cooler	<input type="checkbox"/>	<input type="checkbox"/>
Magnetic plugs, engine drain	<input type="checkbox"/>	<input type="checkbox"/>
Transmission drain, axle(s) fill & drain	<input type="checkbox"/>	<input type="checkbox"/>
Dash mounted push button shift control	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic transmission fluid	<input type="checkbox"/>	<input type="checkbox"/>
Transmission oil check and fill with electronic oil level check	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
FRONT AXLE AND SUSPENSION		
Meritor 20000# front axle	<input type="checkbox"/>	<input type="checkbox"/>
Meritor 16.5 x 6 q+ high capacity cast spider cam front brakes	<input type="checkbox"/>	<input type="checkbox"/>
Brakes, double anchor, fabricated shoe	<input type="checkbox"/>	<input type="checkbox"/>
Non-asbestos front brake lining severe service	<input type="checkbox"/>	<input type="checkbox"/>
Conmet cast iron front brake drums	<input type="checkbox"/>	<input type="checkbox"/>
Front brake dust shields	<input type="checkbox"/>	<input type="checkbox"/>
Front oil seals	<input type="checkbox"/>	<input type="checkbox"/>
Seals	<input type="checkbox"/>	<input type="checkbox"/>
Stemco aluminum vented front hub caps	<input type="checkbox"/>	<input type="checkbox"/>
With window and center+side plugs – oil	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic 75w-90 front axle lube	<input type="checkbox"/>	<input type="checkbox"/>
Haldex automatic front slack adjusters with stainless steel clevis pins	<input type="checkbox"/>	<input type="checkbox"/>
Bendix high capacity 20-23k power steering with rh auxiliary gear	<input type="checkbox"/>	<input type="checkbox"/>
Power steering pump oil air cooler	<input type="checkbox"/>	<input type="checkbox"/>
4 quart power steering see thru reservoir	<input type="checkbox"/>	<input type="checkbox"/>
23,000# flat leaf front suspension	<input type="checkbox"/>	<input type="checkbox"/>
Threaded spring pins and bushings	<input type="checkbox"/>	<input type="checkbox"/>
Front shock absorbers	<input type="checkbox"/>	<input type="checkbox"/>
REAR AXLE AND SUSPENSION		
Meritor rt-52-185 52000# tandem rear axle	<input type="checkbox"/>	<input type="checkbox"/>
Factory installed Watson/Chalin sl-2065 Tru-Track 20000# air lift	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
REAR AXLE AND SUSPENSION (Cont'd)		
Steerable pusher suspension with 16.5x6" brakes, dust shields and FL 1 Watson/chalin 20000# axle	<input type="checkbox"/>	<input type="checkbox"/>
Pusher axle controls in cab, up/down valve, gauge and air pressure regulator	<input type="checkbox"/>	<input type="checkbox"/>
Reverse lift axle warning with last state retention	<input type="checkbox"/>	<input type="checkbox"/>
Air piping for liftable pusher axle controls mounted inside cab	<input type="checkbox"/>	<input type="checkbox"/>
52" pusher axle spacing	<input type="checkbox"/>	<input type="checkbox"/>
Iron rear axle carrier housing	<input type="checkbox"/>	<input type="checkbox"/>
SPL250HD XL Dana Spicer main driveline w/half round yokes	<input type="checkbox"/>	<input type="checkbox"/>
SPL170 XL Dana Spicer interaxle driveline w/half round yokes	<input type="checkbox"/>	<input type="checkbox"/>
Driver control differential lockout rear/rear with indicator light for traction device	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic 75W-90W all axles	<input type="checkbox"/>	<input type="checkbox"/>
Meritor 16.5x7" P cam double anchor cast shoes	<input type="checkbox"/>	<input type="checkbox"/>
Non-asbestos rear brake lining	<input type="checkbox"/>	<input type="checkbox"/>
Webb cast iron rear brake drums	<input type="checkbox"/>	<input type="checkbox"/>
Rear brake dust shields	<input type="checkbox"/>	<input type="checkbox"/>
Haldex automatic rear slack adjusters with stainless steel clevis pins	<input type="checkbox"/>	<input type="checkbox"/>
Rear oil seals	<input type="checkbox"/>	<input type="checkbox"/>
Bendix eversure longstroke 2-drive axle spring	<input type="checkbox"/>	<input type="checkbox"/>
Forward of axle mounted parking chambers	<input type="checkbox"/>	<input type="checkbox"/>
Standard spindle nuts for all axles	<input type="checkbox"/>	<input type="checkbox"/>
Tuf-trac 52000# inverted leaf rear suspension	<input type="checkbox"/>	<input type="checkbox"/>
Standard ride height	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
REAR AXLE AND SUSPENSION (Cont'd)		
56" axle spacing	<input type="checkbox"/>	<input type="checkbox"/>
Fore/aft and transverse control rods	<input type="checkbox"/>	<input type="checkbox"/>
Rear shock absorbers – one axle	<input type="checkbox"/>	<input type="checkbox"/>
BRAKE SYSTEM EQUIPMENT		
Wabco 4S/4M ABS without traction control	<input type="checkbox"/>	<input type="checkbox"/>
Reinforced nylon, fabric braid & wirebraid chassis air lines	<input type="checkbox"/>	<input type="checkbox"/>
Bendix brake valves where possible	<input type="checkbox"/>	<input type="checkbox"/>
Relay valve with 5.5 psi crack pressure	<input type="checkbox"/>	<input type="checkbox"/>
Air connections to end of frame with glad hands	<input type="checkbox"/>	<input type="checkbox"/>
Bw ad-9si brake line air dryer w/heather	<input type="checkbox"/>	<input type="checkbox"/>
Air dryer frame mounted RH under cab	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum air brake reservoirs	<input type="checkbox"/>	<input type="checkbox"/>
Cab blow out kit with air hose and nozzle	<input type="checkbox"/>	<input type="checkbox"/>
Pull cables on all air reservoirs	<input type="checkbox"/>	<input type="checkbox"/>
FRAME AND WHEELBASE		
242" wheelbase with 150" c/t usable	<input type="checkbox"/>	<input type="checkbox"/>
.59 x 3.5 x 12.4 steel frame with .236" inner c-channel reinforcement	<input type="checkbox"/>	<input type="checkbox"/>
120 KSI 40.42 SM, 4,849,851 RBM	<input type="checkbox"/>	<input type="checkbox"/>
58 in. Overhang	<input type="checkbox"/>	<input type="checkbox"/>
24" integral front frame extension	<input type="checkbox"/>	<input type="checkbox"/>
Underslung crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Square end of frame	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
FRAME AND WHEELBASE (Cont'd)		
Heavy duty ductile iron engine crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty steel rear closing crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty steel construction back of transmission crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty steel bolted construction bolted midship #1 crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty steel bolted construction rear suspension forward crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty steel bolted construction rear mounted suspension crossmember	<input type="checkbox"/>	<input type="checkbox"/>
CHASSIS EQUIPMENT/TRAILER CONNECTIONS		
7-way trailer plug end of frame	<input type="checkbox"/>	<input type="checkbox"/>
3/8" severe duty steel bumper or custom bumper for hitch mounting	<input type="checkbox"/>	<input type="checkbox"/>
Phosphate-coated class 10.9 fine thread hex chassis fasteners	<input type="checkbox"/>	<input type="checkbox"/>
Exterior harnesses wrapped in abrasion tape, secondary covering and connector protection	<input type="checkbox"/>	<input type="checkbox"/>
Air piping and electrical independently clipped to frame	<input type="checkbox"/>	<input type="checkbox"/>
FUEL TANKS AND EQUIPMENT		
Single 70 gallon aluminum, minimum	<input type="checkbox"/>	<input type="checkbox"/>
LH fuel tank mounted forward	<input type="checkbox"/>	<input type="checkbox"/>
25" diameter fuel tank(s)	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum fuel tank bracket(s)	<input type="checkbox"/>	<input type="checkbox"/>
Plain aluminum fuel tank with polished stainless bands	<input type="checkbox"/>	<input type="checkbox"/>
Alliance fuel/water separator with heated bowl	<input type="checkbox"/>	<input type="checkbox"/>
Equipflo inboard fuel system	<input type="checkbox"/>	<input type="checkbox"/>
High temperature reinforced nylon fuel hose	<input type="checkbox"/>	<input type="checkbox"/>
No fuel cooler	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
FUEL TANKS AND EQUIPMENT (Cont'd)		
In tank fuel level sender	<input type="checkbox"/>	<input type="checkbox"/>
FRONT TIRES, HUBS AND WHEELS		
Michelin XZY-3 425/65R22.5 20 PLY	<input type="checkbox"/>	<input type="checkbox"/>
Conmet iron front hubs	<input type="checkbox"/>	<input type="checkbox"/>
Accuride 29807 4.75 inset 5 hand hd 22.5x12.25 10-hub pilot steel disc front wheels	<input type="checkbox"/>	<input type="checkbox"/>
REAR DRIVE & PUSHER TIRES, HUBS, & WHEELS		
Michlein xds2 11r 24.5 16 ply rear drive axle tires	<input type="checkbox"/>	<input type="checkbox"/>
Webb iron rear hubs	<input type="checkbox"/>	<input type="checkbox"/>
Accuride 28827 2 hand 24.5x8 .25 10-hub pilot steel	<input type="checkbox"/>	<input type="checkbox"/>
Steel disc rear wheels	<input type="checkbox"/>	<input type="checkbox"/>
Michelin XZY-3 425/65R22.5 20 ply pusher tires (2)	<input type="checkbox"/>	<input type="checkbox"/>
Accuride 29807 - 22.5 x 12.25" 4.75" inset 5 hand 10 hub pilot pusher wheels	<input type="checkbox"/>	<input type="checkbox"/>
Nylon wheel guards front and rear all interfaces	<input type="checkbox"/>	<input type="checkbox"/>
Wheel-Check High Visibility Green Loose Wheel Nut Indicator On All Wheels	<input type="checkbox"/>	<input type="checkbox"/>
CAB EXTERIOR		
Lower Right Hand Door Window with Fresnel Lens	<input type="checkbox"/>	<input type="checkbox"/>
121" BBC conventional steel reinforced aluminum cab	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized E coated sealed steel door construction	<input type="checkbox"/>	<input type="checkbox"/>
Forged steel door hinges with steel reinforced "a" pillar	<input type="checkbox"/>	<input type="checkbox"/>
Triple door seal system	<input type="checkbox"/>	<input type="checkbox"/>
Non-removable bug screen	<input type="checkbox"/>	<input type="checkbox"/>
Front cab mounts outboard of frame for stability or when taking off and applying torque from engine	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CAB EXTERIOR (Cont'd)		
Bolt on molded fender extensions	<input type="checkbox"/>	<input type="checkbox"/>
LH/RH exterior grabhandles with rubber insert and RH interior grab handle MTB to reinforced 'A' post	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel radiator mounted grille	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel radiator shell/hood bezel with tilt hood handle	<input type="checkbox"/>	<input type="checkbox"/>
Molded resin hood with isolated hood suspension mounting system	<input type="checkbox"/>	<input type="checkbox"/>
Hood opening strut assist with safety lock	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) Hadley sd-978 26" rect air horns	<input type="checkbox"/>	<input type="checkbox"/>
Single electric horn	<input type="checkbox"/>	<input type="checkbox"/>
Horn shields	<input type="checkbox"/>	<input type="checkbox"/>
All locks keyed the same; must have six (6) keys	<input type="checkbox"/>	<input type="checkbox"/>
Dual stage LED headlights with heated light system	<input type="checkbox"/>	<input type="checkbox"/>
Aerodynamic LED marker lights in stainless steel visor	<input type="checkbox"/>	<input type="checkbox"/>
Individual LED stop/tail/turn/backup lights flush mounted end of frame	<input type="checkbox"/>	<input type="checkbox"/>
Led rear facing turn signal lamps in convex mirror lens in addition to standard front turn signal lamps	<input type="checkbox"/>	<input type="checkbox"/>
Dual C bar mirror system bright finish c-bar, heated mirrors, dual remote, turn signal, stainless steel back cover with integral convex	<input type="checkbox"/>	<input type="checkbox"/>
Door mounted mirrors with control switches on door panels	<input type="checkbox"/>	<input type="checkbox"/>
102" equipment width	<input type="checkbox"/>	<input type="checkbox"/>
LH/RH heated hood mounted side view mirrors, black finish	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel exterior sun visor	<input type="checkbox"/>	<input type="checkbox"/>
3 piece solar tinted impact resistant polycarbonate rear window configuration (1) 31 x 20" (2) 9 x 20"	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CAB EXTERIOR (Cont'd)		
Tinted door glass LH & RH tinted	<input type="checkbox"/>	<input type="checkbox"/>
Electric door window regulators	<input type="checkbox"/>	<input type="checkbox"/>
1 piece tinted roped in seal mounted full grid heated windshield	<input type="checkbox"/>	<input type="checkbox"/>
2 gallon windshield washer reservoir with fluid level indicator	<input type="checkbox"/>	<input type="checkbox"/>
CAB INTERIOR		
Gray vinyl premium interior	<input type="checkbox"/>	<input type="checkbox"/>
Black mats with double insulation	<input type="checkbox"/>	<input type="checkbox"/>
12 volt power supply in dash	<input type="checkbox"/>	<input type="checkbox"/>
Dash mounted ash tray & lighter	<input type="checkbox"/>	<input type="checkbox"/>
Forward roof mounted console	<input type="checkbox"/>	<input type="checkbox"/>
Map pockets, left and right doors	<input type="checkbox"/>	<input type="checkbox"/>
Cab Coat hook(s)	<input type="checkbox"/>	<input type="checkbox"/>
Wraparound wing dash with six digital gauges in driver command center and up to 13 gauges on the dash	<input type="checkbox"/>	<input type="checkbox"/>
5 lb. Fire extinguisher mounted	<input type="checkbox"/>	<input type="checkbox"/>
Heater, defroster and air conditioner	<input type="checkbox"/>	<input type="checkbox"/>
Main HVAC with constant temp control and cosmetic cover main fresh air inlet with fresh air filter	<input type="checkbox"/>	<input type="checkbox"/>
Standard heater plumbing with ball shut off valves at supply lines	<input type="checkbox"/>	<input type="checkbox"/>
Air conditioner compressor	<input type="checkbox"/>	<input type="checkbox"/>
Radiator MTD A/C condenser	<input type="checkbox"/>	<input type="checkbox"/>
R-134A refrigerant	<input type="checkbox"/>	<input type="checkbox"/>
Cab insulation w/additional noise/thermal treatment front & back walls	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CAB INTERIOR (Cont'd)		
Centralized logic controllers in main dash electrical panels, houses VPDM onboard ECU and TEM programmable modules	<input type="checkbox"/>	<input type="checkbox"/>
Multiplexed electrical system	<input type="checkbox"/>	<input type="checkbox"/>
Color-coded and laser-etched wiring	<input type="checkbox"/>	<input type="checkbox"/>
Premium LED cab lighting	<input type="checkbox"/>	<input type="checkbox"/>
Cab door latches with electric door locks	<input type="checkbox"/>	<input type="checkbox"/>
Triangular reflectors without flares	<input type="checkbox"/>	<input type="checkbox"/>
Elite high back air suspension driver and passenger seats with 3 Chamber air lumbar support, integrated cushion extension, forward and rear cushion tilt, with heat and adjustable shock absorber inboard and outboard driver and passenger arm rests	<input type="checkbox"/>	<input type="checkbox"/>
Gray vinyl driver and passenger seat cover	<input type="checkbox"/>	<input type="checkbox"/>
3-point driver & passenger seat belts including seatbelt retractor	<input type="checkbox"/>	<input type="checkbox"/>
Adjustable tilt and telescoping steering column	<input type="checkbox"/>	<input type="checkbox"/>
450mm (18") black steering wheel with multifunction integrated controls	<input type="checkbox"/>	<input type="checkbox"/>
Driver/passenger interior sun visors	<input type="checkbox"/>	<input type="checkbox"/>
INSTRUMENT PANELS AND CONTROLS		
Wrap around dash that allows up to 13 gauges and driver command center with up to six (6) digital gauges	<input type="checkbox"/>	<input type="checkbox"/>
Panel with teak color surround w/round gauges	<input type="checkbox"/>	<input type="checkbox"/>
Teak color center access instrument panel	<input type="checkbox"/>	<input type="checkbox"/>
Low air pressure light and buzzer	<input type="checkbox"/>	<input type="checkbox"/>
Primary & secondary air pressure gauges	<input type="checkbox"/>	<input type="checkbox"/>
Intake mounted air restriction gauge	<input type="checkbox"/>	<input type="checkbox"/>
87 db to 112 db self-adjusting backup alarm	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
INSTRUMENT PANELS AND CONTROLS (Cont'd)		
Cruise control-electronic, controls on steering wheel	<input type="checkbox"/>	<input type="checkbox"/>
Electronic mph speedometer and 2500 rpm tachometer	<input type="checkbox"/>	<input type="checkbox"/>
Key operated ignition switch & integral	<input type="checkbox"/>	<input type="checkbox"/>
Start position, four (4) position off/run/start	<input type="checkbox"/>	<input type="checkbox"/>
Headlights on with wipers with daytime running lights	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary PDM for TEM use	<input type="checkbox"/>	<input type="checkbox"/>
Electric fuel gauge		
Electrical engine coolant temp gauge	<input type="checkbox"/>	<input type="checkbox"/>
Transmission oil temperature gauge	<input type="checkbox"/>	<input type="checkbox"/>
Engine and trip hour meters integral within driver display	<input type="checkbox"/>	<input type="checkbox"/>
Engine oil pressure gauge	<input type="checkbox"/>	<input type="checkbox"/>
AM/FM WB world tuner cd stereo radio with Bluetooth, iPod interface	<input type="checkbox"/>	<input type="checkbox"/>
USB and auxiliary inputs, J1939	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) radio speakers (cab only)	<input type="checkbox"/>	<input type="checkbox"/>
Headliner multi-band antenna AM/FM/Weatherband, Wi-Fi/Bluetooth, GNSS/GPS	<input type="checkbox"/>	<input type="checkbox"/>
Electronic outside temperature sensor display in driver message center	<input type="checkbox"/>	<input type="checkbox"/>
PTO switch and four (4) dash mounted aux.switches WTH indicator lights	<input type="checkbox"/>	<input type="checkbox"/>
Engine, trip and PTO hour meter within driver display	<input type="checkbox"/>	<input type="checkbox"/>
Hand control valve	<input type="checkbox"/>	<input type="checkbox"/>
Voltmeter	<input type="checkbox"/>	<input type="checkbox"/>
Rotary headlamp switch, marker lights/headlights switch with pull out for optional road lamps	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
INSTRUMENT PANELS AND CONTROLS (Cont'd)		
Wiring and switch for customer furnished snow plow lamps with dual connections at bumper	<input type="checkbox"/>	<input type="checkbox"/>
Switch indicator light and 10' of wire on chassis LH back of cab for customer furnished utility lights	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) valve parking brake system	<input type="checkbox"/>	<input type="checkbox"/>
Self-cancelling turn signal switch with integral head lamp dimmer headlamp flash, wash wipe intermittent	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty electronic flasher	<input type="checkbox"/>	<input type="checkbox"/>
PAINT/FINISH		
Rail black high solids	<input type="checkbox"/>	<input type="checkbox"/>
Paint shall be base coat clear coat. Colors shall come from standard color chart or Ocean County Road Department Color Scheme as found in options	<input type="checkbox"/>	<input type="checkbox"/>
Chassis frame: Polyurethane	<input type="checkbox"/>	<input type="checkbox"/>
Wheels/Rims:		
Rear/pusher wheel color: vendor powder black	<input type="checkbox"/>	<input type="checkbox"/>
Front wheel color: Vendor powder black	<input type="checkbox"/>	<input type="checkbox"/>
UNDERCOATING		
Entire truck chassis, underside of cab and underside of body to be coated with Tectyl 2423 haps free black, which is a low VOC, high solids, emulsion corrosion Preventive coating, or equal	<input type="checkbox"/>	<input type="checkbox"/>
WARRANTY		
Basic vehicle - 1 year, 50,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Battery - 1 year, 50,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Brightwork – 6 months, unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Cab corrosion/perforation – 5 years, unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Cab structure – 1 year, 100,000 miles	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
WARRANTY (Cont'd)		
Corrosion – 6 months, unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Crossmembers – 3 years, 300,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Diesel Emission 2010 – 5 years, 100,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Greenhouse Gas 14/17 (medium heavy duty to heavy heavy duty trucks/tractors) – 5 years, 100,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Greenhouse Gas 14/17 tire (file direct) – 2 years, 24,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Frame rails – 3 years, 300,000	<input type="checkbox"/>	<input type="checkbox"/>
Front/steer axle: Detroit – 1 year, unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Front/steer axle: non-Detroit – 1 year, 100,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Paint – 1 year, 50,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Paint, chassis – 6 months, unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Rear axle: Detroit – 1 year, unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Rear axle: non-Detroit – 1 year, 100,000 miles	<input type="checkbox"/>	<input type="checkbox"/>
Towing – 5 years, unlimited miles	<input type="checkbox"/>	<input type="checkbox"/>
Cummins 5 year 100,000 mile engine and ATS warranty	<input type="checkbox"/>	<input type="checkbox"/>
Cummins protection plan i:		
<ul style="list-style-type: none"> • Internal components, major engine systems and major components • Registered parts and labor • Covers the following, including mounting hardware and gaskets: cylinder head assembly, cylinder block assembly, Rocker level assembly, ECM, piston, rings and liners; lube oil cooler assembly, front gear cover, oil pan, connecting rod assembly, front gear cover, oil pan, connectingrod assembly, Lube pump assembly, camshaft and bushings; cam follower assemblies, crank shaft assemblies, EGR cooler, valve and mixer; Fuel injectors (excluding aftertreatment injector), turbo, water pump, fuel pump, air compressor, select engine sensors and flywheel. 	<input type="checkbox"/>	<input type="checkbox"/>
Allison 7 year unlimited miles transmission warranty	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY		
Model #SSHD176066 304 acid wash, or equal	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL		
Floor ¼” 450 Brinell	<input type="checkbox"/>	<input type="checkbox"/>
Front 3/16” Stainless Steel 304	<input type="checkbox"/>	<input type="checkbox"/>
Sides 3/16” Stainless Steel 304	<input type="checkbox"/>	<input type="checkbox"/>
Tailgate 3/16” stainless steel 304	<input type="checkbox"/>	<input type="checkbox"/>
Long sills 3/16” 250 Brinell steel	<input type="checkbox"/>	<input type="checkbox"/>
Outside body width – 96”	<input type="checkbox"/>	<input type="checkbox"/>
Hoist attachment – front mount	<input type="checkbox"/>	<input type="checkbox"/>
Front design – 12” hoist recessed 90° corners	<input type="checkbox"/>	<input type="checkbox"/>
Front height including longsills – 72”	<input type="checkbox"/>	<input type="checkbox"/>
Longsills shape – formed 10”	<input type="checkbox"/>	<input type="checkbox"/>
34” longsills outside width	<input type="checkbox"/>	<input type="checkbox"/>
27” longsills inside width	<input type="checkbox"/>	<input type="checkbox"/>
Sandblasts and primer – glass bead blasting	<input type="checkbox"/>	<input type="checkbox"/>
Underbody to be painted chassis black	<input type="checkbox"/>	<input type="checkbox"/>
One (1) d-ring top of tailgate	<input type="checkbox"/>	<input type="checkbox"/>
CABSHIELD		
Cabshield type – traditional	<input type="checkbox"/>	<input type="checkbox"/>
Cabshield length – 24”	<input type="checkbox"/>	<input type="checkbox"/>
Cabshield width – 90” cabshield height – to be determined to match chassis height	<input type="checkbox"/>	<input type="checkbox"/>
Light holes configuration – 4 oval lights holes	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY (Cont'd)		
CABSHIELD (Cont'd)		
Cabshield installation	<input type="checkbox"/>	<input type="checkbox"/>
SIDE		
Side shape – formed side	<input type="checkbox"/>	<input type="checkbox"/>
Top rail section – formed	<input type="checkbox"/>	<input type="checkbox"/>
6” board pocket and intermediate bracket	<input type="checkbox"/>	<input type="checkbox"/>
Double walking rail; stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
3/8” stainless steel upper tarp rail	<input type="checkbox"/>	<input type="checkbox"/>
REAR		
Double acting tailgate (lays flat or dumps through)	<input type="checkbox"/>	<input type="checkbox"/>
Lock positioning – end point latch system	<input type="checkbox"/>	<input type="checkbox"/>
Bolster shape – standard flat rear bolster	<input type="checkbox"/>	<input type="checkbox"/>
Tailgate angle- straight	<input type="checkbox"/>	<input type="checkbox"/>
Locking system – air cylinder size 2.5”; push/pull air controls	<input type="checkbox"/>	<input type="checkbox"/>
Tailgate panel – Two (2) panels	<input type="checkbox"/>	<input type="checkbox"/>
HOIST		
Mailhot cs 160-6.5-4 da, or equal	<input type="checkbox"/>	<input type="checkbox"/>
ACCESSORIES TO BE INCLUDED		
One (1) Complete Set of Filters For Cab/Chassis, Drive Train And Upfit	<input type="checkbox"/>	<input type="checkbox"/>
5 Gallons of Recommended-Use Hydraulic Fluid	<input type="checkbox"/>	<input type="checkbox"/>
One (1) spare front tire and wheel and one (1) spare rear wheel and tire	<input type="checkbox"/>	<input type="checkbox"/>
INSTALLATION PARTS		
40 ton cradle	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY (Cont'd)

INSTALLATION PARTS (Cont'd)

40 ton hoist bracket

40-50 ton upper cylinder blocks (2)

MISCELLANEOUS

One (1) oval stop/tail/turn light in each rear corner post

Wiring for standard dump body lights enclosed in a sealed waterproof
 Wiring harness (split loom **NOT ACCEPTABLE**)

One (1) set stainless steel stone guards – mounted on frame

Body and hoist shall come complete with manufacturer’s safety decals
 And operating instructions

Body and hoist warranted to be free from defects in material and workmanship
 under normal use and service for a period of five (5) years

One (1) stainless steel grab handle

3M reflective tape on both sides of body and on 9-panel tailgate

Two (2) shovel holders – one front, one rear

ACCESSORIES TO BE INCLUDED

Safety lighting – six (6) oval led amber strobe lights with amber lenses

Two (2) recessed into rear post, two (2) at sides of cabshield and two (2) in front
 of cab shield

All body lights shall be LED and Heated

One (1) set of Meyer Saber heated and LED plow lights mounted on hood of chassis
 With stainless steel mounts. Location to be determined by county at time of build

Two (2) forward facing Whelen strobe lights mounted on snow plow lights bracket
 to be powered by its own switch, part # RSA03ZCR

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY (Cont'd)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>

ACCESSORIES TO BE INCLUDED

Four (4) step double fold stainless steel folding ladder with grab handle; stainless Steps above ladder on outside and inside of body with stainless steel steps on side Of body

2" x 6" oak wood side boards

SPECIFICATIONS FOR PIONEER MODEL EDD 1500A-A TARP, OR EQUAL

Side mount – steel framework

Roller assembly – telescopic 3 piece

Left roller tube – 2.140" OD X 2" ID 6105-T6 aluminum extrusion with bushing and stainless steel roll pin to accept motor shaft

Right roller tube – 2.140" OD X 2" ID 6105-T6 aluminum extrusion with bushing. 1" OD 6061-T6 aluminum shaft and stainless steel oil pin

Center section – 1.960" OD X 1.820" ID 6105-T6 aluminum extrusion

Bearing plates – ¼" H.R.S

Bearings – flange mounted sealed ball bearings

Roll mounting angles - 1 ½" x 2 x ¼" steel angle

Direct drive gearmotor: mounted directly to left side roller. Worm and wheel Configuration. Permanently lubricated, sealed gearbox. 90 to 1 ratio. Output shaft Is supported by ball bearings on both ends. Output shaft is directly coupled to Left side roller. Electric motor is .85 horsepower. Aluminum gearbox housing. Plastic protective cover. ¾" od output shaft. Motor is thermally protected By automatic resetting circuit breaker.

PIVOT ARM: FRAMEWORK

Pivot arms: 1 5/8" OD X 11 gauge aluminum tubing; 2 piece construction

Rear section: 1 5/8" OD X 11 gauge aluminum tubing

Bows: 1 5/16" OD X 11 gauge aluminum tubing

Arm mounting brackets: steel weldment

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
SPECIFICATIONS FOR PIONEER MODEL EDD 1500A-A TARP, OR EQUAL (Cont'd)		
PIVOT ARM: FRAMEWORK (Cont'd)		
Base plate: ¼” H.R.S	<input type="checkbox"/>	<input type="checkbox"/>
Mounting hub: 4” OD steel tube	<input type="checkbox"/>	<input type="checkbox"/>
Spring: reverse wound torsion spring – ½” diameter wire	<input type="checkbox"/>	<input type="checkbox"/>
Wire PER ASTM A229 Class I	<input type="checkbox"/>	<input type="checkbox"/>
SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE		
FABRIC		
Asphalt tarp	<input type="checkbox"/>	<input type="checkbox"/>
CONSTRUCTION		
Seamless front to rear rectangular in shape, 85” wide, grommets on front And sides, pocket at rear	<input type="checkbox"/>	<input type="checkbox"/>
WIRING AND ELECTRICAL		
All wire shall be 8 gauge stranded cable. All connectors are ring type, high Amperage self-centering rotary switch (momentary on – of – momentary on), Thermal reset circuit breaker (auto reset)	<input type="checkbox"/>	<input type="checkbox"/>
PTO		
PTO shall be of a hot shift design driven off the Allison automatic transmission. PTO shall have a direct mount rotatable pump flange. There shall be a console Mounted rocker switch to engage and disengage the PTO. Must be Chelsea.	<input type="checkbox"/>	<input type="checkbox"/>
HYDRAULIC PUMP WITH PTO		
Shall be on an open circuit axial piston design with adjustable compensator.	<input type="checkbox"/>	<input type="checkbox"/>
Pump operating pressure must adjust to the actual load pressure plus a pressure Differential required for the controlled action.	<input type="checkbox"/>	<input type="checkbox"/>
When the system is not demanding power, the load sense control will operate In an energy-saving stand-by mode.	<input type="checkbox"/>	<input type="checkbox"/>
Minimum pump displacement is 80cc/ 4.9 cubic inches, delivering 42 GPM at 2,000 rpm.	<input type="checkbox"/>	<input type="checkbox"/>
Pump minimum displacement shall be 90 cubic centimeters continuously rate at 350 bar (5,000 psi). Standby pressure shall be 350 psi.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>

HYDRAULIC PUMP WITH PTO

Mounting is an SAE C 4-bolt flange	<input type="checkbox"/>	<input type="checkbox"/>
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Shaft is 1.25” diameter, 14 tooth splined	<input type="checkbox"/>	<input type="checkbox"/>
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Rpm is rated to 2300 (continuous) with pressure and flow compensator control	<input type="checkbox"/>	<input type="checkbox"/>
--	--------------------------	--------------------------

Rear ported, flange mounted suction port shall meet the following requirements:

- Suction port minimum 2.5”
- Must use (4) m8 x 16-8.8 mounting bolts

The rear SAE ported pressure port shall meet the following requirements:

- | | | |
|---|--------------------------|--------------------------|
| <ul style="list-style-type: none"> • Pressure port minimum 1” sae-16 O-ring boss | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|--------------------------|

MOUNT

Pump must mount directly to a PTO on ALLISON 4500 series transmissions Without requiring bent axis or external mounting hardware.	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	--------------------------

Pump must offer mounting flanges N SAE and ISO configurations, and ports are Offered in SAE and ISO tube and flange versions.	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	--------------------------

Side or end-ported models must be available to facilitate plumbing and help fit The pump to your space.	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	--------------------------

Multiple drain ports allow many mounting orientations - must be standard.	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	--------------------------

PUMP

The hydraulic system must include a low oil shutdown with momentary override. The system shall disengage the PTO is a low oil scenario should occur. The operator Will have the ability to temporarily override the shutdown to park all hydraulic Implements for travel.	<input type="checkbox"/>	<input type="checkbox"/>
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CONTROL VALVE GRENSON VALVE WITH PRIORITY FLOW INLET

Central hydraulic valve system shall be a mobile design to withstand exposure to Deicing chemicals and severe weather conditions	<input type="checkbox"/>	<input type="checkbox"/>
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System shall provide hydraulic fluid to operate the dump body hoist, front plow, And granular spreader system	<input type="checkbox"/>	<input type="checkbox"/>
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Hydraulic system can run all hydraulic functions simultaneously without Inhibiting the action of the others	<input type="checkbox"/>	<input type="checkbox"/>
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ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

CONTROL VALVE GRENSON VALVE WITH PRIORITY FLOW INLET (Cont'd)

Valve sections shall be of cast iron, horizontally stackable, and Serviceable without disassembly	<input type="checkbox"/>	<input type="checkbox"/>
Directional control valves shall be pre-compensated, proportional, And load independent	<input type="checkbox"/>	<input type="checkbox"/>
Valve system shall be closed center for variable displacement pump	<input type="checkbox"/>	<input type="checkbox"/>
Valve sections must be adjustable for pressure up to 5,500 psi and flow ratings up to 40 GPM.	<input type="checkbox"/>	<input type="checkbox"/>
Each valve must be laminar flow design for minimal pressure drop. Where Required, each section must be able to limit the operating speed for the implement.	<input type="checkbox"/>	<input type="checkbox"/>
Each section must be manually activated with manual push/pull cables	<input type="checkbox"/>	<input type="checkbox"/>
There shall be a main pressure relieve set at 2,400 psi to protect against System over-pressurization	<input type="checkbox"/>	<input type="checkbox"/>
Hoist section must be a PVG 100, 40 GPM 4-way section for double Acting hoist	<input type="checkbox"/>	<input type="checkbox"/>
Plow lift and angle sections are also 4-way for double acting cylinders With crossover relief	<input type="checkbox"/>	<input type="checkbox"/>
Spreader section shall have detent on one side of valve and self-centering on reverse Side of valve.	<input type="checkbox"/>	<input type="checkbox"/>
<i>Note: Please Refer To the 'Modular Granular and Liquid Valve' Section Of Option 1B. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications.</i>	<input type="checkbox"/>	<input type="checkbox"/>
All hydraulic hoses must be bulkhead mounted with metal tube style connectors. all tubes shall be labeled with the hydraulic operation	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer must be authorized to perform warranty repairs and periodic Maintenance on hydraulic valve sections	<input type="checkbox"/>	<input type="checkbox"/>
SPREADER CONTROL		
Spreader control shall be a dual knob valve with on/off handle.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>
	<u>YES</u> <u>NO</u>
SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)	

SPREADER CONTROL (Cont'd)

- | | | |
|---|--------------------------|--------------------------|
| Shall have individual flow adjustment knobs for the spinner and auger. | <input type="checkbox"/> | <input type="checkbox"/> |
| Shall include a relief cartridge to protect the motors in the event of a material jam | <input type="checkbox"/> | <input type="checkbox"/> |
| Valve shall feature spinner priority to reduce material pile up from the auger at low flow conditions | <input type="checkbox"/> | <input type="checkbox"/> |

CABLE CONTROLS

- | | | |
|---|--------------------------|--------------------------|
| Control valve shall be shifted via sealed cable assemblies | <input type="checkbox"/> | <input type="checkbox"/> |
| Cable assembly shall feature a polyethylene conduit with armor over braid and Teflon liner | <input type="checkbox"/> | <input type="checkbox"/> |
| Cable assembly shall be rated for a minimum of 100 lbs of pull and 80 lbs of push | <input type="checkbox"/> | <input type="checkbox"/> |
| Cables shall be attached to the hydraulic valve with clevis pin and locking clips | <input type="checkbox"/> | <input type="checkbox"/> |
| Cable to be attached to an in cab handle. Handle will be mounted in a location convenient to the operator. The handle shall feature cast base construction with steel internal parts and be rated for 80 lbs. Of output force. A knob with identification label will be attached to the end of the handle | <input type="checkbox"/> | <input type="checkbox"/> |

RESERVOIR/VALVE ENCLOSURE

- | | | |
|--|--------------------------|--------------------------|
| Reservoir must be constructed of 10 gauge stainless steel. Reservoir/valve enclosure shall be 40 gallon capacity with an integrated covered mounting area for the valve. All plumbing for the hydraulic valve inside the enclosure shall be SAE rated stainless steel tubing and terminate on the front of the reservoir with JIC bulkhead connectors. The breather cap shall be mounted to an inspection lid. Inspection lid shall also provide for an in tank mounted return line filter. The filter assembly shall incorporate a 10 Micron 50 GPM filter element with a 25 psi bypass. The reservoir will include a twist off filler/breather assembly with 40 micron vent filter and a fill screen. Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port will allow for installation of a 2” NPT 50 GPM suction screen. Suction screen shall have a 3 to 5 psi bypass spring. A 2” full flow ball valve shall be installed in the suction line. Removing of a lid to access the filter and breather cap is NOT ACCEPTABLE . The reservoir shall have a float switch to control PTO operation in the event of low oil. | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|--------------------------|

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
WARRANTY FOR A CERTIFIED CENTRAL HYDRAULIC SECTIONAL VALVE GROUP FOR PLOW, AUGER AND SPINNER		
Warranty coverage runs for a period of one year from the date of Initial installation (or 13 months from day of shipment from certified Cirus control systems), or whichever occurs first.	<input type="checkbox"/>	<input type="checkbox"/>
WARRANTY FOR BUMPER-TO-FRAME PLOW HITCH (SPH-A0000152)		
One year from date of delivery	<input type="checkbox"/>	<input type="checkbox"/>
SPECIFICATIONS FOR V-BOX SPREADER		
GENERAL		
147 series v-box hopper style salt and sand spreader. Spreader shall be capable Of hauling and spreading free flowing granular materials. Unit shall consist of a 304 stainless steel body, rear discharge conveyor, spinner disk, power drive and All components necessary to make a complete operating unit. Unit shall be Manufactured in the usa by an iso 9001:2008 certified company. Specifications on the unit must accompany the bid.	<input type="checkbox"/>	<input type="checkbox"/>
BODY REQUIREMENTS		
14 yard capacity	<input type="checkbox"/>	<input type="checkbox"/>
Inside length of hopper shall be 15’ at top and 12’ at bottom	<input type="checkbox"/>	<input type="checkbox"/>
Inside top width shall be 84”	<input type="checkbox"/>	<input type="checkbox"/>
Side slope to be 45° minimum	<input type="checkbox"/>	<input type="checkbox"/>
Front panel slopes shall be a minimum of 18°	<input type="checkbox"/>	<input type="checkbox"/>
Hopper seams shall be continuous welded on inside	<input type="checkbox"/>	<input type="checkbox"/>
Sides, ends and side supports shall be 10 gauge 304 stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
Top edge of hopper is formed “J” channel 2” x 1 ½”	<input type="checkbox"/>	<input type="checkbox"/>
Auger trough shall be 10 gauge 304 stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
Longsills shall be 10 gauge 304 stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
Cross sills shall be formed 7 gauge 304 stainless steel welded to side supports	<input type="checkbox"/>	<input type="checkbox"/>
Lift hooks on each corner are 5/8” stainless steel round bar	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
SPECIFICATIONS FOR V-BOX SPREADER (Cont'd)		
BODY REQUIREMENTS (Cont'd)		
All hardware is stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
3/8" rod on 3/8" rod top grate screens with anti-freeze hinges are required equipment With auger conveyor v-box units	<input type="checkbox"/>	<input type="checkbox"/>
AUGER REQUIREMENTS		
Twin 7" diameter hard faced variable pitch augers	<input type="checkbox"/>	<input type="checkbox"/>
64 cir direct drive hydraulic motor	<input type="checkbox"/>	<input type="checkbox"/>
Motor is directly coupled to end of auger shafts	<input type="checkbox"/>	<input type="checkbox"/>
Auger shafts connect at front with a 2" 4 bolt flange bearing	<input type="checkbox"/>	<input type="checkbox"/>
Rear auger drive has no motor guard bolted to rear	<input type="checkbox"/>	<input type="checkbox"/>
One (1) led spreader light mounted to spreader box	<input type="checkbox"/>	<input type="checkbox"/>
Four (4) 6" oval amber strobe lights with amber lenses mounted in stainless Steel tissue box	<input type="checkbox"/>	<input type="checkbox"/>
SPINNER CHUTE ASSEMBLY		
10 gauge 304 stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
Four (4) position telescopic adjustment	<input type="checkbox"/>	<input type="checkbox"/>
Four (4) bottom spinner deflectors shall be overlapping to prevent loss of granular material when the deflectors are raised.	<input type="checkbox"/>	<input type="checkbox"/>
Front deflector shall be fixed.	<input type="checkbox"/>	<input type="checkbox"/>
Bottom overlapping spinner deflectors shall have four (4) positions of rod and pin adjustment without tools. Chain adjustable deflectors are NOT ACCEPTABLE .	<input type="checkbox"/>	<input type="checkbox"/>
Poly 20" diameter spinner disc shall have replaceable machined hub	<input type="checkbox"/>	<input type="checkbox"/>
Spinner hydraulic motor shall mount directly on bottom of spinner disc	<input type="checkbox"/>	<input type="checkbox"/>
PAINT		
All metal surfaces shall be high pressure cleaned with a phosphate solution to Remove slag, splatter, oxide, and oil residue.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
SPECIFICATIONS FOR V-BOX SPREADER (Cont'd)		
PAINT (Cont'd)		
Non-stainless steel parts shall be painted or powder coated black	<input type="checkbox"/>	<input type="checkbox"/>
304 stainless steel components unpainted	<input type="checkbox"/>	<input type="checkbox"/>
TAILGATE LOCK KIT		
Main latch bar shall be 3" x 4.1 lb structural channel 84" wide	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) 3" x 4.1 lb x 8" structural channel with two (2) 1/2" x 1 1/2" mounting hole shall be welded to main channel to bolt on spreader	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) 1 1/4" x 7" round stock tailgate latches to be welded to main channel	<input type="checkbox"/>	<input type="checkbox"/>
TIE DOWN KIT		
Shall consist of four (4) chain style tie down assemblies	<input type="checkbox"/>	<input type="checkbox"/>
Chains shall be grade 30 3/8" x 29 links	<input type="checkbox"/>	<input type="checkbox"/>
Top plate shall be 1/4" x 4 triple broke a1011 powder coated steel With banjo eye to accept 3/8" chain	<input type="checkbox"/>	<input type="checkbox"/>
Tie down bracket shall be 1/4" x 4" x triple broke a1011 powder coated steel With 3/8" double link clevis to attach chain	<input type="checkbox"/>	<input type="checkbox"/>
3/4" zinc plated turnbuckle to have grease fitting	<input type="checkbox"/>	<input type="checkbox"/>
1/4" turnbuckle shall have 1/2" – 13 nut welded to center to secure turnbuckle	<input type="checkbox"/>	<input type="checkbox"/>
WARRANTY FOR 145-20 SERIES V-BOX SPREADER - 304 STAINLESS STEEL CONSTRUCTION		
All parts of the product to be free from defects in material and workmanship for a period of one (1) year	<input type="checkbox"/>	<input type="checkbox"/>
SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW MOLDBOARD SPECIFICATIONS		
42" H x 11' L	<input type="checkbox"/>	<input type="checkbox"/>
10 gauge carbon steel smooth rolled profile providing ultra-smooth Surface for snow deflection	<input type="checkbox"/>	<input type="checkbox"/>
Overhang from cutting edge to have minimum 12" overhang with 10° attack angle	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW (Cont'd)		
MOLDBOARD SPECIFICATIONS (Cont'd)		
Top of moldboard shall be reinforced by 2 ½” x 2 ½” x 3/8” angle iron. Bottom of Moldboard is reinforced by 4 x 4 x ¾” angle iron and is drilled to accommodate Aashto standards.	<input type="checkbox"/>	<input type="checkbox"/>
Ribs are reinforced with 2 x 2 x 3/8 angle as well as the upper and lower Reinforcement angels.	<input type="checkbox"/>	<input type="checkbox"/>
Ribs are 5” at the trip edge and 3” tall at the top edge by ½” wide	<input type="checkbox"/>	<input type="checkbox"/>
Ribs are spaced to match support arm locations as well as provide adequate Support of the moldboard	<input type="checkbox"/>	<input type="checkbox"/>
A total of 12 ribs shall be used per moldboard assembly	<input type="checkbox"/>	<input type="checkbox"/>
Three (3) sets of double ribs and six (6) single ribs	<input type="checkbox"/>	<input type="checkbox"/>
Each rib shall have a ½” relief at the corners where they attach to the reinforcement Angles. This will allow water to drain off the back of the moldboard during storage	<input type="checkbox"/>	<input type="checkbox"/>
At the bottom of each rib there shall be three (3) 1 5/16” holes spaced at 1 7/8” Center to center to allow for semi-circle height adjustments	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) sets of double ribs shall have three (3) 1 5/16” holes spaced at 2 ¼” center to Center to allow for attack angle adjustment	<input type="checkbox"/>	<input type="checkbox"/>
Weldments on the moldboard shall be continuous	<input type="checkbox"/>	<input type="checkbox"/>
Outer ribs of moldboard will be drilled for marker installation	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) curb guards mounted each side of moldboard	<input type="checkbox"/>	<input type="checkbox"/>
TRIP MECHANISM CONSTRUCTION		
Plow shall be full trip design consisting of two (2) coil springs	<input type="checkbox"/>	<input type="checkbox"/>
Springs are ¾” wire with a coil od of 5 9/16” consisting of 16 full coils	<input type="checkbox"/>	<input type="checkbox"/>
Bottom angle is reinforced by eleven (11) ½” thick gussets spaced evenly to avoid Interference with cutting edge attachment hardware	<input type="checkbox"/>	<input type="checkbox"/>
Cutting edge shall be 6” x 5/8” x 11’ long and shall be drilled to AASHTO standards	<input type="checkbox"/>	<input type="checkbox"/>
Cutting edge shall be secured using 5/8” grade 8 carriage bolts	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW (Cont'd)

PUSH FRAME

Designed to hydraulically reverse the moldboard in an arc at any angle from 35° left to 35° right from a centered position

Shall be constructed of 1/2" plate

Supported above and below the semi-circle with 2 x4 x 3/16" tubing

Shall be drilled to accept 1 1/2" bolt at the semi-circle connection. At this connection Welded to the push frame is the female portion of the socket connection. This connection Distributes the pushing load directly from the push frame to the semi-circle and moldboard Relieving stress on the bolted connection. The female socket connection is made from 1" Plate steel and is contoured to match the male portion on the semi-circle

Rear of push frame shall be drilled to accept a removable QCP adapter. Three (3) sets of 1 3/16" holes shall be drilled on 2" centers to allow for installation on a variety of Trucks and hitches

Two holes shall be located at the top and bottom push frame plates drilled to accept 1 1/2" bolts for hydraulic cylinder attachment

All welds are to be continuously welded. **NO EXCEPTIONS**

SEMI-CIRCLE CONSTRUCTION

Semi-circle shall be constructed from 5" x 5" x 3/16" tubing. The main tube, Or push beam, is 5" x 5" x 5/16" at 120 inches long spanning the entire width Of the moldboard. This tube is constructed from one continuous piece

There two stops placed appropriately to prevent the plow from turning Past 35° left or right

Crank style jackleg (part #0091215) to be mounted on backside of semi-circle

Hydraulic cylinder mounting points are 1/2" plates welded to the top and bottom Of the semi-circle. Plates shall be drilled to accept 1 1/2" bolts for hydraulic Cylinder attachment. These plates also serve as locators for support arm shackles And gussets to provide additional support from the "push beam" to the rest of The semi-circle.

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW (Cont'd)

SEMI-CIRCLE CONSTRUCTION (Cont'd)

In the center of the semi-circle a hole shall be drilled to accept the 1 ½” grade 8 bolt That acts as the pivot point for the push frame. Also, at this point above and below The semi-circle is the male portion of the socket that relieves stress from the bolted Connection. This is made from 1” plate steel and is contoured to match the female Portion of the push frame.

 Tabs shall be welded on the push frame to accept ½” screw type chain shackles. These tabs shall be made from ½” plate steel 5 ¼” long and 2 ½” wide. They are welded to the backside of the 5” tubular push beam to increase the Weld surface area at 55° from the bottom of the semi-circle to match the chain Angel going to the lift arm on the hitch

 There are seven set of ¾” thick moldboard mounting ears installed along the Push beam for attachment of the moldboard. Moldboard shall pivot at these points On 1 ¼” diameter rivet pins with a washer and cotter pin on the opposite Side of the rivet head.

 Four (4) sets of the moldboard mounting ears (two outer on either side of the push beam) Shall have an inside spacing of ¾” to accept a single ½” moldboard rib. Three (3) sets of moldboard mounting ears (the center sets) shall have an outside spacing of 2 ¾” to fit inside double moldboard ribs.

 Moldboard attachment ears to be gusseted with 4” triangular steel gussets

 Push frame shall connect to upper portion of the moldboard using two support Arms. The center of the support arm shall be made from 2 x 2 x ¼” square Box tube. Actual mounting points are 1” schedule 40 pipe fully welded through The box tubing. The box tubing shall be drilled through to accept the pipe. The actual connection point is a 7/8” bolt.

ADJUSTABLE CAST MUSHROOM SHOES

 Plow to be fitted with adjustable cast steel mushroom shoes mounted left and right on rear Of semi-circle

 A ½” steel plate to be welded onto the semi-circle rear with five (5) adjusting holes for Overall height

 Adjusting handle crank to be stowable against the shoe housing and allow up and down Movement of the shoe via threaded screw

 A 1 ¼” screw with adjusting nut are housed in a 3” square shoe housing with a welded On 5-hole mounting plate

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ADJUSTABLE CAST MUSHROOM SHOES (Cont'd)		
Cast steel mushroom plow shoe has 6” bolt centers, 3/4” square holes and is 10.625” in Diameter and 2.34 inches thick.	<input type="checkbox"/>	<input type="checkbox"/>
Grade 8 hardware shall be used throughout	<input type="checkbox"/>	<input type="checkbox"/>
HYDRAULICS		
Plow angle shall be controlled by two double acting hydraulics cylinders	<input type="checkbox"/>	<input type="checkbox"/>
Each cylinder shall have a 4” bore with an 8” rod diameter with a maximum Operating pressure of 3,000 psi.	<input type="checkbox"/>	<input type="checkbox"/>
Retracted cylinder length is 21” with both the rod and cylinder ends accepting 1 1/2” Bolts/pins for connecting to the semi-circle and push frame	<input type="checkbox"/>	<input type="checkbox"/>
QCP		
Push frame is equipped with a removable QCP adapter for quick hitch applications	<input type="checkbox"/>	<input type="checkbox"/>
QCP side plates shall be 1/2” formed plate	<input type="checkbox"/>	<input type="checkbox"/>
QCP loop diameter shall be 2”	<input type="checkbox"/>	<input type="checkbox"/>
PAINT		
Paint shall be of high quality, free of runs, overspray and defects	<input type="checkbox"/>	<input type="checkbox"/>
Standard paint type will be epoxy	<input type="checkbox"/>	<input type="checkbox"/>
Standard paint color shall be safety orange for the moldboard and black for the frame	<input type="checkbox"/>	<input type="checkbox"/>
BUMPER TO FRAME PLOW HITCH SPECIFICATIONS		
FRONT HITCH FRAME		
Snow plow hitch must clear hood when open	<input type="checkbox"/>	<input type="checkbox"/>
Frame is heavy duty, low profile, front frame mounted style. It is designed for use with Trucks equipped with a tilt hood and stationary grill	<input type="checkbox"/>	<input type="checkbox"/>
Frame is capable of self-storing the hydraulic front lift arm cylinder when not in operation, Allowing the lift arm to fold down parallel to the rest of the frame	<input type="checkbox"/>	<input type="checkbox"/>
Vertical supports of the hitch are constructed from 4” x 4” x 3/8” square tubing	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
BUMPER TO FRAME PLOW HITCH SPECIFICATIONS(Cont'd)		
FRONT HITCH FRAME (Cont'd)		
Cylinder support bracket on the hitch is constructed a 3" X 2" rectangular tube. The two cylinder mounting tabs are 1/2" steel placed in the center of support bracket and spaced at 2 1/8" apart. Each tab is drilled to accept		
A 1" pin.	<input type="checkbox"/>	<input type="checkbox"/>
The upper horizontal support of the hitch is constructed of two (2) pieces:		
<ul style="list-style-type: none"> • The first is a formed 3/8" plate that wraps the top and upper back portion of the Vertical supports this plate also acts as a stop when the lift cylinder is store as Well as one of two points the lift arms connection tabs are welded. • The second horizontal support is a 1/2" contoured plate that allows the lift cylinder To be stored and provides a second mounting point for the lift arm connection 		
Tabs	<input type="checkbox"/>	<input type="checkbox"/>
There are two (2) pairs of lift arm support shackles. Each pair is made from 1/2" x 9 3/4" Plate and are drilled to accept t 1/4" pins	<input type="checkbox"/>	<input type="checkbox"/>
Fully welded to the vertical supports are two c 8" x 18.75" channels with 1/2" thick end Plates. The end plates are drilled to accept six (6) 5/8" grade 8 bolts for attaching the hitch Between the frame rails	<input type="checkbox"/>	<input type="checkbox"/>
Support of the lower portion of the hitch is provided by left and right weldments bolted to The tapered portion of the frame. Weldments are drilled with four (4) 5/8" holes for Mounting to the exterior of the truck frame.	<input type="checkbox"/>	<input type="checkbox"/>
A 12-volt electric over hydraulic pump to operate the front hitch wing post slide located Behind cab	<input type="checkbox"/>	<input type="checkbox"/>
FRONT HITCH PIN LOCK QCP		
Front plow attachment is made by a pin lock QCP assembly	<input type="checkbox"/>	<input type="checkbox"/>
Top and bottom of the assembly are made from 1/2" contoured plate. Both plates are Drilled to accept the 2" lock pin	<input type="checkbox"/>	<input type="checkbox"/>
Welded to the bottom plate is a 5/8" chamfered plate that both provides support to the Lock pin and helps to guide the QCP loop into the hitch	<input type="checkbox"/>	<input type="checkbox"/>
Welded to the top of the plate is a formed 3/8" plate drilled for the 2" lock pin that Both provides support and protects the pin in the event a plow is set too high while Hitching.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
BUMPER TO FRAME PLOW HITCH SPECIFICATIONS (Cont'd)		
FRONT HITCH PIN LOCK QCP (Cont'd)		
In the front of the QCP assembly are two (2) ½” thick formed bumpers. These bumpers are the resting/pushing point for the plow. They are curved to allow the plow to raise and lower smoothly.	<input type="checkbox"/>	<input type="checkbox"/>
Lock pin is 2” tapered at one end for ease in guiding into position and has tabs welded to the other for the lift bar attachment	<input type="checkbox"/>	<input type="checkbox"/>
HEAVY DUTY ARM LIFT ASSEMBLY		
Heavy duty lift arm is extendable style with seven (7) different extendable positions	<input type="checkbox"/>	<input type="checkbox"/>
Frame of the lift arm is constructed from ½” x 4” steel plate that is formed to contour the outer tube of the extendable arm. The frame is also the connection point to the hitch and hydraulic cylinder	<input type="checkbox"/>	<input type="checkbox"/>
The external tube is constructed of 4” heavy wall square tubing. On each end of the tube are 1” wide bushings ground to fit the inner tube. This shall ensure a long lasting fit.	<input type="checkbox"/>	<input type="checkbox"/>
Top plate on the lift arm is 3/16” and is used to prevent “racking” of the frame. Inner tube is constructed of 3” heavy wall square tubing. Tubing is drilled to allow for the seven (7) extendable positions	<input type="checkbox"/>	<input type="checkbox"/>
Welded to the front of the inner tube is a formed ½” plate with notches to accept standard 1/2” link chain. When required this plate can be changed to match different level systems.	<input type="checkbox"/>	<input type="checkbox"/>
HYDRAULIC LIFT CYLINDER		
Hitch is provided with a single acting 4” x 10” hydraulic cylinder. A double acting cylinder can be provided for applications where plow “float” hydraulic controllers are used.	<input type="checkbox"/>	<input type="checkbox"/>
WARRANTY FOR STEEL MOLDBOARD TUBE TABLE, POWER INFINITE REVERSING FULL PLOW (SPX-00000050)		
One year from date of delivery	<input type="checkbox"/>	<input type="checkbox"/>
OPTIONS		
<u>1A. Heavy Duty Heated Crossmemberless Stainless Steel Dump Body Under Options</u>		
Body shall be heated through diverter box with thermos-switch for activation with stainless steel piping	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>1B. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications</u>		
General		
Controller shall have 3 PWM output channels for liquid and granular spreader controller	<input type="checkbox"/>	<input type="checkbox"/>
The controller shall be a microprocessor type capable of PWM control of three Hydraulic valves.	<input type="checkbox"/>	<input type="checkbox"/>
Controller must be automotive grade for durability. Any gaming type controllers are Unacceptable.	<input type="checkbox"/>	<input type="checkbox"/>
The controller must offer ground speed control from vehicle signal. No GPS antenna can Be used for ground speed signal input.	<input type="checkbox"/>	<input type="checkbox"/>
The controller must have three channels to operate an auger/conveyor and liquid System.	<input type="checkbox"/>	<input type="checkbox"/>
PWM signal must be adjustable for a wide range of implement functionality.	<input type="checkbox"/>	<input type="checkbox"/>
The controller shall be capable of ground speed oriented spreading, ground speed triggered, and manual mode.	<input type="checkbox"/>	<input type="checkbox"/>
The system will offer a manual mode lock out option.	<input type="checkbox"/>	<input type="checkbox"/>
The spreader controller will operate in open or closed loop configuration.	<input type="checkbox"/>	<input type="checkbox"/>
Controller shall offer remote pause, unload mode, liquid float input, test speed, And on-screen error with alarms and message reporting.	<input type="checkbox"/>	<input type="checkbox"/>
Sensor short detection with message and alarm.	<input type="checkbox"/>	<input type="checkbox"/>
System must have 2 auxiliary output channels available.	<input type="checkbox"/>	<input type="checkbox"/>
AVL data transfer is available with an additional modem.	<input type="checkbox"/>	<input type="checkbox"/>
System shall offer spinner configurable mph shut off, storm totals on screen or With USB.	<input type="checkbox"/>	<input type="checkbox"/>
Operator screen offers knobs or touch screen to control granular and liquid outputs.	<input type="checkbox"/>	<input type="checkbox"/>
There shall be 9 independently programmable feeder outputs channels for actuate Lbs. Per mile output.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>1B. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications (Cont'd)</u>		
General (Cont'd)		
The spinner shall also offer 9 programmable speeds for the spinner.	<input type="checkbox"/>	<input type="checkbox"/>
System will maintain up to 4 different granular material types.	<input type="checkbox"/>	<input type="checkbox"/>
There shall be an integrated blast mode with instant off to stop output if necessary.	<input type="checkbox"/>	<input type="checkbox"/>
Blast must be programmable for flow rate and material distance.	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall provide an unload mode at speeds of up to 5 mph.	<input type="checkbox"/>	<input type="checkbox"/>
A standby (pass) mode shall be provided to allow for momentary interrupt of the spreader Without changing the feeder/spinner/liquid output.	<input type="checkbox"/>	<input type="checkbox"/>
All programing and calibration shall be accomplished using the touch screen of The controller.	<input type="checkbox"/>	<input type="checkbox"/>
Detachable key board for programming is NOT ACCEPTABLE .	<input type="checkbox"/>	<input type="checkbox"/>
Modular Granular and Liquid Valve		
<i>*If the freedom 2.2 spreader control is chosen, spreader with detent and reverse on under Control valve on page 42 will need to be removed, and replaced with the following:</i>		
The modular manifold must be constructed of 6061 anodized aluminum.	<input type="checkbox"/>	<input type="checkbox"/>
Modular manifold must have an adjustable pressure of up to 3500psi with multiple flow, Pressure, performance, and function configurations.	<input type="checkbox"/>	<input type="checkbox"/>
Each function will be equipped with screw adjustable manual overrides protected by jacketed Debris covers.	<input type="checkbox"/>	<input type="checkbox"/>
The modular manifold can operate in either open center (fixed displacement) or Closed center (variable displacement) hydraulic circuits.	<input type="checkbox"/>	<input type="checkbox"/>
The auger / conveyor must be rated at 15 GPM and features a cartridge valve design for Precision spreading.	<input type="checkbox"/>	<input type="checkbox"/>
The spinner valve must provide 10 GPM and also feature a cartridge design valve With manual override.	<input type="checkbox"/>	<input type="checkbox"/>
Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits if necessary.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
1B. <u>Freedom 2.2 Spreader Control In Lieu Of Manual Specifications (Cont'd)</u>		
These functions are proportional controlled, pulse width modulated, pressure and flow Compensated, with heavy duty 12vdc coils.	<input type="checkbox"/>	<input type="checkbox"/>
Spreader control “outside the cab” harnessing shall meet ip 68 standards.	<input type="checkbox"/>	<input type="checkbox"/>
The modular manifold can operate in either open center (fixed displacement) or Closed center (variable displacement) hydraulic circuits.	<input type="checkbox"/>	<input type="checkbox"/>
The auger / conveyor must be rated at 15 GPM and features a cartridge valve design for Precision spreading.	<input type="checkbox"/>	<input type="checkbox"/>
The spinner valve must provide 10 GPM and also feature a cartridge design valve With manual override.	<input type="checkbox"/>	<input type="checkbox"/>
Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits If necessary.	<input type="checkbox"/>	<input type="checkbox"/>
These functions are proportional controlled, pulse width modulated, pressure and flow Compensated, with heavy duty 12vdc coils.	<input type="checkbox"/>	<input type="checkbox"/>
Spreader control “outside the cab” harnessing shall meet IP 68 standards.	<input type="checkbox"/>	<input type="checkbox"/>
Connections must be Nema x6 standards for dust protection.	<input type="checkbox"/>	<input type="checkbox"/>
Outside the cab connections shall be rated as Nema “x8” – protected against The effects of permanent submersion in water as well as able to show no corrosion After 500 hours in a 35° salt spray.	<input type="checkbox"/>	<input type="checkbox"/>
The entire hydraulic system shall be completely serviceable without removing from the Enclosure or disassembling sections	<input type="checkbox"/>	<input type="checkbox"/>
The electronics and hydraulics shall be manufactured by the same company.	<input type="checkbox"/>	<input type="checkbox"/>
The hydraulic system shall be pressure and flow tested before the installation process.	<input type="checkbox"/>	<input type="checkbox"/>
The modular spreader valve manifold will be mounted in a weather resistant enclosure.	<input type="checkbox"/>	<input type="checkbox"/>
Enclosure shall be vented to reduce moisture and finished with 304 stainless steel.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls</u>		
The in-cab control system shall be an integrated proportional multi-axis (x, y) (3) joystick Console with circuit panel and spreader control.	<input type="checkbox"/>	<input type="checkbox"/>
0 – 5000 gauge	<input type="checkbox"/>	<input type="checkbox"/>
Dump body hoist, front plow, and wing plow shall be controlled by three individual Joysticks capable of proportionally controlling up to 5 bi-directional valves.	<input type="checkbox"/>	<input type="checkbox"/>
Dump body lever must have safety trigger protection.	<input type="checkbox"/>	<input type="checkbox"/>
Controller must include integrated protection and diagnostic systems with safety features Incorporated.	<input type="checkbox"/>	<input type="checkbox"/>
System must have user settable speed control for all hydraulic functions.	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall be designed for floor mount pedestal with armrest	<input type="checkbox"/>	<input type="checkbox"/>
System will integrate with the freedom 2 granular / liquid control systems in The housing	<input type="checkbox"/>	<input type="checkbox"/>
System must supply pulsed voltage to each individual valve coil.	<input type="checkbox"/>	<input type="checkbox"/>
All connections inside the valve enclosure shall be ip68 rated.	<input type="checkbox"/>	<input type="checkbox"/>
All connections will be labeled with appropriate descriptions for each connection To individual solenoids of the hydraulic actuating cylinders.	<input type="checkbox"/>	<input type="checkbox"/>
System must also have integrated accessory control switches: the system Will include up to six (6) switches and up to six (6) warning indicator lights Mounted in the controller.	<input type="checkbox"/>	<input type="checkbox"/>
Each switch will handle 12v up to 10amp load and can be operated as on/off, Momentary or on/off/on as needed.	<input type="checkbox"/>	<input type="checkbox"/>
Installing dealer must be authorized to preform warranty repairs and periodic Maintenance on certified products.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)

Reservoir/Valve Enclosure

Reservoir must be constructed of 7ga stainless steel. Reservoir/valve enclosure must Be 40-gallon capacity with an integrated covered mounting area for the valve. All Plumbing for the hydraulic valve inside the enclosure will be sae rated stainless Steel tubing and terminate on the front of the reservoir with jic bulkhead connectors. The breather cap shall be mounted to an inspection lid. Inspection lid shall also Provide for an in tank mounted return line filter. The filter assembly shall incorporate A 10 micron 50GPM filter element with a 25 psi bypass. The reservoir will include a Twist off filler/breather assembly with 40 micron vent filter and a fill screen. Reservoir Shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port Will allow for installation of a 2” npt 50 GPM suction screen. Suction screen will have A 3 to 5 psi by-pass spring. A 2” full flow ball valve shall be installed in the suction line. Removing of a lid to access the filter and breather cap is not acceptable. The reservoir Shall have a float switch to control PTO operation in the event low oil.

Freedom 2.2 Spreader Control

Controller shall have 3 PWM output channels for liquid and granular spreader Controller

The controller shall be a microprocessor type capable of PWM control of three Hydraulic valves.

Controller must be automotive grade for durability. Any gamming type controllers are Unacceptable.

The controller must offer ground speed control from vehicle signal. No gps Antenna can be used for ground speed signal input.

The controller must have three channels to operate an auger/conveyor and Liquid system.

PWM signal must be adjustable for a wide range of implement functionality.

The controller shall be capable of ground speed oriented spreading, ground Speed triggered, and manual mode.

The system will offer a manual mode lock out option.

The spreader controller will operate in open or closed loop configuration.

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)

Freedom 2.2 Spreader Control (Cont'd)

Controller shall offer remote pause, unload mode, liquid float input, test speed, And on-screen error with alarms and message reporting.

Sensor short detection with message and alarm.

System must have 2 auxiliary output channels available.

AVL data transfer is available with an additional modem.

System shall offer spinner configurable mph shut off, storm totals on screen or With USB.

Operator screen offers knobs or touch screen to control granular and liquid outputs.

There shall be 9 independently programmable feeder outputs channels for actuate lbs. per mile output.

The spinner shall also offer 9 programmable speeds for the spinner.

System will maintain up to 4 different granular material types.

There shall be an integrated blast mode with instant off to stop output if necessary.

Blast must be programmable for flow rate and material distance.

Unit shall provide an unload mode at speeds of up to 5 mph.

A standby (pass) mode shall be provided to allow for momentary interrupt Of the spreader without changing the feeder/spinner/liquid output.

All programing and calibration shall be accomplished using the touch Screen of the controller.

Detachable key board for programming is **NOT ACCEPTABLE**

Modular Granular and Liquid Valve

The central hydraulic valve system shall be a mobile design to withstand exposure To de-icing chemicals and severe weather conditions.

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS (Cont'd)

1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)

Modular Granular and Liquid Valve (Cont'd)

System shall provide hydraulic fluid to operate the dump body hoist, front plow, And granular spreader system.

Hydraulic system can run all hydraulic functions simultaneously without inhibiting The action of the others.

Valve sections shall be of cast iron, horizontally stackable, and serviceable without Disassembly.

Directional control valves shall be pre-compensated, proportional, and load Independent.

Valve system shall be closed center for variable displacement pump.

Valve sections must be adjustable for pressures up to 5000psi and flow ratings Up to 40 GPM. Each valve must be laminar flow design for minimal pressure drop. Where required each section must be able to limit the operating speed for the implement.

Each directional valve section must have a built-in check valve prevents the oil From flowing via the pressure adjustment spool to tank.

There shall be main pressure relieve set at 2400psi to protect against system Over-pressurization.

Hoist section must be a PVG 100, 40 GPM 4-way section for double acting hoist With flow control.

Plow lift and angle sections are also 4-way for double acting cylinders with crossover Relief and flow control.

The hydraulic system shall be pressure and flow tested before the installation.

Installing dealer must be certified to perform warranty repairs and periodic Maintenance on hydraulic valve sections.

The spreader manifold must be constructed of 6061 anodized aluminum.

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)</u>		
Modular Granular and Liquid Valve (Cont'd)		
Spreader manifold must have an adjustable pressure of up to 3500psi with multiple flow, Pressure, performance, and function configurations.	<input type="checkbox"/>	<input type="checkbox"/>
Each function will be equipped with screw adjustable manual overrides protected By jacketed debris covers.	<input type="checkbox"/>	<input type="checkbox"/>
The spreader manifold can operate in either open center (fixed displacement) or Closed center (variable displacement) hydraulic circuits.	<input type="checkbox"/>	<input type="checkbox"/>
The auger / conveyor must be rated at 15 GPM and features a cartridge valve design for Precision spreading.	<input type="checkbox"/>	<input type="checkbox"/>
The spinner valve must provide 10 GPM and also feature a cartridge design Valve with manual override.	<input type="checkbox"/>	<input type="checkbox"/>
Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits If necessary.	<input type="checkbox"/>	<input type="checkbox"/>
These functions are proportional controlled, pulse width modulated, pressure and flow Compensated, with heavy duty 12vdc coils.	<input type="checkbox"/>	<input type="checkbox"/>
Spreader control “outside the cab” harnessing shall meet ip 68 standards.	<input type="checkbox"/>	<input type="checkbox"/>
Connections must be Nema x6 standards for dust protection.	<input type="checkbox"/>	<input type="checkbox"/>
Outside the cab connections shall be rated as Nema “x8” – protected against the Effects of permanent submersion in water as well as able to show no corrosion After 500 hours in a 35°c salt spray.	<input type="checkbox"/>	<input type="checkbox"/>
The entire hydraulic system shall be completely serviceable without removing From the enclosure or disassembling sections.	<input type="checkbox"/>	<input type="checkbox"/>
The electronics and hydraulics shall be manufactured by the same company.	<input type="checkbox"/>	<input type="checkbox"/>
The hydraulic system shall be pressure and flow tested before the installation process.	<input type="checkbox"/>	<input type="checkbox"/>
The modular spreader valve manifold will be mounted in a weather resistant enclosure.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)</u>		
Modular Granular and Liquid Valve (Cont'd)		
Enclosure shall be vented to reduce moisture and finished with black powder coat Or stainless steel.	<input type="checkbox"/>	<input type="checkbox"/>
Specifications for Patrol Wing - Wing Post		
Front wing post shall be removable for summer operation	<input type="checkbox"/>	<input type="checkbox"/>
The front hitch shall be constructed so that the wing post mount will be able to slide in An out to allow the tilt hood to move forward without obstruction for maintenance and Daily fluid checks.	<input type="checkbox"/>	<input type="checkbox"/>
The front wing post slide function will be accomplished using a hydraulic cylinder Controlled by an in-cab push button and driven by an independent electric hydraulic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Front Hitch		
The plow lift hinge shall be flame cut from 3/4" steel plate and shall have a full plate Gusset at the top.	<input type="checkbox"/>	<input type="checkbox"/>
The plow lift cylinder shall be 4" x 10" double acting and shall have O-ring seals.	<input type="checkbox"/>	<input type="checkbox"/>
QCP hitch with 2" tapered pin;	<input type="checkbox"/>	<input type="checkbox"/>
There shall be a 10-gauge break formed bumper extension left side.	<input type="checkbox"/>	<input type="checkbox"/>
Front Post		
There shall be provisions for a minimum of 8" of float for the front of the wing.	<input type="checkbox"/>	<input type="checkbox"/>
The cylinder shall have O-ring seals and wipers.	<input type="checkbox"/>	<input type="checkbox"/>
There shall be a 1-1/4" x 12" wing slide to wing hinge pin and a 1-1/4" wing Hinge to wing bolt.	<input type="checkbox"/>	<input type="checkbox"/>
Arm Wing		
Enables the chassis hood to open for maintenance and regular fluid checks.	<input type="checkbox"/>	<input type="checkbox"/>
Trip Wing Hinge		
The wing shall be attached to the front wing post with a trip hinge.	<input type="checkbox"/>	<input type="checkbox"/>
The hinge shall be designed to allow the wing to trip and reset automatically	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)

Trip Wing Hinge (Cont'd)

When hitting an obstruction.

The reset shall be with a rubber compression not with coil spring.

The hinge shall have two offset hinges to lift the wing as it trips.

Side Wing Moldboard

The wing shall be designed for the right side of the truck and shall be heavy duty.

Wing shall have an overall length of 132" and shall have a 120" x 8" 2' cutting edge.

The nose height shall be 32" and the discharge height shall be 39.2"

The cutting edge backer shall be 4" x 6" x 5/8" with gussets and shall be punched to Accept 8" or 3" x 3" x 12" punch cutting edge.

Welded to this backer shall be a minimum of five (5) 3/8" ribs

The leader shall be a minimum of 1" plate steel and shall have two (2) holes to accept A 1 1/4" wing bolt

Sliding post shall be as follows:

- Steel support sliding pivot weldment when in operation the Tubes will run from frame rail to frame rail
- Two (2) 1" quick release hitch pins in easy to reach location to lock the pivot Weldment into place during operation mode
- Hydraulic cylinder mounted to the hitch to allow the pivot point to slide Out 12" and allow the hood to open for maintenance
- Slide cylinder will be actuated using an electric hydraulic pump unit mounted in A stainless steel protective box in the frame rails of the chassis behind the cab
- 3" x 12" toe cylinder to allow front edge of plow to raise 12" off the ground

There shall be several places longitudinally at the back of the wing to allow the push Arms to be attached at proper angles.

The steel on the side wing will be sandblasted and primed. The plow shall be painted Orange on the front and black on the back.

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1C. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)

Specifications for Patrol Wing (Cont'd)

Rear Wing Post Mount

The rear post wind mount will be removable for summer paving operation using a bolt

On steel plate

The rear post mount shall be as follows:

- ½” plate permanent mounted weldment bolted to the frame with a cross member Under the frame to support channel on driver’s side. The frame will not be mounted To the lift axle cross member
- Removable forward portion rear ½” plate mounting weldment bolted to the Permanent section support to allow to forward mount to be removed during the summer
- 4” round torque arm with dampening spring to support rear pf plow board

1D. Paint for Dump Body

Paint specified dump body in a single stage paint a single color (i.e. School bus

Yellow or other paint color from color chart)

1E. Road Department Paint Color Scheme

School bus yellow from the bottom of the windows down, Bahama

Blue from the bottom of the windows up to and including cab roof and

Back, on hood from bottom of windsheild to a pont on the hood to make

A “v” and match the road department fleet.

Shall be base coat clear coat

(Note: not all vehicles will be painted this way)

1F. Spreader Leg Stands

Main channels to be constructed of 2” x 6” x 7ga tubing

Galvanized tubing is done to ASTM a123 grade 100 – 3.9 mil minimum thickness

Crossmembers to be 3” structural channel

Telescoping rear legs to be constructed of 3 ½” x 3 ½” x 3/16” tubing

Adjustable front legs to pivot, constructed of 4” x 4” x 3/16” tubing

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
1F. <u>Spreader Leg Stands (Cont'd)</u>		
4" adjustable steel front roller wheels	<input type="checkbox"/>	<input type="checkbox"/>
Body guide wheels front and rear of stand	<input type="checkbox"/>	<input type="checkbox"/>
1G. <u>One-Way Plow with QCP</u>		
The one-way plow shall be designed to be heavy duty and shall be of a high Speed design.	<input type="checkbox"/>	<input type="checkbox"/>
It shall have a clearing path of 9' with an 11' 3" cutting edge length including The nose shoe.	<input type="checkbox"/>	<input type="checkbox"/>
The cutting edge shall be 132" x 8" x 2" and shall be replaceable.	<input type="checkbox"/>	<input type="checkbox"/>
The plow shall have a nose height of 29" and a discharge height of 55".	<input type="checkbox"/>	<input type="checkbox"/>
The moldboard shall be manufactured with a 2" x 2" x 1/4" angle leader welded To the 5 - 3/8" ribs and the steel nose plate.	<input type="checkbox"/>	<input type="checkbox"/>
The bottom cutting edge backer shall be 4" x 6" x 5/8" angle with gussets.	<input type="checkbox"/>	<input type="checkbox"/>
This angle shall be punched to allow the use of both 8" and 3"-3"-12" punched Cutting edges.	<input type="checkbox"/>	<input type="checkbox"/>
There shall be a 3" x 3" angle mid-way of the ribs from the discharge end to the Nose end.	<input type="checkbox"/>	<input type="checkbox"/>
The moldboard shall be roll formed of 10 gauge steel.	<input type="checkbox"/>	<input type="checkbox"/>
The moldboard shall pin to the push frame with 3 Au≅ shaped connectors.	<input type="checkbox"/>	<input type="checkbox"/>
Two of the connectors shall have a heavy duty coil spring to allow the moldboard To trip and assist in absorbing road shock.	<input type="checkbox"/>	<input type="checkbox"/>
The push frame shall have a 4" x 6" x 5/8" plated angle front with two (2) 4" x 4" x 3/8" tubular steel push arms and there shall be three diagonal Braces with in the push arms.	<input type="checkbox"/>	<input type="checkbox"/>
There shall be a safety chain to prevent the moldboard from tipping over when Adjuster pin is removed.	<input type="checkbox"/>	<input type="checkbox"/>
The plow shall have two adjustable push frame shoes and two moldboard shoes.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1G. One-Way Plow with QCP (Cont'd)

The plow shall be manufactured to accept carbide edges and adjust to 55 degrees To 60 degrees attack angle.

The entire steel structure will be sandblasted and primed. The plow shall be Painted orange on the front and black on the back.

Plow shall have QCP loop installed with 2” diameter loop

1H. Diagnostic Tools / Test Equipment

Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment

1. Successful bidder shall be required to supply between one (1) and three (3) Complete sets of testing/diagnostic/programming equipment (i.e. Laptop, Software, cabling, and adapters) and special tools required to perform the Full range of diagnostic and maintenance actions necessary to maintain Vehicle operability. This equipment will cover the vehicle chassis, engine, Transmission, brakes, hydraulics, and all additional equipment (if applicable)
2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software
3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid
4. All software installations and activations will be completed by the successful bidder at no cost to the county
5. All software updates and renewal will be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment
6. All technical issues relating to test/diagnostic/programming equipment and special tools shall be resolved by the successful bidder at no cost to the county for a period of five (5) years from the acceptance of the equipment
7. Training shall be provided on all items in this section at a specified county location

1I. Two-Way Radio Power and Wiring Requirements for New Vehicles

For the purpose of installing two-way radios into new county vehicles and equipment, The following power and wiring components shall be included:

- #12 AWG red wire connected to 12vdc battery source rated at 20 amps
- #12 AWG black wire connected to chassis ground
- #16 AWG yellow wire connected to 12vdc ignition sense rated at 5 amps

Wires shall be encased in plastic wire loom and routed from their source into the Cab of the vehicle and secured in the vicinity of the operator. Wiring harness shall be Clearly labeled “two-way radio”. Wires shall be unterminated. 12vdc sources Shall be protected from making contact with grounded metal surfaces

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS (Cont'd)

1J. Installation of County Supplied Two Way Radio and Accessories

Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc.
For the purpose of installing two-way radios into new county vehicles and equipment,
The following power and wiring components shall be included:

1. #12 awg red wire connected to 12vdc battery source rated at 20 amps.
2. #12 awg black wire connected to chassis ground.
3. #16 awg yellow wire connected to 12vdc ignition sense rated at 5 amps.

These wires shall be encased in plastic wire loom and routed from their source into
The cab of the vehicle. The wiring harness shall be clearly labeled “two-way radio”.

The 12vdc sources shall be protected from making contact with grounded metal surfaces.

1K. Technical Support

Technical support is to be provided by factory authorized technical representatives and
Is to be the original equipment manufacturer’s industry standard technical presentation
In a classroom setting. The support provided shall be at the journeyman/equipment technician
Level and should address limited theory, fault diagnosis and repair pertaining specifically
to the equipment supplied under this specification.

Technical support may be requested in the following areas:

- Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
- Transmission – 1 day at each location
- Electrical – 1 day at each location
- Brakes – 1 day at each location
- Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
- Upfitter (dump body, sweeper, etc.) – 1 day at each location

A technical representative(s) shall be made available for a total of 180 training/support
Hours (anticipated to be scheduled in six (6) hour blocks). Shorter training days will be
Allowed only with consent of vehicle services. The total training hours will be required
To be provided and no additional compensation will be considered. The actual time to be
Spent on each area will be by mutual agreement of the vehicle services department and
The successful bidder.

For the purposes of determining materials and other training costs, class size is
Anticipated to be comprised of six (6) to ten (10) vehicle services department personnel.
Actual class size will be determined by the vehicle services department at the time the
classes are scheduled.

ITEM # 1 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1K. Technical Support (Cont'd)

Before the training is scheduled, vehicle services and the contractor will agree on the Scope of the training, and the type and quantity of manuals, etc. That are necessary for Proper coverage.

Technical support for vehicle services may be provided at the following fleet Maintenance facility location as scheduled by a vehicle services department Representative:

- Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)
- Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

Technical support for other departments will be held at a location within Ocean County. The requesting department will notify the successful bidder of The location. Training at the successful bidder's site, rather than the designated Locations, will be by mutual consent only. Technical support will be requested And scheduled on an as needed basis up to but not exceeding the 180 hours total During a period not to exceed twelve (12) months from the date of placing the Last unit in service.

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL

Manufacturer/Model: Click or tap here to enter text.

Engine: Click or tap here to enter text.

Transmission: Click or tap here to enter text.

Warranty: Click or tap here to enter text.

Delivery, A.R.O.: Click or tap here to enter text.

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>MODEL</u>		
Set Forward Axle	<input type="checkbox"/>	<input type="checkbox"/>
Lh Primary Steering Location	<input type="checkbox"/>	<input type="checkbox"/>
<u>GENERAL</u>		
Maximum 8% Expected Grade	<input type="checkbox"/>	<input type="checkbox"/>
3 Axle Tractor	<input type="checkbox"/>	<input type="checkbox"/>
Front Axle 16,000 Lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Rear Axle 46,000 Lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Registered GVWR 80,000 Lbs.	<input type="checkbox"/>	<input type="checkbox"/>
<u>ENGINE</u>		
Cummins X15 Performance Series	<input type="checkbox"/>	<input type="checkbox"/>
14.9 L 912 Cid Minimum 525 HP @ 1900 rpm	<input type="checkbox"/>	<input type="checkbox"/>
Gov 1900 Rpm, And 1850 Lb.-Ft. Torque @ 1000 rpm	<input type="checkbox"/>	<input type="checkbox"/>
Must Be In Line 6 Cylinder of Wet Sleeve Design, Utilizing Hardened Cylinder Liners for Durability, And Electronics for Simple Service And Diagnosis When Needed	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Displacement Shall Be 14.9 Liters	<input type="checkbox"/>	<input type="checkbox"/>
Engine Must Comply With Latest Federal Mandate for Diesel Emissions	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>ENGINE (Cont'd)</u>		
Should An Alternate Power Plant Be Offered, The Bidder Shall Provide All Necessary Technical Data To Show Proof Of Equality, Including Maintenance Schedules	<input type="checkbox"/>	<input type="checkbox"/>
<u>ENGINE EQUIPMENT</u>		
Engine Shall Have Latest 50 State Clean Idle Diesel Emission Certification	<input type="checkbox"/>	<input type="checkbox"/>
Oil Check and Fill: Engine Mounted	<input type="checkbox"/>	<input type="checkbox"/>
Air Intake: Side of Hood Air Intake with Engine Mounted High Capacity Air Cleaner and Passive Precleaner Integrated Into Hood	<input type="checkbox"/>	<input type="checkbox"/>
Alternator: 200 Amp 28si with Remote Battery Volt Sense	<input type="checkbox"/>	<input type="checkbox"/>
Batteries: Four (4) 12-Volt 740rc Maintenance-Free 4000 CCA	<input type="checkbox"/>	<input type="checkbox"/>
Stack Battery Box with Aluminum Cover: Frame Mounted Right Side Aft Of Cab	<input type="checkbox"/>	<input type="checkbox"/>
Positive Load Disconnect Control Switch Mounted Outboard Of Driver Seat	<input type="checkbox"/>	<input type="checkbox"/>
Remote Jump Start Studs Mounted On Frame Next To Starter	<input type="checkbox"/>	<input type="checkbox"/>
Silicone Heater/Radiator Hoses Where Possible	<input type="checkbox"/>	<input type="checkbox"/>
Compressor: Cummins 18.7 CFM with Internal Safety Valve	<input type="checkbox"/>	<input type="checkbox"/>
Engine Protection: Electronic Engine-Integral Warning System with Shut Down Function	<input type="checkbox"/>	<input type="checkbox"/>
Engine Brake: Cummins Intebrake Compression Brake With On Off Dash Switch and Low, Med, and High Retardation Switch	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust: Single Right-Hand Under Cab ATD with Bright Finish Upper 11' Dual Curved Vertical Stacks and Elbows Cab Mounted LH & RH	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust Shields: Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
Fan Drive: Electronically Controlled Variable Speed Viscous Automatic Fan Control with Dash Switch and Indicator Light	<input type="checkbox"/>	<input type="checkbox"/>
13 Gallon Diesel Exhaust Fluid Tank	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>ENGINE EQUIPMENT (Cont'd)</u>		
Non-Polished Aluminum Cover for DEF Tank	<input type="checkbox"/>	<input type="checkbox"/>
Oil Filter: Full-Flow	<input type="checkbox"/>	<input type="checkbox"/>
Radiator: 1400 Square Inch Server Service Assembly Bolted To Engine	<input type="checkbox"/>	<input type="checkbox"/>
Radiator Drain Valve	<input type="checkbox"/>	<input type="checkbox"/>
Radiator Protection Package	<input type="checkbox"/>	<input type="checkbox"/>
2 Piece Fan Shroud and Rear Rock Guard	<input type="checkbox"/>	<input type="checkbox"/>
Ethylene Glycol Pre-Charged SCA Heavy Duty Coolant-34F	<input type="checkbox"/>	<input type="checkbox"/>
Coolant Houses: Silicone Heater, Radiator, Where Possible	<input type="checkbox"/>	<input type="checkbox"/>
Hose Clamps: Constant Tension for Coolant Hoses and Air Intake System	<input type="checkbox"/>	<input type="checkbox"/>
Engine Heater: Phillips 1500w/115v	<input type="checkbox"/>	<input type="checkbox"/>
Chrome Heater Receptacle: Mounted Under Driver's Door	<input type="checkbox"/>	<input type="checkbox"/>
Cast Iron Front and Rear Engine Supports	<input type="checkbox"/>	<input type="checkbox"/>
Starter: Delco 12v 39mt + HD OCP	<input type="checkbox"/>	<input type="checkbox"/>
<u>TRANSMISSION AND EQUIPMENT</u>		
Allison RDS 4700 Automatic Transmission with PTO Provision	<input type="checkbox"/>	<input type="checkbox"/>
Programming For Max Speed of 70 Mph	<input type="checkbox"/>	<input type="checkbox"/>
S1 Performance Primary Shift Schedule	<input type="checkbox"/>	<input type="checkbox"/>
1900 Rpm Primary Mode Shift Speed	<input type="checkbox"/>	<input type="checkbox"/>
Disable-Load Based Shift Schedule	<input type="checkbox"/>	<input type="checkbox"/>
Transmission Prognostics-Enabled	<input type="checkbox"/>	<input type="checkbox"/>
PTO Mounting LH Side Of Main Transmission	<input type="checkbox"/>	<input type="checkbox"/>
Water to Oil Transmission Cooler	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>TRANSMISSION AND EQUIPMENT (Cont'd)</u>		
Magnetic Plugs, Engine Drain, Transmission Drain, Axle(S) Fill and Drain	<input type="checkbox"/>	<input type="checkbox"/>
Push Button Shift Control	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic Transmission Fluid	<input type="checkbox"/>	<input type="checkbox"/>
Transmission Oil Check And Fill With Electronic Oil Level Check	<input type="checkbox"/>	<input type="checkbox"/>
<u>FRONT AXLE AND SUSPENSION</u>		
Detroit Da-F 16.0-5 16,000 Lb. 71.5 KPI/3.74 Drop Front Axle	<input type="checkbox"/>	<input type="checkbox"/>
Meritor 16.5x6 Q+ Cast Spider Cam Front Brakes	<input type="checkbox"/>	<input type="checkbox"/>
Brakes, Double Anchor, Fabricated Shoe	<input type="checkbox"/>	<input type="checkbox"/>
Non-Asbestos Front Brake Lining Severe Service	<input type="checkbox"/>	<input type="checkbox"/>
Conmet Cast Iron Front Brake Drums	<input type="checkbox"/>	<input type="checkbox"/>
Front Brake Dust Shields	<input type="checkbox"/>	<input type="checkbox"/>
Front Oil Seals	<input type="checkbox"/>	<input type="checkbox"/>
Vented Front Hub Caps with window, Center and Side Plugs	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic 75W-90 Front Axles Lube	<input type="checkbox"/>	<input type="checkbox"/>
Haldex Automatic Front Slack Adjusters with Stainless Steel Clevis Pins	<input type="checkbox"/>	<input type="checkbox"/>
Bendix Single High Capacity 14.6-18k Steering Gear	<input type="checkbox"/>	<input type="checkbox"/>
Power Steering Oil/Air Cooler	<input type="checkbox"/>	<input type="checkbox"/>
16,000# Taper Leaf Front Suspension	<input type="checkbox"/>	<input type="checkbox"/>
4 Quart Power Steering Reservoir	<input type="checkbox"/>	<input type="checkbox"/>
Threaded Springs Pins and Bushings	<input type="checkbox"/>	<input type="checkbox"/>
Front Shock Absorbers	<input type="checkbox"/>	<input type="checkbox"/>
<u>REAR AXLE AND SUSPENSION</u>		
Meritor Rt-46-164p Tandem Rear at 46,000 Lbs.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>REAR AXLE AND SUSPENSION (Cont'd)</u>		
Iron Rear Axle Carrier Housing	<input type="checkbox"/>	<input type="checkbox"/>
SPL250HD XL Dana Spicer Main Driveline with Half Round Yokes	<input type="checkbox"/>	<input type="checkbox"/>
SPL170 XL Dana Spicer Interaxle Driveline with Half Round Yokes	<input type="checkbox"/>	<input type="checkbox"/>
Driver Control Differential Lockout Both Rear Axles, Indicator Light For Traction Device	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic 75W-90W All Axles	<input type="checkbox"/>	<input type="checkbox"/>
Meritor 16.5 X 8.62"Cast Spider Cam Double Anchor Fabricated Shoes	<input type="checkbox"/>	<input type="checkbox"/>
Non-Asbestos Rear Brake Lining	<input type="checkbox"/>	<input type="checkbox"/>
Conmet Cast Iron Rear Brake Drums	<input type="checkbox"/>	<input type="checkbox"/>
Rear Brake Dust Shields	<input type="checkbox"/>	<input type="checkbox"/>
Haldex Automatic Rear Slack Adjusters W/Stainless Steel Clevis Pins	<input type="checkbox"/>	<input type="checkbox"/>
Rear Oil Seals	<input type="checkbox"/>	<input type="checkbox"/>
Bendix Eversure Longstroke 2-Drive Axle Spring Heavy Duty 30/36	<input type="checkbox"/>	<input type="checkbox"/>
Parking Brake Chambers	<input type="checkbox"/>	<input type="checkbox"/>
Forward Of Axle Mounted Parking Chambers	<input type="checkbox"/>	<input type="checkbox"/>
Standard Spindle Nuts For All Axles	<input type="checkbox"/>	<input type="checkbox"/>
46000# Tuftrac Suspension Rubber Isolated Pivots Parabolic Taper Leaf Springs Rubber Elastomer Bushings Maintenance Free	<input type="checkbox"/>	<input type="checkbox"/>
56" Axle Spacing	<input type="checkbox"/>	<input type="checkbox"/>
Fore/Aft and Transverse Control Rods	<input type="checkbox"/>	<input type="checkbox"/>
Rear Shock Absorbers – Two Axles	<input type="checkbox"/>	<input type="checkbox"/>
<u>BRAKE SYSTEM EQUIPMENT</u>		
Wabco 4S/4M ABSs With Traction Control And Off-Road Switch	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>BRAKE SYSTEM EQUIPMENT (Cont'd)</u>		
Reinforced Nylon, Fabric Braid And Wire Braid Chassis Air Lines	<input type="checkbox"/>	<input type="checkbox"/>
Bendix Brake Valves Where Possible	<input type="checkbox"/>	<input type="checkbox"/>
Relay Valve With 5.5 Psi Crack Pressure	<input type="checkbox"/>	<input type="checkbox"/>
Bendix Ad-9 Air Dryer- Frame Mounted	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum Air Brake Reservoirs	<input type="checkbox"/>	<input type="checkbox"/>
Cab Blow Out Kit With Nozzle Inside LH Cab Entry Door	<input type="checkbox"/>	<input type="checkbox"/>
Dv-2 Auto Drain Valve With Heat To Wet Tank, Pull Cables On All Other Air Reservoirs	<input type="checkbox"/>	<input type="checkbox"/>
Hand Control Valve For Trailer Brakes	<input type="checkbox"/>	<input type="checkbox"/>
<u>FRAME AND WHEELBASE</u>		
220" Wheelbase with 130" C/T	<input type="checkbox"/>	<input type="checkbox"/>
.51 X 3-.43 X 10-3/4 Steel Frame 120 KSI 26.81 Sm 3,216,626 RBM Single Channel	<input type="checkbox"/>	<input type="checkbox"/>
Splayed Frame Rails Front of Chassis, No Inner or Outer Frame Reinforcements	<input type="checkbox"/>	<input type="checkbox"/>
Phosphate Coated Frame Bolts	<input type="checkbox"/>	<input type="checkbox"/>
Tapered Rear End of Frame For Plate Mount	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Duty Ductile Iron Engine Crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Duty Back Oftransmission Crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Duty Steel Midship #1 Crossmember	<input type="checkbox"/>	<input type="checkbox"/>
Tractor Steel C-Channel Crossmember With 3.5" King Pin Clearance	<input type="checkbox"/>	<input type="checkbox"/>
Standard Weight Rear Mounted Suspension Crossmember	<input type="checkbox"/>	<input type="checkbox"/>
<u>CHASSIS EQUIPMENT</u>		
Connector Powered Through Ignition Mounted End Of Frame	<input type="checkbox"/>	<input type="checkbox"/>
5/16" Bright Steel Bumper With Center Tow Pin	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>CHASSIS EQUIPMENT (Cont'd)</u>		
Fender Mounted Front Mud Flaps	<input type="checkbox"/>	<input type="checkbox"/>
LH Back Of Cab Access	<input type="checkbox"/>	<input type="checkbox"/>
Fine Threaded Hex Chassis Fasteners Phosphate Coated	<input type="checkbox"/>	<input type="checkbox"/>
Air Piping and Electrical Independently Clipped To Frame	<input type="checkbox"/>	<input type="checkbox"/>
7-Way Round Trailer Plug	<input type="checkbox"/>	<input type="checkbox"/>
Holland Fw35 ILS Air Slide 5 th Wheel W/Left Hand Release	<input type="checkbox"/>	<input type="checkbox"/>
Tractor Access Package Including Step Provided For Back Of Cab Access And Deck Plate Between Frame Rails. Step And Hand Rail On Driver's Side.		
A Hydraulic Hose Hanger Shall Be Installed In A Way That Allows The Hydraulic Hoses To Be Safely Coiled While Not In Use. There Shall Be Dummy Hydraulic End Couplers Installed Where The End Fittings Of The Hydraulic Hoses Can Plug Into After Coiling; This Will Prevent Damage To The Fittings And Hoses As Well As Protect From Contamination.	<input type="checkbox"/>	<input type="checkbox"/>
<u>FUEL TANKS AND EQUIPMENT</u>		
Single LH 150 Gallon Fuel Tank With Steps W/60 Gallon RH Hydraulic Oil	<input type="checkbox"/>	<input type="checkbox"/>
LH Fuel Tank Mounted Forward	<input type="checkbox"/>	<input type="checkbox"/>
25" Diameter Fuel Tank(S)	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum Fuel Tank Bracket(S)	<input type="checkbox"/>	<input type="checkbox"/>
Plain Aluminum Fuel Tank With Polished Stainless Bands	<input type="checkbox"/>	<input type="checkbox"/>
Alliance Fuel/Water Separator With Heated Bowl And Indicator Light	<input type="checkbox"/>	<input type="checkbox"/>
Inboard Fuel System	<input type="checkbox"/>	<input type="checkbox"/>
High Temperature Reinforced Nylon Fuel Hose	<input type="checkbox"/>	<input type="checkbox"/>
No Fuel Cooler	<input type="checkbox"/>	<input type="checkbox"/>
In Tank Fuel Lever Sender	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>FRONT TIRES, HUBS, AND WHEELS</u>		
Michelin XZE 12R X 22.5 16 Ply	<input type="checkbox"/>	<input type="checkbox"/>
Conmet Iron Front Hubs	<input type="checkbox"/>	<input type="checkbox"/>
Accuride 28828 Inset 2 Hand 22.5 X 8.25 10-Hub Pilot Disc Front Wheels	<input type="checkbox"/>	<input type="checkbox"/>
<u>REAR DRIVE TIRES, HUBS, AND WHEELS</u>		
Michelin Xds2 11r 22.5 16 Ply Rear Drive Axle Tires	<input type="checkbox"/>	<input type="checkbox"/>
Conmet Iron Rear Hubs	<input type="checkbox"/>	<input type="checkbox"/>
Accuride 28828 2 Hand 22.5 X 8.25 10 Hub Pilot Steel	<input type="checkbox"/>	<input type="checkbox"/>
Steel Disc Rear Wheels	<input type="checkbox"/>	<input type="checkbox"/>
Nylon Wheel Guards Front And Rear All Interfaces	<input type="checkbox"/>	<input type="checkbox"/>
Wheel-Check High Visibility Green Loose Wheel Nut Indicator On All Wheels	<input type="checkbox"/>	<input type="checkbox"/>
<u>CAB EXTERIOR</u>		
121" BBC Conventional Steel Reinforced Aluminum Cab	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized E Coated Sealed Steel Door Construction	<input type="checkbox"/>	<input type="checkbox"/>
Forged Steel Door Hinges With Steel Reinforced "A" Pillar	<input type="checkbox"/>	<input type="checkbox"/>
Non-Removable Bug Screen Mounted Behind Grille	<input type="checkbox"/>	<input type="checkbox"/>
Front Cab Mounts Outboard Of Frame For Stability Or When Taking Off And Applying Torque From Engine	<input type="checkbox"/>	<input type="checkbox"/>
Bolt On Molded Fender Extensions	<input type="checkbox"/>	<input type="checkbox"/>
LH/RH Exterior Grab Handles With Rubber Insert And RH Interior Grab Handle Mounted To Reinforced 'A' Post	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel Radiator Mounted Grille	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel Radiator Shell/Hood Bezel With Tilt Hood Handle	<input type="checkbox"/>	<input type="checkbox"/>
Molded Resin Hood With Isolated Hood Suspension Mounting System	<input type="checkbox"/>	<input type="checkbox"/>
Hood Opening Strut Assist With safety Lock	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>CAB EXTERIOR (Cont'd)</u>		
Two (2) Hadley Sd-978 26" Air Horns	<input type="checkbox"/>	<input type="checkbox"/>
Single Electric Horn	<input type="checkbox"/>	<input type="checkbox"/>
Horn Shields	<input type="checkbox"/>	<input type="checkbox"/>
All Locks Keyed With the Same 6 Keys	<input type="checkbox"/>	<input type="checkbox"/>
Dual Stage Headlights 45 Degree Pattern with Heated Lens System	<input type="checkbox"/>	<input type="checkbox"/>
Aerodynamic Led Marker Lights In Stainless Steel Visor	<input type="checkbox"/>	<input type="checkbox"/>
Individual LED Stop/Tail/Turn/Backup Lights Flush Mounted End Of Frame	<input type="checkbox"/>	<input type="checkbox"/>
Led Rear Facing Turn Signal Lamps In Convex Mirror Lens In Addition To Standard Front Turn Signal Lamps	<input type="checkbox"/>	<input type="checkbox"/>
Dualc-Bar Mirror System Bright Finish C-Bar, Heated Mirrors, Dual Remote, Turn Signal indicators, Stainless Steel Back Cover With Integral	<input type="checkbox"/>	<input type="checkbox"/>
Door Mounted Mirrors, Switches on Door Panels	<input type="checkbox"/>	<input type="checkbox"/>
102" Equipment Width	<input type="checkbox"/>	<input type="checkbox"/>
LH/RH Integral Convex Mirrors, Bright Finish Stainless Steel Exterior Sun Visor	<input type="checkbox"/>	<input type="checkbox"/>
LH/RH Heated Hood Mounted Side View Mirrors, Black Finish	<input type="checkbox"/>	<input type="checkbox"/>
(3) Piece Solar Tinted Impact Resistant Polycarbonate Rear Window Configuration (1) 31x20" (2) 9x20"	<input type="checkbox"/>	<input type="checkbox"/>
Tinted Door Glass LH & RH Tinted	<input type="checkbox"/>	<input type="checkbox"/>
Lower Right Hand Door Window with Fresnel Lens	<input type="checkbox"/>	<input type="checkbox"/>
Electric Door Window Regulators	<input type="checkbox"/>	<input type="checkbox"/>
One (1) Piece Tinted Roped In Full Grid Heated Windshield	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) Gallon Windshield Washer Reservoir With Fluid Level Indicator	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>CAB INTERIOR</u>		
Gray Vinyl Premium Interior	<input type="checkbox"/>	<input type="checkbox"/>
Black Mats With Added Floor Heat Noise Insulation	<input type="checkbox"/>	<input type="checkbox"/>
12 Volt Power Supply In Dash	<input type="checkbox"/>	<input type="checkbox"/>
Forward Roof Mounted Console	<input type="checkbox"/>	<input type="checkbox"/>
Storage Pockets Integrated Into Door Panel, Left And Right Doors	<input type="checkbox"/>	<input type="checkbox"/>
Coat Hook(S) Cab Backwall	<input type="checkbox"/>	<input type="checkbox"/>
Wraparound Wing Dash With Six (6) Digital Gauges In Driver Command Center And Up To Thirteen (13) Gauges On The Dash	<input type="checkbox"/>	<input type="checkbox"/>
5 Lb Fire Extinguisher, Mounted	<input type="checkbox"/>	<input type="checkbox"/>
Heater, Defroster, And Air Conditioner	<input type="checkbox"/>	<input type="checkbox"/>
Brushless Blower Motor With Ten (10) Blower Speeds	<input type="checkbox"/>	<input type="checkbox"/>
Standard Heater Plumbing With Ball Shutoff Valves At Supply Lines	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Duty Air Conditioner Compressor	<input type="checkbox"/>	<input type="checkbox"/>
Radiator Mounted A/C Condenser	<input type="checkbox"/>	<input type="checkbox"/>
Binary Control, R-134a	<input type="checkbox"/>	<input type="checkbox"/>
Premium Cab Insulation with Additional Noise/Thermal Treatment	<input type="checkbox"/>	<input type="checkbox"/>
Centralized Logic Controllers in Main Dash Electrical Panels, Houses Onboard ECU, and Ten (10) Programmable Modules	<input type="checkbox"/>	<input type="checkbox"/>
Multiplexed Electrical System	<input type="checkbox"/>	<input type="checkbox"/>
Premium Led Cab Lighting	<input type="checkbox"/>	<input type="checkbox"/>
Color Coded And Laser Etched Wiring	<input type="checkbox"/>	<input type="checkbox"/>
Door Activated Led Lights	<input type="checkbox"/>	<input type="checkbox"/>
Cab Door Latches With Electric Door Locks	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>CAB INTERIOR (Cont'd)</u>		
Triangular Reflectors Without Flares	<input type="checkbox"/>	<input type="checkbox"/>
Elite Heated High Back Air Suspension Driver And Passenger Seats With 3 Chamber Air Lumbar Support, Integrated Cushion Extension, Forward And Rear Cushion Tilt With Adjustable Shock Absorber Inboard And Outboard Driver And Passenger Arm Rests	<input type="checkbox"/>	<input type="checkbox"/>
Grey Mordura Cloth Driver And Passenger Seat Cover	<input type="checkbox"/>	<input type="checkbox"/>
3 Point Driver And Passenger Seat Belts With Seat Belt Retractor	<input type="checkbox"/>	<input type="checkbox"/>
Adjustable Tilt Steering Column	<input type="checkbox"/>	<input type="checkbox"/>
18" Steering Wheel With Multi-Function Integrated Controls With Chrome Switch Bezels	<input type="checkbox"/>	<input type="checkbox"/>
Driver/Passenger Interior Sun Visors	<input type="checkbox"/>	<input type="checkbox"/>
<u>INSTRUMENT PANELS AND CONTROLS</u>		
Wrap Around Dash That Allows Up To 13 Gauges And Driver Command Center With Up To 6 Digital Gauges	<input type="checkbox"/>	<input type="checkbox"/>
Teak Accent Surround With Round Gauges	<input type="checkbox"/>	<input type="checkbox"/>
Low Air Pressure Light And Buzzer	<input type="checkbox"/>	<input type="checkbox"/>
Primary And Secondary Air Pressure Gauges	<input type="checkbox"/>	<input type="checkbox"/>
Dash Mounted Air Restriction Gauge	<input type="checkbox"/>	<input type="checkbox"/>
87 Db To 112 Db Self-Adjusting Backup Alarm	<input type="checkbox"/>	<input type="checkbox"/>
Electronic Stability Control	<input type="checkbox"/>	<input type="checkbox"/>
Electronic Cruise Control	<input type="checkbox"/>	<input type="checkbox"/>
Warning Light Bar Display Mounted In Teak Finish	<input type="checkbox"/>	<input type="checkbox"/>
Instrument Cluster Gauges With Bright Bezels	<input type="checkbox"/>	<input type="checkbox"/>
Data Star Driver Display	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Duty Onboard Diagnostic Interface Connector, 9 Pin, SAE J1587/1708/1936, Located Below Dash	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>INSTRUMENT PANELS AND CONTROLS (Cont'd)</u>		
Electric Fuel Gauge	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Engine Coolant Temperature Gauge	<input type="checkbox"/>	<input type="checkbox"/>
Transmission Oil Temperature Gauge	<input type="checkbox"/>	<input type="checkbox"/>
Engine And Trip Hour Meters Integral Within Driver Display	<input type="checkbox"/>	<input type="checkbox"/>
Engine Oil Pressure Gauge	<input type="checkbox"/>	<input type="checkbox"/>
AM/FM WB Stereo Radio with Bluetooth iPod Interface	<input type="checkbox"/>	<input type="checkbox"/>
USB and Auxiliary Inputs, J1939	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) Radio Speakers (Cab Only)	<input type="checkbox"/>	<input type="checkbox"/>
Headliner Multi-Band Antenna AM/FM/WB, Wi-Fi, Bluetooth/GNSS/GPS	<input type="checkbox"/>	<input type="checkbox"/>
Electronic Outside Temperature Sensor, Engine Trip And PTO Hour Meter Display in Driver Command Center	<input type="checkbox"/>	<input type="checkbox"/>
PTO Switch Dash Mounted With Indicator Light	<input type="checkbox"/>	<input type="checkbox"/>
24" Wiper Blades	<input type="checkbox"/>	<input type="checkbox"/>
Electric Windshield Wiper Motor With Delay	<input type="checkbox"/>	<input type="checkbox"/>
Rotary Headlamp Switch, Marker Lights/Headlights Switch With Pull Out For Optional Road Lamps	<input type="checkbox"/>	<input type="checkbox"/>
Switch Indicator Light and 10' Of Wire On Chassis LH Back Of Cab for Customer Furnished Utility Lights	<input type="checkbox"/>	<input type="checkbox"/>
Two-Valve Parking Brake System	<input type="checkbox"/>	<input type="checkbox"/>
Self-Cancelling Turn Signal Switch With Dimmer Head Light Flash Wash/ Wipe/ Intermittent	<input type="checkbox"/>	<input type="checkbox"/>
<u>ACCESSORIES TO BE INCLUDED</u>		
One (1) Complete Set of Filters For Cab/Chassis, Drive Train And Upfit	<input type="checkbox"/>	<input type="checkbox"/>
5 Gallons of Recommended-Use Hydraulic Fluid	<input type="checkbox"/>	<input type="checkbox"/>
One (1) spare front wheel and tire and one (1) spare rear wheel and tire	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>PAINT</u>		
Paint shall be designated on the Purchase Order and shall be one of the available options listed under Options.	<input type="checkbox"/>	<input type="checkbox"/>
<u>UNDERCOATING</u>		
Entire Truck Chassis, Underside Of Cab And Underside Of Added Body, Oil Pan (Dump, Utility, Platform) To Be Coated With Tectyl 2423 Haps Free Black Which Is Low Voc, High Solids, Emulsion Corrosion Preventative Coating, or Equal	<input type="checkbox"/>	<input type="checkbox"/>
<u>PROTECT CLASS-8 CAB RACKS</u>		
68" X 80" Deluxe Cab Rack With:		
• Window		
• Two Chain Hangers		
• Two Chain Trays		
• One Tool Box	<input type="checkbox"/>	<input type="checkbox"/>
6061 Al Bars In Window	<input type="checkbox"/>	<input type="checkbox"/>
Weld Residue Is Removed And Welds Polished	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) 14-Position Locking Chain Hangers	<input type="checkbox"/>	<input type="checkbox"/>
Locking Center-Mount Toolbox	<input type="checkbox"/>	<input type="checkbox"/>
Extruded I-Beam Uprights And Legs Form The Support Structure	<input type="checkbox"/>	<input type="checkbox"/>
Structural Panels Are 5052 Marine Grade Aluminum And Are Resistant To Corrosion especially Salt-Water Atmosphere	<input type="checkbox"/>	<input type="checkbox"/>
Robust, Durable Continuous Welds Join The Structural Rib Aluminum Panel To Protech Hept-Tubes	<input type="checkbox"/>	<input type="checkbox"/>
Stop/Tail/Turn, Oval LED	<input type="checkbox"/>	<input type="checkbox"/>
<u>PROTECH STORAGE BOX</u>		
Aluminum Step Box with .105 Diamond Plate Aluminum Lid Mounted On	<input type="checkbox"/>	<input type="checkbox"/>
Curbside Location	<input type="checkbox"/>	<input type="checkbox"/>
Grip Strut Steps	<input type="checkbox"/>	<input type="checkbox"/>
Neoprene Bulb Style Seals	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel Locking T-Latches	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>PROTECH STORAGE BOX (Cont'd)</u>		
Internal Mounting Brackets	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions: 25”H X 28”D X 36”W	<input type="checkbox"/>	<input type="checkbox"/>
Polished Aluminum (20-2460s)	<input type="checkbox"/>	<input type="checkbox"/>
Polished Aluminum Lid	<input type="checkbox"/>	<input type="checkbox"/>
Wide Mouth Opening (20-2460w)	<input type="checkbox"/>	<input type="checkbox"/>
Continuous Seam Mig Welds On Stress Panels, Such As The Box Floor	<input type="checkbox"/>	<input type="checkbox"/>
Full-Length Stainless Steel Piano Hinges On Doors And Lids	<input type="checkbox"/>	<input type="checkbox"/>
<u>INSTALLED EQUIPMENT BEHIND HEADACHE RACK</u>		
40" Chrome Plating Pogo Stick With D-Ring	<input type="checkbox"/>	<input type="checkbox"/>
Airlines For Low Boy To Be Attached To Pogo Stick	<input type="checkbox"/>	<input type="checkbox"/>
7 Way Trailer Plug Also Attached To Pogo Stick	<input type="checkbox"/>	<input type="checkbox"/>
All Lines Must Be Long Enough To Reach Low Boy Trailer	<input type="checkbox"/>	<input type="checkbox"/>
Bulkhead Bracket To Accommodate Airlines And 7 Way Trailer Plug For	<input type="checkbox"/>	<input type="checkbox"/>
Safe Storage When Trailer Is Not In Use	<input type="checkbox"/>	<input type="checkbox"/>
<u>WHELEN TLI2F</u>		
12 Vdc Split Amber/White Surface Mount Lighthead With 33 Scan-Lock	<input type="checkbox"/>	<input type="checkbox"/>
Flash Patterns:		
• Two In The Grill		
• Two On The Side		
• Two In The Rear		
• Lights To Operate Off Cab Switches	<input type="checkbox"/>	<input type="checkbox"/>
<u>FRONT FENDERS</u>		
Quarter Front Fenders shall Be Made From Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
Brackets shall Be Made Out Of Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
<u>REAR MUD FLAPS</u>		
Rear Mud Flap With Removable Bracket B83	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>HYDRAULIC SPECIFICATIONS FOR LOWBOY SPECIALTY EQUIPMENT TRAILER</u>		
<i>See Options</i>	<input type="checkbox"/>	<input type="checkbox"/>
<u>WARRANTY FOR A 2022 WESTERN STAR 4900 SF OR APPROVED EQUAL</u>		
Western Star Severe Service	<input type="checkbox"/>	<input type="checkbox"/>
Basic Vehicle - 1 Year, 50,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Battery - 1 Year, 50,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Brightwork – 6 Months, Unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Cab Corrosion/Perforation – 5 Years, Unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Cab Structure – 1 Year, 100,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Corrosion – 6 Months, Unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Crossmembers – 3 Years, 300,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Diesel Emission 2010 – 5 Years, 100,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
GHG/17 (Medium Heavy Duty To Heavy Duty Trucks/Tractors) – 5 Years, 100,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
GHG14/17 Tire (File Direct) – 2 Years, 24,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Frame Rails – 3 Years, 300,000	<input type="checkbox"/>	<input type="checkbox"/>
Front/Steer Axle: Detroit – 1 Year, Unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Front/Steer Axle 1 Year, 100,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Paint – 1 Year, 50,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Paint, Chassis – 6 Months, Unlimited	<input type="checkbox"/>	<input type="checkbox"/>
Rear Axle: 1 Year, 100,000 Miles	<input type="checkbox"/>	<input type="checkbox"/>
Towing For Warranty Repair – 5 Years Unlimited Mileage	<input type="checkbox"/>	<input type="checkbox"/>
Cummins 5 Year 100,000 Mile Engine And ATS Warranty	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>WARRANTY FOR A 2022 WESTERN STAR 4900 SF OR APPROVED EQUAL (Cont'd)</u>		
Cummins Protection Plan I:	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Internal Components, Major Engine Systems And Major Components • Registered Parts And Labor • Covers All These Components Including Mounting Hardware And Gaskets: Cylinder Head Assembly, Cylinder Block Assembly, Rocker Level Assembly, Ecm, Piston, Rings And Liners; Lube Oil Cooler Assembly, Front Gear Cover, Oil Pan, Connecting Rod Assembly, Front Gear Cover, Oil Pan, Connecting Rod Assembly, Lube Pump Assembly, Camshaft And Bushings; Cam Follower Assemblies, Crank Shaft Assemblies, Egr Cooler, Valve And Mixer; Fuel Injectors (Excluding Aftertreatment Injector), Turbo, Water Pump, Fuel Pump, Air Compressor, Select Engine Sensors And Flywheel. 	<input type="checkbox"/>	<input type="checkbox"/>
Allison 5 Year Unlimited Miles Transmission Warranty	<input type="checkbox"/>	<input type="checkbox"/>

OPTIONS

2A. Road Department Options (Shall Consist of all of the following items)

Brake System Equipment

Air Connections at Back of Truck Glad Hands

Frame and Wheelbase

Square End of Frame with 58" Overhang

Front Tires, Hubs, and Wheels

Michelin Xze 11r X 24.5 16 Ply

Conmet Iron Front Hubs

Accuride 28827 Inset 2 Hand 24.5 X 8.25 10-Hub Pilot Disc Front Wheels Black

Rear Drive Tires, Hubs, and Wheels

Michelin Xds2 11r 24.5 16 Ply Rear Drive Axle Tires

Conmet Iron Rear Hubs

Accuride 28827 2 Hand 24.5 X 8.25 10 Hub Pilot Steel

Steel Disc Rear Wheels Black

Nylon Wheel Guards Front And Rear All Interfaces

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

OPTIONS

2A. Road Department Options (Shall Consist of all of the following items) (Cont'd)

Rear Drive Tires, Hubs, and Wheels (Cont'd)

Wheel-Check High Visibility Green Loose Wheel Nut Indicator On All
Wheels

One (1) Spare Front and (1) Spare Rear Tire with Black Rims

Road Department Paint Color Scheme

School bus yellow from the bottom of the windows down, Bahama
Blue from the bottom of the windows up to and including cab roof and
Back, on hood from bottom of windshield to a point on the hood to make
A “v” and match the road department fleet.

Shall be base coat clear coat

(Note: not all vehicles will be painted this way)

Whelen Led Liberty II Solo IX 54” Light Bar

Light Bar Led Liberty II Solo IX 54”, All Modules Filled With Amber LED

- Alley Lights And Takedowns Are To Be White
- Whelen Controller
- Brackets For Mounting On Safety Back Rack
- Lightbar Flush With Top Of Cab

32 Inch 16,200 Lumen Led Clear Combination Spot-Flood Light Bar

Mounted On Top Crossmember Of The Headache Rack Facing Downward

Flash Patterns

Rated Ip67 For Dust And Water Resistance

Height 4.89"

Lead Length 52"

Lens Shape Round

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2A. Road Department Options (Shall Consist of all of the following items) (Cont'd)

30 Ton Heavy-Duty Swivel Type Pintle Hook

Color: Black

Finish: Powder Coated

Material: Forged Steel

Pintle Hook Type: Swivel

Drawbar Eye Inner Diameter: 3.00

Maximum Gross Trailer Weight: 60000 Lb

Maximum Vertical Load: 12000 Lb

The Height Of The Inside Body Of The Pintle To Be 28 Inches

1 Inch Pull Plate Mounted On Rear Of Tractor For Hitch Glad Hands Mounted On Side Of Frame Rail

7 Way Trailer Plug Round

Wide Load Sign

Mounted To Front Bumper With A Stainless Steel Hinge

Sign To Be 12" X 92"

Sign Backing To Be Made Of Alumalite Material

Reflective Material To Be Orafol Oralite 5600 5 Mil

Sign To Be Hinged In The Middle And Pinned To Curbside When Closed

Hydraulic Specifications for Lowboy Specialty Equipment Trailer

Fixed Displacement Pump With Hotshift PTO: The Hydraulic Pump

Shall Be A Parker P-20, Fixed Displacement With 2.0" Gear.

Minimum Pump Displacement Is 3.9 Cid Maximum Pressure 3000psi.

Pressure Line Shall Have An In-Line Relief To Protect Against Over Pressurization.

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>2A. Road Department Options (Shall consist of all of the following items) (Cont'd)</u>		
<u>Hydraulic Specifications for Lowboy Specialty Equipment Trailer (Cont'd)</u>		
Pump Shall Be Bi-Rotational Or Uni-Rotational Design.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Must Be Self-Lubricating.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Shaft Shall Have 1 Inch With 15 T-Spline.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Shall Be PTO Mount With 2 Or 4 Bolt B-Flange.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Must Mount Directly To A Chelsea “Hot Shift” PTO On Allison 3000 And 4000 Series Transmissions Without Requiring Bent Axis Or External Mounting Hardware	<input type="checkbox"/>	<input type="checkbox"/>
Pump Must Be Rear Ported.	<input type="checkbox"/>	<input type="checkbox"/>
Installer Must Be Authorized To Preform Warranty Repairs If Required. Such authorization shall be provided with bid submission.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Shall Be A Parker Model P-20 Or Equal.	<input type="checkbox"/>	<input type="checkbox"/>
PTO To Be Activated By On/Off Switch In The Cab	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir And Filter:		
Reservoir Shall Be A Chassis Mounted With 60 Gallon Capacity.	<input type="checkbox"/>	<input type="checkbox"/>
The Return Line Shall Have A 25 Micron Return Filter Rated at 45-50 GPM Per Minute.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Quick Connects To Be Pioneer 4110-5 Male And Pioneer 4150-5 Female On Trailer End And 1” Quick Disconnects On Opposite End For Ease Of Storage	<input type="checkbox"/>	<input type="checkbox"/>
Hoses Are To Be ¾ Inch, 11 Foot Long	<input type="checkbox"/>	<input type="checkbox"/>
2” Ball Valve Mounted On Hydraulic Tank For Suction Line Going To The Hydrualic Pump	<input type="checkbox"/>	<input type="checkbox"/>
All Hydraulic Hoses shall have a Blind Side Quick Disconnect Mounted on Headache Rack for Safe Storage	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>2B. Solid Waste Options (Shall consist of all of the following items)</u>		
<u>Frame and Wheelbase</u>		
Tapered Rear End Of Frame For Plate Mount	<input type="checkbox"/>	<input type="checkbox"/>
<u>Front Tires, Hubs, And Wheels</u>		
Michelin XZE 12r X 22.5 16 Ply	<input type="checkbox"/>	<input type="checkbox"/>
Conmet Iron Front Hubs	<input type="checkbox"/>	<input type="checkbox"/>
Accuride 28828 Inset 2 Hand 22.5 X 8.25 10-Hub Pilot Disc Front Wheels White	<input type="checkbox"/>	<input type="checkbox"/>
<u>Rear Drive Tires, Hubs, And Wheels</u>		
Michelin Xds2 11r 22.5 16 Ply Rear Drive Axle Tires	<input type="checkbox"/>	<input type="checkbox"/>
Conmet Iron Rear Hubs	<input type="checkbox"/>	<input type="checkbox"/>
Accuride 28828 2 Hand 22.5 X 8.25 10 Hub Pilot Steel	<input type="checkbox"/>	<input type="checkbox"/>
Steel Disc Rear Wheels White	<input type="checkbox"/>	<input type="checkbox"/>
Nylon Wheel Guards Front And Rear All Interfaces	<input type="checkbox"/>	<input type="checkbox"/>
Wheel-Check High Visibility Green Loose Wheel Nut Indicator On All Wheels	<input type="checkbox"/>	<input type="checkbox"/>
<u>One (1) Spare Front and One (1) Spare Rear Tire with White Rims</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Paint</u>		
Chassis to Be Painted Chestnut Elite. Paint Code: 00751963EY	<input type="checkbox"/>	<input type="checkbox"/>
<u>Equipment to Be Installed Behind Headache Rack</u>		
150 Amp Master Tarp Disconnect Switch Inside Cab	<input type="checkbox"/>	<input type="checkbox"/>
Waterproof 150 Amp Reset Breaker In Battery Box	<input type="checkbox"/>	<input type="checkbox"/>
Tarp Cable Connector Model # 3BY23 or equal	<input type="checkbox"/>	<input type="checkbox"/>
One Tarp Cable Connector Mounted To Bulkhead For Tarp Cable Storage	<input type="checkbox"/>	<input type="checkbox"/>
<u>Hydraulic Specifications For Walking Floor Trailer And Lowboy Specialty Equipment Trailer</u>		
Fixed Displacement Pump With Hot Shift PTO.	<input type="checkbox"/>	<input type="checkbox"/>
The Hydraulic Pump Shall Be A Parker P-350, Fixed Displacement With 2.0” Gear.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>2B. Solid Waste Options (Shall consist of all of the following items) (Cont'd)</u>		
<u>Hydraulic Specifications For Walking Floor Trailer And Lowboy Specialty Equipment Trailer (Cont'd)</u>		
Minimum Pump Displacement Is 5.11 Cid.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Shall Supply 25 To 30 GPM's At 1200 Rpm's.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Shall Be Bi-Rotational Or Uni-Rotational Design.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Must Be Self-Lubricating.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Shaft Shall Have 1 Inch With 15 T-Spline.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Shall Be PTO Mount With 2 Or 4 Bolt B-Flange.	<input type="checkbox"/>	<input type="checkbox"/>
Pump Must Mount Directly To A Chelsea "Hot Shift" PTO On Allison 3000 And 4000 Series Transmissions Without Requiring Bent Axis Or External Mounting Hardware	<input type="checkbox"/>	<input type="checkbox"/>
Pump Must Be Rear Ported.	<input type="checkbox"/>	<input type="checkbox"/>
Installer Must Be Authorized To Preform Warranty Repairs If Required. Such authorization shall be included with bid submission.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Shall Be A Parker Model P350 Or Equal.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Parker DVG 20 Proportional Valve Group:</u>		
The Central Hydraulic Valve System Shall Be A Mobile Design To Withstand Exposure To De-Icing Chemicals And Severe Weather Conditions.	<input type="checkbox"/>	<input type="checkbox"/>
The System Shall Provide Hydraulic Oil To Operate A Walking Floor Trailer And Lowboy Special Equipment Trailer.	<input type="checkbox"/>	<input type="checkbox"/>
The Spool Valve Sections Shall Be Of Cast Iron Construction, Horizontally Stackable And Serviceable Without Disassembly.	<input type="checkbox"/>	<input type="checkbox"/>
The Directional Control Valves Shall Be Cable Actuated.	<input type="checkbox"/>	<input type="checkbox"/>
Valve Sections Must Be Adjustable For Pressures Up To 3500 Psi And Flow Ratings Up To 25 To 30 GPM.	<input type="checkbox"/>	<input type="checkbox"/>
Where Required Each Section Must Be Able To Limit The Operating Pressure With Adjustable Relief.	<input type="checkbox"/>	<input type="checkbox"/>
Each Directional Valve Section Must Have A Built-In Check Valve Prevents The Oil From Flowing Back To Tank. Each Section Must Have A Manual		

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>2B. Solid Waste Options (Shall consist of all of the following items) (Cont'd)</u>		
<u>Parker DVG 20 Proportional Valve Group (Cont'd)</u>		
Over-Ride With Lever Included.	<input type="checkbox"/>	<input type="checkbox"/>
Valves Must Mount With All The Work Ports Facing Up.	<input type="checkbox"/>	<input type="checkbox"/>
There Shall Be Main Pressure Relieve Set At 3500psi To Protect Against System Over-Pressurization.	<input type="checkbox"/>	<input type="checkbox"/>
The Walking Floor Section Shall Supply 35 GPM At 2900psi.	<input type="checkbox"/>	<input type="checkbox"/>
The Lowboy Section Shall Supply For The Walking Floor Trailer 10 GPM At 1500psi	<input type="checkbox"/>	<input type="checkbox"/>
<u>Parker Valve Actuation With Push Pull Cable Controls</u>		
Controls LeverS Shall Be Single Axis Cable Actuation With Return To Center For Safety.	<input type="checkbox"/>	<input type="checkbox"/>
There Shall Be A Combination Of Single Axis De-Tented Levers Stacked Together For Operation Of The Walking Floor And Lowboy Trailer.	<input type="checkbox"/>	<input type="checkbox"/>
Cable Core Shall Be Nylon Covered Stainless Steel Capable Of 100lb Of Push / Pull.	<input type="checkbox"/>	<input type="checkbox"/>
Cable To Valve Connection Shall Be Clevis Ends With Mounting Bracket And Single Nut Adjustment With Locking Nut.	<input type="checkbox"/>	<input type="checkbox"/>
The Controllers Shall Be Mounted In Cab Inside A Totally Enclosed Single Tower.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Reservoir And Filter</u>		
Reservoir Shall Be A Chassis Mounted With 60 Gallon Capacity.	<input type="checkbox"/>	<input type="checkbox"/>
The Return Line Shall Have A 25 Micron Return Filter Rated At 45-50 GPM Per Minute.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Quick Connects To Be G95111-1616 Gates And G95121-1616 Gates	<input type="checkbox"/>	<input type="checkbox"/>
Extra Set Mounted To Bulkead For Hose Storage	<input type="checkbox"/>	<input type="checkbox"/>
Hoses Are To Be ¾ Inch, 11 Foot Long	<input type="checkbox"/>	<input type="checkbox"/>
All Hydraulic Hoses Are To Have A Blind Side Quick Disconnect Mounted On Headache Rach For Safe Storage	<input type="checkbox"/>	<input type="checkbox"/>
2" Ball Valve Mounted On Hydraulic Tank For Suction Line Going To The Hydrualic Pump	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2B. Solid Waste Options (Shall consist of all of the following items) (Cont'd)

Reservoir And Filter

A Relief Valve Will Be Installed To Prevent System From Over Presurizing When Hoses Are Not Hooked Up

2C. Diagnostic Tools / Test Equipment

Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment

1. Successful bidder shall be required to supply between one (1) and three (3) Complete sets of testing/diagnostic/programming equipment (i.e. Laptop, Software, cabling, and adapters) and special tools required to perform the Full range of diagnostic and maintenance actions necessary to maintain Vehicle operability. This equipment will cover the vehicle chassis, engine, Transmission, brakes, hydraulics, and all additional equipment (if applicable)
2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software
3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid
4. All software installations and activations will be completed by the successful bidder at no cost to the county
5. All software updates and renewal will be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment
6. All technical issues relating to test/diagnostic/programming equipment and special tools shall be resolved by the successful bidder at no cost to the county for a period of five (5) years from the acceptance of the equipment
7. Training shall be provided on all items in this section at a specified county location

2D. Two-Way Radio Power and Wiring Requirements for New Vehicles

For the purpose of installing two-way radios into new county vehicles and equipment, The following power and wiring components shall be included:

- #12 AWG red wire connected to 12vdc battery source rated at 20 amps
- #12 AWG black wire connected to chassis ground
- #16 AWG yellow wire connected to 12vdc ignition sense rated at 5 amps

Wires shall be encased in plastic wire loom and routed from their source into the Cab of the vehicle and secured in the vicinity of the operator. Wiring harness shall be Clearly labeled “two-way radio”. Wires shall be unterminated. 12vdc sources Shall be protected from making contact with grounded metal surfaces

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

<u>COMPLIANCE</u>	
<u>YES</u>	<u>NO</u>

OPTIONS (Cont'd)

2E. Installation of County Supplied Two Way Radio and Accessories

Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc. For the purpose of installing two-way radios into new county vehicles and equipment, The following power and wiring components shall be included:

1. #12 awg red wire connected to 12vdc battery source rated at 20 amps.
2. #12 awg black wire connected to chassis ground.
3. #16 awg yellow wire connected to 12vdc ignition sense rated at 5 amps.

These wires shall be encased in plastic wire loom and routed from their source into The cab of the vehicle. The wiring harness shall be clearly labeled “two-way radio”.

The 12vdc sources shall be protected from making contact with grounded metal surfaces.

2F. Technical Support

Technical support is to be provided by factory authorized technical representatives and Is to be the original equipment manufacturer’s industry standard technical presentation In a classroom setting. The support provided shall be at the journeyman/equipment technician Level and should address limited theory, fault diagnosis and repair pertaining specifically to the equipment supplied under this specification.

Technical support may be requested in the following areas:

- Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
- Transmission – 1 day at each location
- Electrical – 1 day at each location
- Brakes – 1 day at each location
- Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
- Upfitter (dump body, sweeper, etc.) – 1 day at each location

A technical representative(s) shall be made available for a total of 180 training/support Hours (anticipated to be scheduled in six (6) hour blocks). Shorter training days will be Allowed only with consent of vehicle services. The total training hours will be required To be provided and no additional compensation will be considered. The actual time to be Spent on each area will be by mutual agreement of the vehicle services department and The successful bidder.

For the purposes of determining materials and other training costs, class size is Anticipated to be comprised of six (6) to ten (10) vehicle services department personnel. Actual class size will be determined by the vehicle services department at the time the classes are scheduled.

ITEM #2 – MODEL YEAR 2023, OR NEWER, SPECIALIZED WESTERN STAR 49X TRACTOR, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2F. Technical Support (Cont'd)

Before the training is scheduled, vehicle services and the contractor will agree on the Scope of the training, and the type and quantity of manuals, etc. That are necessary for Proper coverage.

Technical support for vehicle services may be provided at the following fleet Maintenance facility location as scheduled by a vehicle services department Representative:

- Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)
- Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

Technical support for other departments will be held at a location within Ocean County. The requesting department will notify the successful bidder of The location. Training at the successful bidder's site, rather than the designated Locations, will be by mutual consent only. Technical support will be requested And scheduled on an as needed basis up to but not exceeding the 180 hours total During a period not to exceed twelve (12) months from the date of placing the Last unit in service.