



Carrie Eklund
Central Services Manager
Finance Department

**INVITATION TO BID
BUCKET LIFT AND TRUCKS
BID NO.: 912-PW-122**

9/11/12

Name of Bidding Firm: _____
Address _____ City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
E-Mail: _____

Bid Opening Time and Date 11:00 a.m., Local Time, Tuesday, October 2, 2012

Bids will be accepted until the specified opening time and date. Any bidder attempting to deliver after the opening time and date will be refused.

Bid Deposit/Bid Bond: NO
Prevailing Wage NO
Performance Bond: NO

PLEASE MARK THE RETURN SEALED ENVELOPE:

1. Bid Opening Date and Time
2. Title of Job
3. Bid Number

RETURN BIDS TO:

City of Rockford
Central Services Manager
425 East State Street, 4th Floor
Rockford, Illinois 61104
Telephone: (815) 987-5560

BIDS SUBMITTED BY FACSIMILE OR E-MAIL WILL NOT BE ACCEPTED

BID RESULTS:

Bid results may be obtained by telephone at (815) 987-5560, by fax at (800) 380-7174, or at www.rockfordil.gov

CITY OF ROCKFORD, ILLINOIS—BIDDING GENERAL CONDITIONS

1. Pricing. The bidder shall insert price for all bid items and all other information requested in these specifications. The price shall be the *full, delivered cost* to the City of Rockford with no additions.
2. Total versus “Per Item” Awards. The City generally awards contracts based on a lump sum basis to the lowest responsible and responsive bidder. However, the City may choose to award on a per item basis. Therefore, each bidder must submit pricing for each item indicated on the bid forms. Bidders must clearly indicate which items are bid and which are not.
3. Delivery of Merchandise. Delivery terms will always be Freight On Board (FOB)—Destination. The City of Rockford accepts no responsibility for the condition of any merchandise purchased prior to acceptance by City Personnel. Failure to comply with this requirement may constitute rejection of the bid.
4. Acceptance of Merchandise at Delivery. The City of Rockford reserves the right to refuse acceptance of delivered merchandise that differs substantially from the specifications in this invitation to bid or as otherwise permitted by Illinois law.
5. Prompt Payment Act. The City of Rockford intends to comply with the governmental prompt payment act. The awarded vendor will be paid upon submission of invoices to: City of Rockford Accounts Payable, 425 East State Street, Rockford, IL 61104.
6. W-9 Request for Taxpayer Identification Number. Prior to issuance of a purchase order, the successful bidder will be required to supply the City of Rockford with a federal W-9 Request for Taxpayer Identification Number and Certification. Failure to comply with this requirement will be considered a violation of contract terms, for which the City may bar the vendor from bidding for a period of up to three years.
7. Legal Compliance. The vendor awarded this contract will comply with all Federal, State, County, and City laws, ordinances, rules and regulations, which in any manner affect the product or service placed for bid herein. Lack of knowledge on the part of the awarded vendor of applicable law will in no way be cause for release of this obligation. If the City becomes aware of violation of any laws, ordinances, rules and regulations on the part of the awarded vendor, it reserves the right to reject any bid, cancel any contract, and pursue any other legal remedies deemed necessary.
8. Legal Requirements. This contract sets forth the entire final agreement between the City of Rockford and the bidder and shall govern the respective duties and obligations of the parties. The validity of this contract, and any disputes arising from the contract, shall be governed by the laws of the State of Illinois. Any litigation under this agreement shall be resolved in the trial courts of Winnebago County, State of Illinois. Should a provision of this contract be declared invalid by a court of competent jurisdiction, it shall not affect the validity of the remaining provisions of the contract.
9. Safety. Prevention of accidents at any project is the sole responsibility of the awarded vendor and its subcontractors, agents, and employees. The awarded vendor, its subcontractors, agents, and employees shall be fully and solely responsible for the safety of this project. The awarded vendor shall retain exclusive and direct control over the acts or omissions of its subcontractors, agents and employees, and any other persons performing portions of the work and not directly employed by the awarded vendor.

10. Criminal Background Check. When necessary for the protection of citizens and/or City staff, the City may require an awarded vendor to conduct a criminal background check on all of its personnel who will have direct contact with City facilities or residents/businesses served under this contract. Personnel are defined as representatives, agents, employees, subcontractors, or anyone else who will be utilized to fulfill obligations under this contract. Criminal background checks, at a minimum, shall consist of a county level felony and misdemeanor check for each county in which the personnel resided in the last 10 years. The awarded vendor shall notify the City of any of its personnel who have been convicted of a felony or misdemeanor prior to commencing any work under this contract. At the City's discretion, personnel with any felony or misdemeanor convictions which raise a concern about the safety of building, property, or City staff/resident's personal security, or is otherwise job related (as determined by the City) shall not perform work under this contract. Once given notice that a background check(s) will be required, it must be completed within 14 calendar days so as to not delay work to be completed.

11. Control of the Work. With respect to the awarded vendor's own work, the City shall not have contractual, operational, and/or supervisory control over and/or charge of the work and shall not be responsible for construction means, methods, techniques, sequences, procedures, and programs in connection with the awarded vendor's work, since these are solely the vendor's responsibility under the agreement. The City shall not be responsible for the awarded vendor's failure to carry out the work in accordance with the agreement's terms and conditions. The City shall not have control over and/or charge of acts or omissions of the awarded vendor, its subcontractors, and/or their agents or employees, or any other person performing portions of the work not directly employed by the awarded vendor. The awarded vendor shall be considered to be an "independent contractor" pursuant to Illinois law.

12. Bid Bond. When required on the cover sheet, a bid bond for not less than 5 percent of the bid amount must accompany all bids as a guarantee that if the bid is accepted, the bidder will execute and file the proper contract. A bank cashier's check, bank draft, or certified check equal to the amount specified is acceptable in lieu of a bid bond. Bid bonds of the two lowest firms will be retained until the contract is awarded.

13. Performance Bond. When required by the specifications herein, the awarded vendor shall furnish a performance bond equal to the amount of the contract, acceptable to the City, within 14 calendar days after notification of contract award. Failure to furnish the required bond within the time specified may be cause for rejection of the bid and any bid deposit may be retained by the City as liquidated damages and not as a penalty.

14. Taxes. No charge will be allowed for taxes from which the City of Rockford, Illinois is exempt. The City of Rockford, Illinois is not liable for the Illinois Retailers' Occupation Tax, the Service Occupation Tax or the Service Use Tax. The City is exempt from the Federal Excise and Transportation Tax.

15. Withdrawal of Bids. Firms may withdraw or cancel their bids at any time prior to the advertised invitation to bid opening. After the opening time, no bid shall be withdrawn or cancelled. All bids shall be firm and valid for a period of sixty (60) calendar days. If a bidder to whom a contract is awarded refuses to accept the award, the City may, at its discretion, suspend the bidder for a period of time up to three (3) years.

16. Subcontracting. The bidder shall provide information for all subcontractors, leased operators/equipment, and suppliers and all other information requested in the Subcontractor and Supplier Detail Forms attached. Requests for deviations from the completed detail forms submitted must be made in writing, and reviewed and approved by the City's Diversity Procurement Officer and the Central Services Manager or designee. The awarded vendor may not subcontract any portion of the contract after award without written consent of the City of Rockford

Central Services Manager. When subcontractors are used, the awarded vendor is required to pay subcontractors promptly after completion of work. Delay of payment is prohibited.

17. Termination of Contract. The City of Rockford reserves the right to terminate the contract in its entirety or in portions, upon written notice to the awarded vendor, if the Rockford City Council does not appropriate sufficient funds to complete the contract or in the event of default by the awarded vendor. Default is defined as failure of the awarded vendor to perform any of the provisions of this contract or failure to make sufficient progress so as to endanger performance of this contract in accordance with its terms. In the event of default, the City may purchase the product(s) and/or service(s) from other sources and hold the defaulting company responsible for any excess costs occasioned thereby. The City may require payment of liquidated damages for non-performance. Should default be due to failure to perform or because of a request for a price increase, the City reserves the right to remove the firm from the City's bidder list for a period of up to three years.

18. Late Bids and Proposals. Regardless of cause, late bids and proposals will not be accepted and will automatically be disqualified from further consideration. It shall be solely the vendor's risk to ensure delivery at the designated office by the designated time. Late bids and proposals will not be opened and may be returned to the awarded vendor at their request and expense.

19. EEO Forms. Each firm shall be required to submit with its bid information all EEO forms included in the invitation to bid package. Any bid which fails to include the properly completed compliance items will not be read and will not be considered. All subcontractors shall also be required to comply with the same EEO forms as the firm.

20. Restrictive or Ambiguous Specifications. It is the responsibility of the bidding firm to review the invitation to bid specifications and to notify the Central Services Manager if the specifications are formulated in a manner that would unnecessarily restrict competition. Any such protest or question regarding the specifications or invitation to bid procedures must be received by the Central Services Division not less than seventy-two hours prior to the time set for the opening. In the event a contract term is not defined within the contract document, the term will be given its ordinary dictionary definition.

21. Bid Protest. Firms wishing to protest bids or awards shall notify the Central Services Manager in writing within 7 days after the invitation to bid opening. The notification should include the bid number, the name of the firm protesting, and the reason why the firm is protesting the bid. The Central Services Manager will respond to the protest within seven (7) calendar days. A successful protest may result in the reversal of a previously awarded contract.

22. Disputes. In case of disputes as to whether or not an item or service quoted or delivered meets specifications, the decision of the Central Services Manager, or authorized representative shall be final and binding to all parties. The Central Services Manager has the right to waive technicalities as they see fit. The Central Services Manager may request a written recommendation from the head of the department using the equipment or service being procured.

23. Exceptions. Any deviations from these specifications shall be noted and submitted with the bid. Failure to address deviations from specifications may result in bid rejection.

24. Acceptance/Rejection of Bids. The City of Rockford reserves the right to accept or reject any or all bids or proposals at any time, for any reason, including but not limited to the Rockford City Council not appropriating

sufficient funds to purchase equipment or complete the contract. The City may make awards in any manner deemed in the best interest of the City.

25. **Prevailing Wage.** When indicated on the cover page of this document, this contract calls for the construction of a “public work,” within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 *et seq.* (“the Act”). The Act requires awarded vendors and subcontractors to pay laborers, workers, and mechanics performing services on public works projects no less than the “prevailing rate of wages” (hourly cash wages plus fringe benefits) in the county where the work is performed. When required, awarded vendors are responsible for paying current prevailing wage rates, as posted on the Illinois Department of Labor’s website at: <http://www.state.il.us/agency/idol/rates/rates.HTM>. It is the awarded vendor’s responsibility to verify current wage rates, as they are updated monthly. All awarded vendors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice, and record keeping duties.

26. **Certified Payroll.** All Certified Payroll reports required to be submitted under the Prevailing Wage Act, 820 ILCS 130, must be submitted monthly via email, in Excel or some format compatible with Excel, to certified.payroll@rockfordil.gov.

27. **Substance Abuse Prevention.** When required by Illinois State Statutes, awarded vendors must have in place and file with the City a written program for prevention of substance abuse among its employees. This program must include pre-hire, random, reasonable suspicion, and post-accident drug and alcohol testing, as required by the Substance Abuse Prevention on Public Works Projects Act.

28. **Apprenticeship Requirement.** For construction contracts over \$50,000, awarded vendors must participate in apprenticeship and training programs approved and registered with the United States Department of Labor’s Bureau of Apprenticeship and Training for all Trades that will be in the awarded vendor’s (or his subcontractor’s) employment, with each worker receiving the required apprenticeship/training appropriate to his trade. Owners or work performed by owners is not exempt from the apprenticeship and training requirement.

29. **Indemnification.** To the fullest extent permitted by law, the awarded vendor shall indemnify and hold harmless the City, its officers, representatives, elected and appointed officials, agents, and employees from and against all claims, damages, losses and expenses, including but not limited to attorney’s fees, arising out of or resulting from the awarded vendor’s performance of work under this agreement, and indemnifies and agrees to defend and hold harmless the City against any and all losses, claims, damages, and expenses arising from the work performed hereunder of the erection, construction, placement, or operation of any scaffold, hoist, crane, stay, ladder, support, or other mechanical contrivance in connection with such work including but not limited to losses, claims, damages, and expenses arising pursuant to claims asserted against the City pursuant to theories premised upon section 414 of the Restatement (Second) of Torts and section 343 of the Restatement (Second) of Torts.

This indemnification agreement shall not be limited in any way by any limitations on the amount or type of damages, compensation, or benefits payable by or for the awarded vendor under Worker’s Compensation Acts, disability benefit acts, or other employee benefit acts, and serves as an express agreement to waive the protection of *Kotecki v. Cyclops Welding Corp.*, 146 Ill.2d 155, 585 N.E.2d 1023 (1991) in Illinois.

Further, the awarded vendor agrees that it is solely responsible for compliance with all safety laws applicable to the work performed hereunder, including but not limited to the Occupational Safety and Health Act of 1970 and the Construction Safety Act of 1960 and all standards and regulations which have been or shall be promulgated by the agencies which administer the Acts.

Under no circumstances shall the awarded vendor, its subcontractors, agents, and employees be required to indemnify the City for its own negligence.

30. Officers. Each bidder affirms, by submission of a response to this bid or request for proposals, that no officer of the City of Rockford, Illinois, is directly or indirectly interested in the proposal for any reason of personal gain.

31. Non-Waiver. The failure by the City to require performance of any provision shall not affect the City's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this contract constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

32. Professional Services Selection Act. The City of Rockford intends to comply with 50 ILCS 510/5 governing the selection of professional services. Any reference in these terms and conditions to supplying pricing or price as a determining factor in selection do not apply for services covered by said act.

33. The City of Rockford reserves the right to accept or reject any and all proposals and to waive technicalities in submitted bids.

**BID REQUIREMENTS FOR
EQUAL EMPLOYMENT OPPORTUNITY**

All bidders seeking to do business with the City of Rockford are **REQUIRED** to submit with any formal, sealed bid all of the following documents and information, attached herewith, completed and signed:

1. Equal Employment Opportunity Affirmative Action Plan Statement of Policy.
2. The Statement of Non-Compliance and Certificate of Non-Segregated Facilities.
3. The Contractor or Vendor Workforce Data Form listing all current employees, by classification, directly employed by the bidder. All categories of information requested must be supplied.
Note: The number of employees must be entered under each category (no check marks)

Below are the Federal definitions of the following racial groups accepted as minorities by the City of Rockford:

Black: A person having origins in any of the Black racial groups of Africa, not of Hispanic origin.

Hispanic: A person of Spanish or Portuguese culture with origins in Mexico, South or Central America, or the Caribbean Islands, regardless of race.

Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes for example, China, Japan, Korea, the Philippine Republic and Samoa.

American Indian or Alaskan Native: A person having origins in any of the original peoples of North America.

4. Your State of Illinois Pre-Qualification Certification Number, issued by the Illinois Department of Human Rights for the Illinois Department of Human Rights Act, **must provide expiration date entered in the place provided therefore.**
5. Certificate of Non-Barred Bidding
6. All executed Subcontractor/Leased Operator and Supplier forms.

If you have not obtained your State of Illinois Pre-Qualification Number (item #4), by signing these documents you agree to make application for this number within 30 days from the date of bid opening.

ANY BID WHICH FAILS TO INCLUDE THE CITY OF ROCKFORD EEO PAGES 2, 4, AND 5, COMPLETED AND SIGNED WITH YOUR SEALED BID WILL NOT BE READ AND WILL NOT BE CONSIDERED – NO EXCEPTIONS.

Falsification of any required Equal Employment Opportunity or Affirmative Action information on the part of the bidder could result in rejection of the bid submitted or in the case where a contract has already been awarded, in the cancellation of said contract.

Any questions pertaining to E.E.O. requirements should be addressed to Ron Moore, Diversity Procurement Officer, Legal Department, 425 East State Street, Rockford, Illinois 61104, Phone: (815) 987-5622 or ron.moore@rockfordil.gov

EQUAL EMPLOYMENT OPPORTUNITY
AFFIRMATIVE ACTION PLAN
STATEMENT OF POLICY

It is the policy of this company, _____
to provide equal employment opportunity without regard to race, religion, color, national origin, handicap, age or sex through a program of positive action affecting all employees. In this program, our company carries out the requirements of Federal Executive orders 11246 and 11375, Civil Rights Act of 1964, Equal Employment Act of 1972, and all other applicable laws, and indicates its active support of the principle of equal opportunity in employment.

At present, _____ % of our work force are minorities and _____ % of our work force are females, and we will attempt to utilize minorities and females through a positive, continuing program in all jobs for which we contract in the future. Our company will utilize referrals from the City of Rockford's Diversity Procurement Officer for use of minorities and females regarding any future job vacancies.

It is also our intent to make efforts to purchase supplies or equipment from small business concerns located in the City of Rockford or counties of Winnebago or Boone and owned in substantial part (at least 51 per cent) by minorities or females.

_____ is the official who will be responsible for implementing this policy statement.

_____ will be designated as the Equal Opportunity Officer in our company, responsible for submission of all required equal employment opportunity documents.

In addition, _____ is hereby authorized to sign payroll as well as this company's officers. (NOTE: If only officers will be authorized to sign payrolls, please fill in "No One" in this space.)

STATEMENT OF NONCOMPLIANCE

If the equal employment opportunity hearing committee determines that a contractor, subcontractor/leased operator of equipment or bidder is not in compliance with this chapter, (also known as Chapter 11, Article III the City of Rockford Equal Opportunity Employment Ordinance), the hearing committee shall issue and serve upon such person a written statement of noncompliance setting forth the manner in which it finds such person has violated this chapter, and imposing and/or requiring appropriate sanctions, including, but not limited to any and/or all of the following:

- a. Denying, suspending or revoking qualifications, or declaring the contractor or subcontractor irresponsible and ineligible for future contracts or subcontracts until such time as the contractor or subcontractor shall demonstrate to the equal employment opportunity hearing committee that it is in compliance;
- b. Withholding or delaying payment on the contractor or;
- c. Suspending, avoiding or canceling contract work.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid.

The bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors/leased operators of equipment for specific time periods) he/she will obtain identical certification from proposed subcontractors/leased operators of equipment from the provisions of the Equal Opportunity clause, and that he/she will retain such certification in his/her files.

CERTIFICATE OF NON-BARRED BIDDING

The undersigned certifies that it is not barred from bidding on this contract as a result of a conviction for the violation of State laws prohibiting bid rigging or bid rotating. The undersigned also certifies that current or prospective employees, contractors, and subcontractors/leased operators of equipment are not listed as Excluded Individuals/Entities with the US Government, as maintained by the US General Services Administration.

By signing below, the firm agrees that all information provided in the previous pages is accurate, and that if the firm below does not currently have a Department of Human Rights number they will apply for one within thirty days with the State of Illinois.

[Redacted Signature Area]

Authorized Signature

[Redacted Title Area]

Title

[Redacted Firm Name Area]

Firm

Our firm is a:

Minority Business Enterprise _____

Women Business Enterprise _____

Neither _____

City-Certified? Yes ___ No ___

City Certified? Yes ___ No ___

(Revised 12/21/09)

**Bucket Lift and Truck
Bid 912-PW-122**

1.0 Purpose

It is the purpose of these specifications to describe (2) Two Bucket Lifts and Trucks required by the City of Rockford. Trucks shall meet all 2010 engine emissions requirements.

2.0 General Requirements

- 2.1 Evaluation of Bid: Each bid shall be evaluated to determine whether the proposed product or service complies with the specifications detailed in this document. If this evaluation determines that a bid does not comply with the specifications set forth in this invitation to bid, then that bid shall be eliminated from consideration.
- 2.2 Evaluation Team: A team composed of staff from the Finance and Public Works departments shall evaluate each bid.
- 2.3 Evaluation Criteria: The evaluation team will evaluate bids based on total bid price and the ability of the bidder to comply with specifications.
- 2.4 Basis of Award: The City will award this contract to the lowest responsive and responsible bidder that is able to meet the requirements and criteria set forth in this document. A “responsive” bidder is able to provide a product or service that conforms in all material respects to the specifications detailed in this document. A “responsible” bidder is a corporation, company, or person who has the ability in all respects to provide the product or service desired at the highest possible standards of quality. A responsible bidder has the integrity and reliability to fully perform all contract requirements and assure good faith performance.
- 2.5 Questions: All questions regarding these specifications should be directed to Carrie Eklund, Central Services Manager, at (815)-987-5565 or carrie.eklund@rockfordil.gov.
- 2.6 Delivery Date: The successful bidder must deliver all trucks complete with all equipment specified in this document. All trucks and equipment must arrive to the City of Rockford in good working order, within sixty (60) to ninety (90) working days from the date of written approval given by the City.
- 2.7 Manuals. A line setting sheet and manual(s) containing operating and servicing instructions for the equipment shall be provided with each unit. The manual(s) shall be as detailed as possible outlining all necessary operating and servicing instructions for the equipment, including its components. Necessary warnings and safety precautions shall be included. In addition, technical (shop) manual(s) containing illustrated parts lists and a complete set of technician repair manuals for the entire unit including wiring diagrams and hydraulic schematics supplied with the equipment shall be provided. This can be supplied in paper manuals or in electronic format (on CD in Microsoft Word or PDF format).
- 2.8 Vendor’s Warranty. At a minimum, the successful bidder shall provide a one-year “bumper-to-bumper” warranty. Wherever referenced in this section and on this document’s Bid Form, “one-year” and “additional year” mean “12 months or 10,000 miles, whichever comes first.” The bidder may propose an additional warranty beyond the minimum, provided said additional warranty is included at no charge to the City of Rockford.

2.9 Training. The selected vendor will be required to provide on-site training for City of Rockford employees on the use of the vehicles for no additional cost. Training will be scheduled upon mutual agreement of both parties.

2.10 Exceptions. Please list all exceptions.

3.0 Minimum Chassis Requirements

APPLICATION: Bucket Lift (Utility)
MISSION: Requested GVWR: 33000. Calc. GVWR: 36220 Calc. Start / Grade Ability: 44.20% / 2.23% @ 55 MPH Calc. Geared Speed: 72.9 MPH
DIMENSION: Wheelbase: 205.00, CA: 137.90, Axle to Frame: 79.00
ENGINE, DIESEL: {Maxx Force DT} EPA 10, 260 HP @ 2200 RPM, 660 lb-ft Torque @ 1300 RPM, 2400 RPM Governed Speed
TRANSMISSION, AUTOMATIC: {Allison 3500_RDS_P} 4th Generation Controls; Wide Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
CLUTCH: Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING: {Meritor MFS-14-143A} Wide Track, I-Beam Type, 14,000-lb Capacity
AXLE, REAR, SINGLE: {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, With 200 Wheel Ends Gear Ratio: 6.14
CAB: Conventional
TIRE, FRONT: (2) 11R22.5 HSC1 (CONTINENTAL) 496 rev/mile, load range H, 16 ply
TIRE, REAR: (4) 11R22.5 HDR1 (CONTINENTAL) 495 rev/mile, load range H, 16 ply
SUSPENSION, RR, SPRING, SINGLE: Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring
PAINT: Cab schematic 100GN

Description Base Chassis, Model 7300 SBA 4X2 with 205.00 Wheelbase, 137.90 CA, and 79.00 Axle to Frame.

TOW HOOK, FRONT (2) Frame Mounted

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.250" x 3.610" x 0.375" (260.4mm x 91.7mm x 9.5mm); 456.0" (11582mm) Maximum OAL

BUMPER, FRONT Full Width, Aerodynamic, Heavy Duty, Steel

Includes : BUMPER, FRONT Powder Coated Gray (Argent) Color

WHEELBASE RANGE 189" (480cm) Through and Including 256" (650cm)

AXLE, FRONT NON-DRIVING {Meritor MFS-14-143A} Wide Track, I-Beam Type, 14,000-lb Capacity

SPRINGS, FRONT AUXILIARY Rubber

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 14,000-lb Capacity; With Shock Absorbers

Includes: SPRING PINS Rubber Bushings, Maintenance-Free

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

Includes:

BRAKE LINES Color and Size Coded Nylon

DRAIN VALVE Twist-Type

DUST SHIELDS, FRONT BRAKE

DUST SHIELDS, REAR BRAKE

GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster

PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel

PARKING BRAKE VALVE For Truck

QUICK RELEASE VALVE Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4

SLACK ADJUSTERS, FRONT Automatic

SLACK ADJUSTERS, REAR Automatic

SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4

BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers

DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank

Includes: DRAIN VALVE Mounted in Wet Tank

AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)

AIR DRYER {Bendix AD-IP} With Heater

Includes: AIR DRYER LOCATION Inside Left Rail, Back of Cab

BRAKE CHAMBERS, FRONT AXLE {Haldex} 24 SqIn

BRAKE CHAMBERS, REAR AXLE {Haldex GC3030LHDHO} 30/30 Spring Brake

Includes:

BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES

All 4x2, 4x4; WITH TRACTOR BRAKES

All 4x2, 4x4; 6x4 & 6x6 with Rear Tandem Axles Less Than 46,000-lb. or GVWR Less Than 54,000lb.

BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake

AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity

STEERING COLUMN Tilting

STEERING WHEEL 2-Spoke, 18" Diam., Black

STEERING GEAR {Sheppard M-100} Power

EXHAUST SYSTEM Single, Horizontal, After treatment Device Frame Mounted Outside Right Rail Under Cab; Includes Vertical Tail Pipe and Guard

Includes:

EXHAUST HEIGHT 10' Exhaust Height - Based on Empty Chassis with Standard Components (+ or - 1" Height)

MUFFLER/TAIL PIPE GUARD Non-Bright Finish

TAIL PIPE (1) Turnback Type, Non-Bright, for Single Exhaust

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

Includes:

BATTERY BOX Steel with Plastic Lid

DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab

FUSES, ELECTRICAL SAE Blade-Type

HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover

HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever

HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels

HORN, ELECTRIC Single

JUMP START STUD Located on Positive Terminal of Outermost Battery

PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light

RUNNING LIGHT (2) Daytime, Included With Headlights

STARTER SWITCH Electric, Key Operated

STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector

TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature

TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted

WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever

WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted

WIRING, CHASSIS Color Coded and Continuously Numbered

HORN, ELECTRIC (2)

POWER SOURCE Cigar Type Receptacle without Plug and Cord

ALTERNATOR {Leece-Neville LBP2224H} Brush Type; 12 Volt 120 Amp. Capacity, Pad Mount

BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame;

Includes: Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn

ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop,Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package With Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket

BATTERY SYSTEM {International} Maintenance-Free, (2) 12-Volt 1850CCA Total

RADIO {International} AM/FM Stereo With Weatherband, Clock, Auxiliary Input, Includes Multiple Speakers
 Includes:
 SPEAKERS IN CAB (2) Dual-Cone with Deluxe Interior
 SPEAKERS IN CAB (4) Coaxial with Premium Interior

BACK-UP ALARM Electric, 102 dBA

STOP, TURN, TAIL & B/U LIGHTS {Truck Lite LED Multi-Function Lamp} Mounted Outside Rails

SWITCH, BODY CIRCUITS, MID for Bodybuilder, 6 Momentary Switches in Instrument Panel; One Power Module with 6 Channels, 20 Amp Max. Per Channel, 80 Amp Max Output, Switches Control Power Module Through Multiplex Wiring, Mounted in Cab Behind Driver Seat

JUMP START STUD Remote Mounted Through Multiplex Wiring, Mounted in Cab Behind Driver Seat

JUMP START STUD Remote Mounted
 Includes: JUMP START STUD Mounted to Battery Box

HORN, AIR Black, Single Trumpet, Air Solenoid Operated

WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time

CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade

TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights

HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on

STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection

INDICATOR, LOW COOLANT LEVEL With Audible Alarm

ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, With Ignition "OFF" and any Door Opened

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except for 5-Amp Fuses

HOOD, HATCH (01) for Servicing

GRILLE Chrome

FRONT END Tilting, Fiberglass, With Three Piece Construction, Sloped Front

PAINT SCHEMATIC, PT-1 Single Color, Design 100

PAINT SCHEMATIC ID LETTERS "GN"

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

KEYS - ALL ALIKE Fleet - Includes Ignition and Cab Door Keys

KEYS - ALL ALIKE, ID Z-250

PROMOTIONAL PACKAGE Government and Municipal Silver Package; Two Year Limited Subscription of On-Command Service Information (Formerly Fleet ISIS), and On-Command Parts Information (Formerly Fleet Parts Catalog), Requires Specific Feature Combinations

CLUTCH Omit Item (Clutch & Control)

ENGINE, DIESEL {MaxxForce DT} EPA 10, 260 HP @ 2200 RPM, 660 lb-ft Torque @ 1300 RPM, 2400 RPM Governed Speed
 Includes : AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis Only)
 ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxForce Engines :
 COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control :
 CRUISE CONTROL Electronic; Controls Integral to Steering Wheel :
 ENGINE OIL DRAIN PLUG Magnetic :
 ENGINE SHUTDOWN Electric, Key Operated :
 FUEL FILTER Included with Fuel/Water Separator :
 FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted :
 GOVERNOR Electronic :
 OIL FILTER, ENGINE Spin-On Type :
 WET TYPE CYLINDER SLEEVES

FAN DRIVE {Borg-Warner SA85} Viscous Type, Screw On
 Includes: FAN Nylon

RADIATOR Aluminum; 2-Row, Cross Flow, Over Under System, 1045 SqIn Louvered, with 373 SqIn CAC, with 369 SqIn LTR, with In-Tank Transmission Oil Cooler
Includes: DEAERATION SYSTEM with Surge Tank

HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps

RADIATOR HOSES Premium, Rubber

FEDERAL EMISSIONS for 2010; MaxxFace DT Engines

AIR CLEANER With Service Protection Element
Includes: GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxFace post 2007 Emissions Electronic Engines

EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Idle Regulations

TRANSMISSION, AUTOMATIC {Allison 3500_RDS_P} 4th Generation Controls; Wide Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000lb GVW & GCW Max.
Includes:
OIL FILTER, TRANSMISSION Mounted on Transmission
TRANSMISSION OIL PAN Magnet in Oil Pan

TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission

TRANSMISSION OIL Synthetic; 29 thru 42 Pints

ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction

TRANSMISSION TCM LOCATION Located Inside Cab

SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary

PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping and Wiring

AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, With 200 Wheel Ends . Gear Ratio: 6.14
Includes: REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring

FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L Capacity, 16" Tank Depth, With Quick Connect Outlet, Mounted Left Side, Under Cab

CAB Conventional
Includes:
ARM REST (2) Molded Plastic; One Each Door
CLEARANCE/MARKER LIGHTS (5) Flush Mounted
COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window
CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel
DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted
GLASS, ALL WINDOWS Tinted
GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side
GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side
INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color
STEP (4) Two Steps Per Door

GAUGE CLUSTER English With English Electronic Speedometer
Includes:
GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level
ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout
WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)

GAUGE, OIL TEMP, ALLISON TRAN

GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Cloth, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust
Includes: SEAT BELT 3-Point, Lap and Shoulder Belt Type

SEAT, PASSENGER {Gra-Mag} Non Suspension, High Back, Fixed Back, Integral Headrest, Cloth
Includes: SEAT BELT 3-Point, Lap and Shoulder Belt Type

MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostat Controlled, Power Both Sides Flat Glass Only, Clearance Lights LED, GRAB HANDLE Chrome; Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar

MIRROR, CONVEX, HOOD MOUNTED (2) {Lang Mekra} Heated, Left and Right Sides 7.44" Sq

AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster
Includes:
HEATER HOSES Premium
HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps
REFRIGERANT Hydrofluorocarbon HFC-134A

CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator

INSTRUMENT PANEL Center Section, Ergonomic Panel

WINDOW, POWER (2) And Power Door Locks, Left and Right Doors, Includes Express Down Feature

HVAC FRESH AIR FILTER

STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door

FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood

CAB INTERIOR TRIM Deluxe
Includes:
"A" PILLAR COVER Molded Plastic
CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering
CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket
DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors
FLOOR COVERING Rubber, Black
HEADLINER Soft Padded Cloth
INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section
STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door
SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console

CAB REAR SUSPENSION Air Bag Type

WHEELS, FRONT DISC; 22.5" Painted Steel, 2 Hand Hole, 10 Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs
Include : PAINT IDENTITY, FRONT WHEELS White

WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 2 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs
Includes : PAINT IDENTITY, REAR WHEELS White

(4) TIRE, REAR 11R22.5 HDR1 (CONTINENTAL) 495 rev/mile, load range H, 16 ply
(2) TIRE, FRONT 11R22.5 HSC1 (CONTINENTAL) 496 rev/mile, load range H, 16 ply

4.0 Minimum Lift Specifications

4.1 VO-270E Reverse mount - Platform stows over cab

- Reverse mounted, insulated overcenter aerial device with a minimum platform height of 70 ft. 10 in. (21.6 m). Working height shall be no less than 75 ft. 10 in. (23.1 m). Based on a 40 in. frame height.
- Overcenter horizontal reach to be a minimum of 50 ft 8 in. (15.4 m)
- Non-Overcenter horizontal reach to be a minimum of 46 ft. 5 in (14.1 m)
- Travel height not to exceed 12 ft. 9 in. (3.88 m) m). Based on a 40 in. frame height.

- Minimum platform capacity of 300 lbs (136 kg).
- Minimum platform capacity of 350 lbs (160 kg).
- The unit must be manufactured in a ISO 9001 certified facility.

4.2 Control System

- Upper control station includes a full pressure single stick control including a safety trigger to prevent inadvertent operation. The control panel is mounted between the boom and platform. The lift movements correspond with control lever movements.
- Full pressure individual controls below rotation. Controls rotation, upper boom, and lower boom movements. The lower controls are multi-lever with a control selector valve to override the upper controls.
- The start/stop system has been designed so that the lift cannot be operated normally unless the Versalift power switch is activated and the truck ignition is in the "on" position. This feature makes it difficult for unauthorized individuals to operate the lift when the truck is locked. Start/stop controls are located at the upper and lower control stations.
- Emergency power system consisting of a hydraulic pump driven by a DC motor, powered by the truck engine battery. The system is connected in parallel with the main pump and is designed for non-continuous operation. This system can be operated from the upper or lower controls.
- Engine throttle control gives a choice between idle speed or higher speed for increased hydraulic flow. This system can be operated from the upper or lower controls.

4.3 Upper Boom Assembly

- The upper boom articulation is accomplished by a double acting hydraulic cylinder and 4-bar mechanical linkage. The system does not use any cables and the booms can be stowed in any sequence.
- In the event of a hydraulic failure, the integral holding valves prevent the booms from dropping by locking the booms in position. In addition the cylinder rod eye is both threaded and welded
- When stowed, the cylinder rods are retracted, protecting it from damage or grime.
- The rectangular upper boom tapers from 8 in. x 12 in. (200 mm x 300 mm) at the elbow end to 8 in. x 10 in. (200 mm x 250 mm) at the platform end and is constructed of high strength filament-wound epoxy resin fiberglass. The fiberglass has a gel coat and a high gloss durable urethane finish for added weather protection and water beading.
- The fiberglass boom is certified for 46 KV and below in accordance with ANSI A92.2 Category C dielectric rating requirements.
- The fiberglass boom is certified for 46 KV and below in accordance with ANSI A92.2 Category B dielectric rating requirements. This system includes interior and exterior test bands and bonding of all interior boom parts at the elbow end of the upper boom, wired to a single external plug.

4.4 Lower Boom Assembly

- The lower boom is designed and constructed from high strength steel plate, forming a 10 in. x 12 in. (250 mm x 300 mm) rectangular tube.
- Boom articulation is 125 degrees, from horizontal to 35 degrees past vertical. Articulation is achieved by using a double-acting hydraulic cylinder equipped with two integral holding valves.
- In the event of a hydraulic failure, the integral holding valves prevent the booms from dropping by locking the booms in position. In addition the cylinder rod eye is both threaded and welded
- When stowed, the cylinder rods is retracted, protecting it from damage or grime.
- Each end of a high strength filament-wound epoxy resin fiberglass is inserted into the steel boom sections. The fiberglass insert maintains a 24 in. (0.61 m) insulation gap between the two steel sections.
- The steel and fiberglass sections are bonded with pressure-injected adhesive, which fills all the voids. After the adhesive cures, 16 bolts are installed to assure maximum strength.
- A stainless steel stud is supplied at each end of the insert to shunt the chassis insulating system during electrical testing.

4.5 Turret/Rotation

- Turret wings are made of high strength steel plate. The bearing cover is continuously welded to prevent foreign materials from obstructing the turret's rotation. The 1-1/4 in. (32 mm) turret base plate is machined to provide a flat surface to support the rotation bearing.
- The turret plate is machined flat to support the rotation bearing. A bearing cover is provided to prevent foreign material from interfering with lift rotation.
- Rotation is continuous and unrestricted in either direction. This is accomplished by a hydraulically driven worm and spur gear acting on a shear-ball rotation bearing. An eccentric ring gearbox mounting allows for precise adjustments to the gearbox to pinion clearance.
- The critical bolts holding the lift to the rotation bearing and the rotation bearing to the pedestal exceed SAE grade 8 specifications. These critical bolts are Torque Seal Marked to provide a quick means to inspect for loosening.

4.6 Elevator

- The reverse mount longitudinal elevator is actuated by two double acting cylinders. An equalizer link keeps each cylinder synchronized through the full range of motion. All major components are fully boxed to provide a stiff and secure structure.
- The top plate of the elevator is 1-1/4 in. (32 mm) thick and machined flat to support the rotation bearing.
- Bulkhead 30 gallon (115 L) reservoir has antisplash baffles, a return line filter gauge, and easy to read fluid level gauges.
- Frame rail mount 30 gallon (115 L) reservoir has antisplash baffles, a return line filter gauge, and easy to read fluid level gauges.

4.7 Platforms and Options

- 24 in. x 30 in. x 42 in. (.61m x .76m x 1.07m) closed fiberglass platform with one step.
- Platform must be side mounted. Platform leveling is achieved automatically through a completely enclosed parallelogram system. The major components of this system include 1/2 in. (13 mm) diameter fiberglass leveling rods, and No. 60 high strength roller chain. There are no cables used in this system.
- Mechanical platform tilt with locking pin is included at the upper controls to aid in rescue or cleanout.
- Safety belt and lanyard. The anchor for each lanyard is attached to the platform support assembly.
- Platform liner is tested and rated for 50 KV AC.
- Soft vinyl platform cover.
- Platform rest provides support during road travel.

4.8 Hydraulic System

- The open center hydraulic system operates at 2900 PSI (205 kg/cm²) at 7 GPM (26 LPM). The pump draws oil through a 100 mesh suction strainer that is equipped with a bypass valve. A 10 micron return filter with shut-off valve is included.
- A 10 micron return line filter, mounted above the hydraulic oil level and inside the pedestal, can be easily changed without draining the reservoir. A filter gauge with a color coded range is used to monitor the condition of the return line filter for replacement.
- Two sets of hydraulic tool ports (two pressure ports and two return ports) are standard at the upper controls. A pressure reducing valve is used to limit the tool pressure. This valve is preset at 2000 PSI (140 kg/cm²), but can be adjusted to the desired tool pressure. The tool circuit provides a 7 GPM (26 LPM) flow rate.
- A flow control valve is included with the tool circuit to limit flow to the tools. The valve is pre-set at 5 GPM (19 LPM), but can be adjusted from 4 GPM (15 LPM) to 6 GPM (23 LPM) to provide the desired flow.

4.9 General

- Non-lube bearings are used at most points of motion. Only the rotation gearbox and rotation bearing require periodic lubrication.

- The complete unit is primed and painted with white urethane prior to assembly.
- The high pressure hoses routed through the booms are non-conductive hoses with swaged hose end fittings. Reusable hose fittings can be installed if a hose is damaged.
- Two custom built operator's manuals and two service manuals are included.
- All cylinders are equipped with type AQ seals, nylon backup rings, non-metallic bearings on pistons and end glands, rod wiper rings, threaded and welded rod ends, and chrome plated rods
- Pins are high strength alloy steel and chrome plated for a hard finish and corrosion resistance. Cylinder pins are held in place with Torque Seal marked bolts at one end and a pin cap bolted to the other end.
- The lifting eye attachment is located near the elbow on the lower boom. The lifting eye has a maximum capacity of 1500 lbs. (680 kg).
- Single upper boom cylinder with no exposed rod when stowed. (Dual upper boom cylinder not acceptable).

4.10 Stabilization

- A-frame outriggers are connected to the elevator subframe and are equipped complete with pilot operated check valves, internal thermal relief valves, and separate operating controls for each outrigger. At maximum extension the outriggers provide 155 in. (3.9 m) of spread and a maximum of 7 in. (178 mm) of penetration based on a 39 in. (1.0 m) frame height.
- Auxiliary A-frame outriggers are shear plate mounted to the frame. Outriggers are equipped with pilot operated check valves, internal thermal relief valves, and each outrigger is operated by a separate control. At maximum extension, the outriggers provide 122 in. (3.1 m) of spread.
- The outrigger/boom interlock option is designed to prevent the lift from being operated until the outriggers contact the ground. The interlock also prevents the outriggers from being retracted before the aerial lift is properly stored.
- Outrigger down alarm sounds when outriggers are in motion. Outrigger valves are provided with Integral microswitches.

5.0 Minimum Body Specifications

5.1 Body

- 132" L x 60" inside H x 96" w/chip box – No front cutout
- 12 ga galvaneal side and front panels
- 10 ga galvaneal floor
- 14 ga galvaneal roof panels with formed ribs (act as vents and provide strength)
- 12" H x 5" upper radius panels
- 7ga rear upper corner gussets with light pockets
- Side panels with three (3) formed vertical channels welded to interior of each side for strength
- 24" H double panel 16 ga galvaneal swing to side tailgate (270 degrees) with 4" HD hinges w/grease zerks
- Coal tar epoxy interior in chip load space
- RH interior ladder box 17.5" W with 13" opening with pruner shelf 26" H above floor-pruner shelf 14.6" H
- 3" structural channels @ 4.1 lb/ft
- 5" structural channel long sills @ 9 lb/ft
- Two (2) 7: W x 50" H formed channels as rear upright support posts
- 12" H formed light boxes with light pockets & license plate recess street side
- One (1) 4" x 4" x ¼ " rear horizontal support tube
- Undercoating
- Rear ID light bar
- Four (4) 4" round st, t, and t lights at rear
- Two (2) 4" round back-up lights

- Two (2) front marker lights
- Two (2) side marker lights
- One (1) License plate light

5.2 Wrap Around Tool Boxes

- One (1) 80" L street side vented compartment with three (3) doors and two (2) shelves in one compartment and slide out robe hooks in other two (2) compartments. 14 ga. Galvanneal steel top panel and compartment bottom, 16 ga galvanneal steel side panels.
- One (1) 44" L curb side vented compartment with two (2) doors and two (2) shelves in each compartment. 14 ga. Galvanneal steel top panel and compartment bottom, 16 ga galvanneal steel side panels.
- Recessed Doors – Double panel doors – 16 ga galvanneal steel inner panel, 14 ga galvanneal outer panel w/clip on automotive style door seal, stainless steel hinges and stainless steel, lockable T-handle style latches.
- Thru tunnel between curb side and street side compartments at rear, 36" W lateral tool box with drop down door, curbside access, with 29" W step below door opening
- Curb side access steps and grab rail on compartment top
- Street side compartment with chain saw holder
- Rotary bar locks both curb side and street side
- Grab rail to rear of 44" box above step
- Exterior vertical bar locks over each door for padlock
- Full cab guard to include ladder entrance w/grab handles on curbside behind chassis cab, to be ½ treadplate over chassis cab ½ screened
- Chipper body and storage boxes to be one coat finish paint to match cab – White

5.3 Sub-frame Scissor Hoist

- Class D/40, 5" cylinder / 20" stroke, 2" diameter rod, capacity range 8 – 14 tons
- Hoist controls installed curbside with aerial ground controls

5.4 Warning Lights

- Four (4) head Whelen 4" round amber flashing lights
- Two (2) installed rear upper corners of chip body, two (2) installed front upper corners of cab guard. Cab guard lights to be mounted on corners of cab guard w/protective covers.
- 3" x 2" x 3/16 front tube riser assembly with spring mounts and corner gussets with strobe cutouts
- Main frame – 2" x 2" x 1/8" square tube
- Front top screen – 10 ga galvanneal steel with 1.25" x 3.70" punched/extruded obround holes.

Bid Form
Bid: 912-PW-122

	Quantity	Unit Price	Total Price
Bucket Lift and Truck per specifications	2	\$ _____	\$ _____

Person, Firm or Corporation

Authorized Signature and Title