



John P. Kelly, Director
Frank Sadeghi, Deputy Director
Robert S. Arace, Commissioner
Jennifer Bacchione, Commissioner
Virginia E. Haines, Commissioner

Jennifer L. Bowens, Purchasing Agent

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

BID

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS

2025

ADVERTISEMENT DATE: August 13, 2025

OPENING: September 3, 2025, 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: VARIOUS BODIED HEAVY DUTY TRUCKS** for the County of Ocean, will be received by the Purchasing Agent of the County of Ocean on **Wednesday, September 3, 2025** at **11:00 am**, prevailing time.

Bids will be received electronically via the County's Online Procurement Portal. Specifications are available on the Procurement Portal or for viewing only, 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.

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:

JOHN P. KELLY, 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: jhannold@co.ocean.nj.us

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

Department:

Vehicle Services

Timeline

Advertising Date	August 13, 2025
Bid Opening Date	September 3, 2025, 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 Open Gov by following these instructions:

Sign up for a FREE account at <https://procurement.opengov.com/portal/oceancounty>

Once you have completed account registration, browse back to this page: [County's OpenGov Electronic Bid Portal \(https://procurement.opengov.com/portal/oceancounty/\)](https://procurement.opengov.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 OpenGov 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 Wednesday, September 3, 2025.

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.

NOTE: In order to access any DocuSign forms in this solicitation, you must first click "Draft Response".

Instructions on how to access the forms through DocuSign are available in the Attachments. Please note that in order to view the forms as a .pdf document, you must access DocuSign first. Once you access DocuSign, the option to download, save, print and complete the forms becomes available

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

The quantities shown on the pricing proposal are **estimates only**, and Ocean County will not guarantee any minimum purchase. The County reserves the right to decrease or omit quantities as needed over the course of the contract. The county will not consider any minimum requirements imposed 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. *Note: Actual orders are placed upon receipt of a Purchase Order, on an as needed basis. The County will not be responsible to pay for any product that was not ordered through a Purchase Order.*

Delivery of Goods and Services

Delivery of items shall only 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.

Specific Market Conditions for Motor Vehicles

If the current model year changes mid contract, the vendor can submit a price adjustment request to the County for the next model year. Requests for price adjustments must include justification and documentation such as a notice of an increase in the manufacturer's price and/or an increase in the industry. Requests, including specifications and a revised price sheet, must be submitted to the Ocean County Purchasing Agent for review and approval. If approved, the revised

specifications and price sheet will be posted on line for all future purchases for the new model year vehicle.

Additionally, if the awarded model vehicle is no longer available to order, the County reserves the right to purchase the same make and model vehicle (any year) from the awarded vendor from the lot, if available. Specifications and a price quote for these vehicles must be submitted to the Ocean County Purchasing Agent for review and approval before an order can be placed.

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://www.nj.gov/labor/wageandhour/prevailing-rates/public-works/currentprevailingwage.shtml>

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.

Disclosure of Investment Activities in Iran

Pursuant to Public Law 2012, c. 25, any person or entity that is a successful bidder or proposer, 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 parent entity, subsidiary, or affiliate is identified on the State Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The list is found on Treasury's website at www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf.

The Chapter 25 list must be reviewed prior to completing the certification. If a vendor or contractor is found to be in violation of law, action may be taken as appropriate and as may 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. Prior to contract award or authorization, the contractor shall provide the Contracting Agency with a completed Certification on Disclosure of Investment Activities in Iran.

Certification of Non-Involvement in Prohibited Activities in Russia or Belarus

Pursuant to N.J.S.A. 52:32-60.1, et seq. ([L. 2022, c. 3](#)) any person or entity (hereinafter “Vendor”) that seeks to enter into or renew a contract with a State agency for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any 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.

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.

Open Public Records Act (OPRA)

**** ATTENTION****

Responses received pursuant to this solicitation are subject to complete disclosure pursuant to the Open Public Records Act. Please note that disclosure includes any and all attachments and addenda supplementing the solicitation response. Accordingly, please do not include personal identifying information in any supplementary documents submitted with the solicitation response.

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.

Motor Vehicle Specific Scope of Work

CONTRACT TERMS

Contract shall be for 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. The County reserves the right to extend the contract for one (1) additional year by mutual agreement between the County and the Contractor with no increase in base price..

SPECIFICATIONS

Detailed specifications for this bid are located in the Vendor Questionnaire under the question labeled "Compliance Pages for MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY 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 at the bid opening and results will be made available online through the County's procurement portal 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 (thumb drive, 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.

Vendor Questionnaire

OpenGov Vendor Account Verification*

I have verified that I am logged into OpenGov using an **account name** that corresponds to the **Tax ID number** and **Business Name** used throughout all documentation in this solicitation. I further understand that should my company be awarded a contract with Ocean County, the company information listed on the **Signature Page** document will be used to generate all contract documents.

Please confirm

*Response required

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

BID DOCUMENTS TO BE EXECUTED*

Documents include:

- Signature Page
- Non-Collusion Certification
- Affirmative Action Questionnaire
- **Statement of Ownership (N.J.S.A. 52:25-24.2) (Mandatory Document)**
- Disclosure of Investment Activities in Iran
- Certification of Non-Involvement in Prohibited Activities in Russia or Belarus

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

All documents should be from this proposal 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.

NOTE: For detailed instructions on how to complete the forms via DocuSign, please access the "Instructions for Completing Forms in DocuSign" document available in the Attachments.

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

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

*Response required

Copy of Bidder's Certificate of Employee Information Report

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 for Goods and Services; Form AA201 for Construction). This form is available [here](#).

QUESTIONS BELOW MUST BE ANSWERED BY ALL CONTRACTORS ON THE AFFIRMATIVE ACTION DOCUMENT:

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.

Please note, the only acceptable file forms are as follows:

Documents (doc, docx, rtf, txt, xls, xlsx, pdf)

Images (jpg, png, bmp, tif)

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.

Please note, the only acceptable file forms are as follows:

Documents (doc, docx, rtf, txt, xls, xlsx, pdf)

Images (jpg, png, bmp, tif)

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

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.

Please note, the only acceptable file forms are as follows:

Documents (doc, docx, rtf, txt, xls, xlsx, pdf)

Images (jpg, png, bmp, tif)

*Response required

COMPLIANCE PAGES FOR MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS*

Please download the attached Compliance Pages. 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

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

ADDITIONAL VENDOR DOCUMENTATION

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

Please note, the only acceptable file forms are as follows:

Documents (doc, docx, rtf, txt, xls, xlsx, pdf)

Images (jpg, png, bmp, tif)

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

Pricing Proposal

ITEM #1 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
1	Current Model Year, or Newer, Ford F550 Regular Cab with Steel Dump Body As Specified, or Equal	20	EA							
OPTIONS										
1A	Upgrade chassis to Super Cab chassis, retaining 60" Cab to Axle, As Specified	20	EA							
1B	Upgrade chassis to Crew Cab chassis, retaining 60" Cab to Axle, As Specified	20	EA							
1C	Upgrade to Regular Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
1D	Upgrade to Super Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
1E	Upgrade to Crew Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
1F	Fold Down Sides on Standard Dump Body, As Specified or Equal	20	EA							
1G	Stainless Steel Body Upgrade Dimensions, As Specified or Equal	20	EA							
1H	Stainless Steel Fold Down Sides for Stainless Steel Body Option, As Specified or Equal	20	EA							
1I	Body Paint Option for Stainless Steel Body Upgrade, As Specified or Equal	20	EA							
1J	Central Hydraulic System Hydraulic Pump, As Specified or Equal	20	EA							
1K	Stainless Steel UTG Spreader General, As Specified or Equal	20	EA							
1L	Dump-Through Liftgate, As Specified or Equal	20	EA							
1M	I-Pack Tool Box, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
1N	ProTech Aluminum I-Pack with Stainless Steel Doors PN # 20-2737, As Specified or Equal	20	EA							
1O	30" Under Body Tool Box, As Specified or Equal	20	EA							
1P	Stainless Steel V-Box General, As Specified or Equal	20	EA							
1Q	Spreader Leg Stand Kit PN #3037295, As Specified or Equal	20	EA							
1R	Air Compressor, 70 CFM, As Specified or Equal	20	EA							
1S	Air Compressor, 150 CFM, As Specified or Equal	20	EA							
1T	Go-Lights, Model 30264, As Specified or Equal	20	EA							
1U	9' Readily Detachable Western Snow Plow System, As Specified or Equal	20	EA							
1V	Poly Electric Spreader Dimensions, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
1W	Special Paint Colors Not on the Standard Color Chart, As Specified or Equal	20	EA							
1X	Diagnostic Tools / Test Equipment, As Specified	3	SET							
1Y	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	20	EA							
1Z	Installation of County Supplied Two Way Radio and Accessories, As Specified	20	EA							
1AA	Technical Support, As Specified	180	HOUR							
TOTAL										

ITEM # 2 –CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
2	Current Model Year, or newer Ford F550 Regular Cab with 9 Foot Utility Body, As Specified or Equal	20	EA							
OPTIONS										
2A	Upgrade chassis to Super Cab chassis, retaining 60" Cab to Axle, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
2B	Upgrade chassis to Crew Cab chassis, retaining 60" Cab to Axle, As Specified or Equal	20	EA							
2C	Upgrade to Regular Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
2D	Upgrade to Super Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
2E	Upgrade to Crew Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
2F	9' Aluminum Utility Body Upgrade Body Shell, As Specified or Equal	20	EA							
2G	11 Foot Body Upgrade, As Specified or Equal	20	EA							
2H	Maxon Liftgate, As Specified or Equal	20	EA							
2I	Flip Top Compartment both Street and Curbside for 9 Foot Utility Body, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
2J	Flip Top Compartment both Street and Curbside for 11 Foot Utility Body, As Specified or Equal	20	EA							
2K	Raised Front Curbside Compartment for Both 9 Foot and 11 Foot Utility Bodies (bottle gas retainer not included), As Specified or Equal	20	EA							
2L	Bottle Retainer Compartment, As Specified or Equal	20	EA							
2M	High Compartment Body, 9 Foot Utility Body, As Specified or Equal	20	EA							
2N	High Compartment Body, 11 Foot Utility Body, As Specified or Equal	20	EA							
2O	Subfloor with Full Height Tailgate, As Specified or Equal	20	EA							
2P	Transverse Compartment, As Specified or Equal	20	EA							
2Q	C-Tech Drawer Unit for Standard Height Body, As Specified or Equal	20	EA							
2R	C-Tech Drawer Unit for 60" High Utility Body, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
2S	Venco Venturo 4,000 LB. Electric Crane, As Specified or Equal	20	EA							
2T	Custom Rear Work Bumper, As Specified or Equal	20	EA							
2U	Telescopic Sliding Roof – 9’ Body (High Sides), As Specified or Equal	20	EA							
2V	Telescopic Sliding Roof – 11’ Body (High Sides), As Specified or Equal	20	EA							
2W	Ladder Rack, As Specified or Equal	20	EA							
2X	E-Track Down Each Side of Body – 2” from Top of Compartments, As Specified or Equal	20	EA							
2Y	Four (4) 2’ X 12” Ratchet Straps, As Specified or Equal	20	EA							
2Z	BASF Spray Liner on Floor of Compartments, As Specified or Equal	20	EA							
2AA	Whelen LED Liberty II Wecan X 54” Light Bar, As Specified or Equal	20	EA							
2BB	Light Color Option for Liberty II Wecan X 54” Light Bar, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
2CC	Emergency Lighting Split Red Blue Body Lights, As Specified or Equal	20	EA							
2DD	Trailblazer 302 Air Pak, As Specified or Equal	20	EA							
2EE	Winch, As Specified or Equal	20	EA							
2FF	Air Compressor, 150 CFM, As Specified or Equal	20	EA							
2GG	Pioneer Flood Light Head – Model PFH2P1, As Specified or Equal	20	EA							
2HH	Cast Iron Mechanic's Vise on Removable Plate with Receiver Type Hitch, As Specified or Equal	20	EA							
2II	Husky 815-Piece Mechanic's Tool Set, As Specified or Equal	20	EA							
2JJ	Truck Steel Air/Hydraulic Service Jack, As Specified or Equal	20	EA							
2KK	1700 Peak Amp 12 Volt Jump Starter, As Specified or Equal	20	EA							
2LL	Booster Jump Set, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
2MM	Vehicle Special Order Paint Colors Not On the Standard Color Chart, As Specified	20	EA							
2NN	EnPak A30GBW, As Specified or Equal	20	EA							
2OO	Inverter, As Specified or Equal	20	EA							
2PP	Go-Lights, Model 3024, As Specified or Equal	20	EA							
2QQ	9' Readily Detachable Western Snow Plow System, As Specified or Equal	20	EA							
2RR	Poly Electric Spreader, As Specified or Equal	20	EA							
2SS	Pipe Vise on Removable Plate with Receiver Type Hitch, As Specified or Equal	20	EA							
2TT	Diagnostic Tools / Test Equipment, As Specified	3	SET							
2UU	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	20	EA							
2VV	Installation of County Supplied Two Way Radio and Accessories, As Specified	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
2WW	Technical Support, As Specified	180	HOUR							
TOTAL										

ITEM # 3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
3	Current Model Year, Or Newer, Ford F550 Regular Cab With Enclosed Utility Service Body, As Specified or Equal	20	EA							
OPTIONS										
3A	Upgrade chassis to Super Cab chassis, retaining 60" Cab to Axle, As Specified or Equal	20	EA							
3B	Upgrade Chassis to Crew Cab Chassis, Retaining 60" Cab to Axle, As Specified or Equal	20	EA							
3C	Upgrade to Regular Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
3D	Upgrade to Super Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
3E	Upgrade to Crew Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
3F	Medium Height Enclosed Body Upgrade, As Specified or Equal	20	EA							
3G	High Height Enclosed Body Upgrade, As Specified or Equal	20	EA							
3H	11 Foot Low Height Enclosed Body Upgrade For Use With 84" CA Chassis, As Specified or Equal	20	EA							
3I	11 Foot Medium Height Enclosed Body Upgrade For Use With 84" CA Chassis, As Specified or Equal	20	EA							
3J	11 Foot High Height Enclosed Body Upgrade for Use with 84" CA Chassis, As Specified or Equal	20	EA							
3K	Aluminum Body Upgrade from Steel, As Specified or Equal	20	EA							
3L	Medium Height Enclosed Body Upgrade, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
3M	High Height Enclosed Body Upgrade, As Specified or Equal	20	EA							
3N	11' Medium Height Enclosed Body Upgrade for Use with 84" CA, As Specified or Equal	20	EA							
3O	11' High Height Enclosed Body Upgrade for Use with 84" CA, As Specified or Equal	20	EA							
3P	Side Access Doors in Roof, As Specified or Equal	20	EA							
3Q	Bottle Retainer Compartment, As Specified or Equal	20	EA							
3R	BASF DTE Liner AXALTA, As Specified or Equal	20	EA							
3S	Whelen M9 Super LED Scene Lights, As Specified or Equal	20	EA							
3T	Inverter, As Specified or Equal	20	EA							
3U	BASF Spray Liner on Floor and Sides of Cargo Area, As Specified or Equal	20	EA							
3V	BASF Spray Liner on Floor of Compartments, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
3W	Hide-A-Way Bumper Crane, As Specified or Equal	20	EA							
3X	Whelen LED Liberty II Wecan X 54" Light Bar, As Specified or Equal	20	EA							
3Y	Light Color Option for Liberty II Wecan X 54" Light Bar, As Specified or Equal	20	EA							
3Z	Emergency Lighting LED Body Lights, As Specified or Equal	20	EA							
3AA	Maxon Liftgate, As Specified or Equal	20	EA							
3BB	Subfloor, As Specified or Equal	20	EA							
3CC	Transverse Compartment, As Specified or Equal	20	EA							
3DD	C-Tech Drawer Unit, As Specified or Equal	20	EA							
3EE	Air Compressor, 70 CFM, As Specified or Equal	20	EA							
3FF	Air Compressor, 150 CFM, As Specified or Equal	20	EA							
3GG	Go-Lights, Model 3024, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
3HH	9' Readily Detachable Western Snow Plow System, As Specified or Equal	20	EA							
3II	Winch, As Specified or Equal	20	EA							
3JJ	Husky 815-Piece Mechanic's Tool Set, As Specified or Equal	20	EA							
3KK	Truck Steel Air/Hydraulic Service Jack, As Specified or Equal	20	EA							
3LL	1700 Peak Amp 12 Volt Jump Starter, As Specified or Equal	20	EA							
3MM	Booster Jump Set, As Specified or Equal	20	EA							
3NN	Special Paint Colors Not on the Standard Color Chart, As Specified	20	EA							
3OO	Diagnostic Tools / Test Equipment, As Specified	3	SET							
3PP	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	20	EA							
3QQ	Installation of County Supplied Two Way Radio and Accessories, As Specified	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
3RR	Technical Support, As Specified	180	HOUR							
TOTAL										

ITEM # 4 - CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
4	Current Model Year, Or Newer Ford F550 Regular Cab With Platform Body, As Specified or Equal	20	EA							
OPTIONS										
4A	Upgrade chassis to Super Cab chassis, retaining 60" Cab to Axle, As Specified or Equal	20	EA							
4B	Upgrade chassis to Crew Cab chassis, retaining 60" Cab to Axle, As Specified or Equal	20	EA							
4C	Upgrade to Regular Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
4D	Upgrade to Super Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
4E	Upgrade to Crew Cab chassis with 84" Cab to Axle, As Specified or Equal	20	EA							
4F	Upgrade to Regular Cab chassis with 108" Cab to Axle, As Specified or Equal	20	EA							
4G	Upgrade to 12'3" Platform Body with Removable Stake for use with 84" CA Chassis, As Specified or Equal	20	EA							
4H	Thieman TT Liftgate, As Specified or Equal	20	EA							
4I	Thieman Stow-Away Standard Tailgate Liftgate, As Specified or Equal	20	EA							
4J	Under Body Hoist for Dumping Capabilities, As Specified or Equal	20	EA							
4K	Dump-Through Liftgate, As Specified or Equal	20	EA							
4L	40" Stake Sides (9'3" Body), As Specified or Equal	20	EA							
4M	40" Stake Sides (12'3" Body), As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
4N	Color Option for 40" Stake Sides, As Specified or Equal	20	EA							
4O	52" Stake Sides (9'3" Body), As Specified or Equal	20	EA							
4P	52" Stake Sides (12'3" Body), As Specified or Equal	20	EA							
4Q	Color Option for 52" Stake Sides, As Specified or Equal	20	EA							
4R	40" Grain Sides (9'3" Body), As Specified or Equal	20	EA							
4S	40" Grain Sides (12'3" Body), As Specified or Equal	20	EA							
4T	Color Option for 40" Grain Sides, As Specified or Equal	20	EA							
4U	52" Grain Sides (9'3" Body), As Specified or Equal	20	EA							
4V	52" Grain Sides (12'3" Body), As Specified or Equal	20	EA							
4W	Color Option for 52" Grain Sides, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
4X	Light Package 1, As Specified or Equal	20	EA							
4Y	Light Package 2, As Specified or Equal	20	EA							
4Z	Go Light Work Lights, Model 30004ST, As Specified or Equal	20	EA							
4AA	I-Pack Tool Box, As Specified or Equal	20	EA							
4BB	30" Under Body Tool Box, As Specified or Equal	20	EA							
4CC	48" Under Body Tool Box, As Specified or Equal	20	EA							
4DD	Air Compressor, 70 CFM, As Specified or Equal	20	EA							
4EE	Air Compressor, 150 CFM, As Specified or Equal	20	EA							
4FF	Whelen LED 54" Light Bar, As Specified or Equal	20	EA							
4GG	9' Readily Detachable Western Snow Plow System, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
4HH	Trailblazer 325 Air Pak, As Specified or Equal	20	EA							
4II	Slide Bar with Straps, As Specified or Equal	20	EA							
4JJ	Stainless Steel V-Box, Hydraulically Operated Hydraulics, As Specified or Equal	20	EA							
4KK	Diagnostic Tools / Test Equipment, As Specified	3	SET							
4LL	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	20	EA							
4MM	Installation of County Supplied Two Way Radio and Accessories, As Specified	20	EA							
4NN	Technical Support, As Specified	180	HOUR							
TOTAL										

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
5	Current Model Year, Or Newer, Ford F550 Regular Cab With Switch-N-Go Detachable Truck Body System Including Accessories, As Specified or Equal	20	EA							
OPTIONS										
5A	9.0' Readily Detachable Snowplow System, As Specified or Equal	20	EA							
5B	Cirrus Hydraulics System, As Specified or Equal	20	EA							
5C	Large Stainless Steel VBox Spreader, As Specified or Equal	20	EA							
5D	Dump Body for 11' Floor Length, As Specified or Equal	20	EA							
5E	Stainless Steel Dump Body for 11' Floor Length, As Specified or Equal	20	EA							
5F	Platform 11' Overall Floor Length, As Specified or Equal	20	EA							
5G	Medium Duty Dump Box, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
5H	Medium Duty Dump Box High Sides, As Specified or Equal	20	EA							
5I	Manual Tarp, As Specified or Equal	20	EA							
5J	Stake Sides and Removable Rear Stakes, As Specified or Equal	20	EA							
5K	Horizontal Split Door for Use Chipper Top, As Specified or Equal	20	EA							
5L	24" Deep Chipper Top, As Specified or Equal	20	EA							
5M	Coal Chute, As Specified or Equal	20	EA							
5N	Side Door in Drop Box, As Specified or Equal	20	EA							
5O	Mason Type Tarp, As Specified or Equal	20	EA							
5P	Split Doors for Drop Box For Chipper or Leaf Application, As Specified or Equal	20	EA							
5Q	Fold Down Sides Steel, As Specified or Equal	20	EA							
5R	Fold Down Sides Aluminum, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
5S	Light Package, As Specified or Equal	20	EA							
5T	Go Lights, As Specified or Equal	20	EA							
5U	Stainless Steel UTG Spreader, As Specified or Equal	20	EA							
5V	Flat Bed Service Body, As Specified or Equal	20	EA							
5W	Brine Water Tank, As Specified or Equal	20	EA							
5X	48" Under Body Tool Box, As Specified or Equal	20	EA							
5Y	30" Under Body Tool Box, As Specified or Equal	20	EA							
5Z	Arbor Body: AB-11, As Specified or Equal	20	EA							
5AA	Work Ready Subframe: WRSF-11, As Specified or Equal	20	EA							
5BB	Maxscaper 12' Aluminum Landscaper Body Attachment, As Specified or Equal	20	EA							
5CC	Chipper Leaf Top for Landscaper, As Specified or Equal	20	EA							

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
5DD	Diagnostic Tools / Test Equipment, As Specified	3	SET							
5EE	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	20	EA							
5FF	Installation of County Supplied Two Way Radio and Accessories, As Specified	20	EA							
5GG	Technical Support, As Specified	180	HOUR							
TOTAL										

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS		
Current Model Year, or newer Ford F550 Regular Cab with Steel Dump Body	<input type="checkbox"/>	<input type="checkbox"/>
Dual Rear Wheels, Four Wheel Drive	<input type="checkbox"/>	<input type="checkbox"/>
60” Cab to Axle (CA)	<input type="checkbox"/>	<input type="checkbox"/>
7.3L V8 gasoline engine	<input type="checkbox"/>	<input type="checkbox"/>
40 gallon fuel tank	<input type="checkbox"/>	<input type="checkbox"/>
TorqShift transmission with PTO option 19,000 lb. GVWR	<input type="checkbox"/>	<input type="checkbox"/>
Cab shall be military grade aluminum alloy for longevity to the County in lieu of carbon steel	<input type="checkbox"/>	<input type="checkbox"/>
Frame shall be fully boxed under cab and “C” channel behind cab	<input type="checkbox"/>	<input type="checkbox"/>
Oil life monitor, engine hour and engine idle hour meters	<input type="checkbox"/>	<input type="checkbox"/>
Air Conditioning	<input type="checkbox"/>	<input type="checkbox"/>
Airbags, frontal driver & passenger, side impact and side air curtains	<input type="checkbox"/>	<input type="checkbox"/>
TowCommand integrated trailer brake controller, manual telescoping trailer tow mirrors	<input type="checkbox"/>	<input type="checkbox"/>
7 wire trailer wiring harness (no plug)	<input type="checkbox"/>	<input type="checkbox"/>
AM/FM radio, SYNC4 Enhanced voice recognition communication and entertainment, 911 Assist, AppLink 4-2” LCD Center Screen, One (1) Smart charging USB Port	<input type="checkbox"/>	<input type="checkbox"/>
Power windows, locks, mirrors, and heated mirrors	<input type="checkbox"/>	<input type="checkbox"/>
Center High Mount Stop Lamp	<input type="checkbox"/>	<input type="checkbox"/>
240 amp HD alternator, 12V 750 CCA battery	<input type="checkbox"/>	<input type="checkbox"/>
Tilt and telescoping steering wheel	<input type="checkbox"/>	<input type="checkbox"/>
4.88 ratio limited slip axle	<input type="checkbox"/>	<input type="checkbox"/>
4 wheel power ABS brakes, front and rear disc, power steering, front and rear stabilizer bars	<input type="checkbox"/>	<input type="checkbox"/>
Quad-beam jewel-effect halogen headlamps, five (5) roof marker lights	<input type="checkbox"/>	<input type="checkbox"/>
LT225/70R19.5G BSW Traction tires – six (6)	<input type="checkbox"/>	<input type="checkbox"/>
One (1) full sized spare tire mounted to wheel and one (1) jack	<input type="checkbox"/>	<input type="checkbox"/>
Chrome front bumper, front tow hooks	<input type="checkbox"/>	<input type="checkbox"/>
Chrome hub covers, front bumper grill	<input type="checkbox"/>	<input type="checkbox"/>
Power Sliding Rear glass with defrost – sc/cc only	<input type="checkbox"/>	<input type="checkbox"/>
Remote Start	<input type="checkbox"/>	<input type="checkbox"/>
Halogen Fog Lamps	<input type="checkbox"/>	<input type="checkbox"/>
40/20/40 split vinyl bench seat with center arm rest	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary power point, six (6) upfitter switches located overhead center Tachometer, speedometer, oil pressure, transmission temp, engine temp, and fuel gauge	<input type="checkbox"/>	<input type="checkbox"/>
Interval windshield wipers	<input type="checkbox"/>	<input type="checkbox"/>
Driver & passenger grab handles	<input type="checkbox"/>	<input type="checkbox"/>
Standard XL Rear view camera and prep kit	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary power point, six (6) upfitter switches located overhead center	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS (CONT'D)		
Tachometer, speedometer, oil pressure, transmission temp, engine temp, and fuel gauge	<input type="checkbox"/>	<input type="checkbox"/>
Interval windshield wipers	<input type="checkbox"/>	<input type="checkbox"/>
Driver & passenger grab handles	<input type="checkbox"/>	<input type="checkbox"/>
Standard XL Rear view camera and prep kit	<input type="checkbox"/>	<input type="checkbox"/>
Chome hub covers front bumper/grill	<input type="checkbox"/>	<input type="checkbox"/>
3-year/36,000 mile bumper-to-bumper warranty on OE components	<input type="checkbox"/>	<input type="checkbox"/>
5-year/60,000 mile powertrain warranty	<input type="checkbox"/>	<input type="checkbox"/>
Shift on the fly	<input type="checkbox"/>	<input type="checkbox"/>
Cab steps, molded black (running boards)	<input type="checkbox"/>	<input type="checkbox"/>
Snow plow prep package	<input type="checkbox"/>	<input type="checkbox"/>
Single color to be selected from standard color chart at time of order	<input type="checkbox"/>	<input type="checkbox"/>
Undercoating – entire truck chassis, underside of cab and underside of added body (dump, utility, platform) shall be coated with Tectyl 2423 Haps Free Black, or Z Guard Product, a low VOC, High Solids, Emulsion Corrosion preventing coating	<input type="checkbox"/>	<input type="checkbox"/>
STEEL DUMP BODY SPECIFICATION:		
DUMP TBEI/ELIMINATOR		
Dimensions:		
<ul style="list-style-type: none"> • 10 ga. Steel Dump Body • Length – 9’ • Width – 96” • Inner side height – 17” high • Inner tailgate height – 23” high • Rated capacity: 3.3 cubic yard nominal (water level load) • 4.5 cubic yards with 6” side extensions 	<input type="checkbox"/>	<input type="checkbox"/>
Floor and Understructure:		
Floor shall be seamless one piece design and material thickness 10 ga. high strength steel for minimal deflection in critical areas.	<input type="checkbox"/>	<input type="checkbox"/>
Floor sheet shall have two (2) 5/8” radius bends to complete 90° radius to finalize the transition from side to floor and uninterrupted look that will not hold back debris.	<input type="checkbox"/>	<input type="checkbox"/>
The minimum floor surface width is 82”	<input type="checkbox"/>	<input type="checkbox"/>
Rear edge of floor sheet is reinforced to prohibit deflection and maintain a positive, long lasting tailgate seal. The understructure to be of stacked structural design for maximum load support.	<input type="checkbox"/>	<input type="checkbox"/>
Longsills to be 5” structural C-channel, Cross sill shall be 3” I-beam, spaced approximately 16” apart and reinforced with gussets.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STEEL DUMP BODY SPECIFICATION: (CONT'D)

Floor and Understructure: (Cont'd)

Rear apron shall be 8” high, full-width design and made from 10 ga high strength steel, Rear apron to include 3 FMVSS 108 compliant clearance lamps mounted in shock resistant rubber grommets to maximize bulb life.

Body Front & Side:

Front shall be fabricated from 10 ga. Steel.
 Front to be seamless one piece design with triple bend top rails for long term durability.
 Working height of front shall be 24” above floor, which matches rear tailgate.
 Full height front corner posts shall include clearance lights at each corner to comply with FMVSS 108 safety standards.
 Sides include two (2) 6” wide vertical braces per side, with continuous weldment to side and top and bottom rail for additional strength.
 Full depth rear corner posts to be 11.6” wide and 5” deep with hardware concealed for a clean streamlined look.
 Double walled design, single-walled **NOT ACCEPTABLE**.
 Sides are equipped with front and rear 6” board pockets with retaining holes, board pockets are designed for 2” nominal lumber

Tailgate:

Shall be fabricated from 10 gauge steel with fully boxed dirt shedding top and bottom rails and incorporates 2 vertical braces to provide additional strength and rigidity.
 Tailgate shall be recessed flush with rear edge of corner post
 Tailgate shall be of double acting design incorporating Rugby’s patented E-Z LATCH system with cam action to draw in annoying miss-aligned upper tailgate pins.
 E-Z LATCHES are easily accessible from the ground and are located on sides of left and right corner posts to promote operator safety, center latches are not acceptable. Latch system is permanently connected to the body, so that tailgate pins cannot be stolen or lost. Latch system does not have an internal linkage that would require the removal of panels to repair or replace.
 The lower tailgate latch release handle is located at the left front corner of the body for quick access
 Tailgate top pins are 1.25” and bottom pins are 1.00” diameter
 Shall include ¼” proof coil chain and banjo eye slotted holders in corner posts to allow the tailgate to lay flush with the floor and for spreading applications.

Lights/Wiring:

All lamps/reflectors exceed FMVSS 108 requirements.
 Lamps shall be LED flush mounted in shock resistant rubber grommets to maximize bulb life.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
STEEL DUMP BODY SPECIFICATION: (CONT'D)		
Lights and Wiring: (Cont'd)		
Each rear corner post shall include a rear facing auxiliary stop/turn lamp LED for improved visibility and operator’s safety.	<input type="checkbox"/>	<input type="checkbox"/>
Color-coded wire harnesses are provided to minimize installation time and simplify diagnosis.	<input type="checkbox"/>	<input type="checkbox"/>
Body up light in cab.	<input type="checkbox"/>	<input type="checkbox"/>
Cabshield:		
Fabricated from 10 ga. steel, slotted viewing window. Design to be ½ cabshield and non-tapered.	<input type="checkbox"/>	<input type="checkbox"/>
Hoist: SR4020		
Rugby's SR series line of subframe scissor hoists are designed to reduce installation time and make hoist application easier. Built with an incorporated body prop and tabletop rear hinge, subframes are available to accommodate 60" CA and 84" CA chassis.	<input type="checkbox"/>	<input type="checkbox"/>
NTEA rated and classified class 40: ISO Certified.	<input type="checkbox"/>	<input type="checkbox"/>
The hoist shall be an NTEA approved scissor design. Approx weight: 650 #	<input type="checkbox"/>	<input type="checkbox"/>
Hoist shall be fabricated of high strength steel.	<input type="checkbox"/>	<input type="checkbox"/>
Single Cylinder	<input type="checkbox"/>	<input type="checkbox"/>
Bore 5.5”	<input type="checkbox"/>	<input type="checkbox"/>
Stroke 20”	<input type="checkbox"/>	<input type="checkbox"/>
Mounting Height 10.5”	<input type="checkbox"/>	<input type="checkbox"/>
CA./CT 60” – 108”	<input type="checkbox"/>	<input type="checkbox"/>
Capacity Range 9.6 – 13.3 Tons	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulically operated run off the chassis PTO	<input type="checkbox"/>	<input type="checkbox"/>
ACCESSORIES		
Sleeve adapter Part # HCZ-19H282-A, or equal	<input type="checkbox"/>	<input type="checkbox"/>
Manual pull tarp system with mesh tarp	<input type="checkbox"/>	<input type="checkbox"/>
Pintle plate ¾” thick with:		
• Class V receiver hitch		
• Pollak 7 pole RV style harness and twist and lock plug		
• (Harness Part #11-998, or equal/7-Way Plug Part # 11-916P, or equal)		
• 102 dB Preco backup alarm		
• 3-ball receiver tube 1 7/8”, 2”, 2 5/16” locking hitch pin		
• 6-ton receiver mount pintle & 2” ball combination hitch	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ACCESSORIES (Cont'd)		
Two (2) pull out ladders mounted behind the cab. Grab handle mounted to work in conjunction with ladders	<input type="checkbox"/>	<input type="checkbox"/>
Stone shields and mud flaps	<input type="checkbox"/>	<input type="checkbox"/>
LED strobe system: <ul style="list-style-type: none"> • Six (6) oval strobe lights to be mounted in cab shield • Four (4) facing forward • One (1) on each side of cab shield • Two (2) facing rear in rear corner posts 	<input type="checkbox"/>	<input type="checkbox"/>
6” high oak boards covered in aluminum diamond plate	<input type="checkbox"/>	<input type="checkbox"/>
LED spreader light	<input type="checkbox"/>	<input type="checkbox"/>
Spreader chain kit	<input type="checkbox"/>	<input type="checkbox"/>
DOT safety kit, first aid kit, 10 lb. fire extinguisher with bracket and safety triangles	<input type="checkbox"/>	<input type="checkbox"/>
Conspicuity enhancement: <ul style="list-style-type: none"> • 2” red and white diamond grade reflective striping • 6” red and yellow inverted V in face of tailgate 	<input type="checkbox"/>	<input type="checkbox"/>
<u>OPTIONS</u>		
1A. <u>Upgrade chassis to Super Cab chassis, retaining 60” Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
1B. <u>Upgrade chassis to Crew Cab chassis, retaining 60” Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
1C. <u>Upgrade to Regular Cab chassis with 84” Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
1D. <u>Upgrade to Super Cab chassis with 84” Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
1E. <u>Upgrade to Crew Cab chassis with 84” Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
1F. <u>Fold Down Sides on Standard Dump Body</u>	<input type="checkbox"/>	<input type="checkbox"/>
1G. <u>Stainless Steel Body Upgrade Dimensions</u>		
Eliminator by DeJana fixed side steel dump body, as specified or equal	<input type="checkbox"/>	<input type="checkbox"/>
Material: stainless steel, specifically ASTM A240 type 201 stainless steel having a minimum yield strength of 52,900 psi.	<input type="checkbox"/>	<input type="checkbox"/>
201 Stainless Steel Dump Body	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1G. Stainless Steel Body Upgrade Dimensions (Cont'd)</u>		
Length: 9'	<input type="checkbox"/>	<input type="checkbox"/>
Width: 96"	<input type="checkbox"/>	<input type="checkbox"/>
Inner Side Height: 17" High		
Inner Tailgate Height: 23" High		
Rated Capacity: 3.3 Cubic Yards with 10" Side Extensions		
 Floor and Understructure		
Floor shall be fabricated from a single sheet of 3/16" AR400 (175,000 PSI Tensile Strength) and is of a crossmemberless design	<input type="checkbox"/>	<input type="checkbox"/>
Floor sheet is formed with angle down at the outside edge on both sides to prevent material from hanging up when fold down sides are open. Rear edge of floor sheet is reinforced to prohibit deflection and maintain a positive long lasting tailgate seal.	<input type="checkbox"/>	<input type="checkbox"/>
Rear apron shall be 8" high, full width design and made with 10 gauge steel	<input type="checkbox"/>	<input type="checkbox"/>
Rear apron to include 3 FMVSS 108 compliant clearance lamps mounted in shock resistant rubber grommets	<input type="checkbox"/>	<input type="checkbox"/>
 Body Front & Side		
Front shall be fabricated from 12 gauge 201 stainless steel. Front to be seamless one piece design with triple bend top rails for long term durability.	<input type="checkbox"/>	<input type="checkbox"/>
Working height of front shall be 24" above floor, which matches rear tailgate. Full height front corner posts shall include clearance lights at each corner to comply with FMVSS 108 safety standards.	<input type="checkbox"/>	<input type="checkbox"/>
Sides include two 6" wide vertical braces per side, with continuous weldment to side and top and bottom rail for additional strength. Full depth rear corner posts to be 11.6" wide and 5" deep with hardware concealed.	<input type="checkbox"/>	<input type="checkbox"/>
Sides are equipped with front and rear 6" board pockets with retaining holes, board pockets are designed for 2" nominal lumber.	<input type="checkbox"/>	<input type="checkbox"/>
 Tailgate		
Shall be fabricated from 12-gauge stainless steel with fully boxes dirt shedding top and bottom rails and in and incorporates 2 vertical braces	<input type="checkbox"/>	<input type="checkbox"/>
Tailgate shall be recessed flush with rear edge of corner post	<input type="checkbox"/>	<input type="checkbox"/>
Tailgate shall be of double acting design incorporating Rugby's patented EZ Latch system with cam action	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

1G. Stainless Steel Body Upgrade Dimensions (Cont'd)

Tailgate (Cont'd)

EZ Latches shall be easily accessible from the ground and shall be located on sides of left and right corner posts

Lower tailgate latch release handle is located at the left front corner of the body

Tailgate top pins are 1.25" and bottom pins are 1.00" diameter

Shall include ¼" proof coil chain and banjo eye slotted holders in corner posts to allow the tailgate to lay flush with the floor

Lights/Wiring

All lamps/reflectors excess FMVSS 108 Requirements

Lamps shall be LED flush mounted in shock resistant rubber grommets

Ear rear corner post shall include a rear facing auxiliary stop/turn lamp LED

Color-coded wire harnesses shall be provided

Body up light in cab

Cabshield

Fabricated from 12 gauge 201 stainless steel, slotted viewing window. Design to be ½ cabshield and non tapered.

1H. Stainless Steel Fold Down Sides for Stainless Steel Body Option

1I. Body Paint Option for Stainless Steel Body Upgrade

Body finish color shall match cab color, base coat and clear coat.

1J. Central Hydraulic System Hydraulic Pump

Hydraulic pump and PTO shall be a Chelsea 210 series.

The pump shall be a gear pump that is direct mounted to a hotshift PTO for a live transmission with gasoline engine

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (CONT'D)</u>		
<u>1J. Central Hydraulic System Hydraulic Pump (Cont'd)</u>		
The pump shall have a flow rate of 10.6 GPM at 1200 engine RPM The pump shall have a 3/4" 11T splined drive shaft	<input type="checkbox"/>	<input type="checkbox"/>
The suction hose to the pump shall be a minimum of 1 1/4" I.D. SAE 100-R4 hose	<input type="checkbox"/>	<input type="checkbox"/>
The PTO shall be a Parker/Chelsea 210 series and have a ratio of 144%	<input type="checkbox"/>	<input type="checkbox"/>
Heat shield to protect PTO wiring	<input type="checkbox"/>	<input type="checkbox"/>
The PTO shall be engaged/disengaged from the cab by a dash mounted 12VDC on/off switch	<input type="checkbox"/>	<input type="checkbox"/>
In power over speed protection required	<input type="checkbox"/>	<input type="checkbox"/>
<u>Modular Manifold Central Hydraulic System</u>		
The central hydraulic valve system shall be a mobile design to withstand exposure to deicing chemicals and severe weather conditions with a 5-year warranty on all hydraulic components	<input type="checkbox"/>	<input type="checkbox"/>
The central hydraulic valve system shall be specifically designed for low volume hydraulic pump output	<input type="checkbox"/>	<input type="checkbox"/>
All implements will function simultaneously	<input type="checkbox"/>	<input type="checkbox"/>
The modular manifold must be constructed of 6061 anodized aluminum material	<input type="checkbox"/>	<input type="checkbox"/>
The modular manifold shall be adjustable to a maximum pressure of 3,500 PSI with multiple flow and pressure performance and with function configuration	<input type="checkbox"/>	<input type="checkbox"/>
The modular manifold will consist of multiple sections bolted together for multiple function configurations	<input type="checkbox"/>	<input type="checkbox"/>
The entire hydraulic system shall be completely serviceable without removing from the enclosure or disassembling the sections	<input type="checkbox"/>	<input type="checkbox"/>
A one-piece manifold will not meet the intent of the specification for easy maintenance and service	<input type="checkbox"/>	<input type="checkbox"/>
The modular manifold must be capable of operating in either open center (fixed displacement) or closed center (variable displacement) hydraulic circuits	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1J. Central Hydraulic System Hydraulic Pump (Cont'd)</u>		
<u>Modular Manifold Central Hydraulic System (Cont'd)</u>		
All functions will be proportional controlled, pulse width modulated, and pressure and flow compensated with counter-balance	<input type="checkbox"/>	<input type="checkbox"/>
Each function will have load holding with no internal leak-down	<input type="checkbox"/>	<input type="checkbox"/>
Implements shall not drift down during vehicle travel	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty 12VDC coils must be protected with a corrosion resistant coating	<input type="checkbox"/>	<input type="checkbox"/>
All coils must be rated for a 1000-hour salt spray as standard	<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 modular manifold shall be designed for lower pump capacity hydraulic pumps (belt and gear)	<input type="checkbox"/>	<input type="checkbox"/>
Each section will have flow capacities from 3 to 20 GPM with load holding on all cylinder sections	<input type="checkbox"/>	<input type="checkbox"/>
All cylinder sections shall be load hold with A and B port relief as standard	<input type="checkbox"/>	<input type="checkbox"/>
The hoist section shall be 6 GPM, four way for a double acting cylinder and incorporate a 500 PSI relief and load hold	<input type="checkbox"/>	<input type="checkbox"/>
The spinner will be a 7 GPM motor spool cartridge and the auger/conveyor will be a 7 GPM motor spool cartridge	<input type="checkbox"/>	<input type="checkbox"/>
The spinner or auger will not stop or slow when other implements are actuated	<input type="checkbox"/>	<input type="checkbox"/>
Each function will be equipped with adjustable manual overrides protected by jacketed debris covers	<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"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1J. Central Hydraulic System Hydraulic Pump (Cont'd)

Granular Spreader and Single Stick Plow Controls

The spreader controls shall be capable of operating a granular spreader with auger/ conveyor, spinner and pre-wet (or anti-ice) output channels

Each function can be operated individually or all simultaneously

In-cab controller must be an automotive grade product (amusement/gaming type products are **NOT ACCEPTABLE**)

The liquid channel can operate an electric or hydraulic pre-wet system

Controller shall also have an optional dash mount, stand-alone, or console mounting options

Operator shall have the ability to adjust the speed of each function and the amount of granular material or liquid with the soft touch key pad

Printed PVC soft touch membrane switch interface shall be tested to 5 million impressions for long life and durability

Touch pad to control granular feed rate/spinner speed

All set-up and programming shall be completed using the controller soft key pad with no programming keyboard

Controller shall have the ability to connect the feed rate and spinner function for single stroke simultaneous start up

Controller must offer a “Spot Blast” feature. Spot Blast will activate the blast with a single keystroke when the controller is paused

Adjustable valve unseat mode must be a standard feature

Spinner increase during Blast shall be an adjustable option

Spreader control shall be capable of operating each function in open loop mode

With a single switch setting, spreader shall be field configurable to operate either:

- Ground Speed Oriented
OR
- No Ground Speed (simple manual operation)

Controller shall also offer programmable Blast Features that will function during Ground Speed Triggered Operation

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

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

OPTIONS (Cont'd)

1J. Central Hydraulic System Hydraulic Pump (Cont'd)

Granular Spreader and Single Stick Plow Controls (Cont'd)

Controller must include integrated protection and diagnostic systems with safety features incorporated into the system

PowerSafe Wiring Design: For safety reasons, grounding or cutting any wire at any point between any valve coil and the controller must not cause any valve to actuate

One lead from each hydraulic valve coil must be wired to a common ground point

System shall be capable of self-diagnosis using the pause indicator LED light

System must supply pulsed +12 volt power to the other lead from each individual valve coil

All connections inside the hydraulic valve/electronic control junction box must be IP 68 rated

All connectors shall be rated as “6x” – dust proof

All connectors shall be rated as “x8” – protected against the effects of permanent submersion in water as well as showing no corrosion after 500 hours in a 35°C salt spray

System operating temperature range -4 to +104°F (-20° to +40°C)

All connections shall be labeled with appropriate descriptions for each connection to individual solenoids of the hydraulic actuating cylinders

Cirus EZ1 Controller shall have a five (5) year warranty

Certified Cirrus Lamprey Plow/Hoist Controller

In-cab control system shall have one (1) fully proportional multi-function joystick

Joystick shall be Hall Effect (magnetic) with no magnetic contacts (amusement/gaming joysticks are **NOT ACCEPTABLE**)

Hoist joystick console shall mount to the center seat in the down position with Two (2) adjustable rods that slide into the head rest mounting holes

Dash mounted momentary hoist switch shall be available when seat mounted controls are removed

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1J. Central Hydraulic System Hydraulic Pump (Cont'd)</u>		
<u>Certified Cirrus Lamprey Plow/Hoist Controller (Cont'd)</u>		
Dump body hoist shall be controlled by a single joystick	<input type="checkbox"/>	<input type="checkbox"/>
Hoist control lever must have a safety trigger protection for the hoist function	<input type="checkbox"/>	<input type="checkbox"/>
Control lever will include a programmable plow float function (free-floating system requires a single acting valve)	<input type="checkbox"/>	<input type="checkbox"/>
Operator shall have the ability to set the rate of speed for each direction of motion on a PC for all hydraulic devices controlled by the joystick without modification to the hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>
Controller shall include integrated protection and diagnosis systems with safety features incorporated into the system	<input type="checkbox"/>	<input type="checkbox"/>
Channel Safe: protects the system and helps diagnose external shorted or open circuits	<input type="checkbox"/>	<input type="checkbox"/>
SafeStik that shuts down the output channels if a joystick fails	<input type="checkbox"/>	<input type="checkbox"/>
PowerSafe Wiring Design: For safety reasons, grounding or cutting any wire at any point between any valve coil and the controller must not cause any valve to actuate	<input type="checkbox"/>	<input type="checkbox"/>
One (1) lead from each hydraulic valve coil must be wired to a common ground point	<input type="checkbox"/>	<input type="checkbox"/>
System must supply pulsed +12 volt power to the other lead from each individual valve coil	<input type="checkbox"/>	<input type="checkbox"/>
All connections at the hydraulic control junction box must be IP 68 rated	<input type="checkbox"/>	<input type="checkbox"/>
Outside the cab harness will be IP 68 rated up to the valve coil connection	<input type="checkbox"/>	<input type="checkbox"/>
All connectors shall be rated as “6x” – dust proof	<input type="checkbox"/>	<input type="checkbox"/>
All connectors shall be rated as “x8” – protected against the effects of permanent	<input type="checkbox"/>	<input type="checkbox"/>
Submersion in water as well as showing no corrosion after 500 hours in a 35°C salt spray	<input type="checkbox"/>	<input type="checkbox"/>
System operation temperature range -4 to +104°F (-20° to +40°C)	<input type="checkbox"/>	<input type="checkbox"/>
All connections shall be labeled with appropriate descriptions for each connection to individual solenoids of the hydraulic actuating cylinders	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1J. Central Hydraulic System Hydraulic Pump (Cont'd)</u>		
<u>Certified Cirrus Lamprey Plow/Hoist Controller (Cont'd)</u>		
Installing vendor must be authorized to perform warranty repairs and periodic maintenance on Cirrus products	<input type="checkbox"/>	<input type="checkbox"/>
<u>Stainless Steel Reservoir/Valve Enclosure</u>		
Valve sections and manifold shall be mounted in a 304 stainless steel combination reservoir and enclosure	<input type="checkbox"/>	<input type="checkbox"/>
Overall width of the combo shall not exceed 27.66 inches	<input type="checkbox"/>	<input type="checkbox"/>
Enclosure shall be constructed in such a manner that any required maintenance or repair of the valves can be accomplished without obstruction	<input type="checkbox"/>	<input type="checkbox"/>
Valve mount plate shall slide forward for work port access	<input type="checkbox"/>	<input type="checkbox"/>
Enclosure shall be mounted with a minimum of 1" frame clearance on each side of the combo	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir shall have a 14 gallon capacity	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir/Valve Enclosure shall be designed to mount on either side of vehicle chassis	<input type="checkbox"/>	<input type="checkbox"/>
Enclosure must have hydraulic hose hangers to route and protect hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir/Tank shall be constructed from 10 gauge 304 stainless steel with 0.25 inch steel bracing with 14 gauge cover	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir filler cap must be angled for easy fill	<input type="checkbox"/>	<input type="checkbox"/>
Two rubber latches shall secure the enclosure lid and the lid must be removable without tools by one person	<input type="checkbox"/>	<input type="checkbox"/>
The rubber latches shall be replaceable with a removable pin	<input type="checkbox"/>	<input type="checkbox"/>
Tank return line shall be mounted internally with case drain and level sensor ports available on both sides of tank	<input type="checkbox"/>	<input type="checkbox"/>
Tank shall have a basket type breather cap and 3/4" magnetic drain plug	<input type="checkbox"/>	<input type="checkbox"/>
Suction line shall be 1 1/4" strainer NPT with 1 1/4" full flow brass ball valve	<input type="checkbox"/>	<input type="checkbox"/>
Suction line shall also have a 100 mesh stainless steel strainer	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1J. Central Hydraulic System Hydraulic Pump (Cont'd)

Stainless Steel Reservoir/Valve Enclosure (Cont'd)

Return line must be a minimum of 1 ¼” NPT with 10 micron filter and 25 psi bypass with gauge

Hoses and Fittings

Suction line between reservoir and pump shall be minimum of 1 ½” ID with a minimum SAE 100-R4 rating and shall be secured on both ends via heavy duty banding straps (radiator hose clamps are **NOT ACCEPTABLE**)

Hydraulic lines and plumbing shall be of sufficient capacity so as not to create heat or turbulence within hydraulic system

Pressure hoses, including signal sense to pump, shall have swivel fittings on both ends and have a minimum SAE 100-R2 rating

Return lines and case drain shall have a minimum SAE 100-R1 rating

Hydraulic lines shall be routed to minimize interference with equipment and chassis components requiring periodic servicing

Support brackets, grommets, and tie wraps shall be provided where appropriate to protect lines from damage by abrasions, cutting or impact

Quick disconnects shall be stainless steel

Hoses shall not be routed near exhaust manifold pipes, bolts, sharp edges and exhaust system to prevent wear, fatigue or fire

Pipe fittings are not acceptable in any high-pressure line

Maximum distance between support clamps on all hydraulic lines shall be 24 inches All hoses must be encased in high temperature fiberglass rubber sleeve by high heat areas or high wear areas, **NO EXCEPTIONS**

1K. Stainless Steel UTG Spreader General

6” auger under-tailgate spreader shall be of the bottom-opening design, with a safety shut off feature built into the hydraulic system

Mounting shall allow the dumping of materials without interference from the spreader

Maximum spreader width shall be 96”

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1K. Stainless Steel UTG Spreader General (Cont'd)

Mounting

Unit shall mount to the sides and below the floor level of the dump box with single-pin, quick-detachable hardware

Mounting and removing shall be done without the use of any special tools

Safety Shut Off

Spreader shall incorporate a hydraulic safety shut-off feature that disables the hydraulic functions of the spreader

Safety Shut-off feature shall prevent opening the bottom door or opening the top cover beyond a vertical position when the hydraulics are engaged

Feed Mechanism

6" heavy-duty auger shall consist of 3/8" flighting with 4" pitch which is welded to a 2 3/8" O.D. Schedule 40 pipe

Auger shall have continuous and reverse flighting for more uniform emptying and shall be supported by 1 1/4" steel shaft ends

Auger shaft shall be supported on one end in sealed, self-aligning, precision single- row radial bearings with grease fittings and on the other end by the drive mechanism

Auger shall be powered with a 22.6 cubic inch displacement hydraulic motor capable of delivering high torque at low speeds mounted to the end plate and directly coupled to the auger by a non-corrosive UHMW polyethylene sleeve and a 1/2" Grade 5 bolt

Discharge port shall be located 24" from the left end

Stainless Steel Hopper

Rigid one-piece end plates of 7 gauge stainless steel shall be continuously welded to an auger trough of 7 gauge stainless steel

Unit shall have a three-point hinged bottom pan that will expose the entire auger for easy clean out

Bottom Pan shall be fabricated of 7 gauge stainless steel and held in place with two (2) heavy-duty cam locks with a lifting handle near each lock for ease of use

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1K. Stainless Steel UTG Spreader General (Cont'd)</u>		
<u>Stainless Steel Hopper (Cont'd)</u>		
Anti-spill cover over each discharge opening shall be of 7 gauge stainless steel and shall be removable without the use of tools	<input type="checkbox"/>	<input type="checkbox"/>
Lid shall be of 7 gauge stainless steel and shall be an integral part of the unit that may be raised when spreading or lowered when dumping	<input type="checkbox"/>	<input type="checkbox"/>
Lid shall be locked in position by two (2) latches that are replaceable	<input type="checkbox"/>	<input type="checkbox"/>
Minimum inside width of the trough shall 10 7/8"	<input type="checkbox"/>	<input type="checkbox"/>
<u>Poly Spinner Disc</u>		
Shall consist of a single 18" diameter polymer disc with six (6) formed polymer fins, to provide a flat trajectory and uniform spreading pattern from 4 to 40 feet	<input type="checkbox"/>	<input type="checkbox"/>
Assembly shall be adjustable, allowing for variable spreading patterns left, center, or right by sliding the hinged frame sideways on the shaft so that the point at which the material hits the spinner disc is varied	<input type="checkbox"/>	<input type="checkbox"/>
Assembly shall be adjustable in height, providing four (4) different ground clearance settings by means of four (4) bolts	<input type="checkbox"/>	<input type="checkbox"/>
Assembly shall be easily removed by pulling two pins and uncoupling two (2) hydraulic quick-disconnect hoses	<input type="checkbox"/>	<input type="checkbox"/>
Speed rate shall be variable through optional valve systems	<input type="checkbox"/>	<input type="checkbox"/>
Shall be mounted directly onto the hydraulic motor shaft by means of a steel spinner hub	<input type="checkbox"/>	<input type="checkbox"/>
Motor shall be 2.8 cubic inches with nickel plated shaft for enhanced corrosion		
Resistance and improved seal life	<input type="checkbox"/>	<input type="checkbox"/>
Assembly shall remain horizontal to the road at all dump box angles	<input type="checkbox"/>	<input type="checkbox"/>
Shield shall be provided to prevent material from striking the truck	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1K. Stainless Steel UTG Spreader General (Cont'd)</u>		
Finish		
All carbon steel components shall be painted black	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel components shall be left in their natural finish	<input type="checkbox"/>	<input type="checkbox"/>
Spill Shields		
Shall be made of steel and mounted to tailgate to stop any salt from spilling over the sides or the rear of the body	<input type="checkbox"/>	<input type="checkbox"/>
Dump Accessibility		
NO hydraulic hoses or trough handles shall be above the surface of the spreader	<input type="checkbox"/>	<input type="checkbox"/>
Clean dumping surface must be provided	<input type="checkbox"/>	<input type="checkbox"/>
<u>1L. Dump-Through Liftgate</u>		
Anthony Liftgates Model #AR-DT 1800, or equal, dump-through liftgate	<input type="checkbox"/>	<input type="checkbox"/>
Durable roller chain drive	<input type="checkbox"/>	<input type="checkbox"/>
Marine duty potted toggle switch Pressure compensated flow valve	<input type="checkbox"/>	<input type="checkbox"/>
Circuit protection	<input type="checkbox"/>	<input type="checkbox"/>
Level ride platform 3-step powder coat	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) year mechanical and Two (2) year electrical and hydraulic parts and labor warranty	<input type="checkbox"/>	<input type="checkbox"/>
90" platform width Cab cut off switch	<input type="checkbox"/>	<input type="checkbox"/>
<u>1M. I-Pack Tool Box</u>		
Knapheide I-Pack Tool Box mounted between cab and dump body	<input type="checkbox"/>	<input type="checkbox"/>
Painted to match cab color, base coat and clear coat	<input type="checkbox"/>	<input type="checkbox"/>
Requires chassis to have an 84" Cab to Axle measurement	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel continuous hinges, no exception	<input type="checkbox"/>	<input type="checkbox"/>
14 gauge Galvaneal shell, E-coat primer, and latches with ABS pans for superior corrosion resistance	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1N. ProTech Aluminum I-Pack with Stainless Steel Doors PN # 20-2737</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>1O. 30" Under Body Tool Box</u>		
For use with chassis with 60" CA	<input type="checkbox"/>	<input type="checkbox"/>
Weatherguard Tread Plate Aluminum 631-0-02	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions: 30 1/8" x 18" x 18"; 5.4 cubic feet	<input type="checkbox"/>	<input type="checkbox"/>
Door opening: 13 1/2" H X 25 1/4" W Stainless steel D-handles	<input type="checkbox"/>	<input type="checkbox"/>
<u>1P. Stainless Steel V-Box General</u>		
<u>(NOTE: This option requires the Central Hydraulic System)</u>	<input type="checkbox"/>	<input type="checkbox"/>
This specification describes a self-contained hopper spreader designed to spread free-flowing material up to 40 feet. Spreader consists of a steel hopper and spinner assembly, pintle-chain conveyor system, a choice of hydraulic or engine drive power systems and all components required to deliver maximum performance	<input type="checkbox"/>	<input type="checkbox"/>
Hopper		
Shall be 9 ft, 44 in, and 70 in inside width	<input type="checkbox"/>	<input type="checkbox"/>
Hopper sides shall slope at a 45° angle	<input type="checkbox"/>	<input type="checkbox"/>
Capacity of the unit shall be 4.0 cubic yards struck	<input type="checkbox"/>	<input type="checkbox"/>
Hopper sides and longitudinals shall be formed of one piece and shall all be of 12 gauge 201 stainless steel continuously welded on the inside of the hopper (Welding on the outside is NOT ACCEPTABLE)	<input type="checkbox"/>	<input type="checkbox"/>
Each hopper side shall be supported by three (3) full slope body side supports on each side	<input type="checkbox"/>	<input type="checkbox"/>
12-gauge 201 stainless steel front and rear panels	<input type="checkbox"/>	<input type="checkbox"/>
Top edge shall be double crimped for additional support	<input type="checkbox"/>	<input type="checkbox"/>
Adjustable feed gate with a maximum opening of 4 1/2" x 9" shall be able to be clamped to allow for a positive gate setting	<input type="checkbox"/>	<input type="checkbox"/>
A heavy duty lift shall be supplied in each corner of the hopper	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1P. Stainless Steel V-Box General (Cont'd)</u>		
Conveyor		
Shall be of the chain barflight type Conveyor section of body shall be 16" wide	<input type="checkbox"/>	<input type="checkbox"/>
Pintle-type chain with a tensile strength of 12,500 lbs Cross bars to be ¼" x 1" welded on 4 5/8" centers	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor to be driven by a 20:1 ratio cast-bronze worm gear	<input type="checkbox"/>	<input type="checkbox"/>
Drive sprockets shall be drop-forged, six-tooth keyed to the minimum 1 ¼"	<input type="checkbox"/>	<input type="checkbox"/>
C1045 steel alloy drive shaft	<input type="checkbox"/>	<input type="checkbox"/>
Idler shaft shall be 1"	<input type="checkbox"/>	<input type="checkbox"/>
Schedule 40 pipe, and shall be equipped with poly idler "sprockets"	<input type="checkbox"/>	<input type="checkbox"/>
Chain adjustment shall be accomplished with two (2) threaded block and rod assemblies	<input type="checkbox"/>	<input type="checkbox"/>
Floor shall be 12-gauge 201 stainless steel of flange-type construction	<input type="checkbox"/>	<input type="checkbox"/>
Spinner Assembly		
Polyurethane spinner disc shall be 13" in diameter	<input type="checkbox"/>	<input type="checkbox"/>
Four (4) formed fins that will give a uniform trajectory from 4 to 40 feet	<input type="checkbox"/>	<input type="checkbox"/>
Shall have two (2) adjustable 201 stainless steel internal baffles	<input type="checkbox"/>	<input type="checkbox"/>
Four (4) 201 stainless steel external overlapping baffles to control the direction and width of the spread	<input type="checkbox"/>	<input type="checkbox"/>
All spinner baffles shall be adjustable without the use of tools	<input type="checkbox"/>	<input type="checkbox"/>
Inverted V		
A 12-gauge 201 stainless steel protective inverted-V shall be installed above the conveyor to reduce load pressure and prevent material bridging	<input type="checkbox"/>	<input type="checkbox"/>
Top Screens		
Two section center hinged top screen shall be provided to protect the conveyor chain and spinner from large objects	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1P. Stainless Steel V-Box General (Cont'd)</u>		
Top Screens (Cont'd)		
Screen sections shall be made of 5/16” rods, with square opening of 2 ½”, and framed by flat bars, and angle iron steel	<input type="checkbox"/>	<input type="checkbox"/>
Paint		
All mild steel components shall be painted black	<input type="checkbox"/>	<input type="checkbox"/>
Spinner Assembly Motor		
Shall be powered by an additional hydraulic motor, providing independent control over each motor	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulics		
Unit will be run off of the Central Hydraulic System which will have a key pad control to operate the speed of the conveyor and spinner	<input type="checkbox"/>	<input type="checkbox"/>
Unit will run off of the live drive transmission. NO belt systems	<input type="checkbox"/>	<input type="checkbox"/>
<u>1Q. Spreader Leg Stand Kit PN #3037295</u>		
Accommodates 10’ spreaders	<input type="checkbox"/>	<input type="checkbox"/>
<u>1R. Air Compressor, 70 CFM</u>		
VMAC VR70 Underhood Rotary Screw Compressor 70 CFM, 175 PSI	<input type="checkbox"/>	<input type="checkbox"/>
3 gallon receiver tank Control panel Throttle control	<input type="checkbox"/>	<input type="checkbox"/>
Filter/Regulator/Lubricator	<input type="checkbox"/>	<input type="checkbox"/>
Relief/Shut-Off valves with all required fittings Hose Reel: 50’ of ½” I.D. air line	<input type="checkbox"/>	<input type="checkbox"/>
<u>1S. Air Compressor, 150 CFM</u>		
VMAC VR150 Underhood Rotary Screw Compressor 150 CFM, 175 PSI		
3 gallon receiver tank	<input type="checkbox"/>	<input type="checkbox"/>
Control panel Throttle control	<input type="checkbox"/>	<input type="checkbox"/>
Filter/Regulator/Lubricator	<input type="checkbox"/>	<input type="checkbox"/>
Relief/Shut-Off valves with all required fittings	<input type="checkbox"/>	<input type="checkbox"/>
Hose Reel: 50’ of ½” I.D. air line	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1T. Go-Lights, Model 30264</u>		
Go Light Stryker Work Lights (Up to two (2) per vehicle)	<input type="checkbox"/>	<input type="checkbox"/>
Permanently mounted on brackets on I-Pack tool box (<i>I-Pack tool box Option MUST be selected</i>)	<input type="checkbox"/>	<input type="checkbox"/>
6000 maximum lumens	<input type="checkbox"/>	<input type="checkbox"/>
5 amp draw	<input type="checkbox"/>	<input type="checkbox"/>
9-32 VDC input	<input type="checkbox"/>	<input type="checkbox"/>
<u>1U. 9' Readily Detachable Western Snow Plow System</u>		
<u>Blade Assembly</u>		
Moldboard – 12 gauge (0.104") steel sheet formed to a 17.3" radius with a 1.76" diameter top curl	<input type="checkbox"/>	<input type="checkbox"/>
Ribs – Eight (8), 0.25" thick, variable profile, electrically welded to sheet, torsion tube and 0.25" thick, high strength steel base channel	<input type="checkbox"/>	<input type="checkbox"/>
Torsion Tube – 2" diameter, full width, electrically welded to all eight ribs	<input type="checkbox"/>	<input type="checkbox"/>
Cutting Edge – Reversible 0.5" x 6" high carbon steel C1080 attached with ten (10) 0.63" Grade 5 carriage bolts	<input type="checkbox"/>	<input type="checkbox"/>
Disc Shoes – Two (2), full rotation, height adjustable, Austempered Ductile Iron shoes with integral 1" diameter shaft secured to blade with lynch pins.	<input type="checkbox"/>	<input type="checkbox"/>
Shoe brackets shall be welded to vertical ribs	<input type="checkbox"/>	<input type="checkbox"/>
Blade Trip – 50° full blade trip	<input type="checkbox"/>	<input type="checkbox"/>
<u>Blade Assembly</u>		
Trip Springs – Four (4), 2.38" OD x 0.39" diameter, C1060, hard drawn, stress relieved wire, preloaded, with 0.63" x 4" eyebolts	<input type="checkbox"/>	<input type="checkbox"/>
Shock Absorbers – Two (2), 5" stroke, shielded shock absorbers to retard extension velocity and dampen blade trip return	<input type="checkbox"/>	<input type="checkbox"/>
Blade Trip Pivot – Three (3) 0.75" diameter steel pins	<input type="checkbox"/>	<input type="checkbox"/>
Blade Guides – Two (2) highly visible, vinyl coated, spring wound, with replaceable flags	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1U. 9' Readily Detachable Western Snow Plow System (Cont'd)</u>		
<u>Blade Assembly (Cont'd)</u>		
Plow Angling – 30° right and left	<input type="checkbox"/>	<input type="checkbox"/>
<u>A-Frame</u>		
Electrically welded, reinforced, 3" x 3" x 0.19" wall structural steel side tubes with 0.50" thick, formed nose plate, and integral attachments for angling rams to receive 1" diameter pins	<input type="checkbox"/>	<input type="checkbox"/>
Lift Chains – Two (2), 0.25" Grade 43 high test steel with 2,600 lb. working load limit, attached with 0.38" U-bolts	<input type="checkbox"/>	<input type="checkbox"/>
<u>Quadrant</u>		
Electrically welded, reinforced, 5" OD x 0.25" wall structural steel tube with 0.50" thick nose plates and integral attachments for angling rams to receive 1" diameter pins	<input type="checkbox"/>	<input type="checkbox"/>
A-Frame to Quadrant Angle Pivot – 1" diameter Grade 5 bolt	<input type="checkbox"/>	<input type="checkbox"/>
<u>Lift Frame</u>		
Lift frame to have provision for attachment of out front hydraulics and light kit	<input type="checkbox"/>	<input type="checkbox"/>
Lift Arm – 0.25" x 2" formed bar welded with a 7 gauge steel cover	<input type="checkbox"/>	<input type="checkbox"/>
Two Plow Stands – Self-storing and adjustable integrated into the plow attachment mechanism. Connecting hook and lever with integral 0.50" lock pin	<input type="checkbox"/>	<input type="checkbox"/>
Lift Frame – Two piece lift frame with tubular construction.	<input type="checkbox"/>	<input type="checkbox"/>
Lower lift frame to include drive in plow alignment horns	<input type="checkbox"/>	<input type="checkbox"/>
<u>Mount</u>		
Custom designed, electrically welded, structural steel mounting readily adaptable to truck frame.	<input type="checkbox"/>	<input type="checkbox"/>
Attached to truck with Grade 5 fasteners	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle, with mount attached, shall meet Federal Motor Vehicle Safety Standards by compliance or by vehicle manufacturing approval	<input type="checkbox"/>	<input type="checkbox"/>
Removable receiver brackets for additional ground clearance	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1U. 9' Readily Detachable Western Snow Plow System (Cont'd)

Paint

Plow blade shall be made of shot blasted steel and cleaned with phosphate solutions and have baked-on red polyester powder coating

Hydraulics

Electric solenoid activated and detachable with lift

Front mounted hydraulic unit consisting of a fixed displacement gear pump, with 1750 PSI system relief, direct tang driven by a 4 1/2" 12 volt DC motor

Pump with filter screen shall be immersed in a steel deep drawn reservoir

Main valve manifold shall contain three (3) side mounted and covered solenoid cartridge valves

Cushion relief valves set at 4,000 PSI and a quill adjustment screw to adjust blade drop speed

One (1) 1 1/2" x 8" lift ram and two (2) 1 1/2" x 12" angling rams each with a rod seal, a wiper ring and a packing nut

Hydraulic hoses shall be 1/4" steel braided SAE 100R1

Hydraulic unit shall be controlled by a soft touch, hand held in-cab control

Control shall be equipped with an on/off, mode buttons and indicator lights

Control shall be dash mounted

Control shall provide a single button movement of angle right or left (hydraulically locked)

In-cab control shall be connected to valve manifold and to the motor through an auxiliary 12-volt multiplexed harness. Power and control harness to have quick disconnects and covers at the grill

Control shall allow plow to be in float when lowered

Unit shall be a "low side" drive system, which provides positive potential continuously with a switched ground to control the solenoids

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>1U. 9' Readily Detachable Western Snow Plow System (Cont'd)</u>		
<u>Hydraulics (Cont'd)</u>		
Unit shall possess programmable security lockout feature	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall possess programmable hydraulic soft stop feature	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall possess programmable one touch float feature	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic fluid shall be MIL5606 equivalent standard transmission fluid (ATF) or aircraft hydraulic oil for low-temperature operation	<input type="checkbox"/>	<input type="checkbox"/>
Cycle times: Lift, 2.0 seconds; Angle, 1.5 seconds	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic unit shall stay with plow when plow is disconnected from truck	<input type="checkbox"/>	<input type="checkbox"/>
<u>Lights</u>		
Night Hawk LED Head Lamps	<input type="checkbox"/>	<input type="checkbox"/>
<u>Headlights</u>		
Comprised entirely of light emitting diodes using solid optic elements for low beam and high beam lights	<input type="checkbox"/>	<input type="checkbox"/>
A reflected LED light for the side lighting using EdgeView Technology	<input type="checkbox"/>	<input type="checkbox"/>
DRL/Park lights using white lights behind a frosted filter, turn signal utilizing amber lights behind the same frosted filter	<input type="checkbox"/>	<input type="checkbox"/>
<u>Plow Removal</u>		
Blade assembly, A-Frame, Quadrant, Lift Frame with hydraulic unit, shall be easily removed as one complete unit	<input type="checkbox"/>	<input type="checkbox"/>
<u>Accessories with Plow</u>		
Snow deflector	<input type="checkbox"/>	<input type="checkbox"/>
Curb guard right and left	<input type="checkbox"/>	<input type="checkbox"/>
Cab command Hand Held Control/Joystick (Shall be specified at time of order)	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1V. Poly Electric Spreader Dimensions

- Outside Hopper 103” L
- Outside Hopper 63” W
- Overall Spreader 117” L
- Overall Spreader 51” H
- Capacity shall be 2.5 cubic yards
- Empty Weight 734 lbs

Poly Hopper Construction

Shall be constructed of rotationally molded ¼” thick double walled polyethylene shell, 46° sloped sides with six (6) molded side support ribs

Molded rear “feet” for ease of removal, cleaning and storage

Shall include standard 2-piece hinged, double-walled, overlapping domed hard plastic covers that double as spill guards

Conveyor Drive Bed

Shall be 100% constructed of 10 gauge 201 stainless steel with a 16 ¾” wide pintle chain conveyor system

Dual Motor Drive

One motor shall be a sealed ½ HP – 12VDC capacity with an 11-tooth drive sprocket powering a #40 roller chain to gearbox which allows for independent pintle chain speed control

Separate 1/3 HP motor dedicated to power a belt driven spinner shall allow for independent spinner speed control

Gear Box

Gearbox shall be 20:1 reduction and driven by #40 heavy-duty drive chain with a 55-tooth drive sprocket

Chute Assembly

Dual wall poly chute assembly shall be a two (2) position adjustable design to accommodate dump body applications

Assembly shall include a 1/3 HP motor dedicated to power a belt driven spinner

Assembly is designed for one piece, no tools, removal for quick detach and Storage

Spinner disk shall be polyurethane, 15.5” in diameter, with four (4) flutes

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>IV. Poly Electric Spreader Dimensions (Cont'd)</u>		
<u>Chute Assembly (Cont'd)</u>		
Spread Width shall be approximately 2' to 40'	<input type="checkbox"/>	<input type="checkbox"/>
Shall include a wide fixed stainless deflector to protect truck bumper and under parts from the material being spread	<input type="checkbox"/>	<input type="checkbox"/>
An alternate license plate location shall be molded into the poly chute housing	<input type="checkbox"/>	<input type="checkbox"/>
<u>Feed Gate</u>		
Shall have a stainless steel lever/handle, spring loaded, with positive detent calibration, for accurate adjustment	<input type="checkbox"/>	<input type="checkbox"/>
<u>Cab Control and Wiring System</u>		
Shall be fused to protect wiring, and have a blast feature for spot spreading and include self-diagnostic troubleshooting flash codes via LED's on control panel as well as audible indicators	<input type="checkbox"/>	<input type="checkbox"/>
Control shall have dual controls to independently control the conveyor and spinner speeds	<input type="checkbox"/>	<input type="checkbox"/>
<u>Harnesses</u>		
Shall have multiplexed electrical system with no high current power cables routed into vehicle cab	<input type="checkbox"/>	<input type="checkbox"/>
Shall have two-piece harness with molded style connectors and covers routed to disconnect at the rear of the truck	<input type="checkbox"/>	<input type="checkbox"/>
CHMSL (Center High Mounted Stop Light) is provided as standard, and an accessory wire for optional work light shall also be included as standard	<input type="checkbox"/>	<input type="checkbox"/>
<u>Standard Features</u>		
Shall include heavy-duty top screen constructed from 1/4" diameter rod	<input type="checkbox"/>	<input type="checkbox"/>
Tent style top screens shall be angled at 15°	<input type="checkbox"/>	<input type="checkbox"/>
Hopper body shall have four (4) molded-in-poly tie-down loops	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1W. Special Paint Colors Not On the Standard Color Chart

1X. Diagnostic Tools / Test Equipment

1. Successful bidder shall be required to supply between one (1) and three (3) complete sets of OEM 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

1Y. 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 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1Z. 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:

- #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.

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.

□ □

1AA. Technical Support

Technical Support is to be provided by factory authorized technical representatives and shall 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:

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

□ □

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 shall be allowed only with consent of Vehicle Services. Total training hours shall be provided and no additional compensation will be considered. Actual time to be spent on each area will be by mutual agreement of the Vehicle Services Department and the successful bidder

□ □

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH STEEL DUMP BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1AA. Technical Support (Cont'd)

Technical Support for Vehicle Services may be provided at the following fleet maintenance facility locations 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

Successful bidder shall provide Technical Support sessions for other Departments which will be held at an Ocean County location specified by the requesting Department

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 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS		
Current Model Year, or newer Ford F550 Regular Cab with 9 Foot Utility Body	<input type="checkbox"/>	<input type="checkbox"/>
Dual Rear Wheels	<input type="checkbox"/>	<input type="checkbox"/>
Four Wheel Drive	<input type="checkbox"/>	<input type="checkbox"/>
60” Cab to Axle (CA)	<input type="checkbox"/>	<input type="checkbox"/>
7.3L V8 gasoline engine	<input type="checkbox"/>	<input type="checkbox"/>
40 gallon fuel tank	<input type="checkbox"/>	<input type="checkbox"/>
TorqShift transmission with PTO option	<input type="checkbox"/>	<input type="checkbox"/>
19,000 lb. GVWR	<input type="checkbox"/>	<input type="checkbox"/>
Cab shall be military grade aluminum alloy for longevity to the County in lieu of carbon steel	<input type="checkbox"/>	<input type="checkbox"/>
Frame shall be fully boxed under cab and “C” channel behind cab for easy mounting of body	<input type="checkbox"/>	<input type="checkbox"/>
Oil life monitor, engine hour and engine idle hour meters	<input type="checkbox"/>	<input type="checkbox"/>
Air Conditioning	<input type="checkbox"/>	<input type="checkbox"/>
Airbags, frontal driver & passenger, side impact and side air curtains	<input type="checkbox"/>	<input type="checkbox"/>
TowCommand integrated trailer brake controller, manual telescoping trailer tow mirrors	<input type="checkbox"/>	<input type="checkbox"/>
7 wire trailer wiring harness (no plug)	<input type="checkbox"/>	<input type="checkbox"/>
AM/FM radio; SYNC Enhanced voice recognition communication and entertainment, 911 Assist, AppLink 4-2” LCD Center Screen, One (1) Smart charging USB Port SYNC	<input type="checkbox"/>	<input type="checkbox"/>
Power windows, locks, mirrors, and heated mirrors	<input type="checkbox"/>	<input type="checkbox"/>
Center High Mount Stop Lamp	<input type="checkbox"/>	<input type="checkbox"/>
240 amp HD alternator, 12V 750 CCA battery	<input type="checkbox"/>	<input type="checkbox"/>
Tilt and telescoping steering wheel	<input type="checkbox"/>	<input type="checkbox"/>
4.88 ratio limited slip axle	<input type="checkbox"/>	<input type="checkbox"/>
4 wheel power ABS brakes, front and rear disc, power steering, front and rear stabilizer bars	<input type="checkbox"/>	<input type="checkbox"/>
Quad-beam jewel-effect halogen headlamps, five (5) roof marker lights	<input type="checkbox"/>	<input type="checkbox"/>
LT225/70R19.5G BSW Traction tires – six (6)	<input type="checkbox"/>	<input type="checkbox"/>
One (1) full sized spare tire mounted to wheel and one (1) jack	<input type="checkbox"/>	<input type="checkbox"/>
Chrome front bumper, front tow hooks	<input type="checkbox"/>	<input type="checkbox"/>
Power Sliding Rear glass with defrost – sc/cc only	<input type="checkbox"/>	<input type="checkbox"/>
Remote Start	<input type="checkbox"/>	<input type="checkbox"/>
Halogen Fog Lamps	<input type="checkbox"/>	<input type="checkbox"/>
40/20/40 split vinyl bench seat with center arm rest	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary power point, six (6) upfitter switches located overhead center Tachometer, speedometer, oil pressure, transmission temp, engine temp, and fuel gauge	<input type="checkbox"/>	<input type="checkbox"/>
Interval windshield wipers	<input type="checkbox"/>	<input type="checkbox"/>
Driver & passenger grab handles	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS (Cont'd)		
Standard XL Rear view camera and prep kit	<input type="checkbox"/>	<input type="checkbox"/>
3-year/36,000 mile bumper-to-bumper warranty on OE components	<input type="checkbox"/>	<input type="checkbox"/>
5-year/60,000 mile powertrain warranty	<input type="checkbox"/>	<input type="checkbox"/>
Shift on the fly	<input type="checkbox"/>	<input type="checkbox"/>
Cab steps, molded black (running boards)	<input type="checkbox"/>	<input type="checkbox"/>
Snow plow prep package	<input type="checkbox"/>	<input type="checkbox"/>
Single color to be selected from standard color chart at time of order	<input type="checkbox"/>	<input type="checkbox"/>
Undercoating – entire truck chassis, underside of cab and underside of added body (dump, utility, platform) shall be coated with Tectyl 2423 Haps Free Black, or Z Guard Product, a low VOC, High Solids, Emulsion Corrosion preventing coating	<input type="checkbox"/>	<input type="checkbox"/>
UTILITY BODY SPECIFICATIONS		
Body Shell		
Shall be constructed of 14 gauge two-sided A40 Galvanneal steel	<input type="checkbox"/>	<input type="checkbox"/>
The compartment tops and backs shall be a one-piece seamless design	<input type="checkbox"/>	<input type="checkbox"/>
All door, door openings, drip rails, and other exposed steel edges shall be hemmed for strength, safety, and resistance to corrosion	<input type="checkbox"/>	<input type="checkbox"/>
Floor		
The floor plate shall be constructed of a minimum of 12 gauge treadplate with a 1 3/8” return flange on each side	<input type="checkbox"/>	<input type="checkbox"/>
The side compartment back panel should overlap and interlock with the floor flange, providing support for the weight of the side compartment.	<input type="checkbox"/>	<input type="checkbox"/>
Understructure		
Cross sills shall be constructed from 11 gauge steel with 50,000 PSI minimum yield strength.	<input type="checkbox"/>	<input type="checkbox"/>
Tailgate		
Shall be constructed of 14 gauge two-sided A40 Galvanneal steel.	<input type="checkbox"/>	<input type="checkbox"/>
The tailgate shall be a minimum of 12” high and be a slammable style.	<input type="checkbox"/>	<input type="checkbox"/>
In the open position, the tailgate shall be level with the cargo floor.	<input type="checkbox"/>	<input type="checkbox"/>
The tailgate shall not have any cables, chains, or bars to support it in the open position so it can be used as a work surface for objects wider than the tailgate.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
UTILITY BODY SPECIFICATIONS (Cont'd)		
Doors		
Shall be constructed of 20 gauge two-sided A40 Galvanneal steel.	<input type="checkbox"/>	<input type="checkbox"/>
Shall be double paneled with Expanded Foam Block reinforcements.	<input type="checkbox"/>	<input type="checkbox"/>
Hinges		
Corrosion resistant all stainless steel continuous hinges shall be installed to provide full length support for the doors and pry-proof security with a built-in weather shield.	<input type="checkbox"/>	<input type="checkbox"/>
They shall be spot welded to the door frames and must be supported with a six year warranty, no exceptions.	<input type="checkbox"/>	<input type="checkbox"/>
Rotary Latches		
Nylon Housing Zinc Die Cast Chrome Finish, corrosion resistant rotary latches shall be secured to the door panels by three threaded studs attached to the back of the latch.	<input type="checkbox"/>	<input type="checkbox"/>
The latch must also have an internal cover to protect it from the contents of the compartment.	<input type="checkbox"/>	<input type="checkbox"/>
Rotary latches shall be slam-latchable.	<input type="checkbox"/>	<input type="checkbox"/>
The latching cam shall be elongated to allow the latch to move vertically relative to the lockstrike to prevent torsional damage.	<input type="checkbox"/>	<input type="checkbox"/>
A microcellular urethane foam gasket shall be installed between the latch flange and the outer door skin to prevent moisture from entering the compartment behind the latch.	<input type="checkbox"/>	<input type="checkbox"/>
Door Strikers		
Adjustable strikers shall be affixed to the door frames with screws (welded-on door strikers are not acceptable).	<input type="checkbox"/>	<input type="checkbox"/>
Door Seals		
Automotive “bulb type” neoprene door seals shall be installed by the manufacturer of the body on all door frames (aftermarket not acceptable).	<input type="checkbox"/>	<input type="checkbox"/>
Door Retainers		
Double springs over center door retainers shall be installed on all vertical doors.	<input type="checkbox"/>	<input type="checkbox"/>
Door retainers must hold doors in positive open or closed position (other types of retainers, like cables or chains, are not acceptable on vertical doors).	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
UTILITY BODY SPECIFICATIONS (Cont'd)		
Door Retainers (Cont'd)		
Horizontal doors shall be secured in an open position parallel to the ground by heavy duty chain retainers.	<input type="checkbox"/>	<input type="checkbox"/>
The chain retainers must be easily removable so that the door can be opened to a full 180° to be able to access the compartment in tight areas.	<input type="checkbox"/>	<input type="checkbox"/>
Shelving		
Shelves shall be constructed of 18 gauge bright spangled galvanized steel.	<input type="checkbox"/>	<input type="checkbox"/>
All shelves shall have hemmed dividers on 4” centers:		
• 2 shelves 1st verticals		
• 1 shelf horizontal curbside		
• 2 shelves rear verticals	<input type="checkbox"/>	<input type="checkbox"/>
Shelves must have a minimum capacity rating of 250 lbs., no exceptions.	<input type="checkbox"/>	<input type="checkbox"/>
Interior Paint		
Shall be a mid-gloss, mar resistant, light gray finish.	<input type="checkbox"/>	<input type="checkbox"/>
Undercoating		
The body shall be completely undercoated by the body manufacturer using a water based acrylic.	<input type="checkbox"/>	<input type="checkbox"/>
Exterior Prime Paint		
The body shall be completely immersed in electrodeposition gray epoxy prime paint featuring a zinc phosphate precoat and seal for additional corrosion protection.	<input type="checkbox"/>	<input type="checkbox"/>
Prime paint shall be oven cured to provide a hard, durable finish.	<input type="checkbox"/>	<input type="checkbox"/>
Final finish color shall match cab color, base coat clear coat.	<input type="checkbox"/>	<input type="checkbox"/>
Installation		
The manufacturer of the body shall supply a recommended installation process along with detailed installation instructions that conform to all applicable FMVSS standards.	<input type="checkbox"/>	<input type="checkbox"/>
Rear body to chassis mounting brackets must incorporate bumper support as well as provide FMVSS 301 protection. Furthermore, the manufacturer of the body shall supply an owner manual describing the proper care and maintenance of the body to the County.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

UTILITY BODY SPECIFICATIONS (Cont'd)

Warranty

The following items shall be covered by a 6-year limited warranty, **no exceptions**:

- Continuous Door Hinges (Guaranteed not to fail to operate or come off) □ □
- Latches and Lock Cylinders (Unconditional guarantee against failure)
- Shelves (Guaranteed not to fail in bending under a maximum 250 lb. rated load)
- Body shall have a no rust-through guarantee for six (6) years □ □

Lighting

Lighting shall meet all FMVSS standards. □ □

The wiring harness shall be encased in a plastic loom and all wires shall be colored for ease of troubleshooting. □ □

The wire harness must have connectors that make it compatible to the specified chassis without splicing. □ □

The stop/tail/turn/reverse built into the lights with amber strobes □ □

The stop/tail/turn and backup lights, with strobes built into lights, shall be installed on the rear of the body □ □

All Clearance, Marker, and RID lighting shall be LED type lighting. □ □

Incandescent Lighting in any of these areas is **NOT ACCEPTABLE** □ □

Compartment lighting must be LED. with one (1) horizontal and one (1) vertical light in each compartment fit to size □ □

All interior wiring must be retained by a mechanical fastening system (adhesive backs are not acceptable). □ □

Light guards shall be installed by the body manufacturer to provide protection for recessed stop/tail/turn and back up lights. □ □

The wiring harness must be protected too. □ □

Miscellaneous

Sleeve Adapter HC3Z-19H282-A □ □

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

UTILITY BODY SPECIFICATIONS (Cont'd)

Miscellaneous

Recessed Galva Grip Bumper:

- Class V Receiver Hitch
- Pollak 7 pole RV style harness twist and lock plug (Harness 11-998, Plug 11-916P)
- Back up alarm 102 Db
- 3-ball receiver tube 1 7/8", 2", 2 5/16" locking hitch pin
- 6 ton receiver mount Pintle & 2" ball combination hitch Master Lock with Key coded locks to match ignition key

□ □

Pre-build meeting at vendor's facility to see how work will be completed.

□ □

Whelen Amber LED lights:

- Body upfitter must provide installation of lights so they work in conjunction with the equipment on the truck.
- Four (4) Micron Series Super LED in grille
- Two (2) on body sides, one (1) each side
- Four (4) rear of body - micron series Safety Back Rack

□ □

BASF DTE Liner AXALTA Coating Cargo Area and top of compartments

□ □

DOT safety kit, first aid kit, 10 lb. fire extinguisher with bracket and safety triangles

□ □

Conspicuity enhancement:

- 2" red and white diamond grade reflective striping on face of bumper
- 6" red and yellow inverted V on rear of body compartment face

□ □

OPTIONS

2A. Upgrade chassis to Super Cab chassis, retaining 60" Cab to Axle

□ □

2B. Upgrade chassis to Crew Cab chassis, retaining 60" Cab to Axle

□ □

2C. Upgrade to Regular Cab chassis with 84" Cab to Axle

□ □

2D. Upgrade to Super Cab chassis with 84" Cab to Axle

□ □

2E. Upgrade to Crew Cab chassis with 84" Cab to Axle

□ □

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2F. 9' Aluminum Utility Body Upgrade Body Shell</u>		
Shall be constructed of 0.09" Aluminum.	<input type="checkbox"/>	<input type="checkbox"/>
The compartment tops and backs shall half-box structure with continuously formed corners	<input type="checkbox"/>	<input type="checkbox"/>
Compartment bottom over the wheel to be constructed of 0.125" Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Body Shell shall be supported by structural 6061 T6 Aluminum extrusions for durability	<input type="checkbox"/>	<input type="checkbox"/>
All door, door openings, drip rails, and other exposed steel edges shall be hemmed for strength, safety, and resistance to corrosion	<input type="checkbox"/>	<input type="checkbox"/>
Floor		
The floor plate shall be constructed of interlocking, extruded 6061 T6 Aluminum Planks with locking aluminum end rails and aluminum side rails with a 1 3/8" return flange on each side	<input type="checkbox"/>	<input type="checkbox"/>
The side compartment back panel should overlap and interlock with the floor flange, providing support for the weight of the side compartment	<input type="checkbox"/>	<input type="checkbox"/>
Understructure		
Support shall be constructed entirely of extruded 6061 T6 Aluminum Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Tailgate		
Shall be constructed of 0.09" Aluminum multi-panel	<input type="checkbox"/>	<input type="checkbox"/>
The tailgate shall be a minimum of 12" high and be a slammable style	<input type="checkbox"/>	<input type="checkbox"/>
In the open position, the tailgate shall be level with the cargo floor	<input type="checkbox"/>	<input type="checkbox"/>
The tailgate shall not have any cables, chains, or bars to support it in the open position so it can be used as a work surface for objects wider than the tailgate	<input type="checkbox"/>	<input type="checkbox"/>
Doors		
Shall be box structure, doubled paneled and constructed of 0.08" Aluminum with outer panel corners formed continuously	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2F. 9' Aluminum Utility Body Upgrade (Cont'd)

Hinges

Corrosion resistant, all stainless steel, continuous hinges shall be installed to provide full length support for the doors, and pry-proof security with built-in weather shield

Shall be applied with structural adhesive and rivets to the door frames and shall be supported with a ten (10) year warranty

Rotary Latches

Injection molded glass and mineral unfused UV Resistant Nylon Housing, Zinc Die Cast, Chrome Finished latch

Corrosion resistant rotary latches shall be secured to the door panels by four (4) threaded studs attached to the back of each latch

The latch must also have an internal cover to protect it from the contents of the compartment

Rotary latches shall be slam-latchable

The latching cam shall be elongated to allow the latch to move vertically, relative to the lock strikes to prevent torsional damage

A microcellular urethane foam gasket shall be installed between the latch flange and the outer door skin to prevent moisture from entering the compartment behind the latch

Lock cylinders are to be flush mounted for additional security

Door Strikers

Adjustable strikers shall be affixed to the door frames with screws (welded-on door strikers are **NOT ACCEPTABLE**)

Door Seals

Automotive “bulb type” neoprene door seals shall be installed by the manufacturer of the body on all door frames (aftermarket **NOT ACCEPTABLE**)

Door Retainers

Nitrogen gas strut door retainers shall be install on all vertical doors

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2F. 9' Aluminum Utility Body Upgrade (Cont'd)

Door Retainers (Cont'd)

Door retainers shall hold doors in positive open or closed position (other types of retainers, like cables or chains, are **NOT ACCEPTABLE** on vertical doors)

Horizontal doors shall be secured in an open position parallel to the ground by heavy duty chain retainers

Chain retainers shall be removable so that the door can be opened to at least 150° to be able to access the compartment in tight areas

Shelving

Shelves shall be constructed of 0.06" Aluminum

Two (2) adjustable divider shelves and dividers, street and curb side front vertical compartment

One (1) adjustable divider shelf and dividers, street and curb side full height rear vertical compartment

One (1) adjustable divider shelf and dividers, curb side horizontal compartment

Automotive style, rotary latches and gas spring door retainers on all vertical doors

All shelves shall have molded, infinitely adjustable sliding dividers

Shelves must have a minimum capacity rating of 250 lbs., **no exceptions**

Exterior Prime Paint

Epoxy prime paint with a minimum of 1.2 mm coat

Prime paint shall be oven cured to provide a hard, durable finish

Final finish color shall match cab color, base coat clear coat

Interior Paint

Shall be a mid-gloss, mar resistant, light gray finish

Undercoating

The body shall be completely undercoated by the body manufacturer using a water based acrylic

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2F. 9' Aluminum Utility Body Upgrade (Cont'd)

Installation

The manufacturer of the body shall supply a recommended installation process along with detailed installation instructions that conform to all applicable Federal Motor Vehicle Safety Standards

Rear body-to-chassis mounting brackets shall incorporate bumper support as well as provide FMVSS 301 protection

Manufacturer of the body shall supply an owner's manual describing the proper care and maintenance of the body to the County

Warranty

The following items shall be covered by a ten (10) year limited warranty:

- Continuous Door Hinges (Guaranteed not to fail to operate or come off)
- Latches and Lock Cylinders (Unconditional guarantee against failure)
- Shelves (Guaranteed not to fail in bending under a maximum 250 lb. rated load)
- Body shall have a No-Rust-Through guarantee for ten (10) years

Lighting

Lighting shall meet all FMVSS standards

The wiring harness shall be encased in a plastic loom and all wires shall be colored for ease of troubleshooting

The wiring harness shall have connectors that make it compatible to the specified chassis without splicing

Rear lighting system to feature surface mount stop/tail/turn backup lights, with LED strobe. Having eight (8) selectable patterns and built in reflectivity for additional safety

All clearance, marker, and RID. Lighting shall be LED type (incandescent lighting in any of these areas is **NOT ACCEPTABLE**)

LED Compartment lighting each compartment to have one (1) full length vertical and horizontal light to illuminate full compartment.

All interior wiring must be retained by a mechanical fastening system (adhesive backs are **NOT ACCEPTABLE**)

Light guards shall be installed by the body manufacturer to provide protection for recessed stop/tail/turn and back up lights

Protection for the wiring harness shall be installed Safety Back Rack

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2F. 9' Aluminum Utility Body Upgrade (Cont'd)

Miscellaneous

Recessed Galva Grip Bumper:

- Class V Receiver Hitch
- Pollak 7 pole RV style harness twist and lock plug
- (Harness Part #11-998, or equal/7-Way Plug Part #11-916P, or equal)
- Back up alarm 102 Db
- 3-ball receiver tube 1 7/8", 2", 2 5/16" lock in style
- 6 ton receiver mount Pintle & 2" ball combination hitch
- Master Lock with Key Coded Locks to match ignition key

Pre-build meeting at vendor's facility to see how work will be completed

DOT safety kit, first aid kit, 10 lb. fire extinguisher with bracket and safety triangles

Conspicuity enhancement:

- 2" red and white diamond grade reflective striping on face of bumper
- 6" red and yellow inverted V on rear of body compartment face

2G. 11 Foot Body Upgrade

11' Body upgrade – requires a chassis with an 84" CA measurement

132" L x 94" W Compartment Configuration:

- First Vertical 35 1/4" L x 40" H
- Second Vertical 21" L x 40" H
- Horizontal 44 3/4" L x 18 1/2" H
- Rear Vertical 27 1/2" L x 40" H – reinforced compartment and clips for shelves for heavy duty application

Shelving Configuration:

- Two (2) shelves first Vertical each side
- Two (2) shelves second Vertical each side
- One (1) shelf horizontal curbside
- Two (2) shelves Rear vertical each side

2H. Maxon Liftgate

C2-54-1642-TP38 55" x 38" +4

Aluminum 2 piece extruded plat form 1600 pound capacity

For use with utility bodies with openings of 54-61"

2I. Flip Top Compartment both Street and Curbside for 9 Foot Utility Body

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2J. Flip Top Compartment both Street and Curbside for 11 Foot Utility Body

2K. Raised Front Curbside Compartment for Both 9 Foot and 11 Foot Utility Bodies (bottle gas retainer not included):

- Front Vertical Compartment 60” H Raised with Masterlock
- Rivet-less rotary latches
- Gas spring door retainers
- Code-able Padlock to match Ignition Key

2L. Bottle Retainer Compartment

Bottle Retainer Compartment with Masterlock:

- 60” H x 35 ¼” W x 20” D
- Two (2) hooks for cords
- Bottle holder
- Victor Journeyman 450 Heavy Duty Outfit – 540/300 SR Regulators - Torch Set
- Code-able Padlock to match Ignition Key

2M. High Compartment Body, 9 Foot Utility Body

Compartment Configuration 9’ Utility:

- First Vertical 35 ¼” L x 60” H
- Horizontal 44 ¾” L x 38 ½” H – will have barn doors with 3 point latches
- Rear Vertical 27 ½” L x 60” H – reinforced compartment and clips for shelves for heavy duty application

Shelving Configuration:

- Four (4) shelves first Vertical Street side
- Bottle Retainer compartment first vertical curbside – Two (2) hooks for cords, bottle holder, Journeyman 450 Heavy Duty Outfit torch set
- One (1) shelf horizontal curbside
- Three (3) shelves Rear vertical each side

Bottle Retainer Compartment with the high side utility:

- 60” H x 35 ¼” W x 20” D
- Two (2) hooks for cords
- Bottle holder
- Victor Journeyman 450 Heavy Duty Outfit – 540/300 SR Regulators- Torch Set
- This option selected with the high utility *will eliminate the shelves*

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2R. C-Tech Drawer Unit for 60" High Utility Body

Drawer Unit to be installed in Street side first vertical:

- Drawers shall be rated for 250 lbs
- 28" x 17.5"
- .08", 5052 aluminum alloy construction
- 40" Compartment Height Configuration
- Two (2) 7" Deep Drawers
- Three (3) 5" Deep Drawers
- Four (4) 3" Deep Drawers

2S. Venco Venturo 4,000 LB. Electric Crane

(NOTE: Not Available with Aluminum Body)

12VDC Electric Crane – Venco Venturo Model ET16KX

- Range 16,000 ft./lb. – 4,000 lbs. @ 4.0' – 900 lbs. @ 16'
- Boom Extension – Power 8'-12' – Manual 12'-16'
- Continuous power rotation & Power boom elevation
- 25' plug in Remote Control Pendant
- Anti-Two Blocking

Auxiliary Vented Battery:

- Includes fuses
- Smart Isolator & On/Off Switch
- Wireless FM Remote Control with On-Board Diagnostics System and Receiver

Adjustable Boom Rest

Knapheide Corner Mount Crane Kit

- Right rear LEAF Spring upgrade for Crane Application

Venturo Outriggers:

- Electric Hydraulic Outriggers

2T. Custom Rear Work Bumper

- 24" deep with recessed vise mount housing
- Step with grab handle
- Includes Outrigger housing tubes
- BASF Spray liner on top

2U. Telescopic Sliding Roof – 9' Body (High Sides)

2V. Telescopic Sliding Roof – 11' Body (High Sides)

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2W. Ladder Rack</u>		
<i>(NOTE: This option shall be used with non-flip-top utility bodies)</i>	<input type="checkbox"/>	<input type="checkbox"/>
System One Ladder Rack:		
<ul style="list-style-type: none"> • Constructed of high-strength aluminum alloy with stainless steel hardware • A 78” utility track provides a rigid mounting surface for the ladder rack • The utility track attaches to the top surface of the utility body using concealed bolts and also serves as a structural anchor rail for tie-downs • Set of four (4) work winches with straps and handles, which plug into the racks in just minutes • Winches are constructed from aluminum alloy and stainless steel and have PVC bearings for rust-free durability 	<input type="checkbox"/>	<input type="checkbox"/>
<u>2X. E-Track Down Each Side of Body – 2” from Top of Compartments</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>2Y. Four (4) 2’ X 12” Ratchet Straps</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>2Z. BASF Spray Liner on Floor of Compartments</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>2AA. Whelen LED Liberty II Wecan X 54” Light Bar</u>		
Light Bar LED Liberty II Wecan X 54””, all modules filled with amber LED		
<ul style="list-style-type: none"> • Rear traffic advisor with flashing capabilities • Alley lights and takedowns are to be white • Twelve (12) scan lock flash patterns • Controller • Brackets for mounting on Safety Back Rack 	<input type="checkbox"/>	<input type="checkbox"/>
<u>2BB. Light Color Option for Liberty II Wecan X 54” Light Bar</u>		
Light Color Option:		
<ul style="list-style-type: none"> • Red and Blue – single color modules in lieu of amber for Sheriff’s Department, keeping the amber rear arrow stick; module placement shall be provided at time of order 	<input type="checkbox"/>	<input type="checkbox"/>
<u>2CC. Emergency Lighting Split Red Blue Body Lights</u>		
3 ½” Super LED clear lens with 3 ½” Super LED Surface Mount clear lens with red and blue lights shall be installed		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Whelen LED Lights: Emergency Light Package		
<ul style="list-style-type: none"> • Body Upfitter must provide installation of lights so they work in conjunction with the equipment on the truck: • Four (4) Micron Series Super LED in grill – split color • Two (2) on body sides, One (1) each side split color • Four (4) rear of body to work with chosen equipment – split color 	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2DD. Trailblazer 302 Air Pak

- Model 907549003, or equal
- Battery Charge/Crank Assist with 25' Battery charge/jump cable Part #300422
- Independent Weld and Generator
- Industrial Rotary Screw Air Compressor
- Air Cooler Separator Part
- RTI Filter Part
- Desiccant Air Dryer Part
- Wireless Remote Hand Control Part
- Protective Cover

2EE. Winch

Full Grille Guard issue must be 2023, or newer

12,000 lbs. Single Line

Motor: Series Wound, 12V DC, 24V DC

Electrical Controls: Contractor

Remote Control: Remote Switch, 12' lead

Geartrain: 3-stage planetary

Gear ration: 216:1

Clutch (free spooling): Rotating ring gear

Brake: Automatic mechanical cone

Drum Diameter/Length: 3.15"/9.0"

Rope: 3/8" x 80' steel

12V DC Performance Specs:

Line Pull – Lbs.	Line Speed - Ft.	Motor Current	Pull by Layer/Lbs.
0	28.1	66 amps	1/12000
2000	14.2	141 amps	2/9894
4000	9.3	209 amps	3/8117
6000	7.8	272 amps	4/7324
8000	6.4	335 amps	
10000	4.3	401 amps	
12000	3.3	469 amps	

Winch Dimensions:

Integrated configuration: 24.25" L x 7.15" D x 10.52" H

Low-Profile configuration: 24.25" L x 7.15" D x 7.84" H

Mounting Bolt Pattern:

10" x 4.5"

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2EE. Winch (Cont'd)</u>		
Winch Mount Grille Guard/ Head Lamp Guard Kit, As Specified or Equal		
Weight: 148 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions: 89" x 37" x 38"	<input type="checkbox"/>	<input type="checkbox"/>
16,500 lb. straight line pull	<input type="checkbox"/>	<input type="checkbox"/>
14 gauge 1.5" steel tube	<input type="checkbox"/>	<input type="checkbox"/>
Center Crossbars: 1.5" diameter tubing	<input type="checkbox"/>	<input type="checkbox"/>
Removable headlight area cross bars	<input type="checkbox"/>	<input type="checkbox"/>
Double hood bar design	<input type="checkbox"/>	<input type="checkbox"/>
Powder coated black	<input type="checkbox"/>	<input type="checkbox"/>
Warranty:		
Material and Workmanship: Lifetime of winch	<input type="checkbox"/>	<input type="checkbox"/>
Electric Components: 7 years	<input type="checkbox"/>	<input type="checkbox"/>
Winch Mount Grille Guard: 3-year warranty	<input type="checkbox"/>	<input type="checkbox"/>
Fairlead: Roller	<input type="checkbox"/>	<input type="checkbox"/>
Recommended battery: 650 CCA minimum for winching	<input type="checkbox"/>	<input type="checkbox"/>
Battery Leads: 2 gauge, 72"	<input type="checkbox"/>	<input type="checkbox"/>
<u>2FF. Air Compressor, 150 CFM</u>		
VMAC VR150 Underhood Rotary Screw Compressor	<input type="checkbox"/>	<input type="checkbox"/>
150 CFM, 175 PSI	<input type="checkbox"/>	<input type="checkbox"/>
3 gallon receiver tank Control panel	<input type="checkbox"/>	<input type="checkbox"/>
Throttle control	<input type="checkbox"/>	<input type="checkbox"/>
Filter/Regulator/Lubricator	<input type="checkbox"/>	<input type="checkbox"/>
Relief/Shut-Off valves with all required fittings	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2FF. Air Compressor, 150 CFM (Cont'd)</u>		
Hose Reel: 50' of 1/2" I.D. air line	<input type="checkbox"/>	<input type="checkbox"/>
<u>2GG. Pioneer Flood Light Head – Model PFH2P1, or Equal</u>		
General Specifications:		
168 Watt +12VDC light head shall incorporate a Super-LED dual flood light installed in die-cast white powder coated aluminum housing.	<input type="checkbox"/>	<input type="checkbox"/>
Configuration shall consist of 60 white Super-LEDs with a clear optic collimator/metallized reflector assembly and a clear non-optic polycarbonate lens.	<input type="checkbox"/>	<input type="checkbox"/>
The flood light shall be installed with a pole/pedestal adaptor with a 1 1/8" adjustable sleeve, junction box, a toggle switch with weatherproof boot and a large anodized aluminum alloy ergonomic knob at the knuckle.	<input type="checkbox"/>	<input type="checkbox"/>
Shall be installed with a black fiberglass enforced polycarbonate handle.	<input type="checkbox"/>	<input type="checkbox"/>
Flood light shall have 16,000 usable lumens.	<input type="checkbox"/>	<input type="checkbox"/>
The lens/reflector assembly shall utilize a liquid injected molded silicone gasket to be resistant to water, moisture, dust and other environmental conditions.	<input type="checkbox"/>	<input type="checkbox"/>
The hard coated lens shall provide extended life/luster protection against UV and chemical stresses.	<input type="checkbox"/>	<input type="checkbox"/>
Shall be vibration resistant.	<input type="checkbox"/>	<input type="checkbox"/>
PC boards shall be conformal coated for protection	<input type="checkbox"/>	<input type="checkbox"/>
Two breathable membrane patches shall be installed to the bottom of the housing to maintain a consistent internal pressure.	<input type="checkbox"/>	<input type="checkbox"/>
Shall have extended LED operation with low current consumption and low operating temperature.	<input type="checkbox"/>	<input type="checkbox"/>
Furnished with a 6" non-terminated pigtail in the junction box	<input type="checkbox"/>	<input type="checkbox"/>
Shall have the ability to flash a secondary warning light in the "Clearing Right of Way" mode when installed with an external flasher.	<input type="checkbox"/>	<input type="checkbox"/>
Shall be SAE 1113-42 compliant and Class 5 testing for EMI	<input type="checkbox"/>	<input type="checkbox"/>
Voltage: +12v DC	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2GG. Pioneer Flood Light Head – Model PFH2P1, or Equal (Cont'd)</u>		
General Specifications: (Cont'd)		
Size: H=4.125", W=14", D=2.5"	<input type="checkbox"/>	<input type="checkbox"/>
Amp Draw: Spot light=13 amps	<input type="checkbox"/>	<input type="checkbox"/>
Lens Color: Clear	<input type="checkbox"/>	<input type="checkbox"/>
Warranty		
5-year warranty on light and electronic circuit boards	<input type="checkbox"/>	<input type="checkbox"/>
<u>2HH. Cast Iron Mechanic's Vise on Removable Plate with Receiver Type Hitch</u>		
Duty Rating: Standard Duty, Features Steel Channel and Jaws, Large Anvil Work Surface, Enclosed Screw Assembly, Powder Coated		
Base Type: Swivel – Swivel Angle	<input type="checkbox"/>	<input type="checkbox"/>
Jaw Width: 6"	<input type="checkbox"/>	<input type="checkbox"/>
Max. Opening: 5 3/4" Throat Depth: 4 1/8"		
Pipe Jaw Included: Yes	<input type="checkbox"/>	<input type="checkbox"/>
Pipe Capacity: 1/4" to 3 1/2" Material: Cast Iron	<input type="checkbox"/>	<input type="checkbox"/>
Jaw face: Serrated	<input type="checkbox"/>	<input type="checkbox"/>
Number of Lock Down Bolts: 2	<input type="checkbox"/>	<input type="checkbox"/>
Body Casting: 30,000 PSI Number of Mounting Points: 4 Mounting Hole Diameter: 1/2"	<input type="checkbox"/>	<input type="checkbox"/>
Overall Length: 17 3/4", Overall Height: 10 3/4", Overall Width: 11"	<input type="checkbox"/>	<input type="checkbox"/>
Lifetime Warranty against Manufacturer's defects	<input type="checkbox"/>	<input type="checkbox"/>
<u>2II. Husky 815-Piece Mechanic's Tool Set</u>		
Key Features:		
Alloy Steel Construction SAE and Metric Sizes	<input type="checkbox"/>	<input type="checkbox"/>
Item Weight: 178 lbs.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2II. Husky 815-Piece Mechanic's Tool Set (Cont'd)

Tool Set

- Husky Mechanic Tool Set (815 pieces) Part # H815MTS Includes:
 - 433 sockets
 - 230 accessories
 - 145 various wrenches (standard combination, stubby, ratcheting, stubby ratcheting, flex head ratcheting, reversible ratcheting and specialty)
 - 7 ratchets
 - 72-tooth quick release ratchet

“No Questions/No Receipts” Lifetime warranty

Impact Sockets

Dewalt – DWMT 19242 1/2” Drive metric deep impact socket set (26 pieces)

Dewalt – DWMT 19239 1/2” Drive SAE Deep impact socket set (19 pieces)

Limited Lifetime Warranty

Impact Wrench

- Milwaukee M18 Fuel 18 Volt Lithium Ion Brushless, Cordless 1/2” impact wrench with friction ring kit
- One (1) 5.0 Ah battery
- 5 Year Warranty/Tool
- 3 Year Warranty/Battery

2JJ. Truck Steel Air/Hydraulic Service Jack

- Material: Steel
- Lifting Capacity: 22 Tons
- Lifting Height Min: 8 1/2”
- Lifting Height Max: 17”
- Power Raise: 4 5/8”
- Chassis Length: 22”
- Operation Type: Air
- Retracted Length: 8 1/2”
- Handle Length” 47 3/8”
- Standards: ANSI, ASME and PALD 2009
- 1-year Limited Warranty

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2KK. 1700 Peak Amp 12 Volt Jump Starter

- 1700 Peak Amps
- 425 Cranking Amps
- PROFORMER Battery Technology
- 46 inch heavy-duty #2 AWG cables
- Voltmeter providing charge status of onboard battery
- DC outlet to power: 12 volt Item Weight: 18 lbs.
- Product Dimensions: 16.3” x 14.1” x 5.1”
- Voltage: 12 volts
- 1-year Limited Warranty

2LL. Booster Jump Set

Grey with 25’ Cables

1-year warranty: Free of defects in material and workmanship

2MM Vehicle Special Order Paint Colors Not On the Standard Color Chart

(i.e. Gem Green)

2NN. EnPak A30GBW

All-In-One with gasoline driven power capabilities, 12V DC

Integrated into the battery, chassis power monitors battery and automatically charges as needed

Auto-Speed Technology adjusts engine speed to match compressed air, battery charge, and weld demands

Auto Start/Stop turns the engine on and off based on demand, reducing fuel Consumption

CAN Bus Connectivity

Allows connection to telematics system to monitor engine date, machine loads and usage, also allows tracking of service intervals, schedule maintenance and improve diagnostics

23hp Kohler Gas Engine 2,400 rpm idle speed

2,400rpm – 3,600 rpm weld speed

Single phase, continuous power generator with 6,500

Watts; Peak power 8,000 Watts

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2NN. EnPak A30GBW (Cont'd)</u>		
<u>CAN Bus Connectivity</u>		
Idle sound rating of 66 dB and high speed sound rating of 73 dB	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions: 28" H X 20" W X 47" D; 15.2ft2 in length	<input type="checkbox"/>	<input type="checkbox"/>
<u>Remote Panels</u>		
Weld/battery output panel Main Control panel 120/240V outlet panel	<input type="checkbox"/>	<input type="checkbox"/>
<u>30 CFM Air Compressor</u>		
Rotary-screw air compressor	<input type="checkbox"/>	<input type="checkbox"/>
<u>Generator</u>		
6,500 Watt Electric Generator able to power 120V and 240V AC tools and lights	<input type="checkbox"/>	<input type="checkbox"/>
<u>Battery Charge/Crank Assist</u>		
Maximum of 100 amps of DC power for 12/24V battery charging	<input type="checkbox"/>	<input type="checkbox"/>
Maximum of 300 amps for crank assist	<input type="checkbox"/>	<input type="checkbox"/>
<u>Welding</u>		
210 amp inverter based welder with multi-process ability	<input type="checkbox"/>	<input type="checkbox"/>
<u>Accessories</u>		
25' Battery Charge/Jump Start Cables with plug	<input type="checkbox"/>	<input type="checkbox"/>
Air dryer kit	<input type="checkbox"/>	<input type="checkbox"/>
Pressure switch kit	<input type="checkbox"/>	<input type="checkbox"/>
Air Compressor Oil Heater	<input type="checkbox"/>	<input type="checkbox"/>
Cable with Electrode holder	<input type="checkbox"/>	<input type="checkbox"/>
Cable with work clamp	<input type="checkbox"/>	<input type="checkbox"/>
2/0 Weld Cable Extension 50'	<input type="checkbox"/>	<input type="checkbox"/>
Hose Reel with 50' of 1/2" I.D. Air Line	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>200. Inverter</u>		
AIMS Pure Sine 4000 Watt Inverter, placement to be decided at time of order		
<ul style="list-style-type: none"> • Peak Power 12,000 Watt surge rating • 12 Volt 	<input type="checkbox"/>	<input type="checkbox"/>
Installed with two (2) auxiliary batteries	<input type="checkbox"/>	<input type="checkbox"/>
Additional GFI outlet with weather proof protector located at end users placement	<input type="checkbox"/>	<input type="checkbox"/>
Isolation Solenoid		
<ul style="list-style-type: none"> • When truck is running it is charging auxiliary batteries and when truck is off it is only running off auxiliary batteries 	<input type="checkbox"/>	<input type="checkbox"/>
<u>2PP. Go-Lights, Model 3024</u>		
Go Light Stryker Work Lights (Up to two (2) per vehicle)		
Permanently mounted on retractable poles between front of body and back of cab	<input type="checkbox"/>	<input type="checkbox"/>
6000 maximum lumens	<input type="checkbox"/>	<input type="checkbox"/>
5 amp draw	<input type="checkbox"/>	<input type="checkbox"/>
9-32 VDC input	<input type="checkbox"/>	<input type="checkbox"/>
<u>2QQ. 9' Readily Detachable Western Snow Plow System</u>		
<u>Blade Assembly</u>		
Moldboard – 12 gauge (0.104”) steel sheet formed to a 17.3” radius with a 1.76” diameter top curl		
<ul style="list-style-type: none"> • Ribs – Eight (8), 0.25” thick, variable profile, electrically welded to sheet, torsion tube and 0.25” thick, high strength steel base channel 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Torsion Tube – 2” diameter, full width, electrically welded to all eight ribs 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Cutting Edge – Reversible 0.5” x 6” high carbon steel C1080 attached with ten (10) 0.63” Grade 5 carriage bolts 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Disc Shoes – Two (2), full rotation, height adjustable, Austempered Ductile Iron shoes with integral 1” diameter shaft secured to blade with lynch pins. 	<input type="checkbox"/>	<input type="checkbox"/>
Shoe brackets shall be welded to vertical ribs	<input type="checkbox"/>	<input type="checkbox"/>
Blade Trip – 50 degree full blade trip	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2QQ. 9' Readily Detachable Western Snow Plow System (Cont'd)</u>		
Blade Assembly (Cont'd)		
Trip Springs – Four (4), 2.38” OD x 0.39” diameter, C1060, hard drawn, stress relieved wire, preloaded, with 0.63” x 4” eyebolts	<input type="checkbox"/>	<input type="checkbox"/>
Shock Absorbers – Two (2), 5” stroke, shielded shock absorbers to retard extension velocity and dampen blade trip return	<input type="checkbox"/>	<input type="checkbox"/>
Blade Trip Pivot – Three (3) 0.75” diameter steel pins	<input type="checkbox"/>	<input type="checkbox"/>
Blade Guides – Two (2) highly visible, vinyl coated, spring wound, with replaceable flags	<input type="checkbox"/>	<input type="checkbox"/>
Plow Angling – 30° right and left	<input type="checkbox"/>	<input type="checkbox"/>
A-Frame		
Electrically welded, reinforced, 3” x 3” x 0.19” wall structural steel side tubes with 0.50” thick, formed nose plate and integral attachments for angling rams to receive 1” diameter pins	<input type="checkbox"/>	<input type="checkbox"/>
Lift Chains – Two (2), 0.25” Grade 43 high test steel with 2,600 lb. working load limit, attached with 0.38” U-bolts	<input type="checkbox"/>	<input type="checkbox"/>
Quadrant		
Electrically welded, reinforced, 5” OD x 0.25” wall structural steel tube with 0.50” thick nose plates and integral attachments for angling rams to receive 1” diameter pins	<input type="checkbox"/>	<input type="checkbox"/>
A-Frame to Quadrant Angle Pivot – 1” diameter Grade 5 bolt	<input type="checkbox"/>	<input type="checkbox"/>
Lift Frame		
Shall have provision for attachment of out front hydraulics and light kit	<input type="checkbox"/>	<input type="checkbox"/>
Lift Arm – 0.25” x 2” formed bar welded with a 7 gauge steel cover	<input type="checkbox"/>	<input type="checkbox"/>
Two Plow Stands:		
• Self-storing	<input type="checkbox"/>	<input type="checkbox"/>
• Adjustable	<input type="checkbox"/>	<input type="checkbox"/>
Integrated into the plow attachment mechanism.	<input type="checkbox"/>	<input type="checkbox"/>
Connecting hook and lever with integral 0.50” lock pin	<input type="checkbox"/>	<input type="checkbox"/>
Two piece lift frame with tubular construction	<input type="checkbox"/>	<input type="checkbox"/>
Lower lift frame to include drive in plow alignment horns	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2QQ. 9' Readily Detachable Western Snow Plow System (Cont'd)

Mount

Custom designed, electrically welded, structural steel mounting readily adaptable to truck frame. Attached to truck with Grade 5 fasteners

Vehicle, with mount attached, shall meet Federal Motor Vehicle Safety Standards by compliance or by vehicle manufacturing approval

Removable receiver brackets for additional ground clearance

Paint

Plow blade shall be made of shot blasted steel and cleaned with phosphate solutions and have baked-on red polyester powder coating

Hydraulics

Electric solenoid activated and detachable with lift

Front mounted hydraulic unit consisting of a fixed displacement gear pump, with 1750 PSI system relief, direct tang driven by a 4 1/2" 12 volt DC motor

Pump with filter screen shall be immersed in a steel deep drawn reservoir

Main valve manifold shall contain three (3) side mounted and covered solenoid cartridge valves

Cushion relief valves set at 4,000 PSI and a quill adjustment screw to adjust blade drop speed

Hydraulics

One (1) 1 1/2" x 8" lift ram and two (2) 1 1/2" x 12" angling rams each rod with seal, a wiper ring and a packing nut

Hydraulic hoses shall be 1/4" x 3/8" steel braided SAE 100R1

Hydraulic unit shall be controlled by a soft touch, hand held in-cab control.

Control shall be equipped with an on/off and mode buttons and indicator lights.

Control can be dash mounted

Control shall provide a single button movement angle right or left (hydraulically locked)

In-cab control shall be connected to valve manifold and to the motor through an auxiliary 12-volt multiplexed harness. Power and control harness to have quick disconnects and covers at the grill

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2QQ. 9' Readily Detachable Western Snow Plow System (Cont'd)</u>		
<u>Hydraulics (Cont'd)</u>		
Control shall allow plow to be in float when lowered	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall be a “low side” drive system, which provides positive potential continuously with a switched ground to control the solenoids	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall possess programmable security lockout feature Unit shall possess programmable hydraulic soft stop feature Unit shall possess programmable one touch float feature	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic fluid shall be MIL5606 equivalent standard transmission fluid (ATF) or aircraft hydraulic oil for low-temperature operation	<input type="checkbox"/>	<input type="checkbox"/>
Cycle times: Lift, 2.0 seconds; Angle, 1.5 seconds	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic unit shall stay with plow when plow is disconnected from truck	<input type="checkbox"/>	<input type="checkbox"/>
<u>Lights</u>		
Nighthawk LED Headlamps	<input type="checkbox"/>	<input type="checkbox"/>
<u>Headlights</u>		
Comprised entirely of light emitting diodes using solid optic elements for low beam and high beam lights	<input type="checkbox"/>	<input type="checkbox"/>
A reflected LED light for the side lighting using EdgeView Technology	<input type="checkbox"/>	<input type="checkbox"/>
DRL/Park lights using white lights behind a frosted filter, turn signal utilizing amber lights behind the same frosted filter	<input type="checkbox"/>	<input type="checkbox"/>
<u>Plow Removal</u>		
Blade assembly, A-Frame, Quadrant, Lift Frame with hydraulic unit all to be removed in one step from truck as one complete unit	<input type="checkbox"/>	<input type="checkbox"/>
<u>Accessories with Plow</u>		
Snow deflector	<input type="checkbox"/>	<input type="checkbox"/>
Curb guard right and left	<input type="checkbox"/>	<input type="checkbox"/>
Cab command Hand Held Control or Joystick	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2RR. Poly Electric Spreader

Dimensions

- Outside Hopper 103” L
- Outside Hopper 63” W
- Overall Spreader 117” L
- Overall Spreader 51” H
- Capacity 2.5 yd³
- Empty Weight 734 lbs

Poly Hopper Construction

Shall be constructed of rotationally molded ¼” thick double walled polyethylene shell

46° sloped sides with six (6) molded side support ribs

Molded rear “feet” for ease of removal, cleaning and storage

Shall include standard 2-piece hinged, double-walled, overlapping domed hard plastic covers that double as spill guards

Conveyor Drive Bed

Shall be 100% constructed of 10 gauge 201 stainless steel with a 16 ¾” wide pintle chain conveyor system

Dual Motor Drive

One motor shall be a sealed ½ HP-12VDC capacity with an 11-tooth drive sprocket powering a #40 roller chain to gearbox which allows for independent pintle chain speed control.

A separate 1/3 HP motor, dedicated to power a belt driven spinner, shall allow for independent spinner speed control

Gear Box

Gearbox shall be 20:1 reduction and driven by #40 heavy-duty drive chain with a 55-tooth drive sprocket

Chute Assembly

Dual wall poly chute assembly shall be a two position adjustable design to accommodate dump body applications

Assembly shall include a 1/3 HP motor dedicated to power a belt driven spinner

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>2RR. Poly Electric Spreader (Cont'd)</u>		
<u>Chute Assembly (Cont'd)</u>		
Chute/Spinner Assembly is designed for easy, no tools, removal in one piece for quick detach and storage	<input type="checkbox"/>	<input type="checkbox"/>
Spinner disk shall be polyurethane, 15.5" in diameter, with four (4) flutes	<input type="checkbox"/>	<input type="checkbox"/>
Width of spread shall be approximately 2' to 40'	<input type="checkbox"/>	<input type="checkbox"/>
Shall include a wide fixed stainless deflector to protect truck bumper and under parts from the material being spread	<input type="checkbox"/>	<input type="checkbox"/>
An alternate license plate location shall be molded into the poly chute housing	<input type="checkbox"/>	<input type="checkbox"/>
<u>Feed Gate</u>		
Shall have a stainless steel lever/handle, spring loaded, with positive detent calibration, for accurate adjustment	<input type="checkbox"/>	<input type="checkbox"/>
<u>Cab Control and Wiring System</u>		
Shall be fused to protect wiring, and have a blast feature for spot spreading	<input type="checkbox"/>	<input type="checkbox"/>
Include self-diagnostic troubleshooting flash codes via LED lights located on control panel as well as audible indicators	<input type="checkbox"/>	<input type="checkbox"/>
Control shall have dual controls to independently control the conveyor and spinner Speeds	<input type="checkbox"/>	<input type="checkbox"/>
<u>Harnesses</u>		
Shall have multiplexed electrical system with no high current power cables routed into vehicle cab	<input type="checkbox"/>	<input type="checkbox"/>
Shall have two-piece harness with molded style connectors and covers routed to disconnect at the rear of the truck	<input type="checkbox"/>	<input type="checkbox"/>
CHMSL (Center High Mounted Stop Light) is provided as standard	<input type="checkbox"/>	<input type="checkbox"/>
An accessory wire for optional work light shall also be included as standard	<input type="checkbox"/>	<input type="checkbox"/>
<u>Standard Features</u>		
Shall include heavy-duty top screen constructed from 1/4" diameter rod	<input type="checkbox"/>	<input type="checkbox"/>
Tent style top screens shall be angled at 15°	<input type="checkbox"/>	<input type="checkbox"/>
Hopper body shall have four (4) molded-in-poly tie-down loops	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2SS. Pipe Vise on Removable Plate with Receiver Type Hitch

Pipe Vise mounted on rear step bumper	<input type="checkbox"/>	<input type="checkbox"/>
Wilton 6 ½” Swivel Pipe Vise	<input type="checkbox"/>	<input type="checkbox"/>
Wilton Pipe Jaws	<input type="checkbox"/>	<input type="checkbox"/>

2TT. Diagnostic Tools / Test Equipment

1. Successful bidder shall be required to supply between one (1) and three (3) complete sets of OEM 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

2UU. 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 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2VV. 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:

- #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.

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

2WW. Technical Support

Technical Support is to be provided by factory authorized technical representatives and shall 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

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 shall be allowed only with consent of Vehicle Services

Total training hours shall be provided and no additional compensation will be considered

Actual time to be spent on each area will be by mutual agreement of the Vehicle Services Department and the successful bidder

ITEM #2 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH 9 FOOT UTILITY BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

2WW. Technical Support (Cont'd)

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

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 education

Technical Support for Vehicle Services may be provided at the following fleet maintenance facility locations 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

Successful bidder shall provide Technical Support sessions for other Departments which will be held at an Ocean County location specified by the requesting Department

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 #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS		
Dual Rear Wheels	<input type="checkbox"/>	<input type="checkbox"/>
Four Wheel Drive	<input type="checkbox"/>	<input type="checkbox"/>
60” Cab to Axle (CA)	<input type="checkbox"/>	<input type="checkbox"/>
7.3L V8 gasoline engine	<input type="checkbox"/>	<input type="checkbox"/>
40 gallon fuel tank	<input type="checkbox"/>	<input type="checkbox"/>
TorqShift transmission with PTO option	<input type="checkbox"/>	<input type="checkbox"/>
19,000 lb. GVWR	<input type="checkbox"/>	<input type="checkbox"/>
Cab shall be military grade aluminum alloy for longevity to the County in lieu of carbon steel	<input type="checkbox"/>	<input type="checkbox"/>
Frame shall be fully boxed under cab and “C” channel behind cab for easy mounting of body	<input type="checkbox"/>	<input type="checkbox"/>
Oil life monitor, engine hour and engine idle hour meters	<input type="checkbox"/>	<input type="checkbox"/>
Air Conditioning	<input type="checkbox"/>	<input type="checkbox"/>
Airbags, frontal driver & passenger, side impact and side air curtains	<input type="checkbox"/>	<input type="checkbox"/>
TowCommand integrated trailer brake controller, manual telescoping trailer tow mirrors	<input type="checkbox"/>	<input type="checkbox"/>
7 wire trailer wiring harness (no plug)	<input type="checkbox"/>	<input type="checkbox"/>
AM/FM radio; SYNC Enhanced voice recognition communication and entertainment, 911 Assist, AppLink 4-2” LCD Center Screen, One (1) Smart charging USB Port SYNC	<input type="checkbox"/>	<input type="checkbox"/>
Power windows, locks, mirrors, and heated mirrors	<input type="checkbox"/>	<input type="checkbox"/>
Center High Mount Stop Lamp	<input type="checkbox"/>	<input type="checkbox"/>
240 amp HD alternator, 12V 750 CCA battery	<input type="checkbox"/>	<input type="checkbox"/>
Tilt and telescoping steering wheel	<input type="checkbox"/>	<input type="checkbox"/>
4.88 ratio limited slip axle	<input type="checkbox"/>	<input type="checkbox"/>
4 wheel power ABS brakes, front and rear disc, power steering, front and rear stabilizer bars	<input type="checkbox"/>	<input type="checkbox"/>
Quad-beam jewel-effect halogen headlamps, five (5) roof marker lights	<input type="checkbox"/>	<input type="checkbox"/>
LT225/70R19.5G BSW Traction tires – six (6)	<input type="checkbox"/>	<input type="checkbox"/>
One (1) full sized spare tire mounted to wheel and one (1) jack	<input type="checkbox"/>	<input type="checkbox"/>
Chrome front bumper, front tow hooks	<input type="checkbox"/>	<input type="checkbox"/>
Chrome hub covers, front bumper grill	<input type="checkbox"/>	<input type="checkbox"/>
Power Sliding Rear glass with defrost – sc/cc only	<input type="checkbox"/>	<input type="checkbox"/>
Remote Start	<input type="checkbox"/>	<input type="checkbox"/>
Halogen Fog Lamps	<input type="checkbox"/>	<input type="checkbox"/>
40/20/40 split vinyl bench seat with center arm rest	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary power point, six (6) upfitter switches located overhead center Tachometer, speedometer, oil pressure, transmission temp, engine temp, and fuel gauge	<input type="checkbox"/>	<input type="checkbox"/>
Interval windshield wipers	<input type="checkbox"/>	<input type="checkbox"/>
Driver & passenger grab handles	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS (Cont'd)		
Standard XL Rear view camera and prep kit	<input type="checkbox"/>	<input type="checkbox"/>
3-year/36,000 mile bumper-to-bumper warranty on OE components	<input type="checkbox"/>	<input type="checkbox"/>
5-year/60,000 mile powertrain warranty	<input type="checkbox"/>	<input type="checkbox"/>
Shift on the fly	<input type="checkbox"/>	<input type="checkbox"/>
Cab steps, molded black (running boards)	<input type="checkbox"/>	<input type="checkbox"/>
Undercoating – entire truck chassis, underside of cab and underside of added body (dump, utility, platform) shall be coated with Tectyl 2423 Haps Free Black, or Z Guard Product, a low VOC, High Solids, Emulsion Corrosion preventing coating	<input type="checkbox"/>	<input type="checkbox"/>
Snow plow prep package	<input type="checkbox"/>	<input type="checkbox"/>
Single color to be selected from standard color chart at time of order	<input type="checkbox"/>	<input type="checkbox"/>
ENCLOSED SERVICE BODY SPECIFICATIONS		
Body Shell		
Shall be constructed of 14 gauge two-sided A40 Galvanneal steel	<input type="checkbox"/>	<input type="checkbox"/>
Compartment tops and backs and the compartment end panels shall be a one-piece seamless design	<input type="checkbox"/>	<input type="checkbox"/>
All doors, door openings, drip rails, and other exposed steel edges shall be hemmed for strength, safety, and resistance to corrosion.	<input type="checkbox"/>	<input type="checkbox"/>
Floor		
Shall be constructed of a minimum of 12 gauge treadplate with a 1 3/8” return flange on each side	<input type="checkbox"/>	<input type="checkbox"/>
Side compartment back panel should overlap and interlock with the floor flange, providing support for the weight of the side compartment.	<input type="checkbox"/>	<input type="checkbox"/>
Understructure		
Cross sills shall be constructed from 11 gauge steel with 50,000 PSI minimum yield strength.	<input type="checkbox"/>	<input type="checkbox"/>
Compartment Doors		
Side compartment doors shall be constructed of 20 gauge two-sided A40 Galvanneal Steel	<input type="checkbox"/>	<input type="checkbox"/>
Shall be double paneled with internal reinforcements for durability	<input type="checkbox"/>	<input type="checkbox"/>
Hinges		
Corrosion resistant, all stainless steel, continuous hinges shall be installed to provide full length support for the doors and pry-proof security with a built-in weather shield	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ENCLOSED SERVICE BODY SPECIFICATIONS (Cont'd)		
Hinges (Cont'd)		
Hinges for the side compartment doors shall be spot welded to the door frames	<input type="checkbox"/>	<input type="checkbox"/>
Hinges for both the rear doors and the conduit chute doors shall be attached with non-corrosive aluminum rivets with stainless steel mandrels.	<input type="checkbox"/>	<input type="checkbox"/>
Hinges must be supported with a six year warranty	<input type="checkbox"/>	<input type="checkbox"/>
Rotary Latches		
Corrosion resistant rotary latches shall be secured to the door panels by four (4) threaded studs attached to the back of the latches	<input type="checkbox"/>	<input type="checkbox"/>
Shall have zinc die cast handles with a brushed chrome finish that provides ample hand clearance surrounded by an injection molded glass and mineral infused UV resistant nylon housing	<input type="checkbox"/>	<input type="checkbox"/>
Shall also have an internal injection molded glass and mineral infused UV resistant nylon cover for protection from the contents of the compartments	<input type="checkbox"/>	<input type="checkbox"/>
Shall be slam-latchable	<input type="checkbox"/>	<input type="checkbox"/>
Latching cams shall be elongated to allow the latches to move vertically relative to the lock strikes to prevent torsional damage	<input type="checkbox"/>	<input type="checkbox"/>
Microcellular urethane foam gaskets shall be installed between the latch flange and the outer door skin to prevent moisture from entering the compartment behind the latch	<input type="checkbox"/>	<input type="checkbox"/>
Lock cylinders shall be flush mounted for additional security	<input type="checkbox"/>	<input type="checkbox"/>
Door Strikers		
Adjustable strikers shall be affixed to the side compartment door frames with screws (welded-on door strikers are NOT ACCEPTABLE)	<input type="checkbox"/>	<input type="checkbox"/>
Door Seals		
Automotive “bulb type” neoprene door seals shall be installed by the manufacturer of the body on all door frames	<input type="checkbox"/>	<input type="checkbox"/>
Door Retainers		
Double spring over center door retainers shall be installed on all vertical doors	<input type="checkbox"/>	<input type="checkbox"/>
Door retainers must hold doors in positive open or closed position (other types of retainers, like cables or chains are NOT ACCEPTABLE for vertical doors)	<input type="checkbox"/>	<input type="checkbox"/>
Horizontal doors shall be secured in an open position parallel to the ground by heavy duty chain retainers	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ENCLOSED SERVICE BODY SPECIFICATIONS (Cont'd)		
Door Retainers (Cont'd)		
Chain retainers must be easily removable so that the door can be opened to a full 180° to be able to access the compartment in tight areas.	<input type="checkbox"/>	<input type="checkbox"/>
Shelving		
Shall be constructed of 18 gauge bright spangled galvanized steel	<input type="checkbox"/>	<input type="checkbox"/>
Shall have hemmed dividers on 4” centers	<input type="checkbox"/>	<input type="checkbox"/>
Shelves must have a minimum capacity rating of 250 lbs	<input type="checkbox"/>	<input type="checkbox"/>
Interior Light Guards		
Light guards shall be installed by the body manufacturer to provide protection for recessed stop/tail/turn and backup lights	<input type="checkbox"/>	<input type="checkbox"/>
Wiring harness must also be protected	<input type="checkbox"/>	<input type="checkbox"/>
Master Lock System		
Each lower side pack on the body shall include a sliding bar master lock that secures all of the doors along that side of the body with an exterior padlock	<input type="checkbox"/>	<input type="checkbox"/>
Each master lock bar shall be spring-loaded to hold the sliding bar in the open position so the side doors are only obstructed when the master lock is being held into place by a padlock	<input type="checkbox"/>	<input type="checkbox"/>
Interior Dome Lights		
The cargo area of the body shall be illuminated by two (2) overhead dome lights switched at the rear of the body thus eliminating the need to climb into the load area to operate the lights	<input type="checkbox"/>	<input type="checkbox"/>
Roof Construction		
Shall be constructed of 16 gauge A40 Galvanneal steel	<input type="checkbox"/>	<input type="checkbox"/>
Shall be tapered and crowned across the top for additional strength	<input type="checkbox"/>	<input type="checkbox"/>
Shall be reinforced by cross braces and shall feature two (2) lockable rear conduit chute doors (one (1) on each side)	<input type="checkbox"/>	<input type="checkbox"/>
Conduit chute doors shall have corrosion resistant zinc plated rotary latches	<input type="checkbox"/>	<input type="checkbox"/>
Latches shall be slammable and shall be keyed the same as the rest of the exterior doors	<input type="checkbox"/>	<input type="checkbox"/>
Shall have adjustable door strikers attached to the door frames with screws	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ENCLOSED SERVICE BODY SPECIFICATIONS (Cont'd)		
Roof Construction (Cont'd)		
Roof shall have two (2) access doors each side with chrome T-latches.	<input type="checkbox"/>	<input type="checkbox"/>
Rear Cargo Doors		
Shall be a double panel construction with a 20 gauge	<input type="checkbox"/>	<input type="checkbox"/>
A40 Galvanneal steel outer panel and a 14 gauge Galvanneal steel inner liner	<input type="checkbox"/>	<input type="checkbox"/>
Shall have a nitrogen gas door retainer to assist in both the opening and closing of the door	<input type="checkbox"/>	<input type="checkbox"/>
Shall be designed so that all door rods and latching hardware is concealed between the outer door panel and interior door liner	<input type="checkbox"/>	<input type="checkbox"/>
Shall be available with or without glass.	<input type="checkbox"/>	<input type="checkbox"/>
If glass is selected, specifications consist of a minimum of 7” x 24” fixed tempered glass window installed in each door and protected by an 18 gauge bright spangled galvanized steel punched window guard	<input type="checkbox"/>	<input type="checkbox"/>
Exterior Prime Paint		
Shall be completely immersed in electrodeposition gray epoxy prime paint featuring a zinc phosphate precoat and seal for additional corrosion protection	<input type="checkbox"/>	<input type="checkbox"/>
Prime paint shall be oven cured to provide a hard durable finish	<input type="checkbox"/>	<input type="checkbox"/>
Final finish color shall match color of cab, base coat clear coat	<input type="checkbox"/>	<input type="checkbox"/>
Interior Paint		
Interior paint shall be a mid-gloss, mar resistant, light gray finish	<input type="checkbox"/>	<input type="checkbox"/>
Undercoating		
The body shall be completely undercoated by the body manufacturer using a water based acrylic	<input type="checkbox"/>	<input type="checkbox"/>
Warranty		
The following items shall be covered by a ten (10) year limited warranty:	<input type="checkbox"/>	<input type="checkbox"/>
No Rust-Through Guarantee	<input type="checkbox"/>	<input type="checkbox"/>
Continuous Door Hinges – Guaranteed not to fail to operate or come off body	<input type="checkbox"/>	<input type="checkbox"/>
Latches and Lock Cylinders – Guaranteed against failure	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

ENCLOSED SERVICE BODY SPECIFICATIONS (Cont'd)

Warranty (Cont'd)

Shelves – Guaranteed not to fail in bending under a maximum 250 lb. rated load.

Lighting

Lighting shall meet all FMVSS standards

Wiring harness shall be encased in a plastic loom and all wires shall be colored for ease of troubleshooting

Wire harness must have connectors that are compatible with the specified chassis without splicing

Stop/tail/turn and backup lights shall be surface mount with built in strobe

The stop/tail/turn/reverse shall be surface mount with built in strobes

All marker, clearance, and R.I.D. lighting shall be LED type lighting (Incandescent lights in any of these locations are **NOT ACCEPTABLE**)

Dimensions

Knapheide Model KC108L2094J

- Length 107.25” without bumper
- Width 94”
- Compartment Depth 20”
- Overall Height 68”
- Clear Door Width 49.5”
- Clear Door Height 40”
- Interior Clear Height 51.1”
- Body Weight 2,093 lbs.

Streetside Compartment Configuration

- First Vertical: 35.25” x 40”
- Horizontal: 44.75” x 18.5”
- Rear Vertical: 27.25” x 40”

Curbside Compartment Configuration

- First Vertical: 35.25” x 40”
- Horizontal: 72” x 18.5”
- Rear Vertical: 27.25” x 21.5”

Accessory Lighting

Compartment lighting must be LED; each compartment must have one vertical and one horizontal light fit to size

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

ENCLOSED SERVICE BODY SPECIFICATIONS (Cont'd)

Accessory Lighting (Cont'd)

Whelen Amber LED Lights

Body upfitter must provide installation of lights so they work in conjunction with the equipment on the truck:

- Four (4) Micron Series Super LED in grille
- Whelen Micron 3 1/2", two (2) in rear, one (1) each side with stop tail turn lights
- Four (4) M7 Super LED light heads at rear, one (1) each side of body mounted higher on body, and two (2) mounted in front of body higher than cab

Whelen Traffic Advisor TIR3 Super LED:

- Mounted above rear doors lower than the roof line
- Eight (8) module 1 3/4" x 2 3/16" x 30 1/16"
- Controller for multi-pattern configuration

Accessories

Sleeve Adapter HC3Z-19H282-A

Pipe Vise and Bracket:

- Wilton 6 1/2" Swivel Pipe Vise
- Wilton Pipe Jaws
- Bracket Mounted
- To fit in Class V hitch

Recessed Galva Grip Bumper:

- Class V Receiver hitch
- Pollak 7 pole RV style harness twist and lock plug (Harness Part # 11-998, or equal; 7-Way Plug Part # 11916P, or equal)
- Back up alarm Preco 102 Db
- 3-ball receiver tube 1 7/8", 2", 2 5/16" locking hitch pin
- 6 ton receiver mount Pintle & 2" ball combination hitch

DOT safety kit, first aid kit, and 10 lb. fire extinguisher w/bracket and safety triangles

Conspicuity enhancement:

- 2" red and white diamond grade reflective striping on face of bumper
- 6" red and yellow inverted V on rear of body compartment face

OPTIONS

3A. Upgrade chassis to Super Cab chassis, retaining 60" Cab to Axle

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
3B. <u>Upgrade chassis to Crew Cab chassis, retaining 60" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
3C. <u>Upgrade to Regular Cab chassis with 84" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
3D. <u>Upgrade to Super Cab chassis with 84" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
3E. <u>Upgrade to Crew Cab chassis with 84" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
3F. <u>Medium Height Enclosed Body Upgrade</u>		
Upgrade specified enclosed body to medium height, Knapheide model KC108M2094J:		
Dimensions:		
<ul style="list-style-type: none"> • Length 107.25" without bumper • Width 94" • Compartment Depth 20" • Overall Height 78" • Clear Door Width 49.5" • Clear Door Height 50" • Interior Clear Height 61.1" • Body Weight 2,112 lbs. 	<input type="checkbox"/>	<input type="checkbox"/>
3G. <u>High Height Enclosed Body Upgrade</u>		
Upgrade specified enclosed body to high height, Knapheide model KC108H2094J:		
Dimensions:		
<ul style="list-style-type: none"> • Length 107.25" without bumper • Width 94" • Compartment Depth 20" • Overall Height 90" • Clear Door Width 49.5" • Clear Door Height 62" • Interior Clear Height 73.1" • Body Weight 2,232 lbs. 	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3H. 11 Foot Low Height Enclosed Body Upgrade For Use With 84" CA Chassis

Upgrade specified enclosed body to 11 foot Knapheide model KC132L2094J for 84" CA chassis application

Dimensions:

- Length 133.25" without bumper
- Width 94"
- Compartment Depth 20"
- Overall Height 68"
- Clear Door Width 49.5"
- Clear Door Height 40"
- Interior Clear Height 51.1"
- Body Weight 2,506 lbs.

Streetside Compartment Configuration

- First Vertical: 34.25" x 40"
- Second Vertical: 21" x 40"
- Horizontal: 52.75" x 18.5"
- Rear Vertical: 25.25" x 40"

Curbside Compartment Configuration

- First Vertical: 34.25" x 40"
- Second Vertical: 21" x 40"
- Horizontal: 52.75" x 18.5"
- Rear Vertical: 25.25" x 40"

3I. 11 Foot Medium Height Enclosed Body Upgrade For Use With 84" CA Chassis

Upgrade specified enclosed body to 11 foot Knapheide model KC132M2094J for 84" CA chassis application

Dimensions:

- Length 133.25" without bumper
- Width 94"
- Compartment Depth 20"
- Overall Height 78"
- Clear Door Width 49.5"
- Clear Door Height 50"
- Interior Clear Height 61.1"
- Body Weight 2,532 lbs.

Streetside Compartment Configuration

- First Vertical: 34.25" x 40"
- Second Vertical: 21" x 40"
- Horizontal: 52.75" x 18.5"

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3I. 11 Foot Medium Height Enclosed Body Upgrade For Use With 84" CA Chassis (Cont'd)

Curbside Compartment Configuration

- Rear Vertical: 25.25" x 40" First Vertical: 34.25" x 40"
- Second Vertical: 21" x 40"
- Horizontal: 52.75" x 18.5"
- Rear Vertical: 25.25" x 40"

3J. 11 Foot High Height Enclosed Body Upgrade for Use with 84" CA Chassis

Upgrade specified enclosed body to 11 foot Knapheide model KC132H2094J for 84" CA chassis application

Dimensions:

- Length 133.25" without bumper
- Width 94"
- Compartment Depth 20"
- Overall Height 90"
- Clear Door Width 49.5"
- Clear Door Height 62"
- Interior Clear Height 73.1"
- Body Weight 2,652 lbs.

Streetside Compartment Configuration

- First Vertical: 34.25" x 40"
- Second Vertical: 21" x 40"
- Horizontal: 52.75" x 18.5"
- Rear Vertical: 25.25" x 40"

Curbside Compartment Configuration

- First Vertical: 34.25" x 40"
- Second Vertical: 21" x 40"
- Horizontal: 52.75" x 18.5"
- Rear Vertical: 25.25" x 40"

3K. Aluminum Body Upgrade from Steel

All accessories shall be the same at the steel body specifications

Body Shell

Constructed of .09" H5052 Aluminum.

Body shell shall be supported by structural 6061 T6 Aluminum extrusions

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3K. Aluminum Body Upgrade from Steel (Cont'd)

Floor

Constructed of interlocking, extruded 6061 T6 Aluminum planks with locking aluminum end rails and aluminum side rails with a 1 3/8" return flange on each side

Side compartment back panel should overlap and interlock with the floor flange to support the weight of the side compartment

Understructure

Support structure constructed from 11-gauge steel long sills, and a 10-gauge steel cross sills with 50,000 psi minimum yield strength

Doors

Box structure, double paneled with a minimum of .08" aluminum outer panel, corners formed continuously

Inner door panel shall be minimum of .06"

Hinges

Corrosion resistant aluminum with stainless steel rod. Continuous hinges shall be installed to provide full length support for the doors and pro-proof security

Hinges are to be applied with structural adhesive and rivets to the door frames; must be supported with a 10-year warranty.

Rotary Latches

Corrosion resistant rotary latches shall be secured to the door panels by four (4) fasteners attached to the back of the latches.

Latches must have zinc die cast handles with a brushed chrome finish that provides ample hand clearance surrounded by an injection molded glass and mineral infusion UV resistant nylon housing.

Latches shall also have internal injection molded glass and mineral infused UV resistant nylon cover for protection from the contents of the compartments.

Shall be slam-latchable

Latching cams are to be elongated to allow the latches to move vertically relative to the lock strikes to prevent torsional damage

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3K. Aluminum Body Upgrade from Steel (Cont'd)

Rotary Latches (Cont'd)

Microcellular urethane foam gaskets are to be installed between the latch flange and the outer door skin to prevent moisture from entering the compartment behind the latch.

Lock cylinders are to be flush mounted

Door Strikers

Shall be affixed to the side compartment doorframes with screws; welded on are **NOT ACCEPTABLE**

Door Seals

Automotive “bulb type” neoprene door seals shall be installed on all doorframes

Door Retainers

Nitrogen gas strut door retainers are to be installed on all vertical doors. Door retainers need to hold doors in positive open or closed position. **ANY** other type of retainer is **NOT ACCEPTABLE**

Horizontal doors shall be secured in an open position parallel to the ground by heavy duty chain retainers. Chain retainers must be easily removable so the door can be opened to at least 150° to be able to access the compartment in tight areas.

Shelving

Shall be constructed o .06” aluminum.

All shelves shall have molded, infinitely adjustable sliding dividers.

Shelves need to have minimum capacity of 250 lbs.

Master Lock System

Each lower side pack on the body shall include a sliding bar master lock that secures all of the doors along that side of the body with an exterior padlock (County provided).

Each master lock bar shall be spring loaded to hold the sliding bar in the open position so the side doors are only obstructed when the master lock is being held into place with key coded locks to match ignition key

Interior Light Guard

Shall be installed by the body manufacturer to provide protection for light mounting hardware, light connection points, and wiring harness.

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

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

OPTIONS (Cont'd)

3K. Aluminum Body Upgrade from Steel (Cont'd)

Interior Light Dome

Cargo area of the body shall be illuminated by an overheard dome light, switched at the rear of the body

Roof Construction

Roof shall be constructed of .09” H5052 aluminum. Shall be tapered and crowned across the top

Roof shall be reinforced by cross braces and shall feature two (2) lockable rear conduit chute doors – one (1) on each side

Conduit chute doors shall have corrosion resistant rotary latches and shall be slam-latchable and keyed to match all other exterior doors.

Door shall have adjustable door strikers attached to the doorframes with screws.

Rear Cargo Doors

Shall be constructed of .09” H5052 Aluminum for outer panels and inner liner.

Each door shall have nitrogen gas door retainer to assist in both the opening and closing of the door

Each door shall be designed so that all door rods and latching is concealed.

Rear cargo doors are constructed with or without glass – **to be selected at time of order**

IF Glass is selected: Minimum 9” X 30” fixed tempered glass window installed in each door and protected by an aluminum window guard.

Bulkhead

Shall be of ABS material.

Body shall have sliding door to access the cargo area from the cab.

Bulkhead door shall have slam-latch handle on both sides of the door which can be locked from the cab side.

Bulkhead door is to open and close on stainless steel ball bearing slides. Door hinges are **NOT ACCEPTABLE**.

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3K. Aluminum Body Upgrade from Steel (Cont'd)

Exterior Prime Paint

Epoxy prime paint with a minimum of 1.2 mm coat. Prim paint shall be oven cured to provide a hard finish

Interior Paint

Interior Paint is to be mid-gloss, mar resistant, buff finish

Warranty

The following shall be covered by a minimum 10-year limited warranty:

- No failure due to corrosion
- Continuous door hinges; guaranteed not to fail to operate or come off product
- Latches and Lock Cylinders – unconditional guarantee against failure
- Shelves – guaranteed not to fail in bending under a maximum of 250 lb. load.

Lighting

Shall meet all FMVSS standards.

Wiring harness shall be encased in a mesh loom and all wires are to be colored for ease of troubleshooting.

Wire harness shall have connectors that are compatible with OEM chassis without splicing

Rear lighting system to feature surface mount, stop/tail/turn/backup lights with LED strobe having eight (8) selectable patterns and built in reflectivity for safety.

Lighting system shall feature all LED type lighting, incandescent or other lighting is **NOT ACCEPTABLE**

LED Compartment Lighting

Each compartment shall have one (1) full length vertical and horizontal light to illuminate full compartment

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3K. Aluminum Body Upgrade from Steel (Cont'd)

Dimensions

Knapheide AKC110L2094

- Length: 109”
- Width: 94”
- Compartment Depth: 20”
- Overall Height: 68”
- Clear Door Width: 50”
- Clear Door Height: 44”
- Interior Clear Height: 50”
- Body Weight: 969 lbs.

Compartment Configuration

- First Vertical 36” X 40”
- Horizontal 45” x 18 ½”
- Rear Vertical: 28” X 40”

Shelving Configuration

- Two (2) Shelves First Vertical Each Side
- One (1) Shelf Horizontal Curbside
- Two (2) Shelves Rear Vertical Each Side

3L. Medium Height Enclosed Body Upgrade

Knapheide AKC110M2094

Dimensions:

- Length – 109”
- Width – 94”
- Compartment Depth – 20”
- Overall Height - 78”
- Clear Door Width - 50”
- Clear Door Height – 54”
- Interior Clear Height – 60”
- Body Weight – 1006 lbs.

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3M. High Height Enclosed Body Upgrade

Knapheide AKC110H2094

Dimensions

- Length – 109”
- Width – 94”
- Compartment Depth – 20”
- Overall Height - 90”
- Clear Door Width - 50”
- Clear Door Height – 66”
- Interior Clear Height – 72”
- Body Weight – 1050 lbs.

3N. 11’ Medium Height Enclosed Body Upgrade for Use with 84” CA

Knapheide AKC132M2094

Dimensions

- Length – 133”
- Width – 94”
- Compartment Depth – 20”
- Overall Height - 78”
- Clear Door Width - 50”
- Clear Door Height – 54”
- Interior Clear Height – 60”
- Body Weight – 1180 lbs.

Compartment Configuration for 133” Bodies

- First Vertical: 36” X 40”
- Second Vertical: 24” X 40”
- Horizontal: 45” X 18 ½”
- Rear Vertical: 28” X 40”

Shelving Configuration

- Two (2) Shelves First Vertical Each Side
- Two (2) Shelves Second Vertical Each Side
- One (1) Shelf Horizontal Curbside
- Two (2) Shelves Rear Vertical Each Side

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3O. 11' High Height Enclosed Body Upgrade for Use with 84" CA

Knapheide AKC132H2094

Dimensions

- Length – 133"
- Width – 94"
- Compartment Depth – 20"
- Overall Height - 90"
- Clear Door Width - 50"
- Clear Door Height – 66"
- Interior Clear Height – 72"
- Body Weight – 1227 lbs.

3P. Side Access Doors in Roof

Two (2) per side hinged at top with gas springs

(Note: If 60" Front Vertical is a chosen option, only one (1) door on that side)

3Q. Bottle Retainer Compartment

- 60" H X 35 ¼" W X 20" D
- Two (2) hooks for cords
- Bottle Holder
- Victor Journeyman 450 Heavy Duty Outfit 540/300 SR Regulators – Torch Set
- 3M. BASF DTE Liner AXALTA
- Coating cargo area up to first shelf bumper

3R. BASF DTE Liner AXALTA

Coating cargo area up to first shelf, and rear bumper

3S. Whelen M9 Super LED Scene Lights

- Whelen M9 Gradient Opti-Scenelight:
- LED White Light only – mounted on side of enclosed body for work light area
- 3N. Whelen M9 Super LED Scene Lights (Cont'd)
- Has sixteen (16) White Super LED lights
- Clear optic hard coated polycarbonate lens and utilizes a metal reflector with integrated TIR hybrid optics for maximum output

Chrome plated flange for Opti-Scenelight

Enclosed body shall use 1 to 3 lights per side (user Department shall determine amount at time of order) (Up to six (6) lights per vehicle)

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>3T. Inverter</u>		
AIMS Pure Sine 4000 Watt Inverter, placement to be decided at time of order		
<ul style="list-style-type: none"> • Peak Power 12,000 Watt surge rating • 12 Volt 	<input type="checkbox"/>	<input type="checkbox"/>
Installed with two (2) auxiliary batteries	<input type="checkbox"/>	<input type="checkbox"/>
Additional GFI outlet with weather proof protector located at end users placement	<input type="checkbox"/>	<input type="checkbox"/>
Isolation Solenoid		
<ul style="list-style-type: none"> • When truck is running it is charging auxiliary batteries and when truck is off it is only running off auxiliary batteries 	<input type="checkbox"/>	<input type="checkbox"/>
<u>3U. BASF Spray Liner on Floor and Sides of Cargo Area</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>3V. BASF Spray Liner on Floor of Compartments</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>3W. Hide-A-Way Bumper Crane</u>	<input type="checkbox"/>	<input type="checkbox"/>
Western Mule S-1350 Fold-A-Way Crane:		
<ul style="list-style-type: none"> • 1350 lbs. capacity • Aluminum bumper cover and fold down rear grip strut • LED light package 	<input type="checkbox"/>	<input type="checkbox"/>
<u>3X. Whelen LED Liberty II Wecan X 54” Light Bar</u>		
<ul style="list-style-type: none"> • Light Bar LED Liberty II Wecan X 54”, all modules filled with amber LED • No light modules on rear of light bar (front only) • Alley lights and takedowns are to be white • Twelve (12) scan lock flash patterns • Controller • Mounted on top of cab 	<input type="checkbox"/>	<input type="checkbox"/>
<u>3Y. Light Color Option for Liberty II Wecan X 54” Light Bar</u>		
Light Color Option:		
<ul style="list-style-type: none"> • Red and blue modules in lieu of amber for Sheriff’s Department • Determined Left/Right Side and Red/Blue at time of order with Amber • Arrow Stick at Rear 	<input type="checkbox"/>	<input type="checkbox"/>
<u>3Z. Emergency Lighting LED Body Lights</u>		
Red Blue Split, 3 ½” Super LED clear lens with red and blue lights shall be installed.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>3AA. Maxon Liftgate</u>		
C2-54-1642-TP38 Liftgate 55" x 38" +4	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum Extruded 2-Piece Platform	<input type="checkbox"/>	<input type="checkbox"/>
1600 pound capacity	<input type="checkbox"/>	<input type="checkbox"/>
For use with utility bodies with openings of 54-61"	<input type="checkbox"/>	<input type="checkbox"/>
<u>3BB. Subfloor</u>		
6" High full length sub floor for enclosed body	<input type="checkbox"/>	<input type="checkbox"/>
<u>3CC. Transverse Compartment</u>		
First Vertical Full Transverse Compartment:	<input type="checkbox"/>	<input type="checkbox"/>
Three (3) draw pull out both street and curbside <i>(Note: When ordered with C-Tech Drawer Unit, transverse is curbside only)</i>	<input type="checkbox"/>	<input type="checkbox"/>
<u>3DD. C-Tech Drawer Unit</u>		
Drawer Unit to be installed in Street side first vertical:		
<ul style="list-style-type: none"> • Drawers shall be 250 lbs. rated • 28" x 17.5" • .08", 5052 aluminum alloy construction • 40" Compartment Height Configuration • One (1) 7" Deep Drawer • Two (2) 5" Deep Drawers • Three (3) 3" Deep Drawers • <i>This eliminates full transverse compartment if selected; goes to only back of Compartment</i> 	<input type="checkbox"/>	<input type="checkbox"/>
<u>3EE. Air Compressor, 70 CFM</u>		
<ul style="list-style-type: none"> • VMAC VR70 Underhood Rotary Screw Compressor • 70 CFM, 175 PSI • 3 gallon receiver tank • Control panel Throttle control • Filter/Regulator/Lubricator • Relief/Shut-Off valves with all required fittings • Hose Reel: 50' of ½" I.D. air line 	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3FF. Air Compressor, 150 CFM

- VMAC VR150 Underhood Rotary Screw Compressor
- 150 CFM, 175 PSI
- 3 gallon receiver tank
- Control panel Throttle control
- Filter/Regulator/Lubricator
- Relief/Shut-Off valves with all required fittings
- Hose Reel: 50' of ½" I.D. air line

3GG. Go-Lights, Model 3024

Go Light Stryker Work Lights (Up to four (4) per vehicle)

Permanently mounted on stainless steel brackets, front and/or rear (user Department shall determine location)

6000 maximum lumens

5 amp draw

9-32 VDC input

3HH. 9' Readily Detachable Western Snow Plow System

Blade Assembly

Moldboard – 12 gauge (0.104") steel sheet formed to a 17.3" radius with a 1.76" diameter top curl

Ribs – Eight (8), 0.25" thick, variable profile, electrically welded to sheet, torsion tube and 0.25" thick, high strength steel base channel

Torsion Tube – 2" diameter, full width, electrically welded to all eight ribs.

Cutting Edge – Reversible 0.5" x 6" high carbon steel C1080 attached with ten (10) 0.63" Grade 5 carriage bolts.

Disc Shoes – Two (2), full rotation, height adjustable, Austempered Ductile

Iron shoes with integral 1" diameter shaft secured to blade with lynch pins. Shoe brackets shall be welded to vertical ribs.

Blade Trip – 50 degree full blade trip

Trip Springs – Four (4), 2.38" OD x 0.39" diameter, C1060, hard drawn, stress relieved wire, preloaded, with 0.63" x 4" eyebolts.

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3HH. 9' Readily Detachable Western Snow Plow System (Cont'd)

Blade Assembly (Cont'd)

Shock Absorbers – Two (2), 5” stroke, shielded shock absorbers to retard extension velocity and dampen blade trip return.

Blade Trip Pivot – Three (3) 0.75” diameter steel pins.

Blade Guides – Two (2) highly visible, vinyl coated, spring wound, with replaceable flags.

Plow Angling – 30 degrees right and left.

A-Frame

Electrically welded, reinforced, 3” x 3” x 0.19” wall structural steel side tubes with 0.50” thick, formed nose plate and integral attachments for angling rams to receive 1” diameter pins.

Lift Chains – Two (2), 0.25” Grade 43 high test steel with 2,600 lb. working load limit, attached with 0.38” U-bolts.

Quadrant

Electrically welded, reinforced, 5” OD x 0.25” wall structural steel tube with 0.50” thick nose plates and integral attachments for angling rams to receive 1” diameter pins.

A-Frame to Quadrant Angle Pivot – 1” diameter Grade 5 bolt

Lift Frame

Lift frame to have provision for attachment of out front hydraulics and light kit.

Lift Arm – 0.25” x 2” formed bar welded with a 7 gauge steel cover.

Two Plow Stands – Self-storing and adjustable integrated into the plow attachment mechanism. Connecting hook and lever with integral 0.50” lock pin

Two piece lift frame with tubular construction

Lower lift frame to include drive in plow alignment horns

Mount

Custom designed, electrically welded, structural steel mounting readily adaptable to truck frame

Attached to truck with Grade 5 fasteners

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>3HH. 9' Readily Detachable Western Snow Plow System (Cont'd)</u>		
<u>Mount (Cont'd)</u>		
Vehicle, with mount attached, shall meet Federal Motor Vehicle Safety Standards by compliance or by vehicle manufacturing approval.	<input type="checkbox"/>	<input type="checkbox"/>
Removable receiver brackets for additional ground clearance.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Paint</u>		
Plow blade shall be made of shot blasted steel and cleaned with phosphate solutions and have baked-on red polyester powder coating.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Hydraulics</u>		
Electric solenoid activated and detachable with lift	<input type="checkbox"/>	<input type="checkbox"/>
Front mounted hydraulic unit consisting of a fixed displacement gear pump, with 1750 PSI system relief, direct tang driven by a 4 1/2" 12 volt DC motor	<input type="checkbox"/>	<input type="checkbox"/>
Pump with filter screen shall be immersed in a steel deep drawn reservoir	<input type="checkbox"/>	<input type="checkbox"/>
Main valve manifold shall contain three (3) side mounted and covered solenoid cartridge valves	<input type="checkbox"/>	<input type="checkbox"/>
Cushion relief valves set at 4,000 PSI and a quill adjustment screw to adjust blade drop speed	<input type="checkbox"/>	<input type="checkbox"/>
One (1) 1 1/2" x 8" lift ram and two (2) 1 1/2" x 12" double-acting angling rams each with a rod seal, a wiper ring and a packing nut.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic hoses shall be 1/4" steel braided SAE 100R1	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic unit shall be controlled by a soft touch, hand held in-cab control.	<input type="checkbox"/>	<input type="checkbox"/>
Control shall be equipped with an on/off and mode buttons and indicator lights	<input type="checkbox"/>	<input type="checkbox"/>
Control can be dash mounted.	<input type="checkbox"/>	<input type="checkbox"/>
Control shall provide a single button movement of angle right or left (hydraulically locked)	<input type="checkbox"/>	<input type="checkbox"/>
In-cab control shall be connected to valve manifold and to the motor through an auxiliary 12-volt multiplexed harness	<input type="checkbox"/>	<input type="checkbox"/>
Power and control harness to have quick disconnects and covers at the grille	<input type="checkbox"/>	<input type="checkbox"/>
Control shall allow plow to be in float when lowered	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3HH. 9' Readily Detachable Western Snow Plow System (Cont'd)

Hydraulics (Cont'd)

Unit shall be a "low side" drive system, which provides positive potential continuously with a switched ground to control the solenoids

Unit shall possess programmable security lockout feature

Unit shall possess programmable hydraulic soft stop feature

Unit shall possess programmable one touch float feature

Hydraulic fluid shall be MIL5606 equivalent standard transmission fluid (ATF) or aircraft hydraulic oil for low-temperature operation.

Cycle times: Lift, 2.0 seconds; Angle, 1.5 seconds

Unit shall stay with plow when plow is disconnected from truck

Lights

Night Hawk LED Plow Lights

Headlights

Comprised entirely of light emitting diodes using solid optic elements for low beam and high beam lights

A reflected LED light for the side lighting using EdgeView Technology

DRL/Park lights using white lights behind a frosted filter, turn signal utilizing amber lights behind the same frosted filter

Plow Removal

Blade assembly, A-Frame, Quadrant, Lift Frame with hydraulic unit all to be easily removed from truck as one complete unit

Accessories with Plow

Snow deflector

Curb guard right and left

Cab command Hand Held Control or Joystick (to be chosen by user Department at time of order)

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3II. Winch

- Current Model Year, or Newer Full Grille Guard, or Equal
- 12,000 lbs. Single Line
- Motor: Series Wound, 12V DC, 24V DC
- Electrical Controls: Contractor
- Remote Control: Remote Switch, 12' lead
- Geartrain: 3-stage planetary
- Gear ration: 216:1
- Clutch (free spooling): Rotating ring gear
- Brake: Automatic mechanical cone
- Drum Diameter/Length: 3.15"/9.0"
- Rope: 3/8" x 80' steel

12V DC Performance Specs:

Line Pull – Lbs.	Line Speed - Ft.	Motor Current	Pull by Layer/Lbs.
0	28.1	66 amps	1/12000
2000	14.2	141 amps	2/9894
4000	9.3	209 amps	3/8117
6000	7.8	272 amps	4/7324
8000	6.4	335 amps	
10000	4.3	401 amps	
12000	3.3	469 amps	

Winch Dimensions:

Integrated configuration: 24.25" L x 7.15" D x 10.52" H

Low-Profile configuration: 24.25" L x 7.15" D x 7.84" H

Mounting Bolt Pattern:

10" x 4.5"

Winch Mount Grille Guard/ Head Lamp Guard Kit

- Weight: 148 lbs.
- Dimensions: 89" x 37" x 38"
- 16,500 lb. straight line pull
- 14 gauge 1.5" steel tube
- Center Crossbars: 1.5" diameter tubing
- Removable headlight area cross bars
- Double hood bar design
- Powder coated black

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3II. Winch (Cont'd)

Warranty:

Material and Workmanship: Lifetime of winch

Electric Components: 7 years

Winch Mount Grille Guard: 3-year warranty

Fairlead: Roller

Recommended battery: 650 CCA minimum for winching

Battery Leads: 2 gauge, 72"

3JJ. Husky 815-Piece Mechanic's Tool Set

Key Features:

- Alloy Steel Construction
- SAE and Metric Sizes
- Item Weight: 178 lbs.

Tool Set

Husky Mechanic Tool Set (815 pieces) Part # H815MTS

Includes:

- 433 sockets
- 230 accessories
- 145 various wrenches (standard combination, stubby, ratcheting, stubby ratcheting, flex head ratcheting, reversible ratcheting and specialty)
- 7 ratchets,
- 72-tooth quick release ratchet

“No Questions/No Receipts” Lifetime warranty

Impact Sockets

Dewalt – DWMT 19242 1/2” Drive metric deep impact socket set (26 pieces)

Dewalt – DWMT 19239 1/2” Drive SAE Deep impact socket set (19 pieces)

Limited Lifetime Warranty

Impact Wrench

Milwaukee M18 Fuel 18 Volt Lithium Ion Brushless, Cordless 1/2” impact wrench with friction ring kit

One (1) 5.0 Ah battery

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>3JJ. Husky 815-Piece Mechanic's Tool Set (Cont'd)</u>		
Impact Wrench		
5 Year Warranty/Tool	<input type="checkbox"/>	<input type="checkbox"/>
3 Year Warranty/Battery	<input type="checkbox"/>	<input type="checkbox"/>
<u>3KK. Truck Steel Air/Hydraulic Service Jack</u>		
Material: Steel	<input type="checkbox"/>	<input type="checkbox"/>
Lifting Capacity: 22 Tons	<input type="checkbox"/>	<input type="checkbox"/>
Lifting Height Min: 8 ½"	<input type="checkbox"/>	<input type="checkbox"/>
Lifting Height Max: 17"	<input type="checkbox"/>	<input type="checkbox"/>
Power Raise: 4 5/8"	<input type="checkbox"/>	<input type="checkbox"/>
Chassis Length: 22"	<input type="checkbox"/>	<input type="checkbox"/>
Operation Type: Air	<input type="checkbox"/>	<input type="checkbox"/>
Retracted Length: 8 ½"	<input type="checkbox"/>	<input type="checkbox"/>
Handle Length" 47 3/8"	<input type="checkbox"/>	<input type="checkbox"/>
Standards: ANSI, ASME and PALD 2009	<input type="checkbox"/>	<input type="checkbox"/>
1-year Limited Warranty	<input type="checkbox"/>	<input type="checkbox"/>
<u>3LL. 1700 Peak Amp 12 Volt Jump Starter</u>		
1700 Peak Amps	<input type="checkbox"/>	<input type="checkbox"/>
425 Cranking Amps	<input type="checkbox"/>	<input type="checkbox"/>
PROFORMER Battery Technology	<input type="checkbox"/>	<input type="checkbox"/>
46 inch heavy-duty #2 AWG cables	<input type="checkbox"/>	<input type="checkbox"/>
Voltmeter providing charge status of onboard battery	<input type="checkbox"/>	<input type="checkbox"/>
DC outlet to power: 12 volt Item Weight: 18 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Product Dimensions: 16.3" x 14.1" x 5.1"	<input type="checkbox"/>	<input type="checkbox"/>
Voltage: 12 volts	<input type="checkbox"/>	<input type="checkbox"/>
1-year Limited Warranty	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS (Cont'd)</u>		
<u>3MM. Booster Jump Set</u>		
Grey with 25' Cables	<input type="checkbox"/>	<input type="checkbox"/>
1-year warranty: Free of defects in material and workmanship	<input type="checkbox"/>	<input type="checkbox"/>
<u>3NN. Special Paint Colors Not On the Standard Color Chart</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>3OO. Diagnostic Tools / Test Equipment</u>		
1. Successful bidder shall be required to supply between one (1) and three (3) complete sets of OEM 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)	<input type="checkbox"/>	<input type="checkbox"/>
2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software	<input type="checkbox"/>	<input type="checkbox"/>
3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid	<input type="checkbox"/>	<input type="checkbox"/>
4. All software installations and activations will be completed by the successful bidder at no cost to the County	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>
7. Training shall be provided on all items in this section at a specified County location	<input type="checkbox"/>	<input type="checkbox"/>

3PP. Two-Way Radio Power and Wiring Requirements for New Vehicles

Must be completed by Body Upfitter

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

<input type="checkbox"/>	<input type="checkbox"/>
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ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3QQ. Installation of County Supplied Two Way Radio and Accessories

Must be completed by Body Upfitter

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:

- #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.

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.

3RR. Technical Support

Technical Support is to be provided by factory authorized technical representatives and shall 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

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 shall be allowed only with consent of Vehicle Services

Total training hours shall be provided and no additional compensation will be considered

Actual time to be spent on each area will be by mutual agreement of the Vehicle Services Department and the successful bidder

ITEM #3 – CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH ENCLOSED UTILITY SERVICE BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

3RR. Technical Support (Cont'd)

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

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 education

Technical Support for Vehicle Services may be provided at the following fleet maintenance facility locations 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

Successful bidder shall provide Technical Support sessions for other Departments which will be held at an Ocean County location specified by the requesting department

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 #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS		
Dual Rear Wheels, Four Wheel Drive	<input type="checkbox"/>	<input type="checkbox"/>
60” Cab to Axle (CA)	<input type="checkbox"/>	<input type="checkbox"/>
7.3L V8 gasoline engine	<input type="checkbox"/>	<input type="checkbox"/>
40 gallon fuel tank	<input type="checkbox"/>	<input type="checkbox"/>
TorqShift transmission with PTO option	<input type="checkbox"/>	<input type="checkbox"/>
19,000 lb. GVWR	<input type="checkbox"/>	<input type="checkbox"/>
Cab shall be military grade aluminum alloy for longevity to the County in lieu of carbon steel	<input type="checkbox"/>	<input type="checkbox"/>
Frame to be fully boxed under cab and “C” channel behind cab for easy mounting of body	<input type="checkbox"/>	<input type="checkbox"/>
Oil life monitor, engine hour and engine idle hour meters	<input type="checkbox"/>	<input type="checkbox"/>
Air Conditioning	<input type="checkbox"/>	<input type="checkbox"/>
Airbags, frontal driver & passenger, side impact and side air curtains	<input type="checkbox"/>	<input type="checkbox"/>
TowCommand integrated trailer brake controller, manual telescoping trailer tow mirrors	<input type="checkbox"/>	<input type="checkbox"/>
7 wire trailer wiring harness (no plug)	<input type="checkbox"/>	<input type="checkbox"/>
AM/FM radio; SYNC Enhanced voice recognition communication and entertainment, 911 Assist, AppLink 4-2” LCD Center Screen, One (1) Smart charging USB Port SYNC	<input type="checkbox"/>	<input type="checkbox"/>
Power windows, locks, mirrors, and heated mirrors	<input type="checkbox"/>	<input type="checkbox"/>
Center High Mount Stop Lamp	<input type="checkbox"/>	<input type="checkbox"/>
240 amp HD alternator, 12V 750 CCA battery	<input type="checkbox"/>	<input type="checkbox"/>
Tilt and telescoping steering wheel	<input type="checkbox"/>	<input type="checkbox"/>
4.88 ratio limited slip axle	<input type="checkbox"/>	<input type="checkbox"/>
4 wheel power ABS brakes, front and rear disc, power steering, front and rear stabilizer bars	<input type="checkbox"/>	<input type="checkbox"/>
Quad-beam jewel-effect halogen headlamps, 5 roof marker lights	<input type="checkbox"/>	<input type="checkbox"/>
LT225/70R19.5G BSW Traction tires – six (6)	<input type="checkbox"/>	<input type="checkbox"/>
One (1) full sized spare tire mounted to wheel and one (1) jack	<input type="checkbox"/>	<input type="checkbox"/>
Chrome front bumper, front tow hooks	<input type="checkbox"/>	<input type="checkbox"/>
Chrome hub covers, front bumper grill	<input type="checkbox"/>	<input type="checkbox"/>
Power Sliding Rear glass with defrost – sc/cc only	<input type="checkbox"/>	<input type="checkbox"/>
Remote Start	<input type="checkbox"/>	<input type="checkbox"/>
Halogen Fog Lamps	<input type="checkbox"/>	<input type="checkbox"/>
40/20/40 split vinyl bench seat with center arm rest	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary power point, six (6) upfitter switches located overhead center Tachometer, speedometer, oil pressure, transmission temp, engine temp, and fuel gauge	<input type="checkbox"/>	<input type="checkbox"/>
Interval windshield wipers	<input type="checkbox"/>	<input type="checkbox"/>
Driver & passenger grab handles	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS (CONT'D)		
Standard XL Rear view camera and prep kit	<input type="checkbox"/>	<input type="checkbox"/>
3-year/36,000 mile bumper-to-bumper warranty on OE components	<input type="checkbox"/>	<input type="checkbox"/>
5-year/60,000 mile powertrain warranty	<input type="checkbox"/>	<input type="checkbox"/>
Shift on the fly	<input type="checkbox"/>	<input type="checkbox"/>
Cab steps, molded black (running boards)	<input type="checkbox"/>	<input type="checkbox"/>
Snow plow prep package	<input type="checkbox"/>	<input type="checkbox"/>
Single color to be selected from standard color chart at time of order	<input type="checkbox"/>	<input type="checkbox"/>
Undercoating – entire truck chassis, underside of cab and underside of added body (dump, utility, platform) shall be coated with Tectyl 2423 Haps Free Black, or Z Guard Product, a low VOC, High Solids, Emulsion Corrosion preventing coating	<input type="checkbox"/>	<input type="checkbox"/>
PLATFORM SPECIFICATIONS		
Platform body shall be a heavy duty body to be used on a single axle chassis	<input type="checkbox"/>	<input type="checkbox"/>
The hoist shall be an arm type hoist	<input type="checkbox"/>	<input type="checkbox"/>
The unit shall be a current design and production unit. Bidders shall submit current literature for body, hoist and snow plow proposed	<input type="checkbox"/>	<input type="checkbox"/>
During the fabrication period of the unit, the County of Ocean reserves the right to make interval inspections, as it deems necessary. If a bidder is submitting an alternate to what is referenced in the specifications, the proposal shall be accompanied by descriptive literature, marked to indicate the exact items to be furnished, electrical and hydraulic diagrams, along with engineering drawing documentation of the same. These specifications are not intended to be restrictive, but are meant to describe the type of unit required for use by the County of Ocean. These specifications address the minimum performance requirements of the Vehicle Services Department; the County will consider alternate products provided that they meet these minimum requirements.	<input type="checkbox"/>	<input type="checkbox"/>
If a bidder is basing his proposal on equipment other than what is specified and wishes the equipment he proposes to be considered as an “Approved Equivalent,” he shall submit, on a separate sheet in the exact format of the specifications contained herein, an item description, including the make, model and manufacturer’s name of that which he proposes to substitute. For purposes of comparison, include only those items on each sheet as given in these specifications. Such bidder shall also include, but not as a substitute for the above, manufacturer’s literature and specifications. If the bidder does not submit the description or deviations as indicated above, it will be understood that the bidder intends to supply the particular item as designated in the specifications and the County of Ocean will so demand. Substitutions will not be permitted after receipt of bid.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
PLATFORM SPECIFICATIONS (Cont'd)		
Body upfitter must provide installation of equipment bid	<input type="checkbox"/>	<input type="checkbox"/>
The platform body shall be of current design and compatible with the specified chassis	<input type="checkbox"/>	<input type="checkbox"/>
General: Heavy Hauler JR PHHJT-93B Platform Body with Options		
The platform body shall be a heavy hauler junior style to be used on specified single rear axle chassis. The complete body and removable sides must be supplied by a single manufacturer and be a proven standard production model.	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions		
<ul style="list-style-type: none"> • 111” Platform Length • 95.9” Platform Width • 40” High Permanently Installed Bulkhead with mesh window 	<input type="checkbox"/>	<input type="checkbox"/>
Construction		
Platform body shall be constructed of ASTM A36 standard with a minimum 36,000 PSI yield for minimal deflection in critical areas	<input type="checkbox"/>	<input type="checkbox"/>
Continuous weld seams to prevent entrapment of dirt and moisture with superior workmanship	<input type="checkbox"/>	<input type="checkbox"/>
Bulkhead		
Permanently installed bulkhead	<input type="checkbox"/>	<input type="checkbox"/>
E-Track installed height of lower and center rails on stake sides	<input type="checkbox"/>	<input type="checkbox"/>
Shall include 1 E-Track 2” wide ratchet strap	<input type="checkbox"/>	<input type="checkbox"/>
Bulkhead shall be constructed from 11 gauge high strength steel	<input type="checkbox"/>	<input type="checkbox"/>
Bulkhead shall include rust-resistant punched window	<input type="checkbox"/>	<input type="checkbox"/>
Bulkhead shall be secured to platform with one-piece box section corner post and two (2) 3” structural intermediate posts	<input type="checkbox"/>	<input type="checkbox"/>
Platform Portion		
Shall have 3/16” treadplate steel floor; steel over wood overlay is NOT ACCEPTABLE	<input type="checkbox"/>	<input type="checkbox"/>
Floor and understructure shall be undercoated for corrosion protection	<input type="checkbox"/>	<input type="checkbox"/>
Side and end rails shall be constructed from 6” structural steel channel	<input type="checkbox"/>	<input type="checkbox"/>
Sides and end rails shall face outward to accommodate binding straps and chains	<input type="checkbox"/>	<input type="checkbox"/>
Recessed heavy duty D-rings every 3 feet, on both sides of floor (street and curbside)	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
PLATFORM SPECIFICATIONS (CONT'D)		
Platform Substructure		
Long sills shall be constructed with 5” structural steel	<input type="checkbox"/>	<input type="checkbox"/>
Cross sills shall be constructed with 5.44” structural steel on 16” centers	<input type="checkbox"/>	<input type="checkbox"/>
Lighting		
LED lighting shall meet all FMVSS standards	<input type="checkbox"/>	<input type="checkbox"/>
The wiring harness shall be encased in a plastic loom and all wires shall be colored for ease of troubleshooting	<input type="checkbox"/>	<input type="checkbox"/>
The wire harness must have connectors that make it compatible to the specified chassis without splicing	<input type="checkbox"/>	<input type="checkbox"/>
The stop/tail/turn lights shall be mounted below the platform in non-corrosive containers	<input type="checkbox"/>	<input type="checkbox"/>
Accessories		
Sleeve Adapter HC3Z-19H282-A	<input type="checkbox"/>	<input type="checkbox"/>
Pintle Plate 3/4” thick with:		
<ul style="list-style-type: none"> • Class V Receiver Hitch • Pollak 7 pole RV style harness twist and lock plug, with weather pack back, Part #'s 11-998 (harness) and 11-916P (7 way plug) • Back up alarm 102 dB • 3-ball receiver tube 1 7/8”, 2”, 2 5/16” locking hitch pin • 6 ton receiver mount Pintle & 2” ball combination hitch <i>(Note: Not available when hoist and liftgate ordered together)</i> 	<input type="checkbox"/>	<input type="checkbox"/>
Two (2) pull-out ladders mounted behind the cab	<input type="checkbox"/>	<input type="checkbox"/>
Grab handle mounted to work in conjunction with ladders	<input type="checkbox"/>	<input type="checkbox"/>
Stone shields and plain black mud flaps		
Conspicuity enhancement – 2” red and white diamond grade reflective striping	<input type="checkbox"/>	<input type="checkbox"/>
DOT safety kit, first aid kit, and 10 lb. fire extinguisher w/bracket and safety triangles	<input type="checkbox"/>	<input type="checkbox"/>
OPTIONS		
4A. <u>Upgrade chassis to Super Cab chassis, retaining 60” Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4B. Upgrade chassis to Crew Cab chassis, retaining 60" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4C. Upgrade to Regular Cab chassis with 84" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4D. Upgrade to Super Cab chassis with 84" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4E. Upgrade to Crew Cab chassis with 84" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4F. Upgrade to Regular Cab chassis with 108" Cab to Axle</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4G. Upgrade to 12'3" Platform Body with Removable Stake for use with 84" CA Chassis</u>		
Upgrade specified platform body to Heavy Hauler PHHT-124B Platform Body with Removable Stake, for use with 84" CA chassis application. The complete body and removable sides must be supplied by a single manufacturer and be a proven standard production model.	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions		
147" Platform Length	<input type="checkbox"/>	<input type="checkbox"/>
95.9" Platform Height	<input type="checkbox"/>	<input type="checkbox"/>
40" High Permanently Installed Bulkhead with mesh window	<input type="checkbox"/>	<input type="checkbox"/>
40" High Removable Stake Sides	<input type="checkbox"/>	<input type="checkbox"/>
40" High Rear Swing Gates	<input type="checkbox"/>	<input type="checkbox"/>
<u>4H. Thieman TT Liftgate</u>		
Thieman Model TT 20ET or equal liftgate, to be used on non-dumping platforms	<input type="checkbox"/>	<input type="checkbox"/>
Steel Platform: 86" x 30" + 5"	<input type="checkbox"/>	<input type="checkbox"/>
Ramp is 5" fixed	<input type="checkbox"/>	<input type="checkbox"/>
Capacity: 2,000 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Rustproofing on platform frame	<input type="checkbox"/>	<input type="checkbox"/>
Operation: Power down, level ride	<input type="checkbox"/>	<input type="checkbox"/>
Lift Mechanism: Direct dual cylinder lift (no chains or cables)	<input type="checkbox"/>	<input type="checkbox"/>
Pivot Pins: Non-rotating stress proof materials with Nitrotec	<input type="checkbox"/>	<input type="checkbox"/>
Controls: Molded toggle switch control	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
4H. <u>Thieman TT Liftgate (Cont'd)</u>		
Bushings: Low maintenance replaceable bushings at all pivot points	<input type="checkbox"/>	<input type="checkbox"/>
Platform Surface: Steel skid resistant safety plate	<input type="checkbox"/>	<input type="checkbox"/>
Lift Cylinders: Dual cylinders 2” bore x 8” stroke, adjustable shaft for platform height adjustment	<input type="checkbox"/>	<input type="checkbox"/>
Power Unit: Electric hydraulic, 12 volt DC motor, enclosed	<input type="checkbox"/>	<input type="checkbox"/>
Electrical: Shall meet all TMC electrical requirements; includes 150 amp circuit breaker	<input type="checkbox"/>	<input type="checkbox"/>
Safety Latches: Dual automatic locking pins lock platform in stored position	<input type="checkbox"/>	<input type="checkbox"/>
Bed Height Range: 30” loaded to 50” empty	<input type="checkbox"/>	<input type="checkbox"/>
Installed Weight: 775 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Accessories: In-Cab Shut Off Switch and Light Kit		
<i>Extra fabrication for the hitch shall be included</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Note: with this liftgate option you lose rear gates.</i>	<input type="checkbox"/>	<input type="checkbox"/>
4I. <u>Thieman Stow-Away Standard Tailgate Liftgate</u>		
Thieman Model M20ET8436 or equal, to be used with non-dumping platforms with at least 84” CA, 36” of rear overhang, and 12’3” body	<input type="checkbox"/>	<input type="checkbox"/>
Steel Platform: 84” x 36” + 6”	<input type="checkbox"/>	<input type="checkbox"/>
Capacity: 2,000 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Operation: Power Up and Power Down; Molded toggle switch controls	<input type="checkbox"/>	<input type="checkbox"/>
Lift Cylinder: 3” bore x 10” stroke, adjustable shaft for platform height	<input type="checkbox"/>	<input type="checkbox"/>
Pivot Pins: Non-rotating stress proof material with Nitrotec	<input type="checkbox"/>	<input type="checkbox"/>
Bushings: Low maintenance replaceable bushings at all pivot points	<input type="checkbox"/>	<input type="checkbox"/>
Snubber: Kit reduces movement during travel	<input type="checkbox"/>	<input type="checkbox"/>
Power Unit: Electric hydraulic, 12 volt DC motor with solenoid cover	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4I. Thieman Stow-Away Standard Tailgate Liftgate (Cont'd)</u>		
Travel Position: Platform stores under truck body at rear of vehicle	<input type="checkbox"/>	<input type="checkbox"/>
Accessories with Platform: Dock Bumpers, Receiver Hitch Bracket, Rear Impact Guard	<input type="checkbox"/>	<input type="checkbox"/>
<u>4J. Under Body Hoist for Dumping Capabilities</u>		
Rugby SR-5020 truck hoist, or equal, tested at full-rated capacity for an extended life cycle	<input type="checkbox"/>	<input type="checkbox"/>
Class 50 Dump Hoist Approximate Weight: 710 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
10' Subframe	<input type="checkbox"/>	<input type="checkbox"/>
Double acting hydraulic pump	<input type="checkbox"/>	<input type="checkbox"/>
Cylinder Specifications: 6" bore, 20" stroke, 2 ½" diameter rod	<input type="checkbox"/>	<input type="checkbox"/>
Mounting Height: 11.3"	<input type="checkbox"/>	<input type="checkbox"/>
Capacity: 9.1-17 tons	<input type="checkbox"/>	<input type="checkbox"/>
Factory tested for durability and performance	<input type="checkbox"/>	<input type="checkbox"/>
Integrated Body Prop	<input type="checkbox"/>	<input type="checkbox"/>
Mounting Distance: 90.25"	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulics:		
Direct mount PTO and Pump. PTO must be a Chelsea 210 with direct mount pump and 9 gallon reservoir providing up to 4 gallons per minute.	<input type="checkbox"/>	<input type="checkbox"/>
Shall be operated by a rocker switch mounted in the dash	<input type="checkbox"/>	<input type="checkbox"/>
<u>4K. Dump-Through Liftgate</u>		
<i>Must be selected with Hoist Option if Gate Required</i>		
Anthony Liftgates Model #AR-DT 1800 dump-through liftgate	<input type="checkbox"/>	<input type="checkbox"/>
Durable roller chain drive	<input type="checkbox"/>	<input type="checkbox"/>
Marine duty potted toggle switch	<input type="checkbox"/>	<input type="checkbox"/>
Pressure compensated flow valve	<input type="checkbox"/>	<input type="checkbox"/>
Circuit protection	<input type="checkbox"/>	<input type="checkbox"/>
Level ride platform	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
4K. <u>Dump-Through Liftgate (Cont'd)</u>		
3-step powder coat	<input type="checkbox"/>	<input type="checkbox"/>
2-year mechanical and 2-year electrical and hydraulic parts and labor warranty	<input type="checkbox"/>	<input type="checkbox"/>
90" platform width	<input type="checkbox"/>	<input type="checkbox"/>
Cab cut off switch	<input type="checkbox"/>	<input type="checkbox"/>
Replaces swing gates or barn doors	<input type="checkbox"/>	<input type="checkbox"/>
4L. <u>40" Stake Sides (9'3" Body)</u>		
40" High Removable Stake Sides to fit base unit's 9'3" body	<input type="checkbox"/>	<input type="checkbox"/>
Reinforced, E-Track to be installed on lower and center rails of stake sides	<input type="checkbox"/>	<input type="checkbox"/>
Three (3) sets of E-Track 2" ratchet straps provided with sides	<input type="checkbox"/>	<input type="checkbox"/>
40" High Rear Swing Gates Color: Black	<input type="checkbox"/>	<input type="checkbox"/>
4M. <u>40" Stake Sides (12'3" Body)</u>		
<i>Same specifications as option 4L, but for longer 12'3" body option</i>	<input type="checkbox"/>	<input type="checkbox"/>
4N. <u>Color Option for 40" Stake Sides</u>		
Option to paint 40" stake sides any color different from standard black	<input type="checkbox"/>	<input type="checkbox"/>
<i>NOTE: Bidder MUST submit ONE price. Same price to be used for both body lengths</i>	<input type="checkbox"/>	<input type="checkbox"/>
4O. <u>52" Stake Sides (9'3" Body)</u>		
52" High Removable Stake Sides to fit base unit's 9'3" body	<input type="checkbox"/>	<input type="checkbox"/>
Reinforced, E-Track to be installed on lower and center rails of stake sides	<input type="checkbox"/>	<input type="checkbox"/>
Three (3) sets of E-Track 2" ratchet straps provided with sides	<input type="checkbox"/>	<input type="checkbox"/>
52" High Rear Swing Gates Upgrade bulkhead to 52"	<input type="checkbox"/>	<input type="checkbox"/>
Color: Black	<input type="checkbox"/>	<input type="checkbox"/>
4P. <u>52" Stake Sides (12'3" Body)</u>		
<i>Same specifications as option 4O, but for longer 12'3" body option</i>	<input type="checkbox"/>	<input type="checkbox"/>
4Q. <u>Color Option for 52" Stake Sides</u>		
Option to paint 52" stake sides any color different from standard black	<input type="checkbox"/>	<input type="checkbox"/>
<i>NOTE: Bidder MUST submit ONE price. Same price to be used for both body lengths</i>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4R. 40" Grain Sides (9'3" Body)</u>		
40" High one-piece 14 gauge sides with stakes that adapt to specified body	<input type="checkbox"/>	<input type="checkbox"/>
40" High barn doors, double opening	<input type="checkbox"/>	<input type="checkbox"/>
2 bars that fit across the body to stop the spreading of the sides	<input type="checkbox"/>	<input type="checkbox"/>
Color: Black	<input type="checkbox"/>	<input type="checkbox"/>
<u>4S. 40" Grain Sides (12'3" Body)</u>		
<i>Same specifications as option 4R, but for longer 12'3" body option</i>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4T. Color Option for 40" Grain Sides</u>		
Option to paint 40" grain sides any color different from standard black	<input type="checkbox"/>	<input type="checkbox"/>
<i>NOTE: Bidder MUST submit ONE price. Same price to be used for both body lengths</i>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4U. 52" Grain Sides (9'3" Body)</u>		
52" High one-piece 14 gauge sides with stakes that adapt to specified body	<input type="checkbox"/>	<input type="checkbox"/>
52" High barn doors, double opening	<input type="checkbox"/>	<input type="checkbox"/>
2 bars that fit across the body to stop the spreading of the sides	<input type="checkbox"/>	<input type="checkbox"/>
Upgrade bulkhead to 52"	<input type="checkbox"/>	<input type="checkbox"/>
Color: Black	<input type="checkbox"/>	<input type="checkbox"/>
<u>4V. 52" Grain Sides (12'3" Body)</u>		
<i>Same specifications as option 4U, but for longer 12'3" body option</i>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4W. Color Option for 52" Grain Sides</u>		
Option to paint 52" grain sides any color different from standard black	<input type="checkbox"/>	<input type="checkbox"/>
<i>NOTE: Bidder MUST submit ONE price. Same price to be used for both body lengths</i>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4X. Light Package 1</u>		
Whelen LED Lights (Colors to be indicated at time of order); or equal	<input type="checkbox"/>	<input type="checkbox"/>
Body upfitter must provide installation of lights so they work in conjunction with the equipment on truck:		
<ul style="list-style-type: none"> • Four (4) Micron Series Super LED in grill • Four (4) 4" ovals on body sides, two (2) each side angled out for oncoming traffic in tissue boxes • Two (2) Micron Series at rear of body 	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

4Y. Light Package 2

Requires stake or grain sides and dump-through liftgate

Whelen LED Lights (Colors to be indicated at time of order), or equal
Body upfitter must provide installation of lights so they work in conjunction with the equipment on truck:

- Four (4) Micron Series Super LED in grille
- Four (4) 4” ovals on body sides, two (2) each side angled out for oncoming traffic in tissue boxes
- Four (4) rear of body - micron series to work in conjunction with liftgate

4Z. Go Light Work Lights, Model 30004ST

Two (2) Go Light Stryker Work Lights

Permanently mounted on bulkhead

6000 maximum lumens

5 amp draw

9-32 VDC input

Mounted to telescopic poles

4AA. I-Pack Tool Box

Knapheide I-Pack Tool Box mounted between cab and body

Painted to specified color at time of order, base coat and clear coat

Stainless steel continuous hinges, **NO EXCEPTION**

14 gauge Galvaneal shell, E-coat primer, and latches with ABS pans for superior corrosion resistance

4BB. 30” Under Body Tool Box

Weatherguard Tread Plate Aluminum 631-0-02

30 1/8” x 18” x 18”

5.4 cubic feet

Door opening: 13 1/2” high and 25 1/4” wide

Stainless steel D-handles

4CC. 48” Under Body Tool Box

Weatherguard Defender Series 300501-9-01, or equal

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4CC. 48" Under Body Tool Box (Cont'd)</u>		
48" x 19" x 19"	<input type="checkbox"/>	<input type="checkbox"/>
9.5 cubic feet	<input type="checkbox"/>	<input type="checkbox"/>
Lock System – Push Button	<input type="checkbox"/>	<input type="checkbox"/>
Material: Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
<u>4DD. Air Compressor, 70 CFM</u>		
VMAC VR70 Underhood Rotary Screw Compressor	<input type="checkbox"/>	<input type="checkbox"/>
70 CFM, 175 PSI	<input type="checkbox"/>	<input type="checkbox"/>
3 gallon receiver tank	<input type="checkbox"/>	<input type="checkbox"/>
Control panel	<input type="checkbox"/>	<input type="checkbox"/>
Throttle control	<input type="checkbox"/>	<input type="checkbox"/>
Filter/Regulator/Lubricator	<input type="checkbox"/>	<input type="checkbox"/>
Relief/Shut-Off valves with all required fittings	<input type="checkbox"/>	<input type="checkbox"/>
Hose Reel: 50' of ½" I.D. airline mounted under body (unless specified otherwise at time of order)	<input type="checkbox"/>	<input type="checkbox"/>
<u>4EE. Air Compressor, 150 CFM</u>		
VMAC VR150 Underhood Rotary Screw Compressor	<input type="checkbox"/>	<input type="checkbox"/>
150 CFM, 175 PSI	<input type="checkbox"/>	<input type="checkbox"/>
3 gallon receiver tank	<input type="checkbox"/>	<input type="checkbox"/>
Control panel	<input type="checkbox"/>	<input type="checkbox"/>
Throttle control	<input type="checkbox"/>	<input type="checkbox"/>
Filter/Regulator/Lubricator	<input type="checkbox"/>	<input type="checkbox"/>
Relief/Shut-Off valves with all required fittings	<input type="checkbox"/>	<input type="checkbox"/>
Hose Reel: 50' of ½" I.D. airline mounted under body (unless specified otherwise at time of order)	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
4FF. <u>Whelen LED 54" Light Bar</u>		
Light Bar LED 54", all modules filled with amber LED OR Red and Blue Modules in lieu of amber lights for Sheriff's Department or OEM (to be indicated at time of order)	<input type="checkbox"/>	<input type="checkbox"/>
Rear traffic advisor with flashing capabilities	<input type="checkbox"/>	<input type="checkbox"/>
Alley lights and takedowns are to be white	<input type="checkbox"/>	<input type="checkbox"/>
Twelve (12) scan lock flash patterns	<input type="checkbox"/>	<input type="checkbox"/>
Controller	<input type="checkbox"/>	<input type="checkbox"/>
Brackets for mounting on safety back rack or bulkhead of platform	<input type="checkbox"/>	<input type="checkbox"/>
4GG. <u>9' Readily Detachable Western Snow Plow System</u>		
Blade Assembly		
Moldboard– 12 gauge (0.104") steel sheet formed to a 17.3" radius with a 1.76" diameter top curl	<input type="checkbox"/>	<input type="checkbox"/>
Ribs – Eight (8), 0.25" thick, variable profile, electrically welded to sheet, torsion tube and 0.25" thick, high strength steel base channel	<input type="checkbox"/>	<input type="checkbox"/>
Torsion Tube – 2" diameter, full width, electrically welded to all eight ribs	<input type="checkbox"/>	<input type="checkbox"/>
Cutting Edge – Reversible 0.5" x 6" high carbon steel C1080 attached with ten (10) 0.63" Grade 5 carriage bolts	<input type="checkbox"/>	<input type="checkbox"/>
Disc Shoes – Two (2), full rotation, height adjustable, Austempered Ductile Iron shoes with integral 1" diameter shaft secured to blade with lynch pins	<input type="checkbox"/>	<input type="checkbox"/>
Shoe brackets shall be welded to vertical ribs Blade Trip – 50° full blade trip	<input type="checkbox"/>	<input type="checkbox"/>
Trip Springs – Four (4), 2.38" OD x 0.39" diameter, C1060, hard drawn, stress relieved wire, preloaded, with 0.63" x 4" eyebolts	<input type="checkbox"/>	<input type="checkbox"/>
Shock Absorbers – Two (2), 5" stroke, shielded shock absorbers to retard extension velocity and dampen blade trip return	<input type="checkbox"/>	<input type="checkbox"/>
Blade Trip Pivot – Three (3) 0.75" diameter steel pins	<input type="checkbox"/>	<input type="checkbox"/>
Blade Guides – Two (2) highly visible, vinyl coated, spring wound, with replaceable flags	<input type="checkbox"/>	<input type="checkbox"/>
Plow Angling – 30° right and left	<input type="checkbox"/>	<input type="checkbox"/>
A-Frame		
Electrically welded, reinforced, 3" x 3" x 0.19" wall structural steel side tubes with 0.50" thick, formed nose plate and integral attachments for angling rams to receive 1" diameter pins	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
4GG. 9' Readily Detachable Western Snow Plow System (Cont'd)		
A-Frame (Cont'd)		
Lift Chains – Two (2), 0.25" Grade 43 high test steel with 2,600 lb. working load limit, attached with 0.38" U-bolts	<input type="checkbox"/>	<input type="checkbox"/>
Quadrant		
Electrically welded, reinforced, 5" OD x 0.25" wall structural steel tube with 0.50" thick nose plates and integral attachments for angling rams to receive 1" diameter pins	<input type="checkbox"/>	<input type="checkbox"/>
A-Frame to Quadrant Angle Pivot – 1" diameter Grade 5 bolt	<input type="checkbox"/>	<input type="checkbox"/>
Lift Frame		
Lift frame to have provision for attachment of out front hydraulics and light kit Lift Arm – 0.25" x 2" formed bar welded with a 7 gauge steel cover	<input type="checkbox"/>	<input type="checkbox"/>
Two Plow Stands – Self-storing and adjustable integrated into the plow attachment Mechanism	<input type="checkbox"/>	<input type="checkbox"/>
Connecting hook and lever with integral with a 0.50" lock pin	<input type="checkbox"/>	<input type="checkbox"/>
Lift Frame – Two piece lift frame with tubular construction	<input type="checkbox"/>	<input type="checkbox"/>
Lower lift frame to include drive in plow alignment horns	<input type="checkbox"/>	<input type="checkbox"/>
Mount		
Custom designed, electrically welded, structural steel mounting readily adaptable to truck frame	<input type="checkbox"/>	<input type="checkbox"/>
Attached to truck with Grade 5 fasteners	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle, with mount attached, shall meet Federal Motor Vehicle Safety Standards by compliance or by vehicle manufacturing approval	<input type="checkbox"/>	<input type="checkbox"/>
Removable receiver brackets for additional ground clearance	<input type="checkbox"/>	<input type="checkbox"/>
Paint		
Plow blade shall be made of shot blasted steel and cleaned with phosphate solutions and have baked-on red polyester powder coating	<input type="checkbox"/>	<input type="checkbox"/>
A-Frame, Quadrant and Lift Frame – shall be made of shot blasted steel and cleaned with phosphate solution and have baked-on black powder coating	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulics		
Electric solenoid activated and detachable with lift	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4GG. 9' Readily Detachable Western Snow Plow System (Cont'd)</u>		
Hydraulics (Cont'd)		
Front mounted hydraulic unit consisting of a fixed displacement gear pump with 1750 PSI system relief, direct tang driven by a 4 ½" 12 volt DC motor	<input type="checkbox"/>	<input type="checkbox"/>
Pump with filter screen shall be immersed in a steel deep drawn reservoir	<input type="checkbox"/>	<input type="checkbox"/>
Main valve manifold shall contain three (3) side mounted and covered solenoid cartridge valves	<input type="checkbox"/>	<input type="checkbox"/>
Secondary valve shall contain two (2) driver side and one (1) curb side mounted and covered solenoid cartridge valves	<input type="checkbox"/>	<input type="checkbox"/>
Cushion relief valves set at 4,000 PSI and a quill adjustment screw to adjust blade drop speed	<input type="checkbox"/>	<input type="checkbox"/>
One (1) - 1 ½" x 8" lift ram and two (2) 1 1/2" x 12" angling rams each with a rod seal, a wiper ring and a gland nut	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic hoses shall be ¼" steel braided SAE 100R1	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic unit shall be controlled by a soft touch, hand held in-cab control	<input type="checkbox"/>	<input type="checkbox"/>
Control shall be equipped with an on/off and mode buttons and indicator lights	<input type="checkbox"/>	<input type="checkbox"/>
Control can be dash mounted	<input type="checkbox"/>	<input type="checkbox"/>
In-cab control shall be connected to valve manifold and to the motor through an auxiliary 12-volt multiplexed harness	<input type="checkbox"/>	<input type="checkbox"/>
Power and control harness to have quick disconnects and covers at the grille	<input type="checkbox"/>	<input type="checkbox"/>
Control shall allow plow to be in float when lowered and also be able to angle left or right when in float	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall be a "low side" drive system, which provides positive potential continuously with a switched ground to control the solenoids	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall possess programmable security lockout feature	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall possess programmable hydraulic soft stop feature	<input type="checkbox"/>	<input type="checkbox"/>
Unit shall possess programmable one touch float feature	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4GG. 9' Readily Detachable Western Snow Plow System (Cont'd)</u>		
Hydraulics (Cont'd)		
Hydraulic fluid shall be MIL5606 equivalent standard transmission fluid (ATF) or aircraft hydraulic oil for low-temperature operation	<input type="checkbox"/>	<input type="checkbox"/>
Cycle times: Lift, 2.0 seconds; Angle, 5.0 seconds	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic unit shall stay with plow when plow is disconnected from truck	<input type="checkbox"/>	<input type="checkbox"/>
Lights		
Night Hawk LED Plow Lights	<input type="checkbox"/>	<input type="checkbox"/>
Headlights		
Comprised entirely of light emitting diodes using solid optic elements for low beam and high beam lights	<input type="checkbox"/>	<input type="checkbox"/>
A reflected LED light for the side lighting using	<input type="checkbox"/>	<input type="checkbox"/>
EdgeView Technology	<input type="checkbox"/>	<input type="checkbox"/>
DRL/Park lights using white lights behind a frosted filter, turn signal utilizing amber lights behind the same frosted filter	<input type="checkbox"/>	<input type="checkbox"/>
Plow Removal		
Blade assembly, A-Frame, Quadrant, Lift Frame with hydraulic unit all to be easily removed in one step from truck as one complete unit	<input type="checkbox"/>	<input type="checkbox"/>
Accessories with Plow		
<ul style="list-style-type: none"> • Snow deflector • Curb guard right and left • Cab command Hand Held Joystick 	<input type="checkbox"/>	<input type="checkbox"/>
<u>4HH. Trailblazer 325 Air Pak</u>		
<ul style="list-style-type: none"> • Model 907549003, or equal • Battery Charge/Crank Assist with 25' Battery charge/jump cable Part #300422 • Independent Weld and Generator • Industrial Rotary Screw Air Compressor • Air Cooler Separator • RTI Filter • Desiccant Air Dryer • Protective Cover • Wireless Remote Hand Control 	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
4II. <u>Slide Bar with Straps</u>		
3' slide bar with three (3) 3" ratchet straps mounted under body ratchet bar included	<input type="checkbox"/>	<input type="checkbox"/>
4JJ. <u>Stainless Steel V-Box, Hydraulically Operated Hydraulics</u>		
PTO must be a Chelsea 210 with direct mount pump and 14 gallon reservoir providing up to 9 gallons per at 1000 rpm, must be a modular manifold cartridge type valve with five (5) year warranty	<input type="checkbox"/>	<input type="checkbox"/>
Shall be operated by the chassis provided upfitter switches	<input type="checkbox"/>	<input type="checkbox"/>
General:		
Self-Contained compact material spreader with a capacity of 3.0 cubic yards suitable for mounting on specified truck	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions:		
<ul style="list-style-type: none"> • Outside Hopper Length 9 feet • Outside Hopper Width 50 feet • Overall Spreader Length 130 inches • Overall Spreader Height 71 inches with long chute or 59 inches with short chute • Capacity 3.0 cubic yards • Weight 645 lbs 	<input type="checkbox"/>	<input type="checkbox"/>
Hopper Construction:		
Shall be wrap around and spot welded inside and out	<input type="checkbox"/>	<input type="checkbox"/>
Shall have 16 gauge sides and 16 gauge ends, with the slope closest to the sill at 45° and a bend half way up that adds an additional 13° for a total of 58° from horizontal at the top	<input type="checkbox"/>	<input type="checkbox"/>
Four lift point on each corner for easy handling Three 16 gauge vertical supports on each side	<input type="checkbox"/>	<input type="checkbox"/>
Full-length chain guards shall be 14 gauge steel and welded in place	<input type="checkbox"/>	<input type="checkbox"/>
Floor shall be 14 gauge steel. The shell is to be comprised of 201 Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor:		
Shall be drag bar chain type	<input type="checkbox"/>	<input type="checkbox"/>
Overall shall be 100% constructed of 14 gauge 201 stainless steel with a 16 3/4" wide pintle chain conveyor system	<input type="checkbox"/>	<input type="checkbox"/>
Steel pintle chain with 3/16" x 3/4" cross bars	<input type="checkbox"/>	<input type="checkbox"/>
Chain strength is 11,000 lbs. per strand; 22,000 lbs. total	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4JJ. Stainless Steel V-Box, Hydraulically Operated Hydraulics (Cont'd)</u>		
Conveyor (Cont'd)		
Idler and drive sprockets shall be 6 tooth cast iron on 1 1/8" shafts	<input type="checkbox"/>	<input type="checkbox"/>
The sprockets and idler shaft are to be plated to inhibit corrosion		
The chain shall have 3 1/2" adjustment range	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor Drive/Engine:		
The dual hydraulic motors shall generate 8.75 HP when supplied with 10 gpm @ 1500 PSI	<input type="checkbox"/>	<input type="checkbox"/>
It shall be 2.8 CIR "H" series Char Lynn or equivalent hydraulic gerotor type with 1/2" npt port, SAE 2B 2-bolt mounting flange and 1" diameter output shaft with .406 diameter cross hole	<input type="checkbox"/>	<input type="checkbox"/>
The pressure rating shall be 2400 PSI max intermittent and 1800 PSI continuous	<input type="checkbox"/>	<input type="checkbox"/>
The flow rating shall be 14 GPM max intermittent and 12 GPM continuous	<input type="checkbox"/>	<input type="checkbox"/>
Drive shaft shall have heavy-duty, sealed, self-aligning ball bearing, equipped with grease fitting	<input type="checkbox"/>	<input type="checkbox"/>
The idler shaft shall have self-aligning 1 1/8" diameter, 2 bolt flange, ball bearings	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor gear case housing shall be cast iron	<input type="checkbox"/>	<input type="checkbox"/>
Gear shall be aluminum bronze	<input type="checkbox"/>	<input type="checkbox"/>
Worm gear shall be hardened steel and ground		
Ratio shall be 20:1 with one inch input shaft and 1 1/8" output shaft on tapered roller bearings	<input type="checkbox"/>	<input type="checkbox"/>
Input shaft of gear case to be drive by a chain belt from engine	<input type="checkbox"/>	<input type="checkbox"/>
Chute Assembly:		
Spinner disk shall be polyurethane, 15.5 inches in diameter, and with four fins	<input type="checkbox"/>	<input type="checkbox"/>
The spinner disk is attached to a 1" diameter plated shaft driven by a pulley and belt from the gear case input shaft	<input type="checkbox"/>	<input type="checkbox"/>
Material is guided from the conveyor to the spinner disk through an enclosed 14 gauge chute housing	<input type="checkbox"/>	<input type="checkbox"/>
Two internal baffles and a stainless steel circular deflector housing enclosing a stainless steel adjustable circular deflector give complete control of spread direction	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4JJ. Stainless Steel V-Box, Hydraulically Operated Hydraulics (Cont'd)</u>		
Chute Assembly (Cont'd)		
Width of spread up to 40'	<input type="checkbox"/>	<input type="checkbox"/>
Circular deflector housing protects truck bumper and under parts	<input type="checkbox"/>	<input type="checkbox"/>
The chute shall be fastened with two pins on a hinged housing	<input type="checkbox"/>	<input type="checkbox"/>
Feed Gate:		
Shall be lever operated, friction lock with sight gauge for accurate adjustment	<input type="checkbox"/>	<input type="checkbox"/>
Standard Features:		
Stainless steel hardware throughout	<input type="checkbox"/>	<input type="checkbox"/>
Shall include heavy-duty top screen constructed from 1/4" diameter rod, Inverted Vee, Hold down kit	<input type="checkbox"/>	<input type="checkbox"/>
Accessories:		
Spreader Light	<input type="checkbox"/>	<input type="checkbox"/>
Rear Stainless steel light bar: stop/tail/turn/reverse with amber strobes 6" extension kit	<input type="checkbox"/>	<input type="checkbox"/>
Chain and turnbuckle tie downs	<input type="checkbox"/>	<input type="checkbox"/>
EZ Spread Controller:		
The spreader controls shall be capable of operating a granular spreader with auger/conveyor, spinner and pre-wet (or anti-ice) output channels	<input type="checkbox"/>	<input type="checkbox"/>
Each function can be operated individually or all simultaneously	<input type="checkbox"/>	<input type="checkbox"/>
In-cab controller must be an automotive grade product	<input type="checkbox"/>	<input type="checkbox"/>
Amusement or gaming products will not be accepted	<input type="checkbox"/>	<input type="checkbox"/>
The liquid channel can operate an electric or hydraulic pre-wet system	<input type="checkbox"/>	<input type="checkbox"/>
Controller shall also have an optional dash mount, stand-alone, or console mounting options	<input type="checkbox"/>	<input type="checkbox"/>
The user shall have the ability to adjust the speed of each function and the amount of granular material or liquid with the soft touch key pad	<input type="checkbox"/>	<input type="checkbox"/>
The printed PVC soft touch membrane switch interface shall be tested to 5 million impressions for long life and durability	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4JJ. Stainless Steel V-Box, Hydraulically Operated Hydraulics (Cont'd)</u>		
<u>EZ Spread Controller: (Cont'd)</u>		
Touch pad to control granular feed rate or spinner speed	<input type="checkbox"/>	<input type="checkbox"/>
All set-up and programming shall be completed using the controller soft key pad with no programming keyboard	<input type="checkbox"/>	<input type="checkbox"/>
Controller shall have the ability to connect the feed rate and spinner function for single stroke simultaneous start up	<input type="checkbox"/>	<input type="checkbox"/>
Controller must offer a “Spot Blast” feature	<input type="checkbox"/>	<input type="checkbox"/>
Spot Blast will activate the Blast with a single keystroke when the controller is paused	<input type="checkbox"/>	<input type="checkbox"/>
Adjustable valve unseat mode must be a standard feature	<input type="checkbox"/>	<input type="checkbox"/>
The spinner shall increase during Blast; must also be an adjustable option	<input type="checkbox"/>	<input type="checkbox"/>
The spreader control shall be capable of operating each function in open loop Mode	<input type="checkbox"/>	<input type="checkbox"/>
Spreader must be field configurable to operate either: Ground Speed Oriented or No Ground Speed (simple manual operation) with a single switch setting	<input type="checkbox"/>	<input type="checkbox"/>
Controller shall also offer a settable	<input type="checkbox"/>	<input type="checkbox"/>
Blast Feature that will function during Ground	<input type="checkbox"/>	<input type="checkbox"/>
Speed Triggered Operation	<input type="checkbox"/>	<input type="checkbox"/>
The controller must include integrated protection and diagnosis systems with safety features incorporated into the system	<input type="checkbox"/>	<input type="checkbox"/>
Power Safe Wiring Design: For safety reasons, grounding or cutting any wire at any point between any valve coil and the controller must not cause any valve to actuate	<input type="checkbox"/>	<input type="checkbox"/>
One lead from each hydraulic valve coil must be wired to a common ground point System shall be capable of self-diagnosis using the pause indicator LED light	<input type="checkbox"/>	<input type="checkbox"/>
All connections inside the hydraulic valve/electronic control junction box must be IP68 rated	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
<u>4JJ. Stainless Steel V-Box, Hydraulically Operated Hydraulics (Cont'd)</u>		
<u>EZ Spread Controller: (Cont'd)</u>		
All connectors shall be rated as “6x” – dust proof	<input type="checkbox"/>	<input type="checkbox"/>
All connectors shall be rated as “x8” – protected against the effects of permanent submersion in water as well as showing no corrosion after 500 hours in a 35°C salt spray	<input type="checkbox"/>	<input type="checkbox"/>
System operating temperature range -20 to +40°C	<input type="checkbox"/>	<input type="checkbox"/>
All connections shall be labeled with appropriate descriptions for each connection to individual solenoids of the hydraulic actuating cylinders	<input type="checkbox"/>	<input type="checkbox"/>
Controller shall have a five (5) year warranty	<input type="checkbox"/>	<input type="checkbox"/>
<u>4KK. Diagnostic Tools / Test Equipment</u>		
1. Successful bidder shall be required to supply between one (1) and three (3) complete sets of OEM 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)	<input type="checkbox"/>	<input type="checkbox"/>
2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software	<input type="checkbox"/>	<input type="checkbox"/>
3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid	<input type="checkbox"/>	<input type="checkbox"/>
4. All software installations and activations will be completed by the successful bidder at no cost to the County	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>
7. Training shall be provided on all items in this section at a specified County Location	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #4 – CURRENT MODEL YEAR, OR NEWER FORD F550 REGULAR CAB WITH PLATFORM BODY, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
OPTIONS (Cont'd)		
4NN. <u>Technical Support (Cont'd)</u>		
Technical representative(s) shall be made available for a total of 180 training/support hours (anticipated to be scheduled in six (6) hour blocks)	<input type="checkbox"/>	<input type="checkbox"/>
Shorter training days shall be allowed only with consent of Vehicle Services	<input type="checkbox"/>	<input type="checkbox"/>
Total training hours shall be provided and no additional compensation will be considered	<input type="checkbox"/>	<input type="checkbox"/>
Actual time to be spent on each area will be by mutual agreement of the Vehicle Services Department and the successful bidder	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>
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 education	<input type="checkbox"/>	<input type="checkbox"/>
Technical Support for Vehicle Services may be provided at the following fleet maintenance facility locations as scheduled by a Vehicle Services Department representative:		
<ul style="list-style-type: none"> • 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 	<input type="checkbox"/>	<input type="checkbox"/>
Successful bidder shall provide Technical Support sessions for other Departments which will be held at an Ocean County location specified by the requesting Department	<input type="checkbox"/>	<input type="checkbox"/>
Training at the successful bidder's site, rather than the designated locations, will be by mutual consent only	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS		
Current Model Year, or newer Ford F550 Regular Cab with Steel Dump Body	<input type="checkbox"/>	<input type="checkbox"/>
Dual Rear Wheels, Four Wheel Drive	<input type="checkbox"/>	<input type="checkbox"/>
84” Cab to Axle (CA)	<input type="checkbox"/>	<input type="checkbox"/>
7.3L V8 gasoline engine	<input type="checkbox"/>	<input type="checkbox"/>
40 gallon fuel tank	<input type="checkbox"/>	<input type="checkbox"/>
TorqShift transmission with PTO option 19,000 lb. GVWR	<input type="checkbox"/>	<input type="checkbox"/>
Cab shall be military grade aluminum alloy for longevity to the County in lieu of carbon steel	<input type="checkbox"/>	<input type="checkbox"/>
Frame shall be fully boxed under cab and “C” channel behind cab	<input type="checkbox"/>	<input type="checkbox"/>
Oil life monitor, engine hour and engine idle hour meters	<input type="checkbox"/>	<input type="checkbox"/>
Air Conditioning	<input type="checkbox"/>	<input type="checkbox"/>
Airbags, frontal driver & passenger, side impact and side air curtains	<input type="checkbox"/>	<input type="checkbox"/>
TowCommand integrated trailer brake controller, manual telescoping trailer tow mirrors	<input type="checkbox"/>	<input type="checkbox"/>
7 wire trailer wiring harness (no plug)	<input type="checkbox"/>	<input type="checkbox"/>
AM/FM radio, SYNC4 Enhanced voice recognition communication and entertainment, 911 Assist, AppLink 4-2” LCD Center Screen, One (1) Smart charging USB Port	<input type="checkbox"/>	<input type="checkbox"/>
Power windows, locks, mirrors, and heated mirrors	<input type="checkbox"/>	<input type="checkbox"/>
Center High Mount Stop Lamp	<input type="checkbox"/>	<input type="checkbox"/>
240 amp HD alternator, 12V 750 CCA battery	<input type="checkbox"/>	<input type="checkbox"/>
Tilt and telescoping steering wheel	<input type="checkbox"/>	<input type="checkbox"/>
4.88 ratio limited slip axle	<input type="checkbox"/>	<input type="checkbox"/>
4 wheel power ABS brakes, front and rear disc, power steering, front and rear stabilizer bars	<input type="checkbox"/>	<input type="checkbox"/>
Quad-beam jewel-effect halogen headlamps, five (5) roof marker lights	<input type="checkbox"/>	<input type="checkbox"/>
LT225/70R19.5G BSW Traction tires – six (6)	<input type="checkbox"/>	<input type="checkbox"/>
One (1) full sized spare tire mounted to wheel and one (1) jack	<input type="checkbox"/>	<input type="checkbox"/>
Chrome front bumper, front tow hooks	<input type="checkbox"/>	<input type="checkbox"/>
Chrome hub covers, front bumper grill	<input type="checkbox"/>	<input type="checkbox"/>
Power Sliding Rear glass with defrost – sc/cc only	<input type="checkbox"/>	<input type="checkbox"/>
Remote Start	<input type="checkbox"/>	<input type="checkbox"/>
Halogen Fog Lamps	<input type="checkbox"/>	<input type="checkbox"/>
40/20/40 split vinyl bench seat with center arm rest	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary power point, six (6) upfitter switches located overhead center		
Tachometer, speedometer, oil pressure, transmission temp, engine temp, and fuel gauge	<input type="checkbox"/>	<input type="checkbox"/>
Interval windshield wipers	<input type="checkbox"/>	<input type="checkbox"/>
Driver & passenger grab handles	<input type="checkbox"/>	<input type="checkbox"/>
Standard XL Rear view camera and prep kit	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS (CONT'D)		
3-year/36,000 mile bumper-to-bumper warranty on OE components	<input type="checkbox"/>	<input type="checkbox"/>
5-year/60,000 mile powertrain warranty	<input type="checkbox"/>	<input type="checkbox"/>
Shift on the fly	<input type="checkbox"/>	<input type="checkbox"/>
Cab steps, molded black (running boards)	<input type="checkbox"/>	<input type="checkbox"/>
Snow plow prep package	<input type="checkbox"/>	<input type="checkbox"/>
Single color to be selected from standard color chart at time of order	<input type="checkbox"/>	<input type="checkbox"/>
Undercoating – entire truck chassis, underside of cab and underside of added body (dump, utility, platform) shall be coated with Tectyl 2423 Haps Free Black, or Z Guard Product, a low VOC, High Solids, Emulsion Corrosion preventing coating	<input type="checkbox"/>	<input type="checkbox"/>
SWITCH-N-GO SPECIFICATIONS		
This specification is for a detachable truck body system for vehicles with a GVWR less than 26,000 lbs. This system shall be run off a hydraulic system for hoist and winch; electric is NOT ACCEPTABLE .	<input type="checkbox"/>	<input type="checkbox"/>
For emergency purposes, the body-upfitter must have a facility in New Jersey for parts and service.	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL		
Switch-N-Go 11' Hydraulic Hoist System. Model 11-4016-ISH-10T GEN II 15,000 lbs. Winch Loading Capacity Hydraulic Winch & Hydraulic Hoist. Unlimited Winch Pulls per Day.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Type:		
- Live Drive Style PTO'for operation while in gear	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Specifications:		
- 3000 PSI@, 12-15 GM.	<input type="checkbox"/>	<input type="checkbox"/>
Hose Size:		
- 1/2" Diameter Pressure Line, 3/4" Diameter Return Line.	<input type="checkbox"/>	<input type="checkbox"/>
The Hoist system must have a top frame with Steel wear strips.	<input type="checkbox"/>	<input type="checkbox"/>
Hoist system must use glass impregnated slide pads when loading/unloading the bodies. Polystone M (UHMW-PE) MPG glass filled material to be used.	<input type="checkbox"/>	<input type="checkbox"/>
Hoist system rear pivot pin size diameter needs to be a minimum of 1.5".	<input type="checkbox"/>	<input type="checkbox"/>
Hoist system hinge assembly to be designed and constructed of geometrically optimized 3/8" and 1/2" thick plate - specifically for loading and removal of interchangeable bodies.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL (Cont'd)		
Hoist system rear Body Hold Downs to be "Universal Style" to accept multiple body lengths.	<input type="checkbox"/>	<input type="checkbox"/>
Hoist system winch is required to have a clutch block-out for safety.	<input type="checkbox"/>	<input type="checkbox"/>
Prop Rod to be mounted within the hoist frame.	<input type="checkbox"/>	<input type="checkbox"/>
Swivel Hook for the winch cable.	<input type="checkbox"/>	<input type="checkbox"/>
Approx. Dumping Capacity 10.3 Ton	<input type="checkbox"/>	<input type="checkbox"/>
Pre-Plumbed Hydraulic Lines	<input type="checkbox"/>	<input type="checkbox"/>
Pre-installed In-line Filter Housing with Reusable Filter	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Reservoir:		
- 15 Gallon minimum with filter Standard 18" Rear Overhang	<input type="checkbox"/>	<input type="checkbox"/>
Hoist System Install Kit:		
9' 12' Gen II H-Series.	<input type="checkbox"/>	<input type="checkbox"/>
Gen II Series Mounting Bracket	<input type="checkbox"/>	<input type="checkbox"/>
Bolt-On Bumper with Light Bars	<input type="checkbox"/>	<input type="checkbox"/>
Includes Bumper Face Plate, Light Tubes, Two Lights Per Side, Stop/Tail/Turn/Reverse and Stop/Tail/Turn/Reverse/Strobe, Wire Harness and Mounting Hardware.	<input type="checkbox"/>	<input type="checkbox"/>
Rated for 20K	<input type="checkbox"/>	<input type="checkbox"/>
Bolt-on 10 TON 2-1/2" Receiver Tube Weldment and 9/16" hardware	<input type="checkbox"/>	<input type="checkbox"/>
One pair of plastic fenders for 19.5 tires, with mounting brackets	<input type="checkbox"/>	<input type="checkbox"/>
No Advertisement on mudflaps	<input type="checkbox"/>	<input type="checkbox"/>
SNG Fuel Filler Rod	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulics:		
PTO must be a Chelsea 210H with direct mount pump and 15 gallon reservoir providing up to 9 gallons per minute at 1000 rpm, must be a modular manifold cartridge type valve with 5 year warranty. Switch N Go shall be operated by the Switch N Go Pendant Controller.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL (Cont'd)		
Lights/Wiring:		
All lamps/reflectors exceed FMVSS 108 requirements.	<input type="checkbox"/>	<input type="checkbox"/>
Lamps shall be LED flush mounted in shock resistant rubber grommets to maximize bulb life.	<input type="checkbox"/>	<input type="checkbox"/>
Each side of 90" ICC bumper shall include a rear facing auxiliary stop/turn/reverse lamp LED for improved visibility and operator's safety. Also includes Amber strobe in bumper. The ICC bumper plate will also include a class V receiver tube with D-Rings back up alarm and trailer plug. The light extensions of the ICC bumper shall be a minimum of 16" off the ground. Color-coded wire harnesses are provided to minimize installation time and simplify diagnosis.	<input type="checkbox"/>	<input type="checkbox"/>
Body up light in cab.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Winch:		
Rated pulling force 15,000 lbs., 6.0 cubic inch motor	<input type="checkbox"/>	<input type="checkbox"/>
Drum barrel diameter 4"	<input type="checkbox"/>	<input type="checkbox"/>
Drum flange 8.24"	<input type="checkbox"/>	<input type="checkbox"/>
Distance between flanges 9.95"	<input type="checkbox"/>	<input type="checkbox"/>
Recommended maximum wire rope diameter ½"	<input type="checkbox"/>	<input type="checkbox"/>
Recommended minimum wire rope breaking strength 26,600 lbs.	<input type="checkbox"/>	<input type="checkbox"/>
Duty cycle 932'	<input type="checkbox"/>	<input type="checkbox"/>
Maximum layers of wire rope: 3	<input type="checkbox"/>	<input type="checkbox"/>
Hardened steel two stage planetary gear train with 36:1 reduction provides fast line speed	<input type="checkbox"/>	<input type="checkbox"/>
Heavy duty disc brake for dependable operation and plenty of holding power Meets SAE J706 and CE standards	<input type="checkbox"/>	<input type="checkbox"/>
Winch to be operated off truck hydraulics and Switch N Go controls	<input type="checkbox"/>	<input type="checkbox"/>
Accessory Lighting:		
3 Whelen Ion T-Series Amber LED evenly spaced on top of pintle plate below hoist	<input type="checkbox"/>	<input type="checkbox"/>
LED spreader light mounted to frame for visibility during spreader operation		
ICC Pintle Plate Bumper as described above:		
• Pollak 7 Pole RV Style harness and twist and lock plug		
• Backup alarm		
• 3 ball receiver tube 1-7/8", 2", 2-5/16" lock in style pin not acceptable		
• 6 ton receiver mount Pintle & 2" ball combination hitch	<input type="checkbox"/>	<input type="checkbox"/>
Stop/Tail/Turn/Reverse/Safety Amber light extensions to be a minimum of 16" from the ground all lights to be LED	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL (Cont'd)		
Conspicuity Enhancement/Safety:		
2" red and white diamond grade reflective striping,		
DOT Safety Kit, first aid kit, 5 1b fire extinguisher with bracket and safety		
Triangles	<input type="checkbox"/>	<input type="checkbox"/>
Additional Winch Cable to be supplied at time of delivery	<input type="checkbox"/>	<input type="checkbox"/>
Additional Safety Locking Pin to be supplied at time of delivery	<input type="checkbox"/>	<input type="checkbox"/>
Ziebart Undercoating, chassis frame and Switch N Go frame from cab to end of frame rails	<input type="checkbox"/>	<input type="checkbox"/>

OPTIONS:

***NOTE:** Successful bidder must be able to provide **any/all** options as specified below including installation of this body onto **existing County-owned Switch N Go truck**. If options are purchased for current County-Owned Switch N Go Trucks, the equipment shall be delivered to upfitter's facility for final measurements and installation at time of Mandatory Pre-Build. Bidder must have provided this type of conversions in the past with a minimum of 5 years of working with the Switch N Go product, proof of this type of work must be supplied with bid.*

5A. 9.0' Readily Detachable Snowplow System

This option can be selected with all configurations. Can be purchased for existing F-350 pickup trucks thru F-550 with snow plow prep packages.

Blade Assembly:

Moldboard - 12 ga. (0.104") steel sheet formed to a 17.30" radius with a 1.76" diameter top curl.	<input type="checkbox"/>	<input type="checkbox"/>
Ribs - eight, 0.25" thick, variable profile, electrically welded to sheet, torsion tube and 0.25" thick, high strength steel base channel.	<input type="checkbox"/>	<input type="checkbox"/>
Torsion Tube - 2.00" diameter, full width, electrically welded to all eight ribs.	<input type="checkbox"/>	<input type="checkbox"/>
Cutting Edge - reversible 0.50" x 6" high carbon steel C1080 attached with ten 0.63" Grade 5 carriage bolts.	<input type="checkbox"/>	<input type="checkbox"/>
Disc Shoes - two, full rotation, height adjustable, Austempered Ductile Iron shoes with integral 1" diameter shaft secured to blade with lynch pins. Shoe brackets shall be welded to vertical ribs.	<input type="checkbox"/>	<input type="checkbox"/>
Blade Trip - 50 degree full blade trip	<input type="checkbox"/>	<input type="checkbox"/>
Trip Springs-four, 2.38" OD x 0.39" diameter, C1 060, hard drawn, stress relieved wire, preloaded, with 0.63" x 4" eyebolts.	<input type="checkbox"/>	<input type="checkbox"/>
Shock Absorbers - two, 5" stroke, shielded shock absorbers to retard extension velocity and dampen blade trip return.	<input type="checkbox"/>	<input type="checkbox"/>
Blade Trip Pivot - three 0.75" diameter steel pins.	<input type="checkbox"/>	<input type="checkbox"/>
Blade Guides - two highly visible, vinyl coated, spring wound, with replaceable flags.	<input type="checkbox"/>	<input type="checkbox"/>
Plow Angling- 30 degrees right and left.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5A. 9.0' Readily Detachable Snowplow System (Cont'd)

A-Frame:

Electrically welded, reinforced, 3.00" x 3.00" x 0.19" wall structural steel side tubes with 0.50" thick, formed nose plate and integral attachments for angling rams to receive 1.00" diameter pins.

Lift Chains - two, 0.25" Grade 43 high test steel with 2600 lb. working load limit, attached with 0.38" U-bolts.

Quadrant:

Electrically welded, reinforced, 5.00" OD x 0.25" wall structural steel tube with 0.50" thick nose plates and integral attachments for angling rams to receive 1.00" D pins.

A-Frame to Quadrant Angle Pivot - 1.00" diameter Grade 5 bolt.

Lift Frame:

Lift frame to have provision for attachment of out front hydraulics and light kit.

Lift Arm- 0.25" x 2" formed bar welded with a 7 ga. steel cover.

Two Plow Stands - Self-storing and adjustable integrated into the plow attachment mechanism. Connecting hook and lever with integral with a 0.50" lock pin.

Lift Frame - Two piece lift frame with tubular construction. Lower lift frame to include drive in plow alignment horns.

Mount:

Custom designed, electrically welded, structural steel mounting readily adaptable to truck frame. Attached to truck with Grade 5 fasteners.

Vehicle, with mount attached, shall meet federal motor vehicle safety standards by compliance or by vehicle manufacturing approval.

Removable receiver brackets for additional ground clearance.

Paint:

Plow blade shall be made of shot blasted steel and cleaned with phosphate solutions and have baked-on red polyester powder coating.

A-Frame, Quadrant and Lift Frame - shall be made of shot blasted steel and cleaned with phosphate solution and have baked-on black powder coating.

Hydraulics:

Electric solenoid activated and detachable with lift.

Front mounted hydraulic unit consisting of a fixed displacement gear pump, with 1750 PSI system relief, direct tang driven by a 4-1/2" 12 volt DC motor.

Pump with filter screen shall be immersed in a steel deep drawn reservoir.

Main valve manifold shall contain three side mounted and covered solenoid cartridge valves.

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5A. 9.0' Readily Detachable Snowplow System (Cont'd)

Hydraulics (Cont'd)

Secondary valve shall contain 2 driver side and 1 curb side mounted and covered solenoid cartridge valves. Cushion relief valves set at 4,000 PSI and a quill adjustment screw to adjust blade drop speed.

One 1 1/2"x 8" lift ram and two 1-1/2" x 12" angling rams each with a rod seal, a wiper ring and a gland nut.

Hydraulic hoses shall be 1/4" steel braided SAE 100R1.

Hydraulic unit shall be controlled by a soft touch, hand held in-cab control.

Control shall be equipped with an on/off and mode buttons and indicator lights.

Control can be dash mounted.

In-cab control shall be connected to valve manifold and to the motor through an auxiliary 12-volt multiplexed harness.

Power and control harness to have quick disconnects and covers at the grill.

Control shall allow plow to be in float when lowered and also be able to angle left or right when in float.

Unit shall be a "low side" drive system, which provides positive potential continuously with a switched ground to control the solenoids.

Unit shall possess programmable security lockout feature.

Unit shall possess programmable hydraulic soft stop feature.

Unit shall possess programmable one touch float feature.

Hydraulic fluid shall be MJL5606 equivalent standard transmission fluid (ATF) or aircraft hydraulic oil for low-temperature operation.

Cycle times:

- Lift 2.5 seconds
- Angle 5.0 seconds

Hydraulic unit shall stay with plow when plow is disconnected from truck.

Lights:

Nighthawk LED Headlamps

Vehicle specific pre-wired harness with plug-in module requiring no headlamp wire splicing.

Plow and vehicle lights automatically selected through relay system.

Heavy-duty flashers.

Double stud mounting brackets.

FMVSS 108 compliance for lights.

Lights and mounting bracket to stay with plow when disconnected from truck.

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5A. 9.0' Readily Detachable Snowplow System (Cont'd)

Plow Removal:

Blade assembly, A-Frame, Quadrant, Lift Frame with hydraulic unit all to be removed in one step from truck as one complete unit.	<input type="checkbox"/>	<input type="checkbox"/>
Snow deflector	<input type="checkbox"/>	<input type="checkbox"/>
Curb guards both sides	<input type="checkbox"/>	<input type="checkbox"/>
Cab command Hand Held Control/or joystick- specified at order	<input type="checkbox"/>	<input type="checkbox"/>

5B. Cirrus Hydraulics System

PTO and Pump:

Hydraulic pump and PTO shall be a Chelsea 249 series.	<input type="checkbox"/>	<input type="checkbox"/>
The pump shall be a fixed displacement that is direct mounted to a hot-shift PTO for a live transmission with a gas engine.	<input type="checkbox"/>	<input type="checkbox"/>
The pump shall have a flow rate of 19 GPM at 1200 engine RPM.	<input type="checkbox"/>	<input type="checkbox"/>
The pump shall have a 3/4"-11T splined drive shaft.	<input type="checkbox"/>	<input type="checkbox"/>
The suction hose to the pump shall be a minimum of 1-1/4" I.D. SAE 100-R4 hose.	<input type="checkbox"/>	<input type="checkbox"/>
The PTO shall be a Parker/Chelsea 249 series and have a ratio of 124%.	<input type="checkbox"/>	<input type="checkbox"/>
The PTO shall be engaged/disengaged from the cab by a dash mounted 12VDC on/off switch.	<input type="checkbox"/>	<input type="checkbox"/>
Power over speed protection required for torque shift six with gas motor.	<input type="checkbox"/>	<input type="checkbox"/>

Stainless Steel Symmetrical Valve Reservoir Combination System:

The spool valve sections and spreader manifold will be mounted in a combination reservoir and enclosure.	<input type="checkbox"/>	<input type="checkbox"/>
The overall width of the will not exceed 28". The valve shall mount horizontally on a 15.5" removable mounted plate that slides out for easy access for repair and maintenance.	<input type="checkbox"/>	<input type="checkbox"/>
The enclosure shall be mounted with a minimum of 1" frame clearance on each side of the combo.	<input type="checkbox"/>	<input type="checkbox"/>
Mounting bracket is to be designed and supplied by reservoir supplier and designed in a manner as to not transmit torsional loads through the reservoir.	<input type="checkbox"/>	<input type="checkbox"/>
The enclosure cover shall also cover/ protect the valve work ports and hoses	<input type="checkbox"/>	<input type="checkbox"/>
The reservoir portion shall be 14-gallon capacity.	<input type="checkbox"/>	<input type="checkbox"/>
The combo will be constructed from 10-gauge 304 Stainless steel with .25 inch steel bracing. The combo shall be powder-coated for corrosion protection with internal baffle	<input type="checkbox"/>	<input type="checkbox"/>
Two rubber latches will secure the enclosure lid. The lid must be removable without tools by one person.	<input type="checkbox"/>	<input type="checkbox"/>
The rubber latches are replaceable with a removable pin.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5B. Cirrus Hydraulics System (Cont'd)

Stainless Steel Symmetrical Valve Reservoir Combination System: (Cont'd)

The reservoir must be equipped with the following: 3/4" magnetic drain plug, 1-1/4" full flow brass ball valve, 2" x 1-1/4" NPT suction strainer with 100 mesh screen and 3 PSI bypass valve, tank mount return line filter with a built in breather, and sight temperature gauge externally mounted facing front of truck no matter which side enclosure is mounted on.

Reservoir filling will be through the filter housing with a flow path that will filter all new oil entering in the system.

Minimum Specification for Modular Manifold Central Hydraulic System:

The modular manifold must be constructed of 6061 anodized aluminum material.

The modular manifold shall be adjustable to a maximum pressure of 3500 psi with multiple flow and pressure performance, with function configuration.

The modular manifold will consist of multiple sections bolted together for multiple function configurations.

The entire hydraulic system shall be completely serviceable without removing from the enclosure or disassembling the sections.

A one-piece manifold will not meet the intent of the specification for easy maintenance and service.

The modular manifold must be capable of operating in either open center (fixed displacement) or closed center (variable displacement) hydraulic circuits All functions will be proportional controlled, pulse width modulated, pressure and flow compensated.

Plow and Winch functions must have load hold/ counter-balance.

Any valve without load-holding capability or have internal leakage down standard is **NOT ACCEPTABLE**

Heavy-duty 12VDC coils must be protect with a corrosion resistant coating.

Connections must be NEMA x6 standards for dust protection and all 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.

The modular manifold shall be designed for lower pump capacity hydraulic pumps.

Each sections will have flow capacities from 3 to 20 GPM with load holding on all cylinder section.

The hoist and winch sections shall be 15 GPM, four way for a double acting cylinder and incorporate a 500psi relief for the hoist A-port

The spinner will be a 7 GPM motor spool cartridge and the auger/conveyor will be 8 GPM motor spool cartridge. 15 GPM motor spool for anti-ice.

The spinner or auger will not stop when other implements are actuated.

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5B. Cirrus Hydraulics System (Cont'd)

Minimum Specification For Modular Manifold Central Hydraulic System: (Cont'd)

Auger and Spinner cartridge valve will be equipped with screw adjustable manual overrides protected by jacketed debris covers. Hoist, Winch, Plow, spool valves will have a push/pull ring for the manual override.

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

Cartridge valves, spool valve, and solenoids must have a 5-year warranty.

Plow and Switch N Go joystick controllers:

The in-cab control system shall be a one joystick Cirrus Black Tip controller or prior approved equal. The single control levers must be true Hall effect (magnetic) joystick with two-axis (X & Y) proportional control with no internal metal contacts.

Amusement grade joysticks for pistol type controllers are not acceptable.

The joystick console shall mount to the center seat in the down position with two (2) adjustable rods that slide into the head rest mounting holes for the Ford F450-F750 vehicles and with a cup holder mounted bracket in the Dodge Ram 5500 series vehicles.

The dumping hoist and winch shall be controlled by a single joystick and must have a safety trigger protection to activate the hoist and winch function.

Joystick console must have side bracket to mount spreader controller.

The user shall have the ability to set the speed of each direction of motion on a PC for all hydraulic devices controlled by the joystick without modification to the hydraulic system.

The controller must include integrated protection and diagnosis systems with safety features incorporated into the system. Channel Safe™: to protect the system and help diagnose external shorted or open circuits. SafeStik™ that shuts down the output channels if a joystick fails.

Power Safe™ Wiring Design: For safety reasons, grounding or cutting any wire at Any point between any valve coil and the controller must not cause any valve to actuate.

The system must supply pulsed+12 volt power to the other lead from each individual valve coil.

All connections at the hydraulic control junction box must be IP 68 rated. The outside the cab harness will be IP 68 rated up to the valve coil connection All connectors shall be rated as "6x" - dust proof. All connectors shall be rated as "x8" - protected against the effects of permanent submersion in water as well as showing no corrosion after 500 hours in a 35C salt spray.

Installing dealer must be authorized to preform warranty repairs and periodic maintenance.

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5B. Cirrus Hydraulics System (Cont'd)

In-Cab Granular and Liquid Control System:

The in-cab control system shall be capable of operating output channels for granular spreader, and single channel liquid controller on one easily accessible single keypad. In-cab controller must be an automotive grade product. Amusement or gaming products are **NOT ACCEPTABLE**.

The liquid channel can operate an electric or hydraulic pre-wet system controller shall also have an optional dash mount, stand-alone, or console mounting options.

The single touch proportional hydraulic controls shall be time dependent to adjust the speed of the hydraulic functions.

Controller shall have the ability to connect the feed rate and spinner function for single stroke simultaneous start up.

Controller must offer a "Skip Blast" feature allowing for spot blasting during "Pause Mode"

Controller shall offer adjustable valve unseat percentage option: to start auger/conveyor with wet heavy salt.

The user shall have the ability to adjust the speed of each function and the amount of granular material or liquid with the soft touch key pad.

Rotary knobs to control granular feed rate or spinner speed is **NOT ACCEPTABLE**

The spreader controls shall operate a granular spreader with auger/conveyor, spinner and pre-wet (or anti-ice) output channels. Each function can be operated individually or all simultaneously.

All set-up and programing shall be completed using the controller soft key pad with no external programing keyboard.

Spreader must be field configurable to operate either: Ground Speed Oriented or No Ground Speed (simple manual operation) with a single switch setting.

Controller shall also offer a settable Blast Features that will function during Ground Speed Triggered Operation.

System shall be capable of self-diagnosis using the indicator LED light for each channel to trouble-shoot open circuit faults.

All connections inside the hydraulic valve / electronic control junction box must be IP 68 rated.

All connections will be labeled with appropriate descriptions for each connection to individual solenoids of the hydraulic actuating cylinders.

Cirrus EZ1 Controller Has a 2 Year Warranty

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

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

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader

This option also requires the selection of the Cirrus upgrade. Spreader can also be purchased for existing vehicle with central hydraulics for 10' Dump body and up.

Hydraulics:

PTO must be a Chelsea 210H with direct mount pump and 14 gallon reservoir providing up to 9 gallons per minute at 1000 rpm, must be a modular manifold cartridge type valve with 5 year warranty. - Shall be operated by the chassis provided upfitter switches.

General:

This specification describes a heavy-duty, self-contained hopper spreader designed to spread free-flowing material from 4 to 40 feet. Spreader consists of a steel body and spinner assembly, top screens, pintle-chain conveyor system, power drive and all components required to deliver maximum performance.

Body:

Shall be of all welded 12-gauge stainless steel construction and 5.6 cubic yards struck capacity.

The hopper length shall be 10 feet long.

Overall height of the unit shall be 50 in.

The overall width to be no more than 82 in.

Body sides slope at 45° angle to promote free flow of material to the conveyor.

Front panel shall be tapered 20° to relieve pressure to the conveyor.

The sides and ends shall be constructed of 12-gauge stainless steel continuously welded to each other on the inside of the hopper, and the top of the body shall be double crimped, forming a 2 in. section for greater rigidity.

Body sills to be of formed 10-gauge stainless steel that ties the lower edge of the longitudinals to each side support. There shall be an adequate number of 12 gauge stainless steel side supports on 2 centers that extend the full side angle height rigidly tying in to the 7 gauge stainless steel formed channel cross sills with the body sides to give the highest degree of resistance to warping or twisting under heav loads.

The body and conveyor shall be electrically welded into a rugged solid unit.

A heavy-duty lift hook shall be provided at each corner.

These lift hooks shall be inserted through holes in the double crimped section of the hopper walls, and welded in place for maximum strength.

A 6x4 in. formed box beam that is welded at each end will be elevated 3 in. above the top edge of the hopper, providing a longitudinal brace and hinge point for the top screens.

There shall be a formed 2x2 in. angle iron welded from the box beam to each side for additional support.

The rear endplate shall be reinforced inside and supported outside to give it maximum strength.

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader (Cont'd)

Conveyor:

Shall be of the chain barflight type running longitudinally with the body.	<input type="checkbox"/>	<input type="checkbox"/>
The top edge of the longitudinals shall be formed down over the chain link strands, leaving only the drag chain bar exposed to the material being spread.	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor width shall be not less than 24 in. and shall be a heat-treated, all steel, self-cleaning pintle-type chain.	<input type="checkbox"/>	<input type="checkbox"/>
Chain shall be 2-1/4 in. pitch with 7/16 in. locked non-turning pins and a tensile strength of 21,000 pounds.	<input type="checkbox"/>	<input type="checkbox"/>
Chain bar flights shall have a cross section of 3/8x1-1/2 in. x 18-3/4 in. welded on the top and bottom to every other link and be positioned on approximately 4-1/2 in. centers.	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor gearbox shall have a 50:1 reduction and be of a bronze worm-gear type having a cast-iron housing with a ring-mount bolt pattern and supported on tapered roller bearings.	<input type="checkbox"/>	<input type="checkbox"/>
Chain shall be driven through the gearbox by a low-speed, high-torque (1,200 inch lbs. at motor, 60,000 inch lbs. where it meets the conveyor) orbital-type hydraulic motor.	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor drive sprockets shall be 8 tooth, drop-forged steel keyed to a 1-1/2 in. diameter C1045 steel shaft mounted in sealed, self-aligning ball bearings with grease fittings.	<input type="checkbox"/>	<input type="checkbox"/>
The idler sprockets shall be 8-tooth, drop-forged steel welded to a 1-1/2 in. C1045 steel shaft which is mounted in sealed, self-aligning ball bearings with grease fittings.	<input type="checkbox"/>	<input type="checkbox"/>
The conveyor bottom shall be of flat design, be of a minimum 3/16 in. steel and roll-over edges, shall bolt in and be replaceable	<input type="checkbox"/>	<input type="checkbox"/>

Spinner Assembly

Spinner assembly shall be fabricated from 12 gauge stainless steel, and shall be of the bottom mount motor design.	<input type="checkbox"/>	<input type="checkbox"/>
Material shall be guided from the conveyor to the spinner disc by means of an internal material baffle, which is easily adjustable without the use of any tools.	<input type="checkbox"/>	<input type="checkbox"/>
There shall be three adjustable stainless steel external spinner deflectors, and one fixed front shield to control the direction and width of the spread.	<input type="checkbox"/>	<input type="checkbox"/>
Baffles shall be adjustable without the use of any tools	<input type="checkbox"/>	<input type="checkbox"/>

Spinner Disc:

The spinner shall be made of polyurethane and shall be 20" in diameter and be equipped with six fins designed to give a uniform trajectory from four to forty feet.	<input type="checkbox"/>	<input type="checkbox"/>
This spinner disc shall be bolted to a cast iron hub directly connected to the independent low-speed, high-torque, orbital-type spinner drive motor	<input type="checkbox"/>	<input type="checkbox"/>
Spinner motor shall be 2.8 cubic inch, with nickel plated shaft for enhanced corrosion resistance and improved seal life.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader (Cont'd)

Spinner Extension:

The spinner extension shall connect the spinner assembly to the longsills of the spreader, and shall be fabricated from 12 gauge stainless steel. YES NO

The extension shall provide adjustable mounting heights of the spinner assembly with a range of 15 inches, in increments of 3 inches. YES NO

Inverted Vee:

The spreader shall have an inverted vee over the conveyor to improve material flow to the conveyor. YES NO

The inverted vee shall have four support brackets to hold it in place. YES NO

The inverted vee shall be a formed angle, 8 X 8 in. X 12 ga. stainless steel YES NO

Top Screens:

Sectional screens with a maximum length per section of three feet shall be hinge to the 4 in. x 6 in. box beam which is made of stainless steel, and is bolted to both ends of the hopper. YES NO

Screens shall be constructed of 3/8 in. diameter steel rods welded to form a 2-1/2 in. square mesh which is framed by a combination of 1/4" X 1 1/2" . flat steel and 2 in. angle iron with edge supports reinforced by 1/4" X 1" in. flat bars. YES NO

Screens shall be removable and use a lock-type hinge. YES NO

Finish:

All metal shall have the mill scale, weld splatter, and oil residue removed and the surface shall be electro-chemically cleaned. YES NO

All stainless steel shall be left unpainted. All mild steel components shall be painted black. YES NO

Light Bar Assembly:

Light bar assembly with stainless steel enclosure. 78 in. wide, bolt on (4) LED. stop/turn/taillights and ICC ID marker lights, wire harness with pigtail and 7-prong trailer plug RV Style. YES NO

Grease Extensions:

Front bearing grease extensions to the rear of unit with manifold YES NO

Chain Oiler:

Shall be of a gravity flow design with a manual shutoff valve and have a reservoir capacity of 4 quarts. YES NO

Tank shall be polyethylene construction YES NO

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

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

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader (Cont'd)

Winch Assembly:

Winch assembly for BV or BVA models, hand crank to swing up spinner assembly.

Short Hose Kit:

Short hose kit includes Pioneer 4004PH quick-disconnect couplers (two sets) and four 1/2 in. hoses.

Subframe and Body Rollers

6" round rollers, powder coated black subframe

5D. Dump Body for 11' Floor Length

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

Dump body:

- 11' floor length
- 24" high two-way dump gate
- 40" high bulkhead
- 10 gauge floor
- 12 gauge sides and 12" side board pockets
- Subframe and 6" ground rollers
- 18" Cab shield
- Heavy Duty D-Rings
- Painted Black

6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear of body and 1-3/4" red white down side of body line

5E. Stainless Steel Dump Body for 11' Floor Length

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

Dump Body DB-I I-Stainless:

- 304 Stainless Steel w/ structural steel understructure
- Floors are 10 ga stainless steel w/ structural steel w/ 3" crossmembers on 16" centers
- Floor width 88"
- Tailgates constructed of 3/16" x 2" x 2" 304 Stainless steel tubing with 304 stainless steel 10 ga sheet, 27" H
- 40" 12 ga 304 stainless steel bulkhead
- 18" Cabshield
- 12", 12 ga 304 stainless sides with 12" board pockets
- Heavy Duty D-Rings installed
- Standard 6" Steel wheels

6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear of body and 1-3/4" red white down side of body line

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5F. Platform 11' Overall Floor Length

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

11' long platform, 1/8" diamond plate floor, 8' flat deck with 1' ramp tail

1-3/4" red white reflective conspicuity tape down side of body line and around rear

5G. Medium Duty Dump Box

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

10 cubic yard drop box, 11' long and 39" high, dump-style tailgate. Floor, sides and tailgate all 12 gauge material. 2 side posts.

Crossmembers are on 24" centers. 3" X 3" tubing top rail

Swing Door to curbside

6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear of body and 1-3/4" red white down side of body line

5H. Medium Duty Dump Box High Sides

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

13 cubic yard drop box, 11' long floor and 51" high, swing-style tailgate.

Floor, sides and tailgate all 12 gauge material. 2 side posts. Crossmembers are on 24" centers. 3" x 3" tubing top rail

Swing Door to Curbside

6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear of body and 1-3/4" red white down side of body line

5I. Manual Tarp:

For either dump or drop boxes

5J. Stake Sides and Removable Rear Stakes

5K. Horizontal Split Door for Use Chipper Top

For use with drop boxes; Can be purchased at a later date

5L. 24" Deep Chipper Top

Leaf top has additional venting for the air to escape - must specify at time of Purchase

5M. Coal Chute

Dump Body

5N. Side Door in Drop Box

Located curbside by bulkhead in drop box

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS: (Cont'd)</u>		
<u>5O. Mason Type Tarp</u>		
<ul style="list-style-type: none"> • Waterproof • 3 bar crossmember support • Drop Box application only 	<input type="checkbox"/>	<input type="checkbox"/>
<u>5P. Split Doors for Drop Box For Chipper or Leaf Application</u>		
1' Ramp on platform <i>Not to be selected if selecting a spreader for platform application</i>	<input type="checkbox"/>	<input type="checkbox"/>
<u>5Q. Fold Down Sides Steel</u>		
Dump Body	<input type="checkbox"/>	<input type="checkbox"/>
<u>5R. Fold Down Sides Aluminum</u>		
Dump Body	<input type="checkbox"/>	<input type="checkbox"/>
<u>5S. Light Package:</u>		
Whelen Amber LED Lights: Body upfitter must provide installation of lights so they work in conjunction with the equipment on the truck.		
<ul style="list-style-type: none"> • 4 Micron Series Super LED in grill Amber • 2 Micron Ion Series Super LED on rear bracket offender Amber 	<input type="checkbox"/>	<input type="checkbox"/>
<u>5T. Go Lights</u>		
Mounted on cab roof: One (1) Go Light GXL Xtreme Work Lights		
<ul style="list-style-type: none"> • 6000 maximum lumens • 5 amp draw • 9-32VDC input 	<input type="checkbox"/>	<input type="checkbox"/>
<u>5U. Stainless Steel UTG Spreader</u>		
<i>This accessory must have central hydraulics and spreader controls, used on dump bodies and chassis configuration. This option can also be purchased separately and installed on another vehicle which meets these requirements.</i>		
General:		
This 6 in. auger under-tailgate spreader shall be of the bottom-opening design, with a safety shut off feature built into the hydraulic system.	<input type="checkbox"/>	<input type="checkbox"/>
This mounting shall allow the dumping of materials without interference from the spreader.	<input type="checkbox"/>	<input type="checkbox"/>
The spreader width shall not be over 96 in.	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5U. Stainless Steel UTG Spreader (Cont'd)

Mounting:

The entire unit will mount to the sides and below the floor level of the dump box with single-pin, quick-detachable hardware.

Mounting and removing shall be done without the use of any special tools.

Safety Shut-Off:

The spreader shall incorporate a hydraulic safety shut-off feature that disables the hydraulic functions of the spreader.

This shut-off shall prevent opening the bottom door or opening the top cover beyond a vertical position when the hydraulics are engaged.

Feed Mechanism:

The six-inch, heavy-duty auger shall consist of 3/8 in. flighting with 4 in. pitch which is welded to a 2-3/8 in. O.D. Schedule 40 pipe.

This auger shall have continuous and reverse flighting for more uniform emptying and is supported by 1-1/4 in. steel shaft ends.

The auger shaft will be supported on one end in sealed, self-aligning, precision single-row radial bearings with grease fittings and on the other end by the drive mechanism.

The auger shall be powered with a 22.6 cubic inch displacement hydraulic motor capable of delivering high torque at low speeds mounted to the end plate and directly coupled to the auger by a non-corrosive UHMW polyethylene sleeve and a 1/2 in. Grade 5 bolt.

The discharge port is located 24 in. from the left end.

Stainless Steel Hopper:

Rigid one-piece end plates of 7 ga. stainless steel shall be continuously welded to an auger trough of 7 ga. stainless steel.

The unit will have a three-point hinged bottom pan that will expose the entire auger for easy clean out. This pan will be fabricated of 7 ga. stainless steel.

The hinged bottom pan shall be held in place with two heavy-duty cam locks with a lifting handle near each lock for easy one-man handling.

The anti-spill cover over each discharge opening will be of 7 ga. stainless steel and shall be removable without the use of tools.

The lid will be of 7 ga. stainless steel and will be an integral part of the unit that may be raised when spreading or lowered when dumping.

This lid shall be locked in position by two latches that are replaceable.

Inside width of the trough shall be a minimum of 10-7/8 in.

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5U. Stainless Steel UTG Spreader (Cont'd)

Stainless Steel Hopper: (Cont'd)

Poly Spinner Disc:

The spinner shall consist of a single 18 in. diameter polymer disc with six formed polymer fins, to provide a flat trajectory and uniform spreading pattern from four to forty feet.

The spinner assembly shall be adjustable, allowing for variable spreading patterns left, center, or right by sliding the hinged frame sideways on the shaft so that the point at which the material hits the spinner disc is varied.

The spinner assembly shall be adjustable in height, providing four different ground clearance settings by means of four bolts.

The entire spinner assembly shall be easily removed by pulling two pins and uncoupling two hydraulic quick-disconnect hoses.

The spinner speed rate shall be variable through optional valve systems.

The polymer spinner disc will be mounted directly onto the hydraulic motor shaft by means of a steel spinner hub.

Spinner motor shall be 2.8 cubic inch, with nickel plated shaft for enhanced corrosion resistance and improved seal life.

The spinner assembly shall remain horizontal to the road at all dump box angles.

A spinner shield shall be provided to prevent material from striking the truck.

Finish:

All carbon steel components shall be painted black.

Stainless steel components shall be left their natural finish.

Spill Shields:

Steel spill shields shall be mounted to tailgate to stop any salt from spilling out the sides of the rear of the body..

Dump Accessibility:

No hydraulic hoses or trough handles are to be above the surface of the spreader.

Clean dumping surface must be provided

5V. Flat Bed Service Body

General:

It is the intent of this bid to specify a 12' service body to be up fitted on a Switch N Go System for an 84" CA, this option is to be used with 11' Switch N Go System

Dimensions:

Floor:

- T&G Extruded Aluminum
- 102" x 56-3/8" Wide Center

Rear Service Body Tailgate

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5V. Flat Bed Service Body (Cont'd)

Dimensions: (Cont'd)

Latches:

- Manual Master Locking System

Compartments:

- 3 Per Side - 40 3/16" W x 34 7/16" T
- Welded to Flatbed Floor

Flatbed Construction:

- G-Tube Perimeter/2x3 .125 Cross Members
- 12" OC/2x3 .188 Box Tube Long Sills (Gussets every 4" from front to back)
- All Extruded 6005 Aluminum/Box Tube Construction

Bulkhead:

- Extruded Aluminum Headboard

D-Rings:

- 6 Recessed Stainless Steel D-Rings (3 Per Side)
- Spring-Loaded, 4.4K LB Rating, Evenly Spaced

Cargo Securement:

- 2 Rows of E-Track Center Body Length
- 4 Ratchet Straps 2" x 12'

Body Shell:

- Paint to match County Department Color
- Each Cabinet to have 3 shelves with dividers

5W. Brine Water Tank

This unit as specified will need to operate with a central hydraulic system. It can be used on all Switch N Go Applications

General:

The system shall have the capability to maintain a uniform application rate of deicing liquid materials behind the truck. The system will have the capability of being used in a manual control (open loop) and automatic control (closed loop). System will consist of a single lane stainless steel spray bar.

Liquid pumping system shall have a hydraulic driven liquid pump. Hydraulic driven systems shall be available up to 100 gpm output.

Fluid Handling Components:

All fluid handling components shall be constructed of material suitable for handling liquid deicing chemicals without deterioration, corrosion or damage.

Plumbing shall not contain any components manufactured from galvanized or steel fittings.

Liquid tank size shall be 735 gallon.

Overall dimensions of tank shall not exceed 104" length x 48" W x 49" H (including lid).

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5W. Brine Water Tank (Cont'd)

Fluid Handling Components (Cont'd)

Tank will include an option of being mounted on a sub frame with stand that will allow for raising the dump body to install and remove the tank assembly without the use of front end loader or forklift.

Tank will be mounted to either steel subframe or other tank support utilizing ratchet straps.

The tank will have gallon markings visible on the rear of tank

Liquid Pump:

Hydraulic driven centrifugal pump:

- A liquid centrifugal pump driven by a hydraulic motor with a maximum output of 235 gpm to allow application rates of up to 60 gallons per lane mile at 60 mph on the highway.
- Additional liquid centrifugal pumps will be available to allow maximum output of 25 or 100 gpm to allow application rates at low speeds and application rates for parking lot or side streets

System shall have inline removable inlet strainer with 304 stainless filter screen.

Screen mesh shall be sized to handle all types of deicing chemicals and protect the pumps and other downstream components from becoming plugged, restricted or premature wear.

Plumbing:

A manual ball valve is required at the outlet suction of the tank to isolate the liquid from draining from the tank if service is required to the liquid pump, shut offs, check valves or any part of the spraying system.

Tank shall have a second manual 3-way ball valve to allow for filling of the tank by an independent external pump through a 2-inch fitting, or self-loading of the tank by the trucks 2" suction hose and pump

The 3-lane main boom section shutoff assembly shall be a KZCO common manifold that does not require flange style fittings between each lane section left, center and right. Each boom shut off section is a ball style off/on electrical valve that requires a 12 volt on, 0 volts off control signal and operate from closed to wide open in 1.5 seconds or less

Quick coupe connections to have integral cam locks and tethered dust caps/plugs

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5W. Brine Water Tank (Cont'd)

Spray Bar:

The spray bar shall be designed to provide an application of liquid de-icing material right behind the truck in a single boom application

Spray bar shall not exceed 8 feet in length. Spray bar shall be assembled with vertical sidebars (left and right boom sections and horizontal center spray bar) and manufactured from 304 stainless steel

Spray bar shall be constructed of stainless steel with stainless steel nozzles. Center spray bar shall have a minimum of twelve (12) nozzles

Tank Mounting:

The 735 gallon tank will be mounted to a powder coated steel sub frame with 2 ratchet straps. The dimension of the sub frame shall be 58" in width and 120" in length

The sub frame with stand consisting of legs that fold or pivot to allow for easy storage of tank on the ground and ease of installation into the dump body. The front legs will fold up as the tank is inserted into the dump body allowing for installation and removal of the tank assembly without the use of a front end loader or forklift.

5X. 48" Under Body Tool Box

For use with Ford F-550 with 84" CA and No I-Pack Tool Box-Platform and Dumping Platform. Can be purchased for existing vehicles that meet these requirements.

Weatherguard Tread plate Aluminum 650-0-02:

- 48" X 18" X 18"
- 16.0 cu ft
- Door Opening 19-1/2" High and 43-1/4" Wide
- Stainless Steel D-Handles

5Y. 30" Under Body Tool Box

For use with Ford F-550 with 60" CA on Dump Body and Platform. Can be purchased for existing vehicles that meet these requirements.

Weatherguard Tread plate Aluminum 631-0-02:

- 30-1/8" X 18" X 18"
- 5.4 cu ft
- Door Opening 13-1/2" High and 25-1/4" Wide
- Stainless Steel D-Handles

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS: (Cont'd)</u>		
<u>5Z. Arbor Body: AB-11</u>		
Structural Steel Construction with ZRP Zinc Primer Rubberized underneath protectant coating	<input type="checkbox"/>	<input type="checkbox"/>
Painted to match cab	<input type="checkbox"/>	<input type="checkbox"/>
Body width interior 76" with interior ladder box and 96" exterior	<input type="checkbox"/>	<input type="checkbox"/>
Floors are constructed of 10 ga. Galvanneal steel with formed 3"x 3/16" Channel with corner gussets	<input type="checkbox"/>	<input type="checkbox"/>
Roof & Tailgate are constructed of 14 ga. Galvanneal steel	<input type="checkbox"/>	<input type="checkbox"/>
Sides are constructed of 12 ga. Galvanneal steel with side stiffeners On 36" center	<input type="checkbox"/>	<input type="checkbox"/>
Tailgates are constructed of a 14 ga. Steel sheet with 1-1/2" x 1/8" Tubular frame work with a height of 30"	<input type="checkbox"/>	<input type="checkbox"/>
Storage compartments: 1 rear ladder storage 17" wide with sloped top and roller shelf and thru-storage compartment 26" wide by 29"	<input type="checkbox"/>	<input type="checkbox"/>
Body equipped with Stop, Turn, Tail Lights, Clearance & Strobe Lights Installed	<input type="checkbox"/>	<input type="checkbox"/>
Standard 6" ground rollers	<input type="checkbox"/>	<input type="checkbox"/>
<u>5AA. Work Ready Subframe: WRSF-11</u>		
Structural Steel Construction with zinc prime and powder coat finish	<input type="checkbox"/>	<input type="checkbox"/>
Body width is 80" outside with a 26" W x 9" D rear cutout	<input type="checkbox"/>	<input type="checkbox"/>
Floors are constructed with a center 1/8" diamond sheet and 19" Wide 3/4" expanded metal sides crossmembers are constructed of 3" structural channel on 12" centers	<input type="checkbox"/>	<input type="checkbox"/>
equipped with two front retractable legs and two detachable 6" ground rollers	<input type="checkbox"/>	<input type="checkbox"/>
<u>5BB. Maxscaper 12' Aluminum Landscaper Body Attachment</u>		
GENERAL		
Outside Dimensions:		
12' Long X 96" Wide	<input type="checkbox"/>	<input type="checkbox"/>
Inside Dimensions:		
48" Height X 88" Wide	<input type="checkbox"/>	<input type="checkbox"/>
Cross Members:		
On 12" Center – 2" x 3" x 1/8"	<input type="checkbox"/>	<input type="checkbox"/>
Construction:		
All Aluminum 6000 Series Box Tube Construction	<input type="checkbox"/>	<input type="checkbox"/>
Premium B-Tube Perimeter Frame 6000 Series	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS: (Cont'd)</u>		
<u>5BB. Maxscaper 12' Aluminum Landscaper Body Attachment (Cont'd)</u>		
<u>Construction (Cont'd)</u>		
Aluminum Sheet Sides .125" 5000 Series	<input type="checkbox"/>	<input type="checkbox"/>
Flat Bar Tie Rail 2" x 1/4"	<input type="checkbox"/>	<input type="checkbox"/>
3/16" Smooth Aluminum Floor	<input type="checkbox"/>	<input type="checkbox"/>
2" x 3" Crossmembers on 12" Centers body to be ordered without longsills to fit on Switch N Go rails, also a doghouse is to be cut out so the body bulkhead so it slides all the way forward for installation	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Duty Rear Corner Posts 3" x 3" 6000 Series Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Barn Doors with Polished Stainless Steel Locking Bar	<input type="checkbox"/>	<input type="checkbox"/>
Solid Aluminum Headboard .125" (screened window cover is not acceptable)	<input type="checkbox"/>	<input type="checkbox"/>
52" wide side door at front corner of curbside of body with Stainless Steel Locking Bar	<input type="checkbox"/>	<input type="checkbox"/>
6" Wide Conspicuity Reflective Tape inverted "V" Red/Yellow complete rear of body and 1-3/4" red white down side of body line	<input type="checkbox"/>	<input type="checkbox"/>
Switch N Go Subframe with 6" Rollers		
<ul style="list-style-type: none"> All dissimilar metals to have Teflon liner between the two (2) metals before installation 	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS: (Cont'd)</u>		
<u>5BB. Maxscaper 12' Aluminum Landscaper Body Attachment (Cont'd)</u>		
Aluminum Leaf/Chipper Top:		
All Aluminum Construction	<input type="checkbox"/>	<input type="checkbox"/>
Bolts to top rail of Landscape Body	<input type="checkbox"/>	<input type="checkbox"/>
Extruded Aluminum Frame	<input type="checkbox"/>	<input type="checkbox"/>
Smooth Side 1/8" Mill Finish sides	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Duty 3/16" front wall sheet	<input type="checkbox"/>	<input type="checkbox"/>
Punched Ventilation in roof sides		
- 3 6" x 12" punched vents screened in bulkhead		
- 1 6" x 12" punched vent screen in front section of each side		
- 3 6" x 12" punched vents screened in center of each side of body		
- 1 6" x 12" punched vent screen in rear panel on each side of body	<input type="checkbox"/>	<input type="checkbox"/>
Punched Ventilation in roof top		
- 4 12" x 12" screened vents spaced evenly in the roof	<input type="checkbox"/>	<input type="checkbox"/>
Lifting hooks total of 4		
Rear of chipper top shall have a single aluminum fold down door and be pin able to work in conjunction with rear doors so it doesn't flop around, upfitter shall cut a hole in door to work with leaf machine approximately 12" in diameter, bottom of the hole to be 105" off ground	<input type="checkbox"/>	<input type="checkbox"/>
Teflon gasket to be installed on bottom of the leaf/chipper top	<input type="checkbox"/>	<input type="checkbox"/>
Switch N Go Rails and undercarriage to be coated with Ziebart undercoating.	<input type="checkbox"/>	<input type="checkbox"/>
<u>5CC. Chipper Leaf Top for Landscaper</u>		
Bolt on Chipper top for Aluminum Landscaper		
Additional venting for leaf cap, must specify at order	<input type="checkbox"/>	<input type="checkbox"/>

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5DD. Diagnostic Tools / Test Equipment

- | | | |
|---|--------------------------|--------------------------|
| 1. Successful bidder shall be required to supply between one (1) and three (3) complete sets of OEM 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) | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. All software installations and activations will be completed by the successful bidder at no cost to the County | <input type="checkbox"/> | <input type="checkbox"/> |
| 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 | <input type="checkbox"/> | <input type="checkbox"/> |
| 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 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Training shall be provided on all items in this section at a specified County Location | <input type="checkbox"/> | <input type="checkbox"/> |

5EE. 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.

5FF. 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:

- #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.

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5FF. Installation of County Supplied Two Way Radio and Accessories (Cont'd)

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.

5GG. Technical Support

Technical Support is to be provided by factory authorized technical representatives and shall 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

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 shall be allowed only with consent of Vehicle Services

Total training hours shall be provided and no additional compensation will be considered

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

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 education

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5GG. Technical Support (Cont'd)

Technical Support for Vehicle Services may be provided at the following fleet maintenance facility locations 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

Successful bidder shall provide Technical Support sessions for other Departments which will be held at an Ocean County location specified by the requesting Department

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