

Bidder Tabulation - Bid #RFQ006761

Purchase of 55ft Hybrid Bucket Truck

Opened October 19, 2017

Bidder Name/Address	Contact Name/#	References	Experience	Warranty	Build Sheet	Literature	Manuals	Attachments	C.C. #	Other
Fyda Freightliner	Steve Tancos stancos@fydafreightliner.com	Y	Y	Y	Y	Y		Y		Bidder may be considered non-responsive to the bid spec for section 3.3.12.12 and a whole page of exceptions that were not submitted during the Q&A; the quote expiration will need to be rescinded. If awarded, a bid waiver would be required.
Utility Truck Equipment	John Mattix jmattix@utilitytruck.net	N	N	Y	Y	Y		Y		If awarded, bidder will need to submit references and experience letter.

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Vendor #	Type	Line #	Alt.	Total	Product name	Qty	Unit price	Comment	Lead Time
4301	Header		No	\$ 230,216.00					
4301	Line	10	No	\$ 230,216.00	55 ft hybrid electric bucket truck	1	\$ 230,216.00	Please see additional notes from Terex and Fyda	
4301	Line	20	No	\$ -	Hydraulic Crimping Press	1	\$ -		
4301	Line	30	No	\$ -	Fairmont Impact Wrench	1	\$ -		
4301	Line	40	No	\$ -	On-board Diagnostics	1	\$ -		
4301	Line	50	No	\$ -	Manufacturer Service Training Schoo	2	\$ -		
4562	Header		No	\$ 341,735.00					
4562	Line	10	No	\$ 325,795.00	55 ft hybrid electric bucket truck	1	\$ 325,795.00	270-300 Day Del A.R.O.	
4562	Line	20	No	\$ 3,950.00	Hydraulic Crimping Press	1	\$ 3,950.00	with hoses and couplers	
4562	Line	20	Yes	\$ 0.01	Error	1	\$ 0.01		
4562	Line	30	No	\$ 1,990.00	Fairmont Impact Wrench	1	\$ 1,990.00	with hoses and couplers	
4562	Line	40	No	\$ -	On-board Diagnostics	1	\$ -	No Bid/Not Available	
4562	Line	50	No	\$ 10,000.00	Manufacturer Service Training Schoo	2	\$ 5,000.00	for both Versalift and Odyne	

FYDA FREIGHTLINER

City of Columbus
Purchasing
77 N Front St
Columbus Oh 43215

RE: RFQ006761 55' Bucket truck

Please see options listed on page 7 of the Terex quote not included in the bid price..

RFQ006761 BIDDER GUIDE

The following information is provided by the City of Columbus to assist you in navigating the formal bid procedures. This information is not to supersede or replace any of the actual bid specifications or requirements; its sole purpose is to provide information on the process. If you have any questions regarding the process, please contact the appropriate City of Columbus representative listed on the bid solicitation (for specification questions see instructions below).

Any addenda issued by the City of Columbus will be posted on this site. The City of Columbus will send notification of addenda to Bidders that have an active login id and password with Columbus Vendor Services and are registered for the commodity code(s) associated with this solicitation.

Though the notification methods above will be utilized to notify bidders of addenda it is ultimately the Bidder's responsibility to check this site for verification of any issued addenda.

IN ORDER FOR YOUR BID TO BE CONSIDERED: (CHECK ONE BELOW)

Pricing is to be entered into the corresponding Line(s) in the body of the RFQ **AND**

Pricing is to be entered into the attachment of the RFQ. Please print, complete, and attach your completed price listing to your bid response.

The following documents must be completed and attached to your response. Complete this checklist to confirm the items required in your bid. Failure to submit the listed documents may be cause for rejection of your bid. :

- Reference Pages
- Subcontractor Information (if applicable)
- Experience Documentation
- Literature (if applicable)
- Warranty
- Build Sheets
- Appendix A – Travel Procedures And Guidelines

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Please refer to Page 15 of the Vendor Services User Guide for guidance using the Attachment feature to attach references, literature, warranty information and any other documentation as needed.

EQUAL OPPORTUNITY CLAUSE

- (1) The contractor/vendor/bidder will not discriminate against any employee or applicant for employment because of race, sex, sexual orientation, gender identity or expression, color, religion, ancestry, national origin, age, disability, familial status or military status. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, sex, sexual orientation, gender identity or expression, color, religion, ancestry, national origin, age, disability, familial status or military status. Such action shall include, but not be limited to, the following: employment up-grading, demotion, or termination; rates of pay or other forms of compensation; and selection for training. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices summarizing the provisions of this Equal Opportunity Clause.
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that the contractor is an equal opportunity employer.
- (3) It is the policy of the City of Columbus that business concerns owned and operated by M/WBEs shall have the maximum practicable opportunity to participate in the performance of contracts awarded by the city.
- (4) The contractor shall permit access to any relevant and pertinent reports and documents by the ODI director for the sole purpose of verifying compliance with this Title and ODI regulations. All such materials provided to the ODI director by the contractor shall be considered confidential.
- (5) The contractor will not obstruct or hinder the ODI director or his/her deputies, staff and assistants in the fulfillment of the duties and responsibilities imposed by Title 39 of the Columbus City Codes.
- (6) The contractor and each subcontractor will include a summary of this Equal Opportunity Clause in every subcontract. The contractor will take such action with respect to any subcontractor as is necessary as a means of enforcing the provisions of the Equal Opportunity Clause.
- (7) The contractor agrees to refrain from subcontracting any part of this contract or contract modification thereto to a contractor not holding a valid certification number as provided for in Title 39.
- (8) Failure or refusal of a contractor or subcontractor to comply with the provisions of Title 39 may result in cancellation of this contract.

ALL CONTRACTORS MUST HOLD A VALID CONTRACT COMPLIANCE CERTIFICATION NUMBER ISSUED BY THE OFFICE OF DIVERSITY AND INCLUSION.

To obtain a Contract Compliance number register at the City of Columbus Vendor Services website: <http://vendors.columbus.gov/sites/public>

1. Login to the City of Columbus Vendor Services Site and register with the city of Columbus. Once that is completed and approved by the purchasing office, log back in and do the following:
2. Select **Questionnaires** from the Common menu located on the left navigation bar.
3. Next select **EBO Quest**. (this is the contract compliance application)
4. Question 1 will be displayed; Answer question 1 and select **Forward**.
5. Proceed through the questionnaire answering each question and selecting **Forward** to continue. Once you have reached and answered the last question select **End** to submit.
6. Then the questionnaire will be received by the ODI Office, reviewed and process within 2 business days or less. For additional questions regarding this process, contact the Office of Diversity Inclusion at 614-645-4764.

City of Columbus Home Page: www.columbus.gov

INFORMATION FOR BIDDERS

SPECIAL CONDITIONS

Special conditions included in the specifications, if inconsistent with provisions included in "Information for Bidders", shall take precedence over any provisions in "Information for Bidders" to the extent inconsistent.

SUBMISSION OF PROPOSAL

Responses must be entered and submitted electronically in the body of the RFQ. Some RFQs require pricing lists or additional documents to be attached to the RFQ response electronically. In rare instances documents require submission via regular mail delivery. Refer to the "Proposal Information" section of the specifications for instructions for submission. Any unauthorized conditions, limitations or provisions attached to the proposal may render the bid nonresponsive and result in its rejection.

ACCEPTANCE AND REJECTION

This proposal submitted by the bidder to the City of Columbus will be accepted or rejected within a period of 180 days from bid opening date. The City reserves the right to waive technicalities, and to request a rebid on the required material. If more than one item, prices shall be quoted on the units requested. However, each item shall be considered a separate bid and the City reserves the right to award a contract on each item separately or on all items as a whole or any combination thereof. Bidders whose proposal is made on an "All or None" basis must clearly state such fact in the proposals.

Each RFQ issued by the City shall state that the RFQ may be cancelled and that any RFQ response may be rejected in whole or in part when it is for good cause and in the best interests of the City.

WITHDRAWAL OF PROPOSALS

Bidders may withdraw their RFQ response at any time prior to the time specified in the advertisement as the closing time for the receipt of bids. However, no bidder shall withdraw or cancel his response for a period of 180 calendar days after said advertised closing time for the receipt of proposals.

DEFAULT PROVISION

In case of default by the bidder or the contractor, the City of Columbus may procure the articles or services from other sources and hold the bidder or contractor responsible for any excess costs occasioned or incurred thereby.

SIGNATURE REQUIRED

By submitting this response electronically, bidder/proposer is affixing an electronic signature as defined by the Ohio Uniform Transactions Act. Said signature represents that he/she has the authority to bind the entity to the terms and conditions contained herein.

APPLICABLE LAWS

The Revised Code of the State of Ohio, the Charter of the City of Columbus, and all City ordinances insofar as they apply to the laws of competitive bidding, contracts, and purchases, are made a part hereof.

PRICING

Bidders are to quote firm or fixed prices for the duration of any contract which may be a result of this proposal unless otherwise noted in the specifications. In case of discrepancy in computing the amount of the bid, the UNIT PRICE quoted will govern.

Quotations are requested F.O.B. destination. If quoted F.O.B. Shipping Point include freight estimate and full value insurance cost.

CONTRACT AND BOND

The bidder to whom an award is made will be required to execute a written contract with the City of Columbus, Ohio within ten days after receiving such contract for execution, and if specified in the legal notice, furnish a good and approved bond conditioned upon the faithful performance of the same. The proposal, contract, proposal bond, (if applicable), and performance bond (if applicable) shall be in the form herein specified.

If, at any time during the continuance of the Contract, any surety shall, in the opinion of the Finance & Management Director, become irresponsible, then said Director shall have the right to require additional and sufficient surety or sureties. The Contractor shall furnish the surety or sureties to the satisfaction of the said Director, within ten (10) days after notice. In default thereof the default provision herein shall apply.

LIABILITY, INSURANCE, LICENSES AND PERMITS

Where bidders are required to enter or go onto City of Columbus property to deliver materials or perform work or services as a result of bid award, the bidder will assume full duty, obligation and expense of obtaining all necessary licenses, permits, and insurance when required. The bidder shall be liable for any damages or loss to the City occasioned by negligence of the bidder (or his agent) or any person the bidder has designated in the completion of his contract as a result of his bid.

Particular attention is directed to the statutory requirements of the State of Ohio relative to the licensing of corporation organized under the Laws of any other State.

TAXES

Federal and/or State Taxes are not to be included in prices quoted. The successful bidder will be furnished an exemption certificate if needed.

SAMPLES

Samples, when requested, must be furnished free of expense to the City and if not destroyed, will upon request be returned at the bidder's expense.

DELIVERY

Time will be of the essence for any orders placed as a result of this bid. Purchaser reserves the right to cancel such orders or any part thereof, without obligations if delivery is not made within the time(s) specified. Delivery shall be made during normal working hours and to the destination shown on the proposal.

QUALITY

Unless otherwise stated by the bidder, the RFQ response will be considered as being in strict accordance with the specifications outlined in the Bid Document.

References to a particular trade, manufacturer's catalog or model number are made for descriptive purposes to guide the bidder in interpreting the requirements of the City. They should not be construed as excluding proposals on other types of materials, equipment and supplies. However, the bidder, if awarded the contract, will be required to furnish the particular item referred to in the specifications or description unless a departure or substitution is clearly noted and described in the proposal.

CHANGES AND ADDENDA TO BID DOCUMENTS

Each change or addenda issued in relation to this bid document will be published on the City's Vendor Services website no less than five (5) working days prior to the scheduled bid opening date. In addition, to the extent possible, notice will be e-mailed to each person registered as having interest in the commodities selected for this bid. Total bid inquiry or specific item cancellations may be issued later than that time specified above.

WITHHOLDING OF INCOME TAX

All bidders are advised that in order for a contract to bind the City, each contract must contain the provisions found in Section 361.34 C.C.C. with regard to income taxes due or payable to the City of Columbus for wages, salaries and commissions paid to the contractor's employees as well as requiring those contractors to ensure that subcontractors withhold in a like manner.

CAMPAIGN CONTRIBUTIONS

Contractor hereby certifies the following: that it is familiar with Ohio Revised Code ("O.R.C.") Section 3517.13; that all applicable parties listed in Division (I)(3) or (J)(3) of O.R.C. Section 3517.13 are in full compliance with Divisions (I)(1) and (J)(1) of that Section; that it is eligible for this contract under the law and will remain in compliance with O.R.C. Section 3517.13 for the duration of this contract and for one year thereafter.

INFORMATION FOR BIDDERS (Continued)

IN THE EVENT OF A CONTRACT

1. Where applicable according to the specifications successful seller shall transfer and deliver to City goods which conform to the specifications.
2. The City shall accept from seller goods that conform to the specifications, and shall pay for the goods in accordance with the terms of an agreement, which may result from this proposal.
3. The risk of loss from any causality to the goods regardless of the cause of the casualty shall be on seller until the goods have been delivered at the address designated in the order and are approved after inspection by the City.
4. Seller warrants and represents that seller has absolute and good title to and full right to dispose of the goods, and that there are no liens, claims, or encumbrances of any kind against the goods, and at the time of delivery shall be free from any security interests or other lien or encumbrance.
5. If there is a breach by seller of the warranty against encumbrances granted by seller in an agreement, which may result from this proposal, the City shall have the option to cancel an agreement, which may result from this proposal.
6. Seller shall defend any action brought against the City so far as the action is based on a claim that the goods, or any part of the goods, furnished under an agreement which may result from this proposal constitutes an infringement of any patent of the United States or a trademark. Seller shall be notified promptly in writing of the action and be given authority, information, and assistance, at the expense of seller, for the defense of the action. Seller shall pay all damages and costs awarded in the action. In case the goods or a part thereof are held to constitute infringement and the use of the goods or part thereof is enjoined, seller shall, at the expense of the seller, either procure for the City the rights to continue using the goods, replace the goods or a part hereof with non-infringing goods of equal or better quality, modify the goods so that the goods become non-infringing while continuing to meet or exceed the original specifications, or retake the goods and refund the purchase prices and the transportation and installation costs of the goods at the option of the City.
7. Seller warrants that (1) the goods to be supplied pursuant to an agreement which result from this proposal are fit and sufficient for the purpose intended, (2) the goods are merchantable, of a good quality, and free from defects, whether patent or latent, in material or workmanship and (3) the goods sold to the City pursuant to an agreement which may result from this proposal conform to the specifications. The particular purpose of which the goods are required may be set forth in the specifications.
8. The benefit of any warranty made in an agreement which may result from this proposal by seller shall extend to the City and to the employees of the City, any employee of the City may bring an action directly against seller for damages or injuries sustained by the employee resulting from any breach of warranty by seller.
9. All goods ordered shall be subject to final inspection and approval at the facility of the City designated for delivery. Any goods, which do not conform to the order of the City, may be rejected by the City. The City may hold any goods rejected pending instructions from the seller or the City may return goods to seller at seller's expense.
10. If any tender or delivery by seller is rejected by the City for nonconformity, no notice of intention to cure can be effective unless it is received by the City agency within five (5) days after notice of rejection is sent to seller.
11. The liability of the City for either non-acceptance of conforming goods or repudiation of the agreement which might result from this proposal shall be limited to the difference between the market price at the time and place for tender of the goods and the unpaid sales price together with any incidental damages, but less expenses paid in consequence of the breach by the City.
12. An agreement which may result from this proposal shall not be modified or altered by any subsequent course of performance

between parties or by additional terms contained in any subsequent documents unless said additional or differing terms are incorporated by contract modification authorized to be entered into by ordinance.

- 13 Contractor shall protect, indemnify and save the City harmless from and against any damage, cost, or liability, including reasonable attorneys' fees, resulting from claims for any or all injuries to persons or damage to property arising from intentional, willful or negligent acts or omissions of Contractor, its officers, employees, agents, or Subcontractors.
- 14 This Contract may not be assigned or otherwise transferred to others by the Contractor without the prior written consent of the City. If this Contract is so assigned, it shall inure to the benefit of and be binding upon any respective successors and assigns (including successive, as well as immediate, successors and assignees) of the Contractor.
- 15 The signatories to this Contract represent that they have the authority to bind themselves and their respective organizations to this Contract.

LOCAL CREDIT

Pursuant to City of Columbus Ordinance # 2607-2012, in determining the lowest bid for a contract the local bidder credit will not be applied.

ENVIRONMENTALLY PREFERABLE PURCHASING

In evaluating bids or offers for materials, supplies, equipment, construction and services, preference will be given to an environmentally preferable bidder who offers a product or service equal to or superior to that of a non-environmentally preferable bidder or offeror and that the environmentally preferable bid or offer does not exceed by more than 5% (up to a maximum of \$20,000) the lowest responsive and responsible and best bid from any non-environmentally preferable bid or offer. The environmentally preferable bidder will be required to demonstrate to the city agency procuring the product or service how their bid is equal to or superior to that of a non-environmentally preferable bidder. Where the bidder or offeror is local, the applicable credit for a local bidder or offeror shall be calculated first.

CERTIFICATE OF TITLE ON EQUIPMENT

If applicable to this purchase, all documents required to obtain a State of Ohio Certificate of Title must be delivered to:

**Fleet Management Administrator
City of Columbus/Fleet Management Div.
4211 Groves Road
Columbus, Ohio 43232**

After signature by the Fleet Management Administrator, an original title is to be delivered to the above address within three (3) days. No payment for vehicles requiring a title will be authorized by the Fleet Management Administrator until a valid title is received.

REMEDIES

All claims, counterclaims, disputes and other matters in question between the City, its agents and employees, and the Contractor arising out of or relating to this agreement or its breach will be decided in a court of competent jurisdiction within the County of Franklin, State of Ohio.

OFFERORS TERMS AND CONDITIONS

Terms and conditions, submitted with this proposal, which are contrary to City Code or Charter shall be disregarded for the purpose of any subsequent contract. The successful bidder shall be notified as to which terms and conditions, if any, have been deleted.

**CITY OF COLUMBUS/ DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF ELECTRICITY
55 FOOT BUCKET TRUCK w/HYBRID ELECTRIC SYSTEM
SPECIFICATIONS**

1.0 SCOPE AND CLASSIFICATION

- 1.1 **Scope:** It is the intent of the City of Columbus, Division of Electricity, to obtain formal bids to establish a contract for the purchase and immediate delivery of one (1) 55 foot insulated aerial bucket truck with Cab and Chassis minimum G.V.W. rating of 33,000 pounds equipped with utility body. The truck will be used by the Power Maintenance Operations Center. The specifications will describe the truck that will include the hybrid electric drive system.
- 1.2 **Classification:** The contract resulting from this bid proposal will provide for the purchase, installation, and delivery of one (1) 55 foot insulated aerial bucket truck with Cab and Chassis minimum G.V.W. rating of 33,000 pounds equipped with utility body. Bidders are required to show experience in providing these types of equipment and warranty service as detailed in these specifications.
- 1.2.1 **Bidder Experience:** The 55 foot insulated aerial bucket truck with Cab and Chassis offeror must submit an outline of its experience and work history in these types of equipment and warranty service for the past five years.
- 1.2.2 **Bidder References:** The 55 foot insulated aerial bucket truck with Cab and Chassis warranty service offeror shall have documented proven successful contracts from at least four customers that the offeror supports that are similar in scope, complexity, and cost to the requirements of this specification.
- 1.3 **Specification Questions:** Questions regarding this bid must be submitted on the Vendor Services portal by 11:00 am Monday, September 25, 2017 at 11:00 am. Responses will be posted on the RFQ on Vendor Services no later than Thursday, September 28, 2017 at 11:00 am.
- 1.4 For additional information concerning this bid, including procedures on how to submit a proposal, you must go to the City of Columbus Vendor Services web site at <http://vendors.columbus.gov/sites/public> and view this bid number.

2.0 APPLICABLE PUBLICATIONS AND STANDARDS

- 2.1 Society of Automotive Engineers (S.A.E) specifications.
- 2.2 Lighting equipment: Ohio Department of Transportation (O.D.O.T.) and Federal Motor Vehicle Safety Standards (F.M.V.S.S.)
- 2.3 Environmental Protection Agency (E.P.A.) requirements.
- 2.4 29 CFR 1910 (series) and 29 CFR 1926 (series) OSHA Regulations.
- 2.5 Ohio Department of Transportation 49 CFR (series).
- 2.6 Bucket Truck unit shall be insulated to pass ANSI A10.31 46KV rating.
- 2.7 References to a particular trade or manufacturer's model number are made for descriptive purposes to guide the bidder in interpreting the requirements of the City. They should not be construed as excluding proposals on other types of materials, equipment and supplies

**CITY OF COLUMBUS/ DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF ELECTRICITY
55 FOOT BUCKET TRUCK w/HYBRID ELECTRIC SYSTEM
SPECIFICATIONS**

3.0 REQUIREMENTS

3.1 General Information:

- 3.1.1 **Term:** The contract awarded as a result of this proposal is for a one time purchase.
- 3.1.2 **Pricing:** Bidders are to bid firm or fixed prices, FOB Destination, Freight Prepaid and Allowed. All pricing must include manufacturer warranty. All manufacturer warranties will be passed on to the City of Columbus.
- 3.1.3 **Quantity:** One (1)
- 3.1.4 **Quality Standards:** The City intends to purchase new, unused and the most current model. The specifications describe a minimum acceptable requirement which a bidder has to meet. However, the bidder is allowed to exceed a minimum requirement where the excess enhances the function of the unit and which the City can accept. It is not acceptable for a bidder to exceed a maximum desired limit.
- 3.2 **Bidder Requirements:** The City will use the requirements of this section to determine if each bidder meets the minimum standards to be considered a responsible bidder. **Please print, complete and attach** Reference pages and attach any supplemental pages as may be necessary to meet these requirements. **For instructions on how to attach a document to your bid, go to page 15 of the Vendor Services User Guide.**
- 3.2.1 **Experience Required:** Documentation shall include (at a minimum) information meeting the following criteria.
- 3.2.1.1 **Equipment and Warranty Capabilities:** Offerors must document, and submit in a letter attached to the bid, their capability of providing the equipment and warranty service specified herein.
- 3.2.1.2 **Manufacturer Relationship:** The offeror shall provide the history of their relationship with manufacturer(s) that will potentially be providing these types of equipment/parts and warranty service for the past five years, including but not limited to the following:
- a) Length of the relationship
 - b) Level of the relationship
 - c) A brief history of the relationship
- 3.2.2 **References:** The offeror shall have documented proven successful contracts from at least four customers that the offeror supports that are similar in scope, complexity, and cost to the requirements of this specification.
- 3.2.2.1 **Contact Information Required:** The reference contact information shall include the customer name, customer e-mail address, street address, telephone number, fax number, contact name and equipment purchase date.
- 3.2.2.2 **Equipment / Warranty Service Information:** A description of the equipment/parts provided and type of warranty service that was provided.

**CITY OF COLUMBUS/ DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF ELECTRICITY
55 FOOT BUCKET TRUCK w/HYBRID ELECTRIC SYSTEM
SPECIFICATIONS**

- 3.2.3 **Subcontractor Information Required:** If subcontractor(s) are to be used, please list names, addresses, telephone numbers and a contact person for each subcontractor. All subcontracts must have valid contract compliance certification.
- 3.2.3.1 **Subcontractor Contact:** Should the offeror use subcontractors, the City shall use the offeror as the primary contact point.
- 3.2.4 **Specification Questions:** Questions regarding this bid including any exceptions and/or suggested changes to the requirements must be submitted on the vendor services portal by 11:00 am (local time) on Monday, September 25, 2017. Responses and any necessary addenda will be posted as an amendment to this RFQ on the City's Vendor Services portal no later than 4:00 p.m. (local time) on September 28, 2017. The City strongly encourages bidders to submit exceptions and/or changes during this stage of the process. Bidders submitting exceptions and/or changes before this date will greatly reduce the likelihood of their bid being rejected as non-responsive to the specifications. Bidders whom have not registered and created a new user on the City's portal <http://vendors.columbus.gov/sites/public> are strongly encouraged to do so. Notice of any pre-bid notes and addenda will only be sent to Bidders whom have registered at the site.
- 3.2.4.1 For further instructions on how to submit "Vendor Questions" through the Vendor Portal, please see Section "Add Vendor Questions" provided on page 16 of the City of Columbus Vendor Services User Guide.
- 3.2.4.2 The City has instructional videos to assist bidders at the portal. Tutorial videos are available to be viewed through You Tube or by clicking the following link:

https://www.youtube.com/channel/UCTIkGGM7GHIIITzoqQVNJIA/videos?shelf_id=0&view=0&sort=dd
- 3.3 **Vehicle Specification:** Please note compliance with the following specifications on the "Comment" section of the line item.
- 3.3.1 **Wheel Base:**
- 3.3.1.1 Dimensions:
(1) Cab to axle, 120" approximately (as needed to accommodate requested body)
(2) Wheelbase, 214" approximately (as needed to accommodate requested body)
- 3.3.2 **Engine:**
- 3.3.2.1 Diesel, in-line 6 cylinder, wet sleeved, electronic, turbocharged, 245 H.P minimum.
- 3.3.2.2 Electronic road speed governor
- 3.3.2.3 Remote engine control for body builder with hand throttle and two stationary speed settings
- 3.3.2.4 Six (6) switch circuits for body builder with power module behind cab for auxiliary circuit connections
- 3.3.2.5 Manufacturer's heavy duty cooling with low coolant level alarm

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SPECIFICATIONS**

- 3.3.2.6 Anti-freeze to -20 degrees F
- 3.3.2.7 Manufacturer's cold starting package
- 3.3.2.8 Heated fuel / water separator
- 3.3.2.9 110 volt, 1000 watt engine block heater with receptacle mounted in front of chassis.
- 3.3.2.10 Silicone radiator hoses
- 3.3.2.11 Viscous fan drive
- 3.3.2.12 Automatic engine shut down with 30 second delay
- 3.3.2.13 Vertical exhaust curbside rear of cab, with maximum 4 inch cab intrusion.
- 3.3.3 **Transmission:**
 - 3.3.3.1 Allison 3000 RDS-P close ratio 5 speed transmission with performance code for highway speed, auxiliary oil cooler and dash mounted temperature gauge and PTO gear.
 - 3.3.3.2 Allison spare input/output electronics
 - 3.3.3.3 Magnetic drain plug
- 3.3.4 **Front axle, Springs, Suspension:**
 - 3.3.4.1 Front axle; rated 12,000 lbs. minimum
 - 3.3.4.2 Front shock absorbers, heavy duty
 - 3.3.4.3 Front springs; rated 12,000 lbs. at ground, minimum
- 3.3.5 **Rear axle, Suspension:**
 - 3.3.5.1 Rear axle ratio 6.17:1, rated 21,000 lbs. minimum.
 - 3.3.5.2 Rear springs; rated 23,500 lbs. at ground, minimum
 - 3.3.5.3 Rear auxiliary springs; rated 4500 lbs. minimum
 - 3.3.5.4 Rear axle ratio; single speed, geared/electronically controlled for 65-70 MPH road speed
- 3.3.6 **Frame:**
 - 3.3.6.1 Resistance to Bending Moment; 2,040,000 in. / lbs. minimum
 - 3.3.6.2 Two front tow hooks (2)

**CITY OF COLUMBUS/ DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF ELECTRICITY
55 FOOT BUCKET TRUCK w/HYBRID ELECTRIC SYSTEM
SPECIFICATIONS**

3.3.7 Brakes:

- 3.3.7.1 Full air brake system
- 3.3.7.2 Water cooled compressor; 13.0 CFM minimum
- 3.3.7.3 Automatic heated moisture ejectors
- 3.3.7.4 Federal mandate anti-lock system
- 3.3.7.5 Bendix heated air dryer
- 3.3.7.6 Service brakes shall be S-cam with automatic slack adjuster's at all four wheels
- 3.3.7.7 Front and rear dust shields
- 3.3.7.8 Low air pressure warning buzzer
- 3.3.7.9 Trailer air brake kit with glad hand extension done by body builder

3.3.8 Tires and Wheels:

- 3.3.8.1 Rims; 8.25 x 22.5, 10 hole steel disc hub piloted wheels minimum
- 3.3.8.2 Front highway tread, 11R22.5G minimum
- 3.3.8.3 Dual mud & snow rear, 11R22.5G min.
- 3.3.8.4 Spare rear tire on rim
- 3.3.8.5 Tires and wheels must be adequate for truck GVWR under all operating conditions

3.3.9 Steering:

- 3.3.9.1 Steering shall be power hydraulically assisted and capable of manual steering the event of power failure for emergency use.

3.3.10 Electrical:

- 3.3.10.1 Three (3) maintenance free batteries
- 3.3.10.2 93 amp/hr, 650 CCA each minimum
- 3.3.10.3 Batteries mounted under cab
- 3.3.10.4 Alternator, 140 amp minimum
- 3.3.10.5 Electronic back up alarm at rear
- 3.3.10.6 Manual reset circuit breakers with trip indicators
- 3.3.10.7 All D.O.T. required lighting

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- 3.3.10.8 7-way trailer connection at rear of frame
- 3.3.10.9 Body builder wiring back of cab at frame with sealed connectors for body lighting
- 3.3.11 **Fuel Tank:**
- 3.3.11.1 Step type fuel tank, 50 gallon minimum
- 3.3.12 **Cab and equipment:**
- 3.3.12.1 Extended (26") cab with rear bench seat
- 3.3.12.2 Air ride driver and passenger seats.
- 3.3.12.3 Dual arm rests and sun visors
- 3.3.12.4 Cigar lighter, intermittent 2-speed wipers with washers, high output fresh air heater with defrosters, electric horn, interior lighting, electronic hand throttle, cab assist handles
- 3.3.12.5 Factory air conditioning
- 3.3.12.6 Tilting fiberglass hood and fenders with service access hatch on left side
- 3.3.12.7 Standard gauge package w/ tachometer
- 3.3.12.8 Engine running hour meter
- 3.3.12.9 PTO hour meter
- 3.3.12.10 Tinted window glass
- 3.3.12.11 One (1) copy each of aerial device operator manuals mounted in manual holder behind driver's seat
- 3.3.12.12 Furnish a Motorola XTL1500 800 MHZ two way radio Model #M28URS9PW1AN per the following specifications:

Outside speaker with two way speaker switch (STDP) to switch from inside to outside speaker. Speakers shall be waterproof, 8 ohms, 15 watt 7 to 10 inch. Antenna shall be 1/4 wave length. Radio kit to be furnished complete in box at time of delivery. City of Columbus to do installation
- 3.3.12.13 AM/FM stereo radio.
- 3.3.13 **Mirrors:**
- 3.3.13.1 Dual heated west coast mirrors
- 3.3.13.2 Dual wide angle mirrors below eye level

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3.3.14 Electrical wiring standards:

3.3.14.1 All electrical wiring shall be color coded and numbered full length runs, enclosed within wire loom, terminating in waterproof junction box inside cab and where needed to provide a complete sealed system.

3.3.14.2 Provide wiring diagram for all factory and truck body component installations.

3.3.15 Paint:

3.3.15.1 Complete chassis and body unit to be primed and painted, to paint manufacturers recommendations, with Dupont Imron Yellow 5248A lead free or equal. Frame painted black.

3.3.15.2 Dupont Imron is referenced as a minimum quality standard for paint. 5248A is referenced as a mandatory color match.

3.3.15.3 Care shall be taken during painting process to mask ID plates, part numbers, etc. to preserve their readability.

3.3.16 Keys:

3.3.16.1 Three (3) sets of keys shall be provided.

3.3.17 AERIAL DEVICE REQUIREMENTS:

3.3.17.1 Articulating, stacked boom design

3.3.17.2 Pedestal base over rear axle with outriggers at front and rear of body and full length subframe

3.3.17.3 Platform access from top of curbside body pack.

3.3.17.4 Non-lube bearings used at all pivot points, excluding rotation

3.3.17.5 Working height, 60 ft. minimum

3.3.17.6 Ground to bottom of bucket, 55 ft. min.

3.3.17.7 Horizontal reach 36 ft. minimum at 30 ft. elevation

3.3.17.8 Bucket capacity, 700 lbs. minimum

3.3.17.9 Booms must be rectangular in shape for strength and rigidity

3.3.17.10 Articulating booms arranged in a stacked configuration, non-overcenter design

3.3.17.11 Upper boom assembly shall provide full insulation with a fiberglass insulation gap to be 239 inches for ANSI category "C" voltages up to 46kv.

3.3.17.12 Lower boom fiberglass insulation gap 24" minimum

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- 3.3.17.13 Upper boom articulation to 70 degrees above horizontal for a total of 175 degrees total- relative to the lower boom.
- 3.3.17.14 Lower boom articulation to be 105 degrees total –15 degrees past vertical.
- 3.3.17.15 Boom compensating system to maintain a constant upper boom angle when lower boom is being raised or lowered.
- 3.3.17.16 360 degree continuous rotation utilizing a shear ball bearing turntable and gearbox / spur gear drive system
- 3.3.17.17 Shall meet all O.S.H.A. and A.N.S.I. standards, category C, 46KV
- 3.3.18 **Other Equipment (Platform):**
- 3.3.18.1 Single, two worker, 24" x 48" x 42", end hung only.
- 3.3.18.2 Fiberglass construction, rectangular in shape, with two (2) molded inside /outside steps.
- 3.3.18.3 Fiberglass guard around controls
- 3.3.18.4 Hydraulic platform dump system for clean out and rescue, operable from platform.
- 3.3.18.5 Parallelogram platform leveling system inside lower and upper booms to utilize chain and insulated rods. Any cable in the leveling system is unacceptable.
- 3.3.18.6 Lip type vinyl platform cover
- 3.3.19 **Outriggers:**
- 3.3.19.1 Four (4) telescoping at front and rear of body, tied to integral subframe
- 3.3.19.2 Individual control valve each side at rear under tailshelf
- 3.3.19.3 Cylinders with individual check valves
- 3.3.19.4 Outrigger / boom interlock system to prevent aerial device operation unless outriggers are extended
- 3.3.19.5 Outrigger spread, 150" maximum
- 3.3.20 **Hydraulics:**
- 3.3.20.1 All cylinders shall be equipped with integral check valves or holding valves
- 3.3.20.2 Single control at platform for rotation, upper boom elevation and lower boom with safety trigger
- 3.3.20.3 Emergency shut off valve and tool selector valve at platform

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- 3.3.20.4 Controls at turret to override platform controls
- 3.3.20.5 Fluid reservoir integral with pedestal, of adequate size for boom and tool circuit operation
- 3.3.20.6 25 gallon reservoir equipped with sight gauge, shut-off valve, and filters
- 3.3.20.7 Chelsea Hotshift P.T.O. for Allison World automatic transmission
- 3.3.20.8 Electronic overspeed control with dash indicator light for P.T.O.
- 3.3.20.9 Flange mounted pressure compensated closed center hydraulic pump system for operation of all hydraulic requirements.
- 3.3.20.10 Install Bruning or equal quick couplers for platform tool circuit, 1/2" HTMA
- 3.3.21 **Accessories:**
- 3.3.22.1 Boom storage support and cradle with ratchet type tie down strap
- 3.3.22.2 Flexible rubber platform support under bucket on bed-mounted support post with appropriate reinforcement.
- 3.3.22.3 Two (2) safety belt attachments
- 3.3.22.4 Radio controlled engine stop/start system with switches at platform and lower controls
- 3.3.22.5 Radio controlled two speed throttle system with switches at platform and lower controls
- 3.3.22.6 Radio controlled 12 volt DC emergency power system with switches at platform and lower controls
- 3.3.23 **Paint:**
- 3.3.23.1 Color to match cab manufacturer's yellow only (or equal), except on fiberglass boom sections.
- 3.3.24 **UTILITY BODY REQUIREMENTS**
- 3.3.24.1 Special stainless steel lined utility body 160 inches long, 94 inches wide, with 18 inch deep side compartments, suitable for mounting on a medium duty dual rear wheel chassis with all standard features and accessories. 102 inch measurement from center line of radius cutout to front of body permits clearance, for vertical exhaust, hybrid cooler and outriggers.
- 3.3.24.2 Steel treadplate cargo area floor and cargo wall liners with all steel understructure.
- 3.3.24.3 Body understructure modification as required for aerial tower subframe.

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- 3.3.25 Curbside Compartments (Front to Rear):**
- 3.3.25.1 First vertical -30 inch transverse compartment with two material drawers with adjustable dividers on 6 inch centers. Transverse drawers each include mounting on roller bearings in channel track. Transverse drawers to be wood lined and include latches to hold in closed position
 - 3.3.25.2 Second vertical 24 inch 2 adjustable selves with dividers
 - 3.3.25.3 Third vertical 24 inch access to cargo bed with grab assist handle and bottom grip strut step
 - 3.3.25.4 Fourth horizontal – 58"
 - 3.3.25.5 Fifth vertical – 24" compartment
- 3.3.26 Street-side Compartments (front to rear):**
- 3.3.26.1 First vertical – 30" w/two (2) adjustable shelves with dividers
 - 3.3.26.2 Second vertical – 24" w/two (2) adjustable shelves with dividers
 - 3.3.26.3 Third vertical – 24" w/two (2) adjustable shelves with dividers
 - 3.3.26.4 Fourth horizontal – 58" single bottom shelf with adjustable dividers
 - 3.3.26.5 Fifth vertical – 24" w/two (2) adjustable shelves with dividers
 - 3.3.26.6 Full length hotstick shelf in top of sidebox with drop down rear access door
- 3.3.27 Accessories:**
- 3.3.27.1 Tailshelf extension, 36" length, steel treadplate covering, 8" high retainer and removable tailboard the width of the cargo area. Tailshelf side skirting and rear riser to be stainless steel.
 - 3.3.27.2 Gripstrut (ICC) bumper steps both sides with grab rail running from rear of body down to right rear of tailshelf
 - 3.3.27.3 Mud flaps behind front and rear wheels with no logo
 - 3.3.27.4 Pintle hook, Holland T-125A or equal (min. jaw opening of 2 inches), mounted to structural framework to meet hook manufacturer's full load rating, including two safety chain anchors of appropriate capacity, 24" mounting height
 - 3.3.27.5 Supply two safety harnesses with lanyard
 - 3.3.27.6 Two (2) wheel chock holders, one (1) on each side recessed in wheelhouse fender panel. Includes two (2) rubber wheel chocks
 - 3.3.27.7 Four (4) Dica D1818 or equal, plastic composite outrigger pads with holders, One (1) each side under body, near each outrigger

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- 3.3.27.8 Fender panels, tailshelf skirts, light bar, main body components, door hinges, wheel well liners, door latches and outer door panels to be constructed of stainless steel to prevent corrosion
- 3.3.28 **Electrical/lights:**
- 3.3.28.1 Provide shock mounted lighting system to comply with F.M.V.S.S. # 108. All lights to be LED style.
- 3.3.28.2 All wiring to be protected with conduit or split-loom flex conduit, secured at regular intervals
- 3.3.28.3 All lighting connections to be terminated in a weatherproof junction box under rear of body
- 3.3.28.4 Provide two shock mounted combination stop/tail/turn signals, LED, 4" diameter, recess mounted as high as possible (but parallel) in rear tailshelf riser panel
- 3.3.28.5 Provide two shock mounted back up lights, 4" diameter, recess mounted as high as possible (but parallel) in rear tailshelf riser panel, to the inside of combination lights
- 3.3.28.6 Provide 4" diameter LED work light in cargo area, shock mounted and recessed, with recessed switch wired through body marker light system, located as high as possible at curbside rear.
- 3.3.28.7 Whelen DOT3 or equal light system, with one (1) Whelen L31HAF or equal strobe at streetside front of body, visible above cab, and two (2) Whelen 2GA00FAR or equal flush mount strobes, one (1) each side in rear tailshelf riser panel, toward the outside edge of the body. All strobes shall be activated by a single dash switch.
- 3.3.28.8 Provide remote controlled GOLITE Stryker model 30004 LED wireless remote control spot light or equal with remote control
- 3.3.28.9 Provide warning light on truck dash for boom out-of-rest
- 3.3.28.10 Install two (2) 22" wide traffic arrows, one (1) each side on rear body panel, flush with outside edge of body. Weld 1/8" steel angle to inside face of compartment to protect arrow. Install control panel in the chassis cab
- 3.3.28.11 All compartments to have individual LED rope lights wired to single switch on dash.
- 3.3.28.12 If it becomes absolutely necessary to splice wire the following method shall be used: Strip both wire ends, twist around each other, solder, and cover with a heat shrink waterproof type covering. Tap in type splices and "scotch locks" are unacceptable.

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3.3.29 Paint:

3.3.29.1 Entire unit is to be free from all grease, oil, rust, dirt, and scale; then painted with one (1) coat of primer and two (2) coats of epoxy paint to match chassis cab. Steel sideboxes shall be painted Dupont yellow #5248A to match chassis. Fiberglass boom sections and platform shall have a smooth white finish. All aluminum to be left in its natural state.

3.3.29.2 The body cargo area and tailshelf floors shall be painted with a black abrasive, skid-resistant paint, "Manus Bond" or equal

3.3.30 Mounting:

3.3.30.1 The aerial device supplier shall be responsible for mounting the body, P.T.O. assembly, hydraulic lines, and all electrical wiring to the body and truck cab chassis

3.3.31 PLUG-IN HYBRID ELECTRIC SYSTEM REQUIREMENTS

3.3.31.1 Odyne Plug in Hybrid Electric System

3.3.31.2 Stored Energy System

Two 300 volt Lithium Ion Battery packs in parallel with 28kWh capacity.

3.3.31.3 Electric Motor

High Power compact liquid cooled permanent magnet motor and power take off providing up to 232 lb/ft of torque with launch assist while driving and regenerative braking. The temperature of the electric motor is maintained by a cooling loop that includes an electric motor, pump, fan and radiator to extend the life and performance of the electric motor.

The electric motor increases fuel efficiency while driving and provides power for all of the work site accessories for all electric stationary operation at the work site.

3.3.31.4 Recharging Capability

Plug in capability with level two 240 single-phase 30-amp service to fully recharge the stored energy system within an eight-hour period.

Engine recharging while in the field. The engine is automatically started when the stored energy system is depleted and recharged with the vehicles engine. Once the stored energy system is recharged the engine will automatically shut down and resume all electric stationary mode.

Regenerative braking recharges the stored energy system while braking the vehicle. As the vehicle slows the motor/generator slows the vehicle and recharges the stored energy system.

SAE J1772 compliant charge station for plug in recharging provided with contactor to only provide power to vehicle when all systems are fully functional. Vehicle will not start while plugged in to prevent operator from driving vehicle with charge cord attached.

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- 3.3.31.5 **Inverter Assembly**
Liquid cooled inverter assembly converting the 300V stored DC power to AC power to power permanent magnet motor.
- 3.3.31.6 **LCD Display**
Cab mounted LCD driver display screen providing the operator with valuable Plug-in Hybrid system data and troubleshooting codes.
- 3.3.31.7 **Override**
Hybrid override system to allow vehicle to operate as a standard vehicle for driving and stationary application if the PHEV system is not functional.
- 3.3.31.8 **Auxiliary Heating and Air Conditioning System**
Auxiliary Cab HVAC system for use during all electric mode while the engine is not running.
- 3.3.31.9 **Exportable Power**
Frame mounted inverter assembly providing 5kW of pure sine wave power. (FSM to provide and install required outlets)

Options (price separately):

- 3.4 One (1) LPK1240 Greenlee crimping press with 10ft. hose kit and couplers
- 3.5 48755 Fairmont impact wrench with 10 tool hose kit and couplers
- 3.6 Diagnostic code reading/clearing capability for cab and chassis, engine, and transmission. Include communication cables compatible with laptop nc6120 with DVD drive. Laptop compatible with all the above listed capabilities
- 3.7 Minimum of sixteen (16) hours of mechanical training covering the repair and maintenance of both the bucket and hybrid operational unit. The training shall take place at the Bucket Truck manufacturer service school to include training, transportation, and lodging for two (2) City of Columbus Fleet Technicians. (See Attachment "A" for City of Columbus Travel Procedures and Guidelines). The successful bidder will be provide contact information to coordinate training.

4.0 SAMPLING, INSPECTION AND TEST PROCEDURES

- 4.1 **Demonstration:** The City reserves the right to require a demonstration of any equipment prior to award of the bid. Such demonstration shall be conducted, at the sole discretion of the City, either on roads in the City of Columbus, or in another municipal setting in Franklin County, Ohio where such equipment is in daily operation. All costs associated with such demonstration are to be the responsibility of the supplier. All demonstrations shall be concluded within five (5) working days after notification of demo request. Failure to comply may be used as a basis for rejection of the bid.
- 4.2 **Inspection:** All parts shall be thoroughly, physically inspected upon delivery by an authorized representative of the Division/Department of Public Utilities for verification of conformance to the specifications. Any damaged, defective, or substandard item shall be promptly removed by the supplier, and replaced at no cost to the City of Columbus. The supplier will be responsible for all shipping costs.

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5.0 ORDERING, DELIVERY and INVOICING

5.1 Ordering Procedure: A written purchase order will be established by the Director of Finance and Management. The Purchase Order will have the delivery information and invoice information.

5.2 Delivery:

5.2.1 The successful bidder(s) assume the responsibility for the equipment coordination including, but not limited to, transportation and insurance for complete unit(s) while in transport and until final acceptance by the City of Columbus.

5.2.2 All equipment must be delivered with all fluid levels at the manufacturer's recommended full capacity. All manufacturer's pre-delivery service and inspections should be completed prior to delivery to the City of Columbus. Written certification of the complete equipment's actual tare weight shall be included when the vehicle is delivered.

5.2.3 The City of Columbus shall be notified no less than 24 hours prior to actual delivery by notifying John King (or designee,) at the Fleet Management Division (614) 645-6104, twenty-four (24) hours in advance. Delivery shall be F.O.B. destination prepaid and allowed

5.3 Invoicing: Each invoice shall show the City Purchase Order number, a brief description identifying the item, the unit price, and the total amount. The invoice amount must exactly match the purchase order amount in accordance with the bid proposal. All Invoices should be mailed to the address on the Purchase Order to ensure proper payment

5.4 Title:

5.4.1 All documents required to obtain a State of Ohio Title (if applicable) must be delivered to John King at the Division of Fleet Management, 4211 Groves Road, Columbus, Ohio 43232. All forms must be properly completed. NO BLANK FORMS WILL BE ACCEPTED.

5.4.2 After signature by the Division of Fleet Management, an Ohio Certificate of Title (or certificate of origin) shall be delivered to the City of Columbus, Division of Fleet Management within three (3) days. Fleet Management will not authorize payment for any vehicle until they receive a valid State of Ohio Title.

5.4.3 All titles are to be made out to City of Columbus, 4211 Groves Rd, Columbus, Ohio 43232.

5.5 Manuals

5.5.1 The successful bidder shall supply web access to OEM diagnostic software including parts lists, service, maintenance, operation, and overhaul manuals for the chassis, engine, transmission, drive line, electrical, fuel, and emissions upon delivery of the equipment to the City of Columbus.

5.6 Tax Credits, Grants, and Refunds: Any and all grants, incentives, credits, rebates, discounts and/or refunds received by the manufacturer or dealer based on emissions reductions or the CNG fuel status (if applicable) of these vehicles will be identified and deducted from the cost of the vehicles provided to the City of Columbus, including, but not limited to, any tax credits that may be transferred from the City, as a tax exempt entity, to the Seller.

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- 5.7 **Pre-build Meeting:** If requested, the successful bidder shall attend a "pre-build" meeting at the Division of Fleet Management, 4211 Groves Road, Columbus, Ohio 43232.
- 6.0 **NOTES**
- 6.1 **Online Bidding Instructions:** Bidders are requested to quote firm or fixed prices on the corresponding line item(s) only. Within the "Comment" section of each line bidders are requested to provide the make, model and manufactured year of the unit quoted. It is understood that all parts that may not be specifically mentioned must be included to make the unit operational and complete.
- 6.1.1 **Alternates:** Bids will be considered on units complying with the specifications. **All alternates must be detailed in an attached letter to bid and the Manufacturer and Model clearly identified.** Explanations must fully state what is to be furnished. All alternates must exceed specifications. The City of Columbus reserves the right to determine whether any proposed alternates are within the specifications.
- 6.1.1.1 **Attachments:** For instruction on attaching documents to online quotes, please see page 15 of the "City of Columbus Vendor Services User Guide", made available through the Vendor Portal.
- 6.2 **Warranty:** The equipment specified herein shall be covered by the manufacturer's warranty at no additional charge. Bidders shall submit warranty on a separate sheet attached to the bid proposal.
- 6.2.1 **Warranty Period:** The warranty period shall be a minimum of 12 months at no additional charge. Bidders shall submit copies of the warranty as an attachment with the bid proposal.
- 6.2.2 **Delayed Warranty:** Bidder shall submit on a separate sheet attached to the bid a procedure for delayed warranty for starting dates to cover the interval between time of delivery of the complete vehicle and the actual date that the equipment is placed in service by the City. This delayed time period will cover inspection, operator and mechanic training, etc.
- 6.2.3 **Fully Franchised:** The bidder shall contract with a warranty service provider whose primary business is the sale and/or repair of the equipment proposed in this bid proposal. Warranty service must be performed by a franchised OEM dealer that is authorized by the manufacturer(s) to perform warranty service. The warranty work shall be the responsibility of the successful bidder and the successful bidder shall coordinate all warranty work. Any defects shall be corrected and the equipment returned to the City within ten (10) days from written (mail, email or fax) notification of the service need. Any defects shall be corrected without cost to the City of Columbus. Under no circumstances shall the "out of operation" time of the equipment exceed ninety (90) days. Warranty work is not deemed complete until Fleet Management has accepted work as satisfactory.
- 6.2.4 **Warranty Service Logistics:** Cost of transport of equipment for warranty purposes shall be the responsibility of the successful bidder. The successful bidder will be required to pick-up the equipment and transport it to the warranty service location. At the successful bidder's discretion, the equipment may be transported (not towed) to a location within Franklin or contiguous counties. For a warranty service location outside of a contiguous county, the equipment must be transported (not towed).

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6.3 Literature:

6.3.1 To aid in the evaluation of bids, all bidders are to furnish with this bid current published literature and Dealer's specifications that best explains the unit offered, model and identification of the options that meet or exceed the specifications. Published literature shall include pictures and complete descriptive matter.

6.3.2 Bidders shall submit a copy of dealer's build sheets with bid.

6.4 Insurance Requirements and Workers Compensation: Successful Bidder is required to provide the following before final execution of the contract:

6.4.1 **Liability Insurance:** The contractor shall take out and maintain during the life of the contract, such Public Liability (bodily injury and property damage) Insurance as shall protect him from claims from damages for personal injury, including accidental death, as well as from claims for property damage which may arise from operations under the contract, whether such operation be by himself or any subcontractor or by anyone directly or indirectly employed by either of them. Such insurance policy shall include the city as named insured. The Contractor shall maintain coverage of the types and in the amounts specified below. Submitting a certificate of insurance shall evidence proof of such insurance coverage. A contractor's "umbrella" type policy with limits specified below may be submitted for this requirement, with the City as named insured.

The amount of such insurance shall be as follows:

Bodily Injury Liability
Each Person \$ 1,000,000.00
Each Accident \$ 1,000,000.00

Property Damage Liability
Each Person \$ 1,000,000.00
Each Accident \$ 1,000,000.00

Such insurance shall remain in full force and effect during the life of the contract. Insurance may not be changed or cancelled unless the insured and the City are notified in writing not less than thirty days prior to such change or cancellation. If any part of the contract is sublet, the Contractor is responsible for the part sublet being adequately covered by insurance herein above described.

Contractor assumes all risk of loss and damage to the equipment provided unless loss or damage occurs at the time the operator and equipment are being operated for the purpose designated by the city and such loss or damages is caused by an act of the city or its employee which constitutes gross negligence or wanton misconduct.

6.4.2 **Workers Compensation:** The successful contractor obtain and maintain during the life of this contract, adequate worker's compensation insurance for all his employees employed at the site of the project and, in case any work is sublet, the contractor shall require the subcontractor similarly to provide worker's compensation insurance for the latter's employees, unless such employees are covered by the protection afforded by the contractor. The successful contractor shall furnish one (1) copy of the worker's compensation certificate showing that the contractor has paid his industrial insurance premium.

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- 6.5 **Communications:** During the bidding and evaluation process Offerors are strictly prohibited from communicating with any City employees or officers regarding the solicitation. Any communication from the vendor to the City should be limited to only the contact(s) listed in the RFQ and/or below. A violation of this section on the part of the Offeror may lead to disqualification.

All correspondences regarding this bid should be sent via email to
rslaughter@columbus.gov

REFERENCES

The bidder must briefly document its capabilities and submit an outline of its experience and work history in the supply and delivery of tandem axle truck with dump body for the past five years by submitting the contact information of professional references from four (4) separate contracts. References should consist of projects of a similar scope, complexity, and cost.

Business Name: CITY OF COLUMBUS Tel # 614 - 645-6104

Address: 4211 GROVES RD CDS OH 43232

E-mail Address: JKING@COLUMBUS.ORG Fax # 614 - 645-7347

Contact: JOHN KING Work performed from 2000 to PRESENT

Work Performed: DUMP PLOW TRUCK - CNG

FLAT BED

POT HOLE PATCHER

MANUAL SIDE LOADER - REFUSE

Business Name: CITY OF WESTERVILLE Tel # 614 - 901-6755

Address: 350 PARK MEADOWS RD WESTERVILLE OH 43081

E-mail Address: DENNIS.SELIGMAN@WESTERVILLE^{OR}.ORG Fax # 614 - 901-6744

Contact: DENNIS SELIGMAN Work performed from 2013 to _____

Work Performed: SNOW PLOWS

Business Name: CITY OF DUBLIN Tel #. 614 - 410-4757
Address: 6357 SHIER RINGS RD DUBLIN OH 43016
E-mail Address: JSYLER@DUBLIN.OH.US Fax #. 614 - 410 4795
Contact: DARRYL SYLER Work performed from 2015 to PRESENT
Work Performed: SNOW PLOW TRUCKS

Business Name: CITY OF CENTERVILLE Tel #. 937 - 428-4784
Address: 7970 S SUBURBAN RD CENTERVILLE OH 45458
E-mail Address: BANKENEY Fax #. 937 - 433 0286
Contact: BEN BANKENEY Work performed from 2016 to PRESENT
Work Performed: SNOW PLOW TRUCKS

REFERENCES

The bidder must briefly document its capabilities and submit an outline of its experience and work history in the supply and delivery of a diesel powered chassis with a minimum G.V.W. rating of 20,000 pounds mounted with a fourteen-foot aluminum step van body for the past five years by submitting the contact information of professional references from four (4) separate contracts. References should consist of projects of a similar scope, complexity, and cost.

Business Name: LABOIT SPEC. VEHICLES Tel #. 614 - 231-7640

Address: 700 CROSS POINTER RD GAITHERSBURG OH 43230

E-mail Address: RDEPRIEST@LABOIT.COM Fax #. _____

Contact: RYAN DEPRIEST Work performed from 2005 to PRESENT

Work Performed: MEDICAL UNIT

Business Name: STRAIT + CAMPBELL Tel #. 614 - 562-1823

Address: 5200 WINCHESTER PIKE CANAL WINC. OH 43110

E-mail Address: _____ Fax #. _____

Contact: DAVE CLAY Work performed from 2000 to PRESENT

Work Performed: LUMBER TRUCKS

APPENDIX B

PERFORMANCE QUESTIONNAIRE -
CNG POWERED TANDEM & SINGLE AXLE DUMP TRUCKS

To: STEVE MCKENIGHT
(Name of person completing survey)

Phone: 614-340-5240 Fax: 614-481-6222

Subject: Past Performance Survey of: PENGWYN
(Name of Company)
Jim Borowski
(Name of Individuals)

City of Columbus (the City) is implementing a process that collects past performance information on firms and their key personnel. The information will be used to assist the City in the selection of firms, to perform various projects. The contractor listed above identified you as someone for whom the contractor either currently provides a service or for whom the contractor has provided this service in the past. Please take a moment to tell us about this contractor's performance.

HOW SATISFIED. Rate each of the criteria on a scale of 1 to 10, with a 10 representing highly satisfied and a 1 representing highly dissatisfied. Use a number in between to show different degrees of satisfaction. Please rate each of these criteria to the best of your knowledge. If you have no knowledge of past performance in a particular area, leave it blank.

NO	CRITERIA	UNIT	YOUR SCORE
1	Ability to meet customer expectations	(1-10)	10
2	Ability to financially perform in the best interest of the client and citizens	(1-10)	10
3	Ability to maintain schedules and meet deadlines	(1-10)	10
4	Ability to increase value	(1-10)	10
5	Quality of service	(1-10)	10
6	Ability to identify and minimize the users risk	(1-10)	10
7	Leadership ability (minimize the need of owner/client direction)	(1-10)	10
8	Your comfort level in hiring the firm/individual again based on performance	(1-10)	10

Steve McKnight Printed Name (of Evaluator)

[Signature] Signature (of Evaluator)

Thank you for your time and effort in assisting us in this important endeavor. Please fax survey back to (Vendor enter your fax number here).

APPENDIX B

PERFORMANCE QUESTIONNAIRE –
CNG POWERED TANDEM & SINGLE AXLE DUMP TRUCKS

To: DAVE McANINCH
(Name of person completing survey)

Phone: 614-402-2795 Fax: 614-878-0566

Subject: Past Performance Survey of: PENGWYN
(Name of Company)
JIM BOROUASKI
(Name of individuals)

City of Columbus (the City) is implementing a process that collects past performance information on firms and their key personnel. The information will be used to assist the City in the selection of firms, to perform various projects. The contractor listed above identified you as someone for whom the contractor either currently provides a service or for whom the contractor has provided this service in the past. Please take a moment to tell us about this contractor's performance.

HOW SATISFIED. Rate each of the criteria on a scale of 1 to 10, with a 10 representing highly satisfied and a 1 representing highly dissatisfied. Use a number in between to show different degrees of satisfaction. Please rate each of these criteria to the best of your knowledge. If you have no knowledge of past performance in a particular area, leave it blank.

NO	CRITERIA	UNIT	YOUR SCORE
1	Ability to meet customer expectations	(1-10)	10
2	Ability to financially perform in the best interest of the client and citizens	(1-10)	10
3	Ability to maintain schedules and meet deadlines	(1-10)	10
4	Ability to increase value	(1-10)	10
5	Quality of service	(1-10)	10
6	Ability to identify and minimize the users risk	(1-10)	10
7	Leadership ability (minimize the need of owner/client direction)	(1-10)	10
8	Your comfort level in hiring the firm/individual again based on performance	(1-10)	10

David McAninch Printed Name (of Evaluator)
DMcAninch Signature (of Evaluator)

Thank you for your time and effort in assisting us in this important endeavor. Please fax survey back to (Vendor enter your fax number here).

614-488-0019

APPENDIX B

**PERFORMANCE QUESTIONNAIRE –
CNG POWERED TANDEM & SINGLE AXLE DUMP TRUCKS**

To: Darryl Syler / City of Dublin
(Name of person completing survey)

Phone: 614-410-4757 Fax: 614-410-4795

Subject: Past Performance Survey of:
(Name of Company)
.....
(Name of individuals)

City of Columbus (the City) is implementing a process that collects past performance information on firms and their key personnel. The information will be used to assist the City in the selection of firms, to perform various projects. The contractor listed above identified you as someone for whom the contractor either currently provides a service or for whom the contractor has provided this service in the past. Please take a moment to tell us about this contractor's performance.

HOW SATISFIED. Rate each of the criteria on a scale of 1 to 10, with a 10 representing highly satisfied and a 1 representing highly dissatisfied. Use a number in between to show different degrees of satisfaction. Please rate each of these criteria to the best of your knowledge. If you have no knowledge of past performance in a particular area, leave it blank.

NO	CRITERIA	UNIT	YOUR SCORE
1	Ability to meet customer expectations	(1-10)	10
2	Ability to financially perform in the best interest of the client and citizens	(1-10)	10
3	Ability to maintain schedules and meet deadlines	(1-10)	9
4	Ability to increase value	(1-10)	10
5	Quality of service	(1-10)	10
6	Ability to identify and minimize the users risk	(1-10)	10
7	Leadership ability (minimize the need of owner/client direction)	(1-10)	10
8	Your comfort level in hiring the firm/individual again based on performance	(1-10)	10

Darryl Syler Printed Name (of Evaluator)

[Signature] Signature (of Evaluator)

Thank you for your time and effort in assisting us in this important endeavor. Please fax survey back to (Vendor enter your fax number here).

APPENDIX B

PERFORMANCE QUESTIONNAIRE -
CNG POWERED TANDEM & SINGLE AXLE DUMP TRUCKS

To: DAN CRISWELL
(Name of person completing survey)

Phone: 740-389-6029 Fax:

Subject: Past Performance Survey of: FYDA ETL CO/S
(Name of Company)

.....
(Name of individuals)

City of Columbus (the City) is implementing a process that collects past performance information on firms and their key personnel. The information will be used to assist the City in the selection of firms, to perform various projects. The contractor listed above identified you as someone for whom the contractor either currently provides a service or for whom the contractor has provided this service in the past. Please take a moment to tell us about this contractor's performance.

HOW SATISFIED. Rate each of the criteria on a scale of 1 to 10, with a 10 representing highly satisfied and a 1 representing highly dissatisfied. Use a number in between to show different degrees of satisfaction. Please rate each of these criteria to the best of your knowledge. If you have no knowledge of past performance in a particular area, leave it blank.

NO	CRITERIA	UNIT	YOUR SCORE
1	Ability to meet customer expectations	(1-10)	10
2	Ability to financially perform in the best interest of the client and citizens	(1-10)	10
3	Ability to maintain schedules and meet deadlines	(1-10)	10
4	Ability to increase value	(1-10)	10
5	Quality of service	(1-10)	10
6	Ability to identify and minimize the users risk	(1-10)	10
7	Leadership ability (minimize the need of owner/client direction)	(1-10)	10
8	Your comfort level in hiring the firm/individual again based on performance	(1-10)	10

APPENDIX B

PERFORMANCE QUESTIONNAIRE -
CNG POWERED TANDEM & SINGLE AXLE DUMP TRUCKS

To: BOB GRIMM
(Name of person completing survey)

Phone: 614-863-1824 Fax: 614-863-1839

Subject: Past Performance Survey of: PENGWYN
(Name of Company)
J.M. BOROWSKI
(Name of individuals)

City of Columbus (the City) is implementing a process that collects past performance information on firms and their key personnel. The information will be used to assist the City in the selection of firms, to perform various projects. The contractor listed above identified you as someone for whom the contractor either currently provides a service or for whom the contractor has provided this service in the past. Please take a moment to tell us about this contractor's performance.

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NO	CRITERIA	UNIT	YOUR SCORE
1	Ability to meet customer expectations	(1-10)	10
2	Ability to financially perform in the best interest of the client and citizens	(1-10)	10
3	Ability to maintain schedules and meet deadlines	(1-10)	10
4	Ability to increase value	(1-10)	10
5	Quality of service	(1-10)	10
6	Ability to identify and minimize the users risk	(1-10)	10
7	Leadership ability (minimize the need of owner/client direction)	(1-10)	10
8	Your comfort level in hiring the firm/individual again based on performance	(1-10)	10

Bob Grimm Printed Name (of Evaluator)

 Signature (of Evaluator)

Thank you for your time and effort in assisting us in this important endeavor. Please fax survey back to (Vendor enter your fax number here).

614-488-0019

CITY OF COLUMBUS/ DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF ELECTRICITY
55 FOOT BUCKET TRUCK w/HYBRID ELECTRIC SYSTEM
SPECIFICATIONS

SUBCONTRACTORS INFORMATION (IF APPLICABLE)

Business Name: TEREX UTILITIES Tel #. 262-547-4521 EXT 8224

Address: N4 W22610 BLUEMOUND RD WAUKESHA WI 53186

E-mail Address: _____ Fax #. _____

Contact: MATTHEW POTRATZ PREVIOUS COMPANY DUECO Work to be performed from 2005 to PRESENT

Work To Be Performed: INSTALLATION OF BODY AND
RELATED EQUIPMENT

Business Name: _____ Tel #. _____

Address: _____

E-mail Address: _____ Fax #. _____

Contact: _____ Work to be performed from _____ to _____

Work To Be Performed: _____

APPENDIX A

Travel Procedures and Guidelines

Travel Procedures and Guidelines
(Updated 12/23/2011)

I. General Requirements:

A. *Policy:* These regulations establish a standard procedure for reimbursing officials and employees of the City of Columbus for authorized expenses incurred while traveling on City business, attending conferences, conventions or such activities which are deemed to have a municipal purpose.

B. *Audit of Travel Expense Reports:*

1) The City Auditor has the authority to question any item of expense for which reimbursement is asked and may refuse to pay, modify or reduce any item which is unreasonable or incompatible with present travel costs. (Reference Ordinance 1187-60)

C. *Definitions:*

1) *Activity:* Any conference, convention, seminar, school, meeting or similar municipal affair will henceforth be referred to as an activity.

2) *Extended Travel:* Travel on City business where overnight lodging is required.

3) *Traveler:* Any elected or appointed City officer or other employee of the City who is attending an activity on behalf of the City of Columbus will henceforth be referred to as a traveler.

D. *Approval:*

1) Prior to attendance at any activity, the benefit of the activity to the City must be approved by the appropriate department head.

2) In order for all actual, necessary and reasonable expenses to be reimbursed, the responsible department shall have the travel encumbrance certified by the City Auditor, prior to any obligation being incurred by the City, that moneys have been appropriated and not encumbered for any other purpose in an amount sufficient to liquidate the estimated expenses.

3) The travel encumbrance provides multiple lines for the appropriate vendor numbers for registration fees and airline costs. Use only the appropriate vendor numbers. When registration fees are part of the costs, attach a copy of the registration documents. If registration fees or airline tickets should be paid in advance, so indicate in the explanation section. **NOTE: the travel encumbrance is not intended to be used for local mileage.**

APPENDIX A

4) If travel is funded and or to be reimbursed via grant funding the City Auditor hereby recognizes and permits the travel, lodging and per diem amounts(GSA rates) as provided by the grant . All grant expenditures require valid receipt for proof of payment.

E. *Reporting:* Upon return from an eligible activity each traveler shall:

- 1) Individually file an accurate and detailed travel expense report, properly vouchered, with the City Auditor. Each traveler shall claim only his own expenses unless otherwise specifically approved by the City Auditor.
- 2) Reimbursable items shall be actual, reasonable, and necessary expenses incurred while attending an eligible activity.
- 3) Receipts should be obtained whenever practicable:
 - a) Receipts are required for such items as lodging, travel, registration fees, and extraordinary expenses that are an integral part of the activity.
 - b) Receipts are not required for meals.
 - c) Receipts are required for taxi fares, bus, or other local public transportation, only where practicable.
 - d) Upon return from a trip involving City charged air travel, the traveler should properly voucher reimbursable travel expenses incurred. A copy of the airline ticket or other evidence of the charge should also be attached to the travel expense report.
 - e) Frequent flyer miles awarded as a result of flights paid for by the City are to be used only in conjunction with other City authorized flights and not for personal use.
- 4) It is expected that every traveler will be as prudent and mature in handling City funds as his own.

F. *Excluded Items:* The City of Columbus will not reimburse the traveler for expenses of entertainment or expenses incurred on behalf of any non-city employee for any reason.

II. Specifications and Guidelines:

A. *Living Expenses:*

1) Meals

a. The following daily "per diems" and/or allowances for meals, including gratuities, are considered reasonable.

	Premium priced areas	All other areas
Breakfast	\$ 8.00	\$ 7.00

APPENDIX A

Lunch	12.00	8.00
Dinner	30.00	20.00
	\$ 50.00	\$ 35.00

b. The following metropolitan areas are premium priced areas:

- | | |
|----------------------------|--------------------------------|
| 1. Atlanta, Georgia | 8. Miami, Florida |
| 2. Baltimore, Maryland | 9. New Orleans, Louisiana |
| 3. Boston, Massachusetts | 10. New York, New York |
| 4. Chicago, Illinois | 11. Philadelphia, Pennsylvania |
| 5. Dallas, Texas | 12. San Francisco, California |
| 6. Detroit, Michigan | 13. Seattle, Washington |
| 7. Los Angeles, California | 14. Washington, DC |

c. Meal allowances for areas outside of the continental United States will be established on an individual basis.

d. Special meals that exceed the reasonable cost allowance are reimbursable when they are an integral part of the activity, receipted, and itemized and explained on the expense report.

e. If a meal(s) is included as part of the registration fee from the activity being attended, the normal allowance for that meal will not be reimbursed.

f. There will be no meal allowances for "same day travel"; when an employee leaves home and returns home on the same day.

2) Lodging:

a) Reimbursement for lodging will be made only if such expenses are properly receipted. Said receipts must accompany the travel expense report.

b) No allowance for lodging expenses may be claimed:

- 1) within Franklin County
- 2) within the county of residence from which the employee commutes to his headquarters
- 3) within fifty miles of the employee's residence

c) Reasonable, actual, single room rate only is reimbursable.

3) Incidental Living Expenses:

a) Expenses incurred for laundry and dry cleaning may be reimbursed if the employee is in continuous travel status in excess of five days without returning home during that time. These items must be receipted and itemized.

b) Safe arrival call: On extended travel, the traveler will be allowed one safe arrival telephone call to his place of residence not to exceed five dollars.

APPENDIX A

B. Travel:

1) Personal Automobile Usage:

a) Ordinance 1739-94 provided that travelers may be reimbursed at a rate equal to the Internal Revenue Service allowable rate for business mileage for use of privately owned vehicles for transportation on any city business in or out of the City of Columbus. Use of private vehicles will be authorized only when it is the lowest available travel fare or for the convenience of the City. Use of a private vehicle for convenience of the traveler will be reimbursable in an amount equal to coach air fare and limousine allowance round trip to city of destination only or actual mileage traveled, whichever is less. When reimbursement for mileage in lieu of air fare is claimed, no allowance will be paid for lodging or meals or other expenses enroute that would not have been incurred if commercial transportation had been used. Road and bridge tolls are reimbursable so long as the sum of such tolls and the mileage reimbursement do not exceed the coach air fare and limousine allowance. If destination is not served by air, fare to the nearest terminal will be allowed and mileage will be allowed for round trip from that terminal city to destination.

b) Reimbursement will be based upon AAA mileage charts. Excess mileage claimed for reimbursement must be substantiated as necessary and reasonable on the Travel Encumbrance.

c) Mileage is payable to only one of two or more employees traveling on the same trip and in the same vehicle.

d) No insurance is carried by the City on privately owned vehicles driven on City business. Each traveler must carry coverage for his own personal protection.

e) Costs resulting from illegal parking, traffic violations, and driver negligence are not reimbursable.

2) City-owned Vehicle Usage:

a) When emergency service or repair is necessary on out-of-town trips in connection with a City-owned vehicle, and it is not available through normal departmental procedure, any expense claimed must be itemized, explained and receipted. The City equipment number should appear on any receipt.

b) No insurance is carried by the City on City-owned vehicles. Each traveler must carry coverage for his own personal protection.

3) Automobile Rental

Automobile rental is not at the discretion of the traveler and must be a necessary and cost effective mode of transportation for the benefit of the City. Reimbursement for such rentals will be dependent on adequate explanation

APPENDIX A

clearly demonstrating the benefit to the City. This explanation should be with the travel encumbrance, and should include all expenses related to rental.

4) Common Carrier

- a) The lowest available rate is reimbursable.
- b) The traveler is personally liable for any charges assessed for unused travel reservations which are not released within the time limits specified by the carriers unless such non-use resulted from the department head's directions.
- c) The traveler may purchase an airline ticket through a travel agency after encumbering such funds. When an airline ticket is purchased through a travel agency, it shall be encumbered on the travel encumbrance along with the traveler's other expenses (using the appropriate vendor number).
- d) If your travel has been charged through a travel agency, payment should be vouchered immediately upon receipt of invoice. If any unused ticket, or unused portion of a ticket remains, the traveler should immediately obtain and submit a credit memo to the City Auditor for the value of the unused charged fare.

5) Other Transportation Expense

- a) Items claimed must be listed individually and accompanied by receipts where practicable.
- b) Allowable items shall include:
 - 1) Airport/hotel limousine service, taxi fares, parking garages or other local transportation (receipts required where practicable).
 - 2) Bridge, tunnel, and highway tolls (receipts required where practicable).

C. *Miscellaneous Expense:*

- 1) Expenses incurred for stenographer fees, baggage, telephone calls on official City business, and rental of equipment for temporary meetings or office facilities necessary for the conduct of official City business may be reimbursed. Such items must be itemized and receipted.

D. *Registration Fees:*

- 1) Reimbursement may be made for the fee for attending seminars, conferences, or other activities provided that attendance by said traveler is deemed beneficial as set forth by the requirements in Section 1-C.

APPENDIX A

E. Since it is not possible to anticipate every travel potentiality that might arise, requests for reimbursements that vary from the above guidelines will be addressed on a case by case basis. It is anticipated, however, that such cases will be rare.

Prepared by:

Hugh J. Dorrian
City Auditor

City of Columbus
Purchasing
77 N front St
Columbus Oh 43215

RE: 55 ft bucket truck RFQ 006761

Item in bid no longer available Section 3.3.12.12

Prepared for:
 xxx xxx
 The City Of Columbus
 77 N Front St
 Columbus, OH 43215
 Phone: 614 645 6104

Prepared by:
 Steve Tancos
 FYDA FREIGHTLINER
 COLUMBUS,INC
 1250 WALCUTT ROAD
 COLUMBUS, OH 43228
 Phone: 614 851 0002

S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-16M	M2 PRL-16M (EFF:04/25/17)		
Data Version			
DRL-024	SPECPRO21 DATA RELEASE VER 024		
Interior Convenience/Driver Retention Package			
055-998	NO INTERIOR CONVENIENCE PACKAGE		
Vehicle Configuration			
001-172	M2 106 CONVENTIONAL CHASSIS	5,759	3,503
004-218	2018 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-011	FIXED LOAD COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-091	MEDIUM TRUCK WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs		



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 xxx xxx
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 1250 WALCUTT ROAD
 COLUMBUS, OH 43228
 Phone: 614 851 0002

Data Code	Description	Weight Front	Weight Rear
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 21000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 33000.0 lbs		

Truck Service

AA3-030	FLATBED/PLATFORM BODY WITH LIFT/PULL DEVICE		
A88-99D	EXPECTED TRUCK BODY LENGTH : 16.0 ft		
AF3-2A5	TEREX		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		

Engine

101-22M	CUM L9 260 HP @ 2200 RPM; 2200 GOV RPM, 720 LB/FT @ 1300 RPM	640	30
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Electronic Parameters

79A-078	78 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
79W-001	ONE REMOTE PTO SPEED		
79X-005	REMOTE PTO SPEED 1 SETTING - 900 RPM		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		

Engine Equipment

99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
99D-009	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE OF HOOD)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
133-004	ONE PIECE VALVE COVER		
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER		



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 1250 WALCUTT ROAD
 COLUMBUS, OH 43228
 Phone: 614 851 0002

Data Code	Description	Weight Front	Weight Rear
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-098	(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
131-013	AIR COMPRESSOR DISCHARGE LINE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-1AR	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH, ACTIVATES STOP LAMPS	20	
016-1DE	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH C-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1D0	RH CURVED VERTICAL TAILPIPE C-PILLAR MOUNTED ROUTED FROM STEP		
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		



Prepared for:
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 The City Of Columbus
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 1250 WALCUTT ROAD
 COLUMBUS, OH 43228
 Phone: 614 851 0002

Data Code	Description	Weight Front	Weight Rear
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)		
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
266-013	1100 SQUARE INCH ALUMINUM RADIATOR	20	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV		
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		



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 77 N Front St
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 COLUMBUS, OH 43228
 Phone: 614 851 0002

Data Code	Description	Weight Front	Weight Rear
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
84V-998	TCU-DIRECTION CHNG,NOT CONFIGURED		
84M-998	TCU-PUMP MODE OPTION NOT CONFIGURED		
85B-998	TCU-RANGE INDICATION NOT CONFIGURED		
353-023	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT END OF FRAME		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		



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 Steve Tancos
 FYDA FREIGHTLINER
 COLUMBUS, INC
 1250 WALCUTT ROAD
 COLUMBUS, OH 43228
 Phone: 614 851 0002

Data Code	Description	Weight Front	Weight Rear
Front Axle and Equipment			
400-1A7	DETROIT DA-F-13.3-3 13,300# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE		
402-021	MERITOR 15X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS	5	
409-006	FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
536-050	TRW THP-60 POWER STEERING		
539-003	POWER STEERING PUMP		
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE		
Front Suspension			
620-1D8	13,300# TAPERLEAF FRONT SUSPENSION	75	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
62H-998	NO FRONT SUSPENSION SPRING BRACKET OPTIONS		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-1C8	DETROIT DA-RS-21.0-4 21,000# R-SERIES SINGLE REAR AXLE		
421-478	4.78 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-079	MXL 16T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	10	10
393-998	NO DRIVELINE GUARD		
423-033	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-012	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)		



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Data Code	Description	Weight Front	Weight Rear
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		
440-006	REAR OIL SEALS		
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
Rear Suspension			
622-1DC	26,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		170
621-001	SPRING SUSPENSION - NO AXLE SPACERS		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
623-005	FORE/AFT CONTROL RODS		
Brake System			
018-002	AIR BRAKE PACKAGE		
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20	
479-003	AIR DRYER MOUNTED INBOARD ON LH RAIL		
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL		
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
477-008	BW DV-2 AUTO DRAIN VALVE WITH HEATER - WET TANK		
Trailer Connections			
296-026	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, CENTER PIN POWERED THROUGH IGNITION WITH STOP SIGNAL PREWIRE PACKAGE		

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Data Code	Description	Weight Front	Weight Rear
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME	5	5
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
30L-998	NO HIGH CURRENT TRAILER/BODY CABLE		

Wheelbase & Frame

545-542	5425MM (214 INCH) WHEELBASE		
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	330	290
552-063	2550MM (100 INCH) REAR FRAME OVERHANG		
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-50	210
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 122.86 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 119.86 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 343.39		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 122.86 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 153.8 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 133.77 in		
553-001	SQUARE END OF FRAME		
587-003	REAR TOW HOOKS		10
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REAR MOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		

Chassis Equipment

556-1AN	THREE-PIECE 14 INCH STEEL CENTER BUMPER WITH FLEXIBLE PLASTIC ENDS		
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
489-998	NO TIRE PRESSURE CONTROL/SENSOR		

Fuel Tanks

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Data Code	Description	Weight Front	Weight Rear
204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
218-005	RECTANGULAR FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-1H4	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND 12 VOLT PREHEATER	-5	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-994	MICHELIN XZE 12R22.5 16 PLY RADIAL FRONT TIRES	50	
094-0GK	MICHELIN XDN2 11R22.5 14 PLY RADIAL REAR TIRES		72
510-1G4	MICHELIN XZE2 11R22.5 14 PLY RADIAL SPARE TIRE		119
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	20	
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Wheels			
502-523	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 6.19 INSET 5-HAND STEEL DISC FRONT WHEELS	18	
505-523	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		36
511-1F2	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 6.20 INSET 2-HAND STEEL DISC SPARE WHEEL		70
50W-998	NO RIM/WHEEL TIRE PRESSURE SENSOR		
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-075	132 INCH BBC HIGH-ROOF EXTENDED ALUMINUM CONVENTIONAL CAB	200	50
650-008	AIR CAB MOUNTING		

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Data Code	Description	Weight Front	Weight Rear
678-001	LH AND RH GRAB HANDLES		
646-009	PAINTED PLASTIC GRILLE		
65X-001	ARGENT SILVER HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK	4	
726-002	DUAL ELECTRIC HORNS		
728-001	SINGLE HORN SHIELD		
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-043	INTEGRAL HEADLIGHT/MARKER ASSEMBLY		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-021	HEADLIGHTS ON WITH WIPERS, NO DAYTIME RUNNING LIGHTS		
294-090	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING FOR COMBINED STOP/TURN LIGHTS TO FOUR FEET BEYOND END OF FRAME		-5
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74B-080	RH AND LH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	8	
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-011	RH AND LH ELECTRIC POWERED WINDOWS	4	
767-047	20X23 INCH LH AND RH TINTED SIDE WINDOWS		
663-013	TINTED WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

Cab Interior

707-1AK OPAL GRAY VINYL INTERIOR



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Data Code	Description	Weight Front	Weight Rear
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
738-001	DIGITAL FLUSH MOUNTED ALARM CLOCK IN DASH		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-046	DOOR ACTIVATED DOME/RED MAP LIGHTS, FORWARD LH AND RH AND REAR CENTER		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10
759-002	INBOARD DRIVER AND PASSENGER SEAT ARMRESTS		
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-036	VINYL WITH VINYL INSERT DRIVER SEAT		
761-036	VINYL WITH VINYL INSERT PASSENGER SEAT		
763-102	HIGH VISIBILITY ORANGE SEAT BELTS		
532-001	FIXED STEERING COLUMN		
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		



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Data Code	Description	Weight Front	Weight Rear
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instruments & Controls			
732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
721-001	97 DB BACKUP ALARM		3
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS		
738-998	NO LANE DEPARTURE WARNING SYSTEM		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
679-001	OVERHEAD INSTRUMENT PANEL		
746-1B4	AM/FM/WB WORLD TUNER RADIO WITH CD PLAYER, BLUETOOTH, IPOD INTERFACE, USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-008	AM/FM ANTENNA MOUNTED ON LH SIDE MIRROR		

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Data Code	Description	Weight Front	Weight Rear
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-998	NO VEHICLE PERFORMANCE MONITOR	-5	
8D1-998	NO DETROIT CONNECT SERVICES SELECTED		
8Z1-998	NO ZONAR SERVICES SELECTED		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-091	(6) IGN CONTROLLED EXTRA SWITCHES WITH IND LIGHTS WIRED TO POWER DIST BOX WITH RELAYS PROVIDING 20 AMPS PER CIRCUIT TO JUNCTION BLOCK AND 1 CIRCUIT AT 30 AMPS		
81Y-001	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-018	ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		
869-998	NO MISCELLANEOUS GAUGES		

Design

065-000 PAINT: ONE SOLID COLOR

Color

980-40D CAB COLOR A: L0486EB YELLOW
 ELITE BC

986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

98K-998 NO FUEL TANK CABINET PAINT

962-972 POWDER WHITE (N0006EA) FRONT
 WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

966-972 POWDER WHITE (N0006EA) REAR
 WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)



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Data Code	Description	Weight Front	Weight Rear
96F-972	POWDER WHITE (N0006EA) SPARE WHEEL/RIM (PKWHT21, TKWHT21, W, TW)		
964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX		
963-003	STANDARD E COAT/UNDERCOATING		

Certification / Compliance

996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
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Secondary Factory Options

998-001	CORPORATE PDI CENTER IN-SERVICE ONLY
99B-012	SHIP TO THIRD PARTY (CHARLOTTE, NC) PRIOR TO DELIVERY

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	7472 lbs	4668 lbs	12140 lbs
Total Weight ⁺	7472 lbs	4668 lbs	12140 lbs

Extended Warranty

WAG-011	TOWING: 2 YEARS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP FEX APPLIES
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(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.



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TEREX®

CUSTOMER ORDER ACKNOWLEDGEMENT

Terex Utilities, Inc. - 200 Eden Way - White House, TN 37188 - Phone: 605-882-4000 - Fax: 605-882-1842

Date: 10/18/2017

Quote Number: QU09693

FUDA FREIGHTLINER COLUMBUS
1250 WALCUTT RD
COLUMBUS, OH 43228

Attention: STEVE TANCOS

Baseline Price: \$148,751

Grand Total Each: \$148,751

*Plus all applicable taxes and license fees. Chassis payment is due upon chassis receipt at our facility.

Quote is valid for 30 days. Please ensure the accuracy of the specifications and drawings you provide. Changes made after receipt of order may incur additional charges. If you are trading equipment in, you warrant that: You have good title to the trade-in; it is free of all liens and encumbrances; all information you have provided related to the trade-in is true and correct.

Notes:

- 1) Delivery Terms are: FCA, Shipping Point Delivery Prepaid and Included.
- 2) Terms: Net 30 days
- 3) Delivery days from receipt of order shall be 180-240

Buyer hereby submits its offer to purchase the Products in this Quotation, subject to acceptance by Seller. Buyer has read and agrees to all of Seller's attached Terms and Conditions of Sale. Please fax completed form to 605-882-5595 or transmit it to your Account Manager.

Terex Utilities Inc.

JASON ELGER

Sales Coordinator

STROY HALL

Account Manager

Accepted By: _____

PO Number: _____

Quantity: _____

Grand Total: _____

Date: _____

TERMS & CONDITIONS OF SALE
TEREX SOUTH DAKOTA, INC./TEREX UTILITIES, INC.
U.S. and CANADA (except Quebec)

1. Terms and Conditions. These Terms and Conditions of Sale cancel and supersede any and all terms of sale pertaining to Parts and Equipment (and any supplements thereto) previously issued by Seller to Buyer and are subject to change without advance notice. "Seller" herein shall be the seller identified in the Sales Order Acknowledgement or other applicable sales documents. The prices, charges, discounts, terms of sale and other provisions referred to or contained herein shall apply to Seller's Parts and Equipment (hereinafter collectively referred to as "Products") sold and shipped to Buyer on and after August 1, 2016, and shall remain in effect unless and until superseded in writing by Seller. Acceptance of an order for Products by Seller shall be deemed to constitute a binding agreement between the parties pursuant to the terms and conditions contained herein and Buyer agrees that the order may not thereafter be cancelled, countermanded or otherwise changed without the prior consent of Seller. This agreement supersedes any prior agreements, representations, or other communications between the parties relating to the subject matter set forth herein. No other terms and conditions shall apply including the terms of any purchase order submitted to Seller by Buyer, whether or not such terms are inconsistent or conflict with or are in addition to the terms and conditions set forth herein. Seller's acceptance of Buyer's purchase order is conditional upon Buyer's acceptance of all the terms and conditions contained herein. Any communication construed as an offer by Seller and acceptance thereof is expressly limited to the terms and conditions set forth herein. The Products are intended for industrial/commercial use by professional contractors and their trained employees and are not intended for use by consumers.

2. Terms of Payments. Payment for Products purchased by Buyer shall be made in accordance with any of the following terms, provided they have been previously arranged with and expressly approved by Seller in writing: (1) cash in advance; (2) confirmed, irrevocable letter of credit established in such amount and form and at such time and at such bank as shall be approved by Seller in respect of each order; (3) credit account purchases for which payment will be due and payable on net thirty (30) day terms, plus service and other charges applicable to past due amounts in accordance with Seller's written notices; or (4) other payment arrangements expressly approved by Seller in writing prior to or at the time the order is placed. If any Buyer credit account purchase is not paid in accordance with Seller's credit payment terms, in addition to any other remedies allowed in equity or by law, Seller may refuse to make further shipments without advance payment by Buyer. Nothing contained herein shall be construed as requiring Seller to sell any Products to Buyer on credit terms at any time, or prohibiting Seller from making any and all credit decisions which it, in its sole discretion, deems appropriate for Seller. Seller shall have the right, at its option, to charge interest on all amounts not paid when due and Buyer agrees to pay such interest calculated on a daily basis, from the date that payment was due until the Seller receives payment in full, at the rate of 1.5% per month or the maximum rate permitted by applicable law. Unless otherwise agreed in writing between Seller and Buyer, Seller may, in its sole discretion, increase or decrease the price of any Product, as Seller deems reasonably necessary, at any time prior to shipment and invoice Buyer for the same. If Buyer orders the chassis through Seller, the chassis payment is due upon receipt of chassis by Seller and the balance owed for the completed unit is due in accordance with agreed upon payment terms. When supplied by Buyer, Seller will inspect the chassis upon receipt and will notify Buyer of any chassis mounted components (including but not limited to fuel tanks, air tanks, battery boxes and exhaust systems) that require relocation. Buyer will be invoiced for such work upon completion of the finished Equipment.

3. Taxes and Duties. Unless otherwise noted, prices quoted do not include taxes or duties of any kind or nature. Buyer agrees that it will be responsible for filing all tax returns and paying applicable tax, duty, export preparation charge and export documentation charge resulting from the purchase of the Products. In addition, in the event any other similar tax is determined to apply to Buyer's purchase of the Products from Seller, Buyer agrees to indemnify and hold Seller harmless from and against any and all such other similar taxes, duties and fees. All prices quoted are U.S. dollars unless otherwise specified. The amount of any present or future taxes applicable to the sale, transfer, lease or use of the Products shall be paid by Buyer; or in lieu thereof, Buyer shall provide Seller with a tax exemption certificate satisfactory to the applicable taxing authority proving that no such tax is due and payable upon such sale, transfer, lease or use.

4. Title, Property, Risk and Delivery. Unless otherwise stated in writing, for all intra-continental United States shipments, all prices and delivery are FCA, point of manufacture (Incoterms 2010); for all other shipments, all prices and delivery are FAS, named port of shipment (Incoterms 2010). Title and all risk of loss or damage to Products shall pass to Buyer upon delivery, as per Incoterms 2010. Any claims for loss, damage or delay in transit must be entered and prosecuted by the Buyer directly with the carrier, who is hereby declared to be the agent of the Buyer. Seller shall not be liable for any delay in performance of this agreement or delivery of the Products, or for any damages suffered by Buyer by reason of delay, when the delay is caused, directly or indirectly, by a force majeure event described in Section 20 herein or any other cause beyond Seller's control. Claims for shortages in shipments shall be deemed waived and released by Buyer unless made in writing within five (5) days after Buyer's receipt of shipment. Seller's responsibility for shipment shall cease upon delivery of the Products to the place of shipment, and all claims occurring thereafter shall be made to or against the carrier by Buyer. Delivery shall generally be 240 to 270 days after receipt by Seller of a signed Order, provided that, where applicable: (1) Seller receives the chassis a minimum of 90 days prior to scheduled delivery, (2) drawings are timely sent by Buyer and the approved drawings are returned to Seller by Buyer by the requested date, (3) all vendor-supplied components and Buyer-supplied accessories are received by Seller by the date necessary to comply with scheduled delivery. Seller shall not be liable for any delay in performance of this agreement or delivery of the Products, or for any damages suffered by Buyer by reason of delay, when the

delay is caused, directly or indirectly, by a force majeure event described in Section 20 herein or any other cause beyond Seller's control. Claims for shortages in shipments shall be deemed waived and released by Buyer unless made in writing within fifteen (15) days after Buyer's receipt of shipment. Seller's responsibility for shipment shall cease upon delivery of the Parts and or Equipment to the place of shipment, and all claims occurring thereafter shall be made to or against the carrier by Buyer.

5. Delays Caused By Buyer. In the event of a delay in shipment or delivery due to delay by Buyer in furnishing delivery instructions, arranging a method of payment satisfactory to Seller, submitting valid import permits or licenses, or any other delay caused by Buyer or at Buyer's request, if the Products are not shipped or delivered within five (5) days from the first date they are ready to be shipped or delivered, then Seller shall be entitled to charge, as compensation, any additional costs incurred related to such delay. If the Products are not shipped or delivered by the date which is ten (10) days from the first date they are ready to be shipped or delivered, then Buyer's order shall be deemed cancelled and Seller may, in its sole discretion, sell such Products to another buyer without any liability or responsibility to Buyer whatsoever. Seller shall have the right to keep payments on account already received from Buyer, and the difference between the sales price (increased by any other and all further costs, including but not limited to attorney's fees and expenses, storage and other costs, and interest accrued thereon) and the price received from another buyer shall constitute a debt of Buyer and bear interest at the same rate set forth in Section 2 herein. Seller shall be entitled to claim for any further damages suffered as a consequence of Buyer's breach of its obligations hereunder.

6. Cancellation. Prior to delivery to place of shipment, a Product order may be cancelled only with Seller's prior consent and upon terms indemnifying Seller from all resulting losses and damages. Seller shall have the right to cancel and refuse to complete a Product order if any term and/or condition governing this agreement is not complied with by Buyer. In the event of cancellation by Seller, or in the event Seller consents to a request by Buyer to stop work or to cancel the whole or any part of any order, Buyer shall, in the event that Seller asks Buyer to do so, make reimbursement to Seller, as follows: (i) any and all work that can be completed within thirty (30) days from date of notification to stop work on account of cancellation shall be completed, shipped and paid in full; and (ii) for work in progress and any materials and supplies procured or for which definite commitments have been made by Seller in connection with the order, Buyer shall pay such sums as may be required to fully compensate Seller for actual costs incurred, plus fifteen percent (15%). Buyer may not cancel any order after Seller's delivery to place of shipment. Orders for "Special" Equipment may not be cancelled after acceptance, except by Seller. Items of "Special" Equipment are those that differ from standard Seller specifications, have a limited market, or incorporate specifications that have been determined for a specific application. Determination of whether an item of Equipment is "Special" shall be made by Seller in its sole discretion.

7. Inspection and Acceptance. Buyer agrees that it shall inspect the Products immediately after receipt and promptly (in no event later than fifteen (15) days after receipt) notify Seller in writing of any non-conformity or defect. Buyer further agrees that failure to give such prompt notice or the commercial use of the Products shall constitute acceptance. Acceptance shall be final and Buyer waives the right to revoke acceptance for any reason, whether or not known by Buyer at the time of such acceptance. The giving of any such notice by Buyer shall automatically cause the provisions of Seller's warranty to apply and govern the rights, obligations and liabilities of the parties with respect to such nonconformity or defect, provided under no circumstances shall rejection give rise to any liability of Seller for incidental or consequential damages or losses of any kind. Seller shall not be bound by any agent's, employee's or any other representation, promise or inducement not set forth herein. Seller's catalogues, technical circulars, price lists, illustrations, drawings and any other similar literature are for Buyer's general guidance only and the particulars contained in them shall not constitute representations by Seller and Seller shall not be bound by them.

8. Warranty for New Products. Seller warrants its new Equipment and Parts manufactured and sold worldwide, to be free, under normal use and service, of any defects in material or workmanship for a period of twelve (12) months from the date of delivery (as limited by Seller's Limited Product Warranty); provided that Buyer sends Seller written notice of the defect within thirty (30) days of its discovery and establishes that: (i) the Equipment has been operated and maintained in strict compliance with Seller's operating and maintenance manuals ; and (ii) the defect did not result in any manner from the intentional or negligent action or inaction of Buyer, its agents or employees and (2) a new machine registration certificate has been completed, signed and delivered to the Seller within thirty (30) days of the Equipment's "in-service" date. If requested by Seller, Buyer must return any defective Product to Seller's manufacturing facility, or other location designated by Seller, for inspection, and if Buyer cannot establish that conditions (i) and (ii) above have been met, then this warranty shall not cover the alleged defect. Failure to give written notice of defect within such period shall be a waiver of this warranty and any assistance rendered thereafter shall not extend or revive it. Accessories, assemblies and components included in the Products of Seller, which are not manufactured by Seller, are subject to the warranty of their respective manufacturers. This warranty shall not cover any item on which serial numbers have been altered, defaced or removed. Maintenance and wear parts are not covered by this warranty and are the sole maintenance responsibility of Buyer. This warranty is limited to the original purchaser or end-user if sold to a distributor, and is not assignable or otherwise transferable without written agreement of Seller. **THIS WARRANTY IS EXPRESSLY IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) AND ALL OTHER OBLIGATIONS OR LIABILITY ON SELLER'S PART. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY CONTAINED HEREIN.** Seller neither assumes nor authorizes any other person to assume for Seller any other liability in connection with the sale of Seller's Products. This warranty shall not apply to any of Seller's Products or any part thereof which has been subject to misuse, alteration, abuse,

negligence, accident, acts of God or sabotage. No action by either party shall operate to extend or revive this limited warranty without prior written consent of Seller.

9. Warranty for Used Equipment. Used Equipment sold hereunder is sold on an "AS IS, WHERE IS, WITH ALL FAULTS" BASIS WITH NO WARRANTIES WHATSOEVER, EXCEPT AS TO TITLE, UNLESS OTHERWISE SPECIFICALLY AGREED IN WRITING BY BUYER AND SELLER. SELLER ASSUMES NO RESPONSIBILITY FOR THE CONDITION, SAFETY, LEGAL COMPLIANCE, OR USABILITY OF THE USED EQUIPMENT AND MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE USED EQUIPMENT INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SELLER MAKES NO REPRESENTATION OR WARRANTY REGARDING THE CONDITION OF THE USED EQUIPMENT, NOR THE SUFFICIENCY OF ANY WARNINGS, INSTRUCTIONS OR MANUALS PROVIDED WITH THE USED EQUIPMENT. Seller recommends and Buyer acknowledges that Buyer should contact the original manufacturer to obtain all available information for the used Equipment, including but not limited to product manuals, warnings, safety bulletins, recall notices, and instructional placards before using the used Equipment. Seller shall not be responsible for providing such information. Buyer agrees not to assert any claims against Seller with respect to the used Equipment or its use. Buyer agrees that it shall inspect the used Equipment prior to issuance of a purchase order for such Equipment and acknowledges that it is not relying upon any photographs, images, videos, representations, statements or other assertions made by Seller with respect to the used Equipment's condition, but is relying upon its own knowledge and/or inspection of the used Equipment.

10. Remedies for Breach. IN THE EVENT OF ANY BREACH OF THE WARRANTY BY SELLER, THE PARTIES AGREE THAT SELLER'S LIABILITY SHALL BE LIMITED EXCLUSIVELY TO THE REMEDIES OF REPAIR OR REPLACEMENT (AT SELLER'S SOLE DISCRETION) OF ANY DEFECTIVE EQUIPMENT COVERED BY THE WARRANTY. In no event shall any repair or replacement of any defective equipment covered by the Seller's warranty extend the length of the warranty beyond the period specified in Section 8 herein.

11. Limitation of Liability. NOTWITHSTANDING ANYTHING CONTAINED IN THIS AGREEMENT TO THE CONTRARY, SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR, AND SPECIFICALLY DISCLAIM, ANY LIABILITY FOR ANY: (A) LOST PROFITS AND/OR BUSINESS INTERRUPTION (WHETHER DIRECT OR INDIRECT); AND (B) INDIRECT, INCIDENTAL, CONSEQUENTIAL (WHETHER DIRECT OR INDIRECT) OR OTHER DAMAGES OR LOSSES OF ANY KIND WHATSOEVER, including, without limitation, labor costs, lost profits, loss of use of other equipment, third party repairs, personal injury, emotional or mental distress, improper performance or work, penalties of any kind, loss of service of personnel, or failure of Products to comply with any federal, state, provincial or local laws, regardless of whether arising from a breach of contract, or warranty, legal claims or otherwise. Nothing in this Section shall operate to exclude Seller's liability for death or personal injury when directly related to Seller's negligent act or omission.

12. Limitation of Actions. Any action for breach of this agreement must be commenced within one (1) year after the cause of action has accrued.

13. Specification Changes. In the event Seller incurs additional expense because of changes in specifications or drawings previously approved by Buyer, or in the event Seller is required to modify the ordered Equipment, perform any additional work or supply any additional Products, the additional expense shall be added to the purchase price. Buyer must submit to Seller a revised purchase order specifying any and all requested changes. Upon receipt of Buyer's revised purchase order, Seller shall have the right, in its sole discretion, to accept or reject any changes in specifications requested by Buyer.

14. Trade-in Offers. Trade-in offers are subject to Seller's inspection and acceptance of the equipment, which must have been maintained to U.S. Department of Transportation operating and safety standards. All accessories on the equipment, including without limitation jibs, winches, pintle hooks and trailer connectors, must remain with the equipment unless otherwise agreed by Seller and Buyer in writing. Seller reserves the right to cancel any trade-in offers or agreements if these conditions are not met, or if Buyer has misrepresented any information about the trade-in unit.

15. Insurance. Until the purchase price of any Products is paid in full, the Buyer shall provide and maintain insurance equal to the total value of the Equipment delivered hereunder against customary casualties and risks; including, but not limited to fire and explosion, and shall also insure against liability for accidents and injuries to the public or to employees, in the names of Seller and Buyer as their interest may appear, and in an amount satisfactory to Seller. If the Buyer fails to provide such insurance, it then becomes the Buyer's responsibility to notify the Seller so that the Seller may provide same; and the cost thereof shall be added to the contract price. All loss resulting from the failure to affect such insurance shall be assumed by the Buyer.

16. Patents, Copyrights, Trademarks, Confidentiality. No license or other rights under any patents, copyrights or trademarks owned or controlled by Seller or under which Seller is licensed are granted to Buyer or implied by the sale of Products hereunder. Buyer shall not identify as genuine products of Seller products purchased hereunder which Buyer has treated, modified or altered in any way, nor shall Buyer use Seller's trademarks to identify such products; provided, however, that Buyer may identify such products as utilizing, containing or having been manufactured from genuine products of Seller as treated, modified or altered by Buyer or Buyer's representative, upon prior written approval of Seller. All plans,

photographs, designs, drawings, blueprints, manuals, specifications and other documents relating to the business of Seller ("Information") shall be and remain the exclusive property of Seller and shall be treated by Buyer as confidential information and not disclosed, given, loaned, exhibited, sold or transferred to any third party without Seller's prior written approval; provided, however, that these restrictions shall not apply to Information that Buyer can demonstrate: (a) at the time of disclosure, is generally known to the public other than as a result of a breach of this Agreement by Buyer; or (b) is already in Buyer's possession at the time of disclosure by from a third party having a right to impart such Information.

17. Default and Seller's Remedies. In the event of default by Buyer, all unpaid sums and installments owed to Seller, shall, at Seller's sole option, become immediately due and payable without notice of any kind to Buyer. In addition to its right of acceleration, Seller may pursue any and all remedies allowed by law or in equity, including but not limited to any and all remedies available to it under the Delaware Uniform Commercial Code. In addition to the foregoing, and not in limitation thereof, Seller shall have the right to set off any credits or amounts owed to Buyer against any amounts owed by Buyer to Seller.

18. Indemnification by Buyer. Buyer hereby agrees to indemnify, release, defend and hold harmless Seller, its directors, officers, employees, agents, representatives, successors, and assigns against any and all suits, actions or proceedings at law or in equity (including the costs, expenses and reasonable attorney's fees incurred in connection with the defense of any such matter) and from any and all claims demands, losses, judgments, damages, costs, expenses or liabilities, to any person whatsoever (including Buyer's and Seller's employees or any third party), or damage to any property (including Buyer's property) arising out of or in any way connected with the performance or the furnishing of Products under this agreement, regardless of whether any act, omission, negligence (including any act, omission or negligence, relating to the manufacture, design, repair, erection, service or installation of or warnings made or lack thereof with respect to any Products furnished hereunder) of Seller, its directors, officers, employees, agents, representatives, successors or assigns caused or contributed thereto. If Buyer fails to fulfill any of its obligations under this paragraph or this agreement, Buyer agrees to pay Seller all costs, expenses and attorney's fees incurred by Seller to establish or enforce Seller's rights. The provisions of this paragraph are in addition to any other rights or obligations set forth in this agreement.

19. Installation. Unless otherwise expressly agreed in writing, Buyer shall be solely responsible for the installation and erection of the Products purchased. Although Seller may in some cases provide a serviceman, data and drawings to aid Buyer with installation or start-up, Seller assumes no responsibility for proper installation or support of any Products when installed and disclaims any express or implied warranties with respect to such installation and support. Notwithstanding whether data and drawings are provided or a serviceman aids in the installation, Buyer shall indemnify and hold Seller harmless and at Seller's request, defend Seller from all claims, demands or legal proceedings (including the costs, expenses and reasonable attorney's fees incurred in connection with the defense of any such matter) which may be made or brought against Seller in connection with damage or personal injury arising out of said installation or start-up.

20. Force Majeure. Seller shall not be liable to Buyer or be deemed to be in breach of this agreement by reason of any delay in performing, or any failure to perform, any of Seller's obligations in relation to the Products if the delay or failure was due to any cause beyond the reasonable control of Seller including (without limitation) strike, lockout, riot, civil commotion, fire, accident, explosion, tempest, act of God, war, epidemic, stoppage of transport, terrorist activity, supply shortage or changes in government, governmental agency, laws, regulations or administrative practices.

21. Anti-Corruption; Export Controls; No Boycotts. Buyer agrees that it shall, and that any party retained by the Buyer ("Retained Party") shall, comply with all applicable laws including, but not limited to, laws prohibiting public corruption and commercial bribery. Buyer further agrees that it shall, and that any Retained Party shall, comply with all applicable export controls, economic sanctions, embargoes and regulations regarding the export, re-export, shipment, distribution and/or sale of the Products, technology, information or warranty related services. Buyer further agrees that it shall comply with applicable laws pursuant to the Joint Comprehensive Plan of Action (JCPOA) of July 14, 2015 and any other applicable laws, resolutions, regulations or licenses for the export or re-export of Products, technology, information or warranty related services directly, or with its knowledge indirectly into Iran. Buyer further agrees that it shall not, and any Retained Party shall not, export or re-export the Products, technology, information or warranty related services directly, or with its knowledge, indirectly, into Sudan. Buyer further agrees that it shall not, and any Retained Party shall not, export or re-export the Products, technology, information or warranty related services directly or with its knowledge indirectly into Cuba without Buyer first obtaining written approval from Seller. Failure to comply strictly with this section and all applicable laws, regulations and licensing/approval requirements shall be grounds for immediate termination of this agreement by Seller. Notwithstanding anything to the contrary contained in any agreement between the Buyer and Seller or in any other document or agreement relating to the Products sold hereunder, Seller will not comply with requests related to the boycott of any country or other jurisdiction, except to the extent such boycott is required by or otherwise not inconsistent with United States law.

22. Telematics. If a telematics system is included with the Equipment, the telematics system is administered by a third party ("Teleservice Provider") and collects a range of operational data about the Equipment including, but not limited to, usage, performance and reliability. Buyer consents to Seller's obtaining such data from the Teleservice Provider for warranty, product improvement and customer support purposes

23. Construction and Severability. These Terms and Conditions of Sale constitute the entire agreement between the parties regarding the subject matter hereof and shall be construed and enforced in accordance with the laws of Delaware. The United Nations Convention on Contracts for the International Sale of Goods (1980) (CISG) shall not apply. The invalidity or unenforceability of any provisions of this agreement shall not affect any other provision and this agreement shall be construed in all respects as if such invalid or unenforceable provision were omitted.

24. Jurisdiction. The parties agree that the proper and exclusive forum and venue in all legal actions brought to enforce or construe any provisions herein shall be in United States District Court, District of Delaware or, if federal jurisdiction is lacking in such action, in New Castle County Superior Court in Delaware.

25. No Assignment. No rights arising under this agreement may be assigned by the Buyer unless expressly agreed to in writing by the Seller.

26. No Set-off. Buyer shall have no right to set-off any amounts it may owe Seller against amounts Seller may owe Buyer under this or any other agreement between Buyer and Seller.

27. Miscellaneous. Buyer represents that: (i) it is solvent and has the financial ability to pay for the Equipment and Parts purchased hereunder and (ii) it has all requisite right, power and authority to perform its obligations under this agreement.

Buyer's Initials: _____



Terex Utilities, Inc.
500 Oakwood Rd, Watertown, SD 57201
Phone: 605-882-4000 Fax: 605-882-1842

10/18/2017

FYDA FREIGHTLINER COLUMBUS

1250 WALCUTT RD
COLUMBUS, OH 43228
Attention: STEVE TANCOS

Phone: (614)554-1824

Qty. Description

UNIT

- 1 One (1) new Terex Hi-Ranger TL55 Articulating / Telescoping Aerial Device providing a working height of 60.1 ft (18.3 m).
Unit will be mounted behind the cab.

Design Criteria:

* Design criteria is in accordance with current industry and engineering standards applicable and accepted for structural and hydraulic design.

Aerial device is designed as a Category C machine in accordance and is dielectrically tested and rated for operation on systems up to 46 Kv phase to phase per ANSI/SIA A92.2-2015

Turntable and Lower Boom Assembly:

Lower Boom:

- * Filament wound high strength fiberglass insert providing an insulation gap.
- * The lower boom articulation is from 0 to 93 degrees.

Lower Controls:

- * Individual control levers are located in an accessible location on the turntable.

Rotation:

- * Self-locking worm gear rotation drive is provided and equipped with bi-directional motor.

Hydraulic System:

- * Full pressure open center hydraulic system.
- * Hydraulic hoses are equipped with permanent type fittings.

Miscellaneous:

- * All metallic components of the complete aerial device are prime painted.
- * The fiberglass upper boom, boom inserts, platforms and covers are white.
- * Two complete manuals providing operation and maintenance procedures and a replacement parts listing.
- * Warning decals provided with unit.

- 1 Pedestal with 20 gallon integral tank.
* The pedestal is designed with access holes for maintenance of hydraulic plumbing.

Qty. Description

* An internal 20-gallon hydraulic oil reservoir provided with a 60-mesh filler screen baffles gauge. 100 mesh suction screen with bypass clean out access hole and dip stick.

- 1 Boom Tip with 4 Function Controls and Platform Rotator:
Upper Controls: "Control-Plus" single stick controller.
* Enable lever must be actuated before operation.

The end mount platform rotator offering 180 degrees of hydraulic rotation.

Hydraulic Platform Tilt is provided at platform and lower controls.

Engine Stop/Start controlled at platform and lower controls.

Upper Boom:

* Filament wound high strength fiberglass boom providing an insulation gap.

- 1 Platform capacity rated up to 600-lbs.
- 1 Platform, End Mount, 24 x 48 x 42:
* Includes one outside access step with slip-resistant surface.
- 1 Two safety harnesses with lanyard is provided for fall arrest.
- 1 A padded saddle rest provides platform support during road travel.
- 1 Insulated Platform Liner with Step for 24" x 48" x 42" Platform:
* Tested at 50 KV AC.
- 1 PLATFORM COVER, 24X48
- 1 Demand Throttle:
* Two speed throttle system automatically increases engine RPM to a pre-set speed when an increase in hydraulic pressure is sensed.
** Note: Only available on units with Open Center Hydraulic systems. Requires tool option with flow control; for units with pump flows of 5 gpm or more at high idle.
- 1 Dual Hydraulic Tool Outlets At Platform With Flow Control:
* Installed at the platform to accommodate two open center hydraulic tools.
* Provides 5 GPM at 2250 psi at engine idle.
- 1 Auxiliary Power:
* Allows the operation of any function for a time period limited by battery life.
*Includes 12 volt electric motor for use on a 12 volt chassis.
Note: This includes a switch for activation at pedestal for electric or air function.
- 1 Continuous And Unrestricted Rotation:
* A hydraulic rotary manifold provides a rotating oil distribution system for continuous and unrestricted rotation.
* A 4 channel electric collector ring is provided as standard.

Qty. Description

- 1 Terex Chassis Controller (DTS51) 12 volt:
 - *Display Screen - Provides Inputs and Outputs indication for trouble shooting.
 - *Warning screens.
 - *Switch Buttons have LED indicators to show when active.
 - *Recommended for all Class 6 and above Chassis types.
 - *One system for all Chassis Types
 - *Controller programmable for communication with different Chassis manufacturers.
- 1 Heavy Duty A-Frame Outriggers with swivel type stabilizer pads. (9283)
- 1 Underslung Modified A-Frame Outriggers with swivel type stabilizer pads. (8352)
- 1 Controls For 2-Sets Of Outriggers And Auxiliary Tool Outlets (Open center systems):
 - * Recessed at rear of truck each side for ease of view for outrigger placement.
 - * Includes switches and alarm for outrigger in motion alarm.
- 1 Outrigger Interlock:
 - * To operate the boom the outriggers must be extended.
- 1 Subframe for 120" CA chassis.
 - * Subframe constructed with a 10.5' possum belly length
 - * Subframe is 197.00" long
 - * Constructed with 6" x 6" x 3/8" wall square tubing with 5/16" thick steel plate.
- 1 Tie down kit.
- 1 A boom rest with a cam style tie down strap is provided.
- 1 Boom storage warning light:
 - * Alerts operator if aerial or digger derrick device(s) is not properly stored.
- ** ALTERED FROM STANDARD **
- 1 Hybrid - HYPOWER IM
E-PTO Plug-In Efficiency System
Plugs into 120V standard outlet for battery charging
Charges from a 12V truck system alternator
48v Lithium ion battery system
8.8 KW Lithium ion battery pack
o 2.5 KWH with cab comfort (A/C only)
Includes in-cab display to monitor battery voltage idle and run-time.
System is approximate 500 lbs.
Provides can comfort HVAC & heating with use of coolant pump
- 1 Pump for systems requiring 8 gallons per minute:
 - *Fixed displacement vane pump providing 5 gallons per minute at 725 engine rpm and 8 gallons per minute at 1050 engine rpm with a 128% pto.
- 1 Extended derrick / aerial device warranty, two (2) year, in lieu of standard one year warranty for Terex South Dakota, Inc. installed unit.

Qty. Description

BODY, INSTALLATION

**** BODY INFORMATION ****

- 1 ***Stainless steel line body per supplied specification.***

- 1 Install Aerial Device Behind Cab And Install All Associated Components:
* Final test and inspect completed unit including stability and dielectric testing per manufacturers requirements and ANSI/SIA A92.2-2015.

- 1 Hose and fittings to connect the hydraulic system from the oil reservoir to the pump and unit.

- 1 Platform rest, bottom base

- 1 Chassis Spring Additions:
* Build up left rear chassis springs to level vehicle.

- 1 Power take off with indicator light for automatic transmission.

- 1 DOT Inspection.

- 1 Set chassis parameters.

- 1 Back-up alarm to sound when the vehicle is shifted into reverse.

- 4 18" x 18" x 1" poly outrigger pads.
* Includes outrigger pad storage.

Install one (1) at each outrigger.

- 2 Rubber wheel chocks with eye bolt.

- 1 Grab handles as necessary for 3-point contact.

- 1 Cable type gripstrut stirrup step.

Install on the streetside of the tailshelf.

- 1 Rigid stirrup step mounted on side access for ground to body access.

- 1 Access steps to platform from top of body or flatbed floor.

- 2 Mud flap with no logo 36" tall.
Note: Trim As-Required.

- 1 Under body mounting kit for a pair of mud flaps.

- 1 Boom rest.

Qty. Description

- 1 Peterson LED 7-lamp DOT Lighting Package:
 - * Complies with FMVSS 108.
 - * Includes required lights, junction box and wiring harness.
 - * Note: Back-up lights are incandescent.
- 1 Lighted license plate bracket kit with incandescent light.
- 1 Back-up lights are LED that replace incandescent light.
- 1 Amber strobe light (LED) with 4" tall & 6" dia. lens, and branch guard.
- 1 Whelen 4 corner LED, Amber Strobe Light Kit with 4" grommets.
 - *Wired into On/Off switch in cab.
- 1 Strobe light mounting bracket.
- 1 One (1) Go light 30004 LED light
65362405
- 1 One (1) 4in LED flush mounted cargo light installed at the curbside rear.
- 1 15 ton pintle hook:
 - * Safety chain eyes.
 - "Pintle hook brackets and attachment methods are designed to meet the associated pintle hook ratings. They are not designed for recovery purposes. If recovery attachments are required, please order the appropriate tow eyes."
- 1 ICC rear bumper.
- 1 Oil tank mounting for external reservoirs.
- 30 Fill with Hydraulic oil for general purpose use.
 - * Refer to the product maintenance manual for specific type to be used.
- 1 Safety Kit consists of the following:
 - * 5-lb ABC fire extinguisher with bracket.
 - * James King triangle reflector kit.
- 1 Paint line body one color up to 156".
 - *Note - Paint under carriage black.

Body to be painted yellow to match the chassis with the unit. Fiberglass sections to not be painted.
- 1 Paint TL, LTM & TPL aerial device one color.
- 1 Paint body floor with non-skid paint.

Qty. Description

- 1 Paint compartment top with non-skid paint.
- 1 Paint premium for yellow, orange or red color.

Entire unit is to be free from all grease oil rust dirt and scale then painted with one (1) coat of primer and two (2) coats of epoxy paint to match chassis cab. Steel sideboxes shall be painted Dupont yellow #5248A to match chassis. Fiberglass boom sections and platform shall have a smooth white finish. All aluminum to be left in its natural state

CHASSIS

- 1 Customer Supplied Chassis:
 - * Along with the purchase order the customer will be required to include a copy of the chassis specification intended for use and the contact information of the supplying chassis dealer. If the chassis specification does not meet minimum requirements for the application additional costs may be incurred to meet those requirements.
 - * Terex Utilities, Inc. requires a weight study analysis to insure chassis loading and stability.
 - * Chassis's delivered to the installation facilities that do not meet minimum specification requirements will be noted at time of delivery and a suggested resolution will be provided back to the customer.
 - * Reference Terex Customer Furnished Chassis Delivery Policy for additional instructions.

SPECIAL CHARGES

- 1 Delivery to Customer.

OPTIONS:

ADD

1. Federal Excise Tax will be added if certificate is not supplied with order.
2. The following items must be considered by the purchaser if not already included:
Back-up Alarm \$150.00; Strobe Light \$525.00; Wheel Chocks \$110.00;
Outrigger Pads \$200.00 to \$650.00 (based on pad size & type); Truck Grounding Cable \$550.00;
Barricade Kit \$895.00; Hydraulic Over Load Protection (derrick only, price will vary
based on final option selection); Boom / Boom Stow Interlock \$700.00; Engine Stop / Start
\$200.00 to \$795.00 (based on unit model); Auxiliary Let Down \$1500.00; and Platform
Liner \$380.00 to \$625.00 (based on platform size).
3. Terex Utilities, Inc. strongly recommends all installation accessories be located up front in
front in the quote or secondarily on the approved engineering drawing. Any accessories located
or relocated during manufacturing may be subject to additional charges.
4. Terex Utilities, Inc. - Assembly in Watertown, South Dakota is ISO 9001:2000 Certified.

DAKOTA BODIES

Ph. 605.882.1400
Fx: 605.882.0828
www.dakotabodies.com

201 20th Ave SE
P.O. Box 1655
Watertown, SD 57201

VIEW OUR NEW WEBSITE AT
WWW.DAKOTABODIES.COM

Quotation Number Q32156

To: Terex Utilities
QU09693

Date: 10/11/2017

Attn: Jason Elger

Inside Sales: Sam Mooney

Customer: City of Columbus-OH

Dakota Bodies, Inc. Stainless Steel Line body.
160 inches long x 46 inches high x 94 inches wide
Chassis cab to axle (CA) of 120 inches with dual rear wheel axle.

Body Dimensions:

46 Inches - Compartment height
18 Inches - Compartment depth
58 Inches - Load space width
24 Inches - Top of body to the top of the floor
23 Inches - Horizontal compartment height

Body Materials:

16 gauge Stainless Steel - Main body material
14 gauge Stainless Steel - Compartment tops
18 gauge Stainless Steel - Inner door panels
18 gauge Stainless Steel - Outer door panels
- 5/16" Stainless Steel continuous rod - Door Hinge Rod.
- Stainless Steel - Door Hinge Sockets.
14 gauge Stainless Steel - Wheel Panels
14 gauge Stainless Steel - Front bulkhead
18 gauge galvanized - Shelving & dividers.

Body Floor and Understructure:

- Cut out in bed area floor for customer supplied aerial/digger
- 10 gauge Stainless steel smooth floor.
- 4 Stainless steel formed channel frame.

Subframe Installation:

- Install customer supplied subframe, with outriggers attached, to body (include tie down kit if necessary).
Subframe is to be Bolted to Body (Test Fitted) Do Not Weld to Sub Frame
- Subframe and O/R's will be wet painted Black
- Grounding Bracket to be welded to Subframe at rear of truck and body
- Provide "Bolt In" style Filler Plate between Rear Jacks
- Round cutout in subframe

Stringer style body mounting includes the following:

- Dakota to provide lower and upper boom rest sections
- Lower Section to be welded to Front Jack Assembly
- Upper section to be test fit into lower section prior to shipment.
- Dakota to provide pins to Terex with body to secure upper section to lower section.
- Terex to match drill upper section holes.
- Welding on DB supplied Body Mounting Angles

Accessories:

- Stainless Steel automotive rotary type door latches
 - Stud mounted latches have hidden fasteners inside the door.
 - Adjustable striker brackets wrap around the weatherstrip.
 - Stud mounted automotive style latches have interior plastic latch covers.
- Gas cylinder type door holders on vertically hinged doors and chain stops on horizontal compartments.
- Standard rope light (3/8" L.E.D. 1" on center) compartment lights in all body compartments.
- Rubber rolled crown type fenders. (Installed with wheel cut-outs)
- Automotive bulb type weatherstripping
- 4" Diameter LED Light cutout in bed area

Paint:

- Finish Paint Yellow - Altec to supply paint code
- Rubberized protective undercoat

Streetside Compartmentation**1st Vertical:**

30" Wide x 46" High x 18" Deep

- Two (2) adjustable shelves each with divider slots on 2" centers installed on Uni-strut
each shelf will have Eight (8) adjustable dividers.

2nd Vertical:

24" Wide x 46" High x 18" Deep

- Two (2) adjustable shelves each with divider slots on 2" centers installed on Uni-strut
each shelf will have Six (6) adjustable dividers.

3rd Vertical:

24" Wide x 46" High x 18" Deep

- Two (2) adjustable shelves each with divider slots on 2" centers installed on Uni-strut
each shelf will have Six (6) adjustable dividers.

Horizontal Compartment:

58" Wide x 23" High x 18" Deep

- One (1) fixed divider tray with divider slots on 2" centers installed on compartment bottom
shelf will have adjustable dividers on 2" centers

Rear Vertical:

24" Wide x 46" High x 18" Deep

- Two (2) adjustable shelves each with divider slots on 2" centers installed on Uni-strut
each shelf will have Six (6) adjustable dividers.

Hotstick Shelf:

160 Inch long shelf installed on the streetside
with a rear dropdown access door.

- Stainless Steel automotive rotary type door latches
 - Stud mounted latches have hidden fasteners inside the door.
 - Striker installed in door frame for maximum opening.
 - Stud mounted automotive style latches have interior plastic latch covers.
- Automotive bulb type weatherstripping

Curbside Compartmentation**1st Vertical:**

30" Wide x 46" High x 18" Deep

- Transverse compartment with One (1) fixed shelf above drawer unit
- Two (2) transverse drawers mounted on 60 Inch 250Lbs capacity roller bearing slides.
 - Each drawer has twist style T-Handle activating latches on each side of drawer.
- 20" Wide x 4" High x 60" Deep
 - Each drawer to be wood lined
 - Adjustable dividers installed in each drawer on 6" centers.

2nd Vertical:

24" Wide x 46" High x 18" Deep

- Two (2) adjustable shelves each with divider slots on 2" centers installed on Uni-strut each shelf will have Six (6) adjustable dividers.

Curb Side Access 24" Wide

Gripstrut access steps to bed area with

12 gauge galvaneal risers and side kickplates.

Two (2) grabhandles at the side access of the body.

One (1) cable type access step under the side access steps. (Ship loose)

Horizontal Compartment:

58" Wide x 23" High x 18" Deep

- Open

Rear Vertical:

24" Wide x 46" High x 18" Deep

- Open

Tailboard:

- Removable composite tailboard 4" high with brackets at rear of cargo area
 - Includes pins and lanyards

Tailshelf:

- 12 Ga. Galvaneal treadplate tailshelf 36 inches long X 94 inches wide
- Full side and rear skirts to bottom of body - 12 gauge stainless steel
- 8" High retainer on sides and rear of tailshelf
 - There shall be a removable tailboard the width of the cargo area at rear
 - Altec Style capture brackets
 - Includes pins and lanyards
- Platform rest socket at rear of tailshelf

Tailshelf Rear Lighting:

- 7-Lamp light bar installed at rear of tailshelf

Wheel Chock Storage:

- Two (2) wheel chock holders installed on Curbside and Streetside

Outrigger Pad Holders:

- Four (4) double stacked underbody outrigger pad holders
 - 20" x 20" x 5" with bottom washout holes and 3/4" lip retainer

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3.3.14 Electrical wiring standards:

- 3.3.14.1 All electrical wiring shall be color coded and numbered full length runs, enclosed within wire loom, terminating in waterproof junction box inside cab and where needed to provide a complete sealed system. c
- 3.3.14.2 Provide wiring diagram for all factory and truck body component installations. c

3.3.15 Paint:

- 3.3.15.1 Complete chassis and body unit to be primed and painted, to paint manufacturers recommendations, with Dupont Imron Yellow 5248A lead free or equal. Frame painted black. c
- 3.3.15.2 Dupont Imron is referenced as a minimum quality standard for paint. 5248A is referenced as a mandatory color match. c
- 3.3.15.3 Care shall be taken during painting process to mask ID plates, part numbers, etc. to preserve their readability. c

3.3.16 Keys:

- 3.3.16.1 Three (3) sets of keys shall be provided.

3.3.17 AERIAL DEVICE REQUIREMENTS:

- 3.3.17.1 Articulating, stacked boom design SEE EXCEPTION PAGE
- 3.3.17.2 Pedestal base over rear axle with outriggers at front and rear of body and full length subframe c
- 3.3.17.3 Platform access from top of curbside body pack. SEE EXCEPTION PAGE
- 3.3.17.4 Non-lube bearings used at all pivot points, excluding rotation c
- 3.3.17.5 Working height, 60 ft. minimum SEE EXCEPTION PAGE
- 3.3.17.6 Ground to bottom of bucket, 55 ft. min. c
- 3.3.17.7 Horizontal reach 36 ft. minimum at 30 ft. elevation SEE EXCEPTION PAGE
- 3.3.17.8 Bucket capacity, 700 lbs. minimum SEE EXCEPTION PAGE
- 3.3.17.9 Booms must be rectangular in shape for strength and rigidity
- 3.3.17.10 Articulating booms arranged in a stacked configuration, non-overcenter design SEE EXCEP PAGE
- 3.3.17.11 Upper boom assembly shall provide full insulation with a fiberglass insulation gap to be 239 inches for ANSI category "C" voltages up to 46kv. SEE EXCEPTION PAGE
- 3.3.17.12 Lower boom fiberglass insulation gap 24" minimum c

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- 3.3.17.13 Upper boom articulation to 70 degrees above horizontal for a total of 175 degrees total- relative to the lower boom. SEE EXCEPTION PAGE
- 3.3.17.14 Lower boom articulation to be 105 degrees total --15 degrees past vertical. SEE EXCEPTION PAGE
- 3.3.17.15 Boom compensating system to maintain a constant upper boom angle when lower boom is being raised or lowered. c
- 3.3.17.16 360 degree continuous rotation utilizing a shear ball bearing turntable and gearbox / spur gear drive system c
- 3.3.17.17 Shall meet all O.S.H.A. and A.N.S.I. standards, category C, 46KV c
- 3.3.18 **Other Equipment (Platform):**
- 3.3.18.1 Single, two worker, 24" x 48" x 42", end hung only. c
- 3.3.18.2 Fiberglass construction, rectangular in shape, with two (2) molded inside /outside steps. SEE EXCEPTION PAGE
- 3.3.18.3 Fiberglass guard around controls c
- 3.3.18.4 Hydraulic platform dump system for clean out and rescue, operable from platform. c
- 3.3.18.5 Parallelogram platform leveling system inside lower and upper booms to utilize chain and insulated rods. Any cable in the leveling system is unacceptable. SEE EXCEPTION PAGE
- 3.3.18.6 Lip type vinyl platform cover c
- 3.3.19 **Outriggers:** c
- 3.3.19.1 Four (4) telescoping at front and rear of body, tied to integral subframe c
- 3.3.19.2 Individual control valve each side at rear under tailshelf c
- 3.3.19.3 Cylinders with individual check valves c
- 3.3.19.4 Outrigger / boom interlock system to prevent aerial device operation unless outriggers are extended c
- 3.3.19.5 Outrigger spread, 150" maximum SEE EXCEPTION PAGE
- 3.3.20 **Hydraulics:**
- 3.3.20.1 All cylinders shall be equipped with integral check valves or holding valves c
- 3.3.20.2 Single control at platform for rotation, upper boom elevation and lower boom with safety trigger SEE EXCEPTION PAGE
- 3.3.20.3 Emergency shut off valve and tool selector valve at platform c

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- 3.3.20.4 Controls at turret to override platform controls C
- 3.3.20.5 Fluid reservoir integral with pedestal, of adequate size for boom and tool circuit operation C
- 3.3.20.6 25 gallon reservoir equipped with sight gauge, shut-off valve, and filters SEE EXCEPTION PAGE
- 3.3.20.7 Chelsea Hotshift P.T.O. for Allison World automatic transmission C
- 3.3.20.8 Electronic overspeed control with dash indicator light for P.T.O. C
- 3.3.20.9 Flange mounted pressure compensated closed center hydraulic pump system for operation of all hydraulic requirements. SEE EXCEPTION PAGE
- 3.3.20.10 Install Bruning or equal quick couplers for platform tool circuit, 1/2" HTMA C
- 3.3.21 **Accessories:** SEE EXCEPTION PAGE
- 3.3.22.1 Boom storage support and cradle with ratchet type tie down strap
- 3.3.22.2 Flexible rubber platform support under bucket on bed-mounted support post with appropriate reinforcement.
- 3.3.22.3 Two (2) safety belt attachments
- 3.3.22.4 Radio controlled engine stop/start system with switches at platform and lower controls
- 3.3.22.5 Radio controlled two speed throttle system with switches at platform and lower controls
- 3.3.22.6 Radio controlled 12 volt DC emergency power system with switches at platform and lower controls
- 3.3.23 **Paint:**
- 3.3.23.1 Color to match cab manufacturer's yellow only (or equal), except on fiberglass boom sections. C
- 3.3.24 **UTILITY BODY REQUIREMENTS**
- 3.3.24.1 Special stainless steel lined utility body 160 inches long, 94 inches wide, with 18 inch deep side compartments, suitable for mounting on a medium duty dual rear wheel chassis with all standard features and accessories. 102 inch measurement from center line of radius cutout to front of body permits clearance, for vertical exhaust, hybrid cooler and outriggers. C
- 3.3.24.2 Steel treadplate cargo area floor and cargo wall liners with all steel understructure. C
- 3.3.24.3 Body understructure modification as required for aerial tower subframe. C

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- c 3.3.25 **Curbside Compartments (Front to Rear):**
- 3.3.25.1 First vertical -30 inch transverse compartment with two material drawers with adjustable dividers on 6 inch centers. Transverse drawers each include mounting on roller bearings in channel track. Transverse drawers to be wood lined and include latches to hold in closed position
 - 3.3.25.2 Second vertical 24 inch 2 adjustable selves with dividers
 - 3.3.25.3 Third vertical 24 inch access to cargo bed with grab assist handle and bottom grip strut step
 - 3.3.25.4 Fourth horizontal – 58"
 - 3.3.25.5 Fifth vertical – 24" compartment
- 3.3.26 **Street-side Compartments (front to rear):**
- 3.3.26.1 First vertical – 30" w/two (2) adjustable shelves with dividers
 - 3.3.26.2 Second vertical – 24" w/two (2) adjustable shelves with dividers
 - 3.3.26.3 Third vertical – 24" w/two (2) adjustable shelves with dividers
 - 3.3.26.4 Fourth horizontal – 58" single bottom shelf with adjustable dividers
 - 3.3.26.5 Fifth vertical – 24" w/two (2) adjustable shelves with dividers
 - 3.3.26.6 Full length hotstick shelf in top of sidebox with drop down rear access door
- 3.3.27 **Accessories:**
- 3.3.27.1 Tailshelf extension, 36" length, steel treadplate covering, 8" high retainer and removable tailboard the width of the cargo area. Tailshelf side skirting and rear riser to be stainless steel. c
 - 3.3.27.2 Gripstrut (ICC) bumper steps both sides with grab rail running from rear of body down to right rear of tailshelf c
 - 3.3.27.3 Mud flaps behind front and rear wheels with no logo c
 - 3.3.27.4 Pintle hook, Holland T-125A or equal (min. jaw opening of 2 inches), mounted to structural framework to meet hook manufacturer's full load rating, including two safety chain anchors of appropriate capacity, 24" mounting height c
 - 3.3.27.5 Supply two safety harnesses with lanyard c
 - 3.3.27.6 Two (2) wheel chock holders, one (1) on each side recessed in wheelhouse fender panel. Includes two (2) rubber wheel chocks c
 - 3.3.27.7 Four (4) Dica D1818 or equal, plastic composite outrigger pads with holders, One (1) each side under body, near each outrigger c

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- 3.3.27.8 Fender panels, tailshelf skirts, light bar, main body components, door hinges, wheel well liners, door latches and outer door panels to be constructed of stainless steel to prevent corrosion C
- 3.3.28 **Electrical/lights:**
- 3.3.28.1 Provide shock mounted lighting system to comply with F.M.V.S.S. # 108. All lights to be LED style. C
- 3.3.28.2 All wiring to be protected with conduit or split-loom flex conduit, secured at regular intervals C
- 3.3.28.3 All lighting connections to be terminated in a weatherproof junction box under rear of body C
- 3.3.28.4 Provide two shock mounted combination stop/tail/turn signals, LED, 4" diameter, recess mounted as high as possible (but parallel) in rear tailshelf riser panel C
- 3.3.28.5 Provide two shock mounted back up lights, 4" diameter, recess mounted as high as possible (but parallel) in rear tailshelf riser panel, to the inside of combination lights C
- 3.3.28.6 Provide 4" diameter LED work light in cargo area, shock mounted and recessed, with recessed switch wired through body marker light system, located as high as possible at curbside rear. C
- 3.3.28.7 Whelen DOT3 or equal light system, with one (1) Whelen L31HAF or equal strobe at streetside front of body, visible above cab, and two (2) Whelen 2GA00FAR or equal flush mount strobes, one (1) each side in rear tailshelf riser panel, toward the outside edge of the body. All strobes shall be activated by a single dash switch. C
- 3.3.28.8 Provide remote controlled GOLITE Stryker model 30004 LED wireless remote control spot light or equal with remote control C
- 3.3.28.9 Provide warning light on truck dash for boom out-of-rest C
- 3.3.28.10 Install two (2) 22" wide traffic arrows, one (1) each side on rear body panel, flush with outside edge of body. Weld 1/8" steel angle to inside face of compartment to protect arrow. Install control panel in the chassis cab C
- 3.3.28.11 All compartments to have individual LED rope lights wired to single switch on dash. C
- 3.3.28.12 If it becomes absolutely necessary to splice wire the following method shall be used: Strip both wire ends, twist around each other, solder, and cover with a heat shrink waterproof type covering. Tap in type splices and "scotch locks" are unacceptable. C

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3.3.29 Paint:

3.3.29.1 Entire unit is to be free from all grease, oil, rust, dirt, and scale; then painted with one (1) coat of primer and two (2) coats of epoxy paint to match chassis cab. Steel sideboxes shall be painted Dupont yellow #5248A to match chassis. Fiberglass boom sections and platform shall have a smooth white finish. All aluminum to be left in its natural state. C

3.3.29.2 The body cargo area and tailshelf floors shall be painted with a black abrasive, skid-resistant paint, "Manus Bond" or equal C

3.3.30 Mounting:

3.3.30.1 The aerial device supplier shall be responsible for mounting the body, P.T.O. assembly, hydraulic lines, and all electrical wiring to the body and truck cab chassis C

3.3.31 PLUG-IN HYBRID ELECTRIC SYSTEM REQUIREMENTS SEE EXCEPTION SHEET

3.3.31.1 Odyne Plug in Hybrid Electric System

3.3.31.2 Stored Energy System

Two 300 volt Lithium Ion Battery packs in parallel with 28kWh capacity.

3.3.31.3 Electric Motor

High Power compact liquid cooled permanent magnet motor and power take off providing up to 232 lb/ft of torque with launch assist while driving and regenerative braking. The temperature of the electric motor is maintained by a cooling loop that includes an electric motor, pump, fan and radiator to extend the life and performance of the electric motor.

The electric motor increases fuel efficiency while driving and provides power for all of the work site accessories for all electric stationary operation at the work site.

3.3.31.4 Recharging Capability SEE EXCEPTION SHEET

Plug in capability with level two 240 single-phase 30-amp service to fully recharge the stored energy system within an eight-hour period.

Engine recharging while in the field. The engine is automatically started when the stored energy system is depleted and recharged with the vehicles engine. Once the stored energy system is recharged the engine will automatically shut down and resume all electric stationary mode.

Regenerative braking recharges the stored energy system while braking the vehicle. As the vehicle slows the motor/generator slows the vehicle and recharges the stored energy system.

SAE J1772 compliant charge station for plug in recharging provided with contactor to only provide power to vehicle when all systems are fully functional. Vehicle will not start while plugged in to prevent operator from driving vehicle with charge cord attached.

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- 3.3.31.5 **Inverter Assembly**
Liquid cooled inverter assembly converting the 300V stored DC power to AC power to power permanent magnet motor.
- 3.3.31.6 **LCD Display**
Cab mounted LCD driver display screen providing the operator with valuable Plug-in Hybrid system data and troubleshooting codes.
- 3.3.31.7 **Override**
Hybrid override system to allow vehicle to operate as a standard vehicle for driving and stationary application if the PHEV system is not functional.
- 3.3.31.8 **Auxiliary Heating and Air Conditioning System**
Auxiliary Cab HVAC system for use during all electric mode while the engine is not running.
- 3.3.31.9 **Exportable Power**
Frame mounted inverter assembly providing 5kW of pure sine wave power. (FSM to provide and install required outlets)

Options (price separately):

- 3.4 One (1) LPK1240 Greenlee crimping press with 10ft. hose kit and couplers
- 3.5 48755 Fairmont impact wrench with 10 tool hose kit and couplers
- 3.6 Diagnostic code reading/clearing capability for cab and chassis, engine, and transmission. Include communication cables compatible with laptop nc6120 with DVD drive. Laptop compatible with all the above listed capabilities PROVIDED BY CHASSIS VENDOR
- 3.7 Minimum of sixteen (16) hours of mechanical training covering the repair and maintenance of both the bucket and hybrid operational unit. The training shall take place at the Bucket Truck manufacturer service school to include training, transportation, and lodging for two (2) City of Columbus Fleet Technicians. (See Attachment "A" for City of Columbus Travel Procedures and Guidelines). The successful bidder will be provide contact information to coordinate training.

4.0 SAMPLING, INSPECTION AND TEST PROCEDURES

- 4.1 **Demonstration:** The City reserves the right to require a demonstration of any equipment prior to award of the bid. Such demonstration shall be conducted, at the sole discretion of the City, either on roads in the City of Columbus, or in another municipal setting in Franklin County, Ohio where such equipment is in daily operation. All costs associated with such demonstration are to be the responsibility of the supplier. All demonstrations shall be concluded within five (5) working days after notification of demo request. Failure to comply may be used as a basis for rejection of the bid.
- 4.2 **Inspection:** All parts shall be thoroughly, physically inspected upon delivery by an authorized representative of the Division/Department of Public Utilities for verification of conformance to the specifications. Any damaged, defective, or substandard item shall be promptly removed by the supplier, and replaced at no cost to the City of Columbus. The supplier will be responsible for all shipping costs.

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5.0 ORDERING, DELIVERY and INVOICING

5.1 **Ordering Procedure:** A written purchase order will be established by the Director of Finance and Management. The Purchase Order will have the delivery information and invoice information.

5.2 **Delivery:**

5.2.1 The successful bidder(s) assume the responsibility for the equipment coordination including, but not limited to, transportation and insurance for complete unit(s) while in transport and until final acceptance by the City of Columbus.

5.2.2 All equipment must be delivered with all fluid levels at the manufacturer's recommended full capacity. All manufacturer's pre-delivery service and inspections should be completed prior to delivery to the City of Columbus. Written certification of the complete equipment's actual tare weight shall be included when the vehicle is delivered.

5.2.3 The City of Columbus shall be notified no less than 24 hours prior to actual delivery by notifying John King (or designee,) at the Fleet Management Division (614) 645-6104, twenty-four (24) hours in advance. Delivery shall be F.O.B. destination prepaid and allowed

5.3 **Invoicing:** Each invoice shall show the City Purchase Order number, a brief description identifying the item, the unit price, and the total amount. The invoice amount must exactly match the purchase order amount in accordance with the bid proposal. All Invoices should be mailed to the address on the Purchase Order to ensure proper payment

5.4 **Title:**

5.4.1 All documents required to obtain a State of Ohio Title (if applicable) must be delivered to John King at the Division of Fleet Management, 4211 Groves Road, Columbus, Ohio 43232. All forms must be properly completed. NO BLANK FORMS WILL BE ACCEPTED.

5.4.2 After signature by the Division of Fleet Management, an Ohio Certificate of Title (or certificate of origin) shall be delivered to the City of Columbus, Division of Fleet Management within three (3) days. Fleet Management will not authorize payment for any vehicle until they receive a valid State of Ohio Title.

5.4.3 All titles are to be made out to City of Columbus, 4211 Groves Rd, Columbus, Ohio 43232.

5.5 **Manuals**

5.5.1 The successful bidder shall supply web access to OEM diagnostic software including parts lists, service, maintenance, operation, and overhaul manuals for the chassis, engine, transmission, drive line, electrical, fuel, and emissions upon delivery of the equipment to the City of Columbus.

5.6 **Tax Credits, Grants, and Refunds:** Any and all grants, incentives, credits, rebates, discounts and/or refunds received by the manufacturer or dealer based on emissions reductions or the CNG fuel status (if applicable) of these vehicles will be identified and deducted from the cost of the vehicles provided to the City of Columbus, including, but not limited to, any tax credits that may be transferred from the City, as a tax exempt entity, to the Seller.

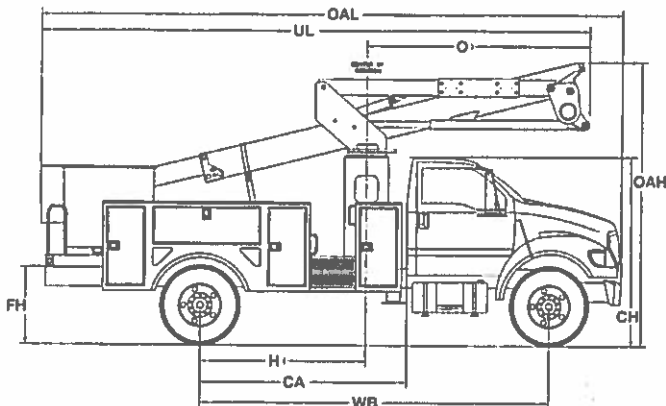


TEREX®

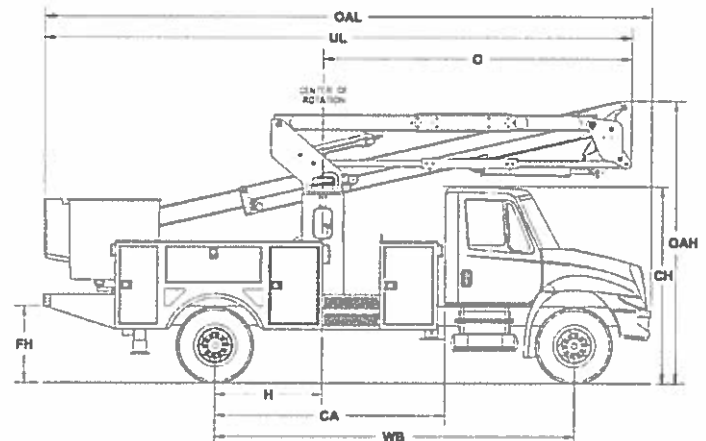
TL SERIES Hi-Ranger Telescopic Material Handling Aerial Device

AERIAL DEVICES

Terex® Hi-Ranger Aerial Devices are known throughout the industry. They come with a long history featuring quality and innovative design.



TL37 - TL50



TL55 - TL60

Measurements	TL37		TL41		TL45		TL50		TL55		TL60	
	TL37P	TL37M	TL41P	TL41M	TL45P	TL45M	TL50P	TL50M	TL55P	TL55M	TL60P	TL60M
Typical Frame Height (FH)	32 in. (81.3 cm)		32 in. (81.3 cm)		40 in. (101.6 cm)		40 in. (101.6 cm)		40 in. (101.6 cm)		40 in. (101.6 cm)	
Typical Cab Height (CH)	104 in. (264 cm)		104 in. (264 cm)		104 in. (264 cm)		104 in. (264 cm)		104 in. (264 cm)		104 in. (264 cm)	
Offset (O)	72.5 in. (184.2 cm)		84.5 in. (214.6 cm)		114.6 in. (291.1 cm)		114.6 in. (291.1 cm)		161 in. (408.9 cm)		200 in. (508 cm)	
Overall Height (OAH)	10' 7" (3.2 m)		10' 7" (3.2 m)		11' 3" (3.4 m)		11' 3" (3.4 m)		11' 3" (3.4 m)		11' 3" (3.4 m)	
Overall Length (OAL)	23' 5" (7.1 m)	23' 1" (7.0 m)	23' 8" (7.2 m)	23' 4" (7.1 m)	20' 5" (6.2 m)	20' 9" (6.3 m)	25' 4" (7.7 m)	24' 10" (7.6 m)	26' 5" (8.1 m)	25' 11" (7.8 m)	27' 3" (8.3 m)	26' 9" (8.2 m)
Unit Length (UL)	17' 9" (5.4 m)		19' 0" (5.8 m)		19' 0" (5.8 m)		23' 10" (7.3 m)		25' 6" (8.1 m)	25' 0" (7.6 m)	27' 3" (8.3 m)	26' 9" (8.2 m)
Center of Rotation (H)	62.5 in. (158.8 cm)		62.5 in. (158.8 cm)		62.5 in. (158.8 cm)		82.25 in. (208.9 cm)		56 in. (142.2 cm)			37 in. (94 cm)
Cab to Axle (CA)	84 in. (213.4 cm)		84 in. (213.4 cm) **See PD 3062		84 in. (213.4 cm)		102 in. (259.1 cm)		120 in. (304.8 cm)		120 in. (304.8 cm)	
Wheel Base (WB)	158 in. (401.3 cm)		158 in. (401.3 cm) **See PD 3062		158 in. (401.3 cm)		176 in. (447.0 cm)		187 in. (475 cm)		187 in. (475 cm)	
Front Axle (GAWR)	6,500 lb. (2,948 kg)	6,500 lb. (2,948 kg)	7,000 lb. (3,175 kg)	8,000 lb. (3,629 kg)	10,000 lb. (4,536 kg)	10,000 lb. (4,536 kg)	10,000 lb. (4,536 kg)	12,000 lb. (5,443 kg)	14,000 lb. (6,350 kg)		14,000 lb. (6,350 kg)	
Rear Axle (GAWR)	13,500 lb. (6,124 kg)	13,500 lb. (6,124 kg)	13,500 lb. (6,124 kg)	13,000 lb. (5,897 kg)	15,500 lb. (7,081 kg)	17,000 lb. (7,711 kg)	15,500 lb. (7,081 kg)	17,000 lb. (7,711 kg)	19,000 lb. (8,613 kg)		19,000 lb. (8,613 kg)	
Gross Vehicle Weight Rating (GVWR)	17,500 lb. (7,938 kg)	19,500 lb. (8,845 kg)	19,500 lb. (8,845 kg)	21,000 lb. (9,525 kg)	25,500 lb. (11,567 kg)	25,500 lb. (11,567 kg)	25,500 lb. (11,567 kg)	29,000 lb. (13,154 kg)	33,000 lb. (14,969 kg)		33,000 lb. (14,969 kg)	
Recommended Weight For Stability	15,000 lb. (7,081 kg)		16,250 lb. (7,371 kg)		20,000 lb. (9,072 kg)		21,000 lb. (9,525.4 kg)		21,500 lb. (9,752 kg)		23,000 lb. (10,433 kg)	
Frame Section Modulus	10.5 in ³		10.5 in ³		15.9 in ³ / 17.2 in ³		15.9 in ³ / 17.2 in ³		15.9 in ³ / 17.2 in ³		15.9 in ³ / 17.2 in ³	
Frame Yield Strength	36,000 psi		36,000 psi		110,000 psi / 50,000 psi		110,000 psi / 50,000 psi		110,000 psi / 50,000 psi		110,000 psi / 50,000 psi	
Frame RBM	378,000 in-lbs		378,000 in-lbs		900,000 in-lbs		900,000 in-lbs		900,000 in-lbs		900,000 in-lbs	



TEREX®

500 Oakwood Drive
PO BOX 1150
Watertown, SD 57201-6150
USA

Phone: (605) 882-4000
Facsimile: (605) 882-1842
www.terexutilities.com
E-mail: utilities.info@terex.com

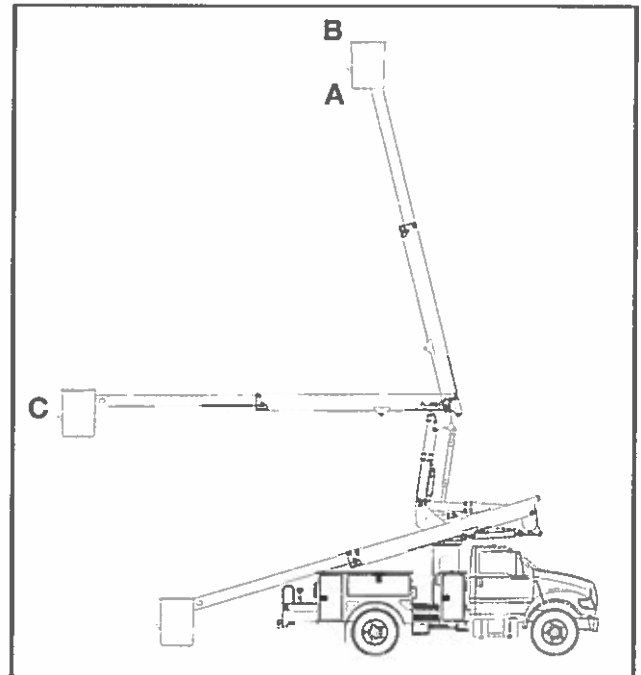
Distributed By:

TL SERIES

Hi-Ranger Telescopic Material Handling Aerial Device

STANDARD EQUIPMENT

- Side Mount 24 x 48 x 42" Two-Person Platform
- Platform Capacity of up to 600 lbs. (272.2 kg)
- Control-Plus "3-D" Single Stick Control At Platform
- Safety Harness with Attached Lanyard
- Continuous Unrestricted Worm Gear Rotation
- Category "C" Rating Per ANSI A92.2
- Rectangular, Bi-Axial Epoxy Resin, Filament Wound Fiberglass Booms
- Individual Lever Lower Controls
- Hydraulic Platform Leveling System
- Steel Main Boom
- Fiberglass Second Section Boom
- Fiberglass Lift Boom Insert
- Full Pressure, Open Center Hydraulic System
- 20 Gallon Hydraulic Oil Reservoir
- Padded Lower Boom Rest
- Boom Interlock
- Moving Outrigger Alarm
- Truck Level Indicator



CAPACITIES & DIMENSIONAL DATA

	TL37	TL41	TL45	TL50	TL55	TL60
Bottom of Platform Height (A)	38.0 ft. (11.6 m)	42.0 ft. (12.8 m)	44.8 ft. (13.6 m)	49.5 ft. (15.1 m)	55.1 ft. (16.8 m)	60.1 ft. (18.3 m)
Working Height (B)	43.0 ft. (13.1 m)	47.0 ft. (14.3 m)	49.8 ft. (15.2 m)	54.5 ft. (16.6 m)	60.1 ft. (18.3 m)	65.1 ft. (19.8 m)
Horizontal Reach at 87°(C)	28.6 ft. (8.7 m)	31.1 ft. (9.5 m)	31.1 ft. (9.5 m)	36.0 ft. (11.0 m)	N/A	N/A
Horizontal Reach at 82°	28.3 ft. (8.6 m)	30.8 ft. (9.4 m)	30.4 ft. (9.3 m)	35.1 ft. (10.7 m)	N/A	N/A
Horizontal Reach at 93°	29.6 ft. (9.0 m)	32.2 ft. (9.8 m)	32.3 ft. (9.9 m)	37.0 ft. (11.2 m)	38.3 ft. (11.7 m)	40.1 ft. (12.2 m)
Lower Boom Articulation	0 to 87°	0 to 87°	0 to 87°	0 to 87°	0 to 93°	0 to 93°
Upper Boom Travel	-40 to 76°	-40 to 76°	-40 to 76°	-40 to 76°	-35 to 85°	-35 to 85°
Upper Boom Extension	100 in. (254 cm)	116 in. (295 cm)	116 in. (295 cm)	145 in. (368.3 cm)	140 in. (355.6 cm)	140 in. (355.6 cm)
Platform Capacity	400 lbs. (182.5 kg)	400 lbs. (182.5 kg)	400 lbs. (182.5 kg)	600 lbs. (272.2 kg)	600 lbs. (272.2 kg)	600 lbs. (272.2 kg)

The above TL37-TL50 data is based on a 40" frame height and 58" pedestal.

OPTIONAL EQUIPMENT

- Various Side and End Mount Platforms
- Various Platform Covers
- Liners With or Without Steps
- Hydraulic Platform Rotator (180° End Mt., 90° Side Mt.)
- 24" Platform Lifter (Side Mt. Only)
- Jib Options
 - Various Jib Extension Systems
 - Hydraulic Articulating Jib/Winch, Side Mt 1500 lbs
 - Manual or Hyd Extension /Articulation 1000 lbs
- Single Wire / 46 Kv Insulated Single Line Lifter/Multi-Phase Attachments
- Optional 82° or 93° of Lower Boom Articulation TL37 - TL50
- Automatic Boom Latch
- Lower Boom Lifting Eye
- Hydraulic Lifts: 10 ft. Transverse or In-line
- Hydraulic Tool Outlets
- Engine Start/Stop
- Auxiliary Power
- Auxiliary Let Down System
- Boom Overstow Protection
- Boom/Boom Stow Interlock
- Boom Storage Warning Light
- Outrigger Sag Light
- Various Types of Outriggers
- Truck Grounding Cable & Clamp
- Hybrid Enable
- HyPower™ Hybrid System by Terex®

Effective Date: March, 2010. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex® is a registered trademark of Terex Corporation in the USA and many other countries. Copyright 2010 Terex Corporation.

- 3.3.4.1 13,220# front GAWR required
- 3.3.8.2 11R22.5 Load Range H for increased axle rating requested
- 3.3.17.1 Articulated, telescopic side-by-side boom provided
- 3.3.17.3 Platform access from cargo floor
- 3.3.17.7 22.6' elevation at maximum horizontal reach
- 3.3.17.8 600 pound platform capacity provided
- 3.3.17.10 Articulated, telescopic side-by-side boom provided
 - Upper boom provides 38.3" insulation when retracted and 82.1" of
 - 3.3.17.11 insulation when extended
- 3.3.17.13 -35° to 85° upper boom articulation provided
- 3.3.17.14 0° to 93° lower boom articulation provided
- 3.3.18.2 Single inside/outside step provided
- 3.3.18.5 Platform leveling accomplished by master/slave hydraulic cylinders
- 3.3.19.5 157.3" maximum outrigger spread provided
- 3.3.20.2 Platform controller include upper boom extension and retraction
- 3.3.20.6 20 gallon tank provided
- 3.3.20.7 Muncie PTO provided
- 3.3.20.9 Open center, non compensated hydraulic system provided
- 3.3.22.1 Cam style upper boom hold down provided
- 3.3.22.4 Captive air system
- 3.3.22.5 Captive air system
- 3.3.22.6 Captive air system
- 3.3.24.1 Body provided will have a 108" rear axle to front of body dimension
- 3.3.31 Hybrid system provided will be Terex HyPower IM:
 - E-PTO Plug-In Efficiency System
 - Plugs into 120V standard outlet for battery charging
 - Charges from a 12V truck system alternator
 - 48v Lithium ion battery system
 - 2.5 KWH with cab comfort (A/C only)
 - Includes in-cab display to monitor battery voltage, idle, and run-time.
 - Tail shelf mount

Ohio

**Bureau of Workers'
Compensation**

30 W. Spring St.
Columbus, OH 43215

Certificate of Ohio Workers' Compensation

This certifies that the employer listed below participates in the Ohio State Insurance Fund as required by law. Therefore, the employer is entitled to the rights and benefits of the fund for the period specified. This certificate is only valid if premiums and assessments, including installments, are paid by the applicable due date. To verify coverage, visit www.bwc.ohio.gov, or call 1-800-644-6292.

This certificate must be conspicuously posted.

Policy number and employer
454111-0

Period specified below
**07/01/2017 through
06/30/2018**

**FYDA FREIGHTLINER INC
1250 WALCUTT RD
COLUMBUS, OH 43228-9349**



www.bwc.ohio.gov
Issued by:


Administrator/CEO

You can reproduce this certificate as needed.



Ohio Bureau of Workers' Compensation

Required Posting

Effective Oct. 13, 2004, Section 4123.54 of the Ohio Revised Code requires notice of rebuttable presumption. Rebuttable presumption means an employee may dispute or prove untrue the presumption (or belief) that alcohol or a controlled substance not prescribed by the employee's physician is the proximate cause (main reason) of the work-related injury.

The burden of proof is on the employee to prove the presence of alcohol or a controlled substance was not the proximate cause of the work-related injury. An employee who tests positive or refuses to submit to chemical testing may be disqualified for compensation and benefits under the Workers' Compensation Act.

Ohio

**Bureau of Workers'
Compensation**

You must post this language with the Certificate of Ohio Workers' Compensation



CERTIFICATE OF GARAGE INSURANCE

DATE (MM/DD/YYYY)
02/16/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER John Immen	CONTACT NAME: Sentry Customer Service
	PHONE (A/C, No, Ext): 800-447-0633 FAX (A/C, No): 888-533-7827
	EMAIL ADDRESS: businessproducts_ssdco@sentry.com
INSURER(S) AFFORDING COVERAGE	
INSURER A: Sentry Select Insurance Company	NAIC # 21180
INSURED Fyda Inc 1250 Walcutt Rd Columbus, OH 43228-9349	INSURER B:
	INSURER C:
	INSURER D:
	INSURER E:
	INSURER F:

COVERAGES PROD / CUSTOMER ID: CERTIFICATE #: 374340 REVISION #:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADOL INSRD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GARAGE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS USED IN GARAGE BUSINESS	X		2478225012	03/01/2017	03/01/2018	AUTO ONLY (Ea accident) \$ 500,000 OTHER THAN AUTO ONLY EA ACCIDENT \$ 500,000 AGGREGATE \$ 2,500,000
A	<input type="checkbox"/> GARAGE KEEPERS LIABILITY <input checked="" type="checkbox"/> LEGAL LIABILITY <input type="checkbox"/> DIRECT BASIS <input checked="" type="checkbox"/> PRIMARY <input type="checkbox"/> EXCESS	X		2478225012	03/01/2017	03/01/2018	<input checked="" type="checkbox"/> COMP / OTC SPECIFIED PERILS LOC 1 \$ 1,500,000 <input checked="" type="checkbox"/> COLLISION LOC 1 \$ 1,500,000 <input type="checkbox"/> LOC \$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			2478225013	03/01/2017	03/01/2018	EACH OCCURRENCE \$ 20,000,000 AGGREGATE \$ 60,000,000 PRODUCTS - COMP/OP AGG \$ 60,000,000
	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY <input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N (Mandatory in NH) If yes, describe under REMARKS below	N/A					<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

REMARKS (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Refer to attached

CERTIFICATE HOLDER

CANCELLATION

City of Columbus
Department of Finance and Management
90 W Broad St
Columbus, OH 43215-9000

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ACORD 30 (2016/03)
2478225
Sentry Select Insurance Company
1 00001 0000001986 17048 0 N



AGENCY CUSTOMER ID: X00008797

LOC #: _____

ADDITIONAL REMARKS SCHEDULEPage 2 of 2

AGENCY John Imen		NAMED INSURED Fyda Inc	
POLICY NUMBER 2478225012			
CARRIER Sentry Select Insurance Company	NAIC CODE 21180	EFFECTIVE DATE: 03/01/2017	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 30 FORM TITLE: Certificate Of Garage Insurance

Auto Dealers

Work repair contract

Garagekeepers Liability

Location #	State	Basis	Collision Limit	Comp/OTC/Specified Perils Limit
2	PA	Direct Coverage (Primary)	\$ 1,000,000	\$ 1,000,000
3	PA	Direct Coverage (Primary)	\$ 375,000	\$ 375,000
4	OH	Direct Coverage (Primary)	\$ 750,000	\$ 750,000
6	OH	Direct Coverage (Primary)	\$ 775,000	\$ 775,000
11	OH	Direct Coverage (Primary)	\$ 60,000	\$ 60,000
12	OH	Direct Coverage (Primary)	\$ 400,000	\$ 400,000

UTILITY TRUCK EQUIPMENT



UTILITY TRUCK EQUIPMENT, INC.
 23893 U.S. 23 SOUTH
 P.O. BOX 130
 CIRCLEVILLE OH 43113

SALES / SERVICE / RENTALS

Telephone 740-474-5151

Fax 740-474-4402

CITY OF COLUMBUS
 RFQ006761
 DEALER BUILD SHEET

1	INTERNATIONAL 4300 CHASSIS PER RUSH PROPOSAL #16133-01
1	GLAD HANDS, AIR LINES, AND ACCESSORIES TO REAR
1	VN-55I PER ATTACHED SPEC
1	FREIGHT ON AERIAL TOWER
1	MISC. TOWER, BUCKET SUPPORT AND BOOM REST MTG
30	GALLONS AVIATION HYDRAULIC OIL
1	ELECTRIC SHIFT PTO, ALLISON AUTOMATIC, FURN BY ODYNE
1	SPECIAL PRESSURE COMP HYDRAULIC PUMP (W/ ODYNE SYS)
1	HYDRAULIC HOSE AND FITTING KIT, SHUT-OFF VALVES
1	SET OF HTMA QUICK DISCONNECTS
2	SAFETY HARNESS AND LANYARD
1	MISC. WIRE, LOOM, DASH SWITCHES, ETC., TOWER SYSTEMS
1	BOOM OUT OF STOW INDICATOR LIGHT SYSTEM
1	DAKOTA 160" NORTHLANDER LINE BODY PER SPEC
1	FREIGHT ON BODY
1	BODY MOUNTING HARDWARE
1	451 5 GALLON WATER CASK AND PAPER CUP DISPENSER
1	UTE ICC REAR GRIPSTRUT BUMPER PER SPEC
1	AUXILIARY STEPS FOR PLATFORM ACCESS
4	DICA D1818 OUTRIGGER PADS AND HOLDERS
2	WC1085 RUBBER WHEEL CHOCK
1	BP100A PINTLE HOOK, MOUNTING, FRAME REINFORCEMENTS
2	PAIR UTE MUD FLAPS AND MOUNTING BRACKETS
1	MISCELLANEOUS BODY LIGHT WIRING
1	WHELEN LIGHTING SYSTEM PER CITY OF COLS SPEC
1	GOLIGHT 30004 LED REMOTE CONTROL SPOTLIGHT AND WIRING
1	ARROW BOARD AND WIRING PER SPEC
1	7 PRONG TRAILER RECEPTACLE AND WIRING
1	TOUCH UP AND FINISH PAINT, NON-SKID
1	BLACK NON-SKID
1	FUEL AND DELIVERY
	LABOR TO BUILD UNIT
1	ODYNE UNIT COMPLETE PER SPECIFICATION
1	MISCELLANEOUS TRUCK TRAVEL, FUEL, ODYNE INSTALLATION



OWNER'S WARRANTY

The **Versalift** Aerial Platform Lift is engineered and designed to perform as stated on published specifications. Only quality material and workmanship are used in the manufacture of this product. With proper installation, regular maintenance, and periodic repair service, the equipment will provide excellent service.

Those parts of the **Versalift** that are manufactured by **Time Manufacturing Company** are warranted for one full year from date of purchase. Structural components will carry a lifetime warranty for defects in material and workmanship which existed at the time of initial delivery, wear components are not covered by this statement. This warranty is issued only to the original purchaser and promises that **Time Manufacturing Company** manufactured products are free from defects in material and factory workmanship when properly installed, serviced, and operated under normal conditions, according to the manufacturer's instructions.

Manufacturer's obligation under this warranty is limited to correcting without charge at its factory any part or parts thereof which shall be returned to its factory or one of its Authorized Service Stations, transportation charges prepaid, within one year after being put into service by the original user, and which upon examination shall disclose to the Manufacturer's satisfaction to have been originally defective. Correction of such defects by repair to, or supplying of replacements for defective parts, shall constitute fulfillment of all obligations to original user.

This warranty shall not apply to any of the Manufacturer's products which must be replaced because of normal wear, which have been subject to misuses, negligence or accident, or which shall have been repaired or altered outside of the Manufacturer's factory (unless authorized by the Manufacturer in writing), products which have not been maintained and operated in accordance with Time Manufacturing Company's operators, maintenance manuals and bulletins, products which are repaired without using original Time Manufacturing Company parts. This limited warranty does not cover transportation fees and/or consumables used for the repair.

Manufacturer shall not be liable for loss, damage, or expense directly or indirectly from the use of its product or from any cause.

The above warranty supersedes and is in lieu of all other warranties, expressed or implied, and of all other liabilities or obligations on part of Manufacturer. No person, agent, or dealer is authorized to give any warranties on behalf of the Manufacturer or to assume for the Manufacturer any other liability in connection with any of its products unless made in writing and signed by an officer of the Manufacturer.





VN-50/55/60-I

Non-Overcenter Aerial Lift



DEMAND BETTER

239" Upper Boom
Insulation Gap (VN-55-I)

24" Lower Boom Insert

Two-Man Platform with
700 lb. Capacity (VN-55-I)



- Working Height: Up to 60' 5"
- Horizontal Reach: Up to 36' 2"



For more information about the VN-50/55/60 or any of the other outstanding VERSALIFT machines, contact your authorized VERSALIFT Distributor or call 1.800.825.1085.



VN-50/55/60-I

Non-Overcenter Aerial Lift

GENERAL SPECIFICATIONS

(Based on 40 in. (1.02 m) Frame Height)

VN-55

Horizontal Reach	36 ft. 2 in. (11 m)
2-Man Platform Capacity	700 lbs. (318 kg)
Lower Boom Lift Eye Capacity	1100 lbs. (500 kg)
Upper Boom Articulation	175° articulation relative to lower boom
Lower Boom Articulation	105° total articulation horizontal to 15° past vertical
Platform Rotation	180°

WITH STANDARD PEDESTAL

Height to Bottom of Platform	55 ft. 5 in. (16.8 m)
Working Height	60 ft. 5 in. (18.3 m)
Stowed Travel Height	10 ft. 11 in. (3.2 m)
Weight of Lift With Outriggers	6370 lbs. (2890 kg)

HYDRAULIC SYSTEM

Operating Pressure	2250 psi (158 kg/cm ²)
Flow Rate	8 gpm (30.2 lpm)
Filtration Return	10 Micron Return
Filtration Suction	100 Mesh Suction
System Type	Closed and Open Center
Power Source	PTO Pump

Models VN-50-I and VN-60-I also available. Please contact your distributor for specifications and information.

INSULATION

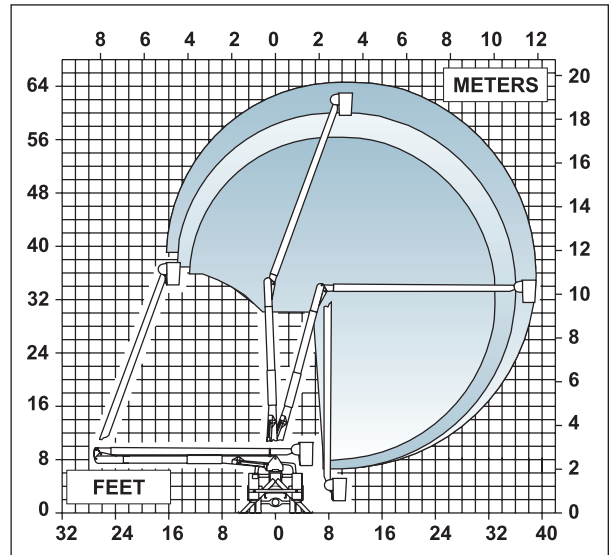
Upper Boom Insulation Gap (With or Without Test Bands)	239 in. (6.1 m)
Lower Boom Insulation Gap	24 in. (0.6 m)

NOTE:

- Specifications may vary without prior notification.
- Required GVWR can vary significantly with chassis, lift mounting location, service body, accessories, and desired payload.



- Hydraulic Tilt Platform
- One-Man End-Mount Platform
- Platform Liner
- Platform Cover
- Lower Boom Lifting Eye Attachment
- Two-Speed Manual Throttle Control
- Emergency Power
- Category B Dielectric Testing & Certification
- Outrigger Boom Interlock System
- Auxiliary Outriggers
- Dual Hydraulic Tool Outlets
- Flow-Sensing Throttle
- Line-Lifting Socket
- Unitrol H.R.




TIME
 MANUFACTURING COMPANY
 P.O. Box 20368
 Waco, TX 76702-0368
 254.399.2100
 Fax: 254.399.2651
 1.800.825.1085
 www.timemfg.com



ODYNE SYSTEMS, LLC
LIMITED HYBRID DRIVE SYSTEM WARRANTY

1. **LIMITED PRODUCT WARRANTY.** Subject to all of the terms, conditions and limitations set forth in this certificate (collectively, the "Warranty"), Odyne Systems, LLC ("Odyne") warrants to the first end user ("Buyer") of any new vehicle that incorporates an Odyne Hybrid Drive System ("System") as follows:

a. **Hybrid Drive System Warranty:** That the System shall be free from defects in material and workmanship, under normal use and service, for a period of 12 months from the date of delivery to Buyer but in no event longer than 18 months from the date of shipment from the Odyne factory; and

b. **Extended Battery and Electric Motor Warranty:** That the Battery and the Electric Motor, which are components parts of the System, shall be free from defects in material and workmanship, under normal use and service, for a period commencing as of the expiration of the Hybrid Drive System Warranty set forth in Section 1(a) above and ending 36 months from the date of delivery to Buyer. As used in this Warranty, "Battery" means hybrid batteries including hybrid battery case that provide energy to the Electric Motor, but excluding harnesses, cooling system, brackets and "Electric Motor" means electric motor/generator and motor/generator housing, but excluding any attachments to motor/generator, motor/generator housing, shafts, harnesses, cooling system, brackets, power and control electronics.

2. **EXCLUSIONS / WHAT IS NOT COVERED:** The following items are **NOT** covered under this Warranty:

a. Damage resulting from or caused by carrier handling. Such damage is a transportation claim and should be filed immediately with the respective carrier;

b. Damage resulting from or caused by normal wear and tear, weathering, lack of use, demonstration use, use for transportation of corrosive chemicals, or use with incompatible equipment or software;

c. Damage resulting from or caused by improper maintenance, improper handling or storage, improper use, abuse, neglect, operation beyond rated capacity, or operation after discovery of defective or worn parts;

d. Continued operation of the System after a defect or other damage has occurred;

e. The repair or servicing of the System by anyone other than an Odyne-certified technician or service provider;

f. Any System or component thereof that has been altered or modified in any way not approved by Odyne in writing;

g. Any release of new or updated software or controllers comprising a part of the System;

h. Damage to any equipment or parts not manufactured by Odyne;

i. Damage to or failure of the Battery resulting from or caused by (i) by the negligent, unlawful or improper use, handling, storage, transportation, charging, installation or replacement of the Battery or relocation of the Battery on the vehicle; (ii) leaving a vehicle for over 60 days where the Battery reaches a zero or near zero state of charge; (iii) intentionally attempting to reduce the life of the Battery; (iv) exposing the Battery to any direct flame or heat source; (v) immersing any part of the Battery in water or other fluids; (vi) attempting to open or disassemble the Battery enclosure; (vii) failing to follow proper charging procedures; (viii) using an incompatible charging device with the Battery; or (viii) disconnecting, modifying or implementing workarounds to Battery connections; or

j. Acts of God, accidents or any other causes beyond Odyne's reasonable control.

3. **GRADUAL CAPACITY LOSS:** The Battery, being a Lithium-ion battery, will experience gradual loss of capacity with time and use. Such loss of battery capacity is NOT covered under this Warranty. Buyer should consult the System's operating manual for important recommendations on how to maximize the life and capacity of the Battery.

4. **MAKING A WARRANTY CLAIM:** As a prerequisite to making any claim under this Warranty, Buyer must give Odyne written notice of any suspected defect within (30) days of its discovery. Such notice shall specifically identify the suspected defect, the original delivery date and complete Buyer identification and location information. Further, Buyer's written notice shall establish that: (a) the System has been maintained and operated in accordance with those guidelines and instructions published by Odyne for the normal use and operation of the System; and (b) that the defect did not result in any manner from the negligent, reckless or intentional action or inaction of Buyer or any of the items listed in Sections 2 or 3 above. Odyne will not accept any System for Warranty service without receiving Buyer's written notice and issuing a return goods authorization. If requested by Odyne, Buyer shall return the defective System, or component thereof, to Odyne, F.O.B, Odyne's designated location. All

returned Systems or parts, components or assemblies thereof that are replaced under this Warranty shall become the property of Odyne. Odyne reserves the right to inspect the installation of the System and to review Buyer's maintenance and operation procedures to determine if the alleged defect(s) were due to any of the items listed in Sections 2 and 3 above. Odyne shall not be liable for any Warranty claim if Buyer fails to satisfy the conditions set forth in this Section.

5. EXCLUSIVE REMEDIES: THE REMEDIES IN THIS SECTION 5 SHALL BE BUYER'S EXCLUSIVE REMEDY FOR DEFECTS WITH RESPECT TO THE SYSTEM:

a. Hybrid Drive System. Odyne's sole obligation and Buyer's exclusive remedy with respect to any defect in the System occurring during the Warranty period set forth in Section 1(a) above (including any defect with respect to the Battery or Electric Motor comprising part of the System) shall be for Odyne, at its option, to repair or replace the System or any part, component or assembly thereof that contains a defect in materials or workmanship. Odyne reserves the right, at its discretion, to use new, remanufactured or refurbished replacement parts. Notwithstanding anything in this Warranty to the contrary, Odyne shall not be obligated to replace the entire System if a covered defect can be remedied by the repair or replacement of a defective part, component or assembly. Odyne shall be responsible for the cost of all parts and reasonable labor charges necessary to remedy such defect. Except as set forth in Section 5(b) below, Odyne shall be responsible for the cost of all parts and reasonable labor charges necessary to remedy a covered defect with the Hybrid Drive System.

b. Battery and Electric Motor. Odyne's sole obligation and Buyer's exclusive remedy with respect to any defect in the Battery or Electric Motor occurring after expiration of the Warranty period set forth in Section 1(a) above but before 36 months from the date of delivery to Buyer, shall be for Odyne, at its option, to repair or replace the Battery and/or Electric Motor that contains a defect in material or workmanship. Odyne reserves the right, at its discretion, to use new, remanufactured or refurbished replacement parts. Notwithstanding anything in this Warranty to the contrary, Odyne shall not be obligated to replace the entire System if a covered defect can be remedied by the repair or replacement of a defective part, component or assembly. Odyne shall be responsible for the cost of all parts necessary to remedy such defect. Buyer shall be responsible for all labor charges relating to such repair or replacement, including, without limitation, all installation and other labor charges of any Odyne-authorized distributor or service provider that performed the Warranty service.

6. DISCLAIMER OF OTHER EXPRESS AND IMPLIED WARRANTIES: EXCEPT FOR THE LIMITED WARRANTIES SET FORTH IN SECTION 1 ABOVE, ODYNE MAKES NO OTHER WARRANTIES AND HEREBY DISCLAIMS ALL EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES REGARDING THE SYSTEM, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, NON-INFRINGEMENT OF PROPRIETARY OR THIRD-PARTY RIGHTS OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

7. LIMITATION OF LIABILITY: NOTWITHSTANDING ANYTHING IN THIS WARRANTY TO THE CONTRARY, IN NO EVENT SHALL ODYNE OR ANY OF ITS PARENT COMPANY, AFFILIATES OR SUBSIDIARIES BE LIABLE TO BUYER FOR ANY INDIRECT, SPECIAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS, LOST REVENUE, DOWN TIME, LOSS OF BUSINESS OPPORTUNITY OR OTHER ECONOMIC LOSSES), WHETHER IN AN ACTION IN CONTRACT OR TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, EVEN IF ODYNE HAS BEEN SPECIFICALLY ADVISED OF THE POSSIBILITIES OF SUCH DAMAGES.

8. NO TRANSFERABILITY OF WARRANTY: As used in this Warranty, the term "first end user" means that person or entity that purchases and commences first commercial use of a new vehicle that incorporates the System. This Warranty is strictly limited to Buyer and is not assignable or otherwise transferable without the express written consent of Odyne. Please contact your local distributor for more details regarding assignment of this Warranty.

9. MISCELLANEOUS: No employee or representative is authorized to modify any term, condition or limitation in this Warranty unless such modification is made in writing and signed by an authorized officer of Odyne. Odyne's obligations under this Warranty shall not include duty, taxes, environmental fees, including without limitation, disposal or handling of batteries, petrochemical items, or any other charges whatsoever.

Date last revised: 8/22/12



Odyne Plug-in Hybrid Electric Vehicle (PHEV) Specifications

Stored Energy System

300V lithium ion battery pack with 28.4kWh capacity.

Electric Motor

High-power, compact liquid-cooled, permanent magnet motor providing up to 232 lb/ft of torque with launch assist while driving and regenerative braking. The temperature of the electric motor is maintained by a cooling loop that includes an electric motor, pump, fan and radiator to extend the life and performance of the electric motor.

The electric motor increases fuel efficiency while driving and provides power for all of the work site accessories for all electric stationary operation at the work site.

Recharging Capability

Plug-in capability with level two 240V single-phase 30-amp service to fully recharge the stored energy system within an eight-hour period.

Engine-powered recharging while in the field. The engine is automatically started when the stored energy system is depleted and recharged with the vehicle's engine. Once the stored energy system is recharged, the engine will automatically shut down and the system will resume all electric stationary mode.

Regenerative braking recharges the stored energy system while braking the vehicle. As the vehicle slows, the motor/generator slows the vehicle and recharges the stored energy system.

SAE J1772 compliant charge station for plug-in recharging provided with contactor to only provide power to vehicle when all systems are fully functional. Vehicle will not start while plugged in to prevent operator from driving vehicle with charge cord attached.

Inverter Assembly

Liquid-cooled inverter assembly converting the 300V stored DC power to AC power to power permanent magnet motor.

LCD Display

Cab-mounted LCD driver display screen providing the operator with valuable plug-in hybrid system data and troubleshooting codes.

Override

Hybrid override system to allow vehicle to operate as a standard vehicle for driving and stationary application if the PHEV system is not functional.

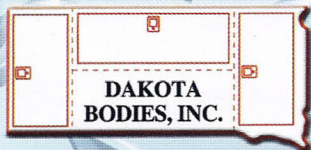
Auxiliary Heating and Air Conditioning System

Auxiliary cab HVAC system for use during all-electric mode while the engine is not running.

Exportable Power

Frame-mounted inverter assembly providing 6kW of pure sine wave power. (Final Stage Manufacturer to provide and install required outlets)

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Dakota Bodies, Inc.

"NORTHLANDER PACKAGE"

featuring a
10 Year Rust Through Warranty



The rust fighting "**Northlander Package**" is an optional package designed specifically for users who operate in areas where rust is a problem. Incorporating stainless steel in the areas that are most vulnerable, its rust fighting qualities are retained even after traditional primers, e and powder coatings are chipped or scratched. Equipped with Dakota Bodies standard galvanneal treadplate compartment tops and structural steel frames, this innovative design is backed by a **10-year rust through warranty**.

The Northlander Package is competitively priced and is available in any standard or custom-designed body style that Dakota Bodies, Inc. manufactures. Call or fax us for your free quote.

"NORTHLANDER PACKAGE"

Standard Body Materials & Components

Main Body Exterior

The main body components will be constructed of 16 gauge **stainless steel**.

Compartment Tops

Compartment tops will be constructed of 12 gauge **galvanneal treadplate**.

Doors

Doors are double panel construction. The inner panel is bonded to the outer panel for increased rigidity and elimination of metal distortion due to welding. The outer and inner panels are constructed of 18 gauge A-60 **galvanneal**.

Door Hinges

Door hinges will be rod and socket type. The 5/16 rods in addition to the sockets will be **stainless steel**. This makes for a maintenance free and corrosion resistant hinge.

Door Latches

Door latches will be a rotary type latch, which is similar to the type of latch used on car doors.

Weather Stripping

Automotive style mechanically fastened weather-stripping.

Shelves

Shelves will be constructed of 18 gauge **galvanized steel**. Shelves will be one piece construction (no welds). Galvanized material is used so that the shelves do not need to be finished painted.

Material Hooks

Material hooks are constructed of 3/8 round stock.

Floors

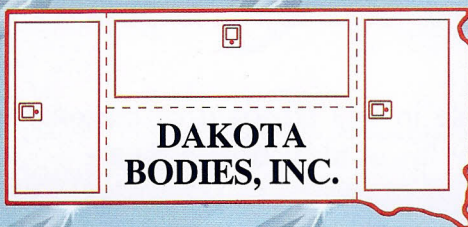
Floors will be constructed of 12 gauge treadplate.

Understructure

Floor understructure will be constructed of **structural steel**. Six inch 8.2 lb. channel crossmembers in the wheel wells and 6 X 1/4 flats on the fronts, backs and the side access areas. By using flats in these areas, all compartments are open for total adjustment of compartmentation.

Primer

Two-part epoxy primer.

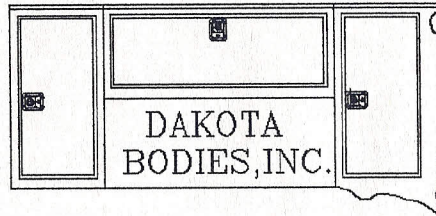


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dbi@dailypost.com

Dakota Bodies, Inc. reserves the right to modify, change, or revise any design or specification and furnish products so altered without prior notice.

Dakota Bodies, Inc Warranty



Dakota Bodies, Inc hereby warrants all equipment manufactured and supplied by Dakota Bodies, Inc to be free from defects in material and workmanship at the time of shipment from the Dakota Bodies, Inc plant for a period of one (1) year. Dakota Bodies, Inc will warrant rust through of its products for a period of five (5) years. No warranty repairs are to be made prior to Dakota Bodies, Inc approval.