## CONTRACT: FIRM OFFER FOR SALE

In consideration of one (1) dollar received by <u>Altec Inc</u>, "Contractor," Contractor hereby offers to sell to City of Columbus, "Buyer", who shall have until <u>September 30, 2022</u> to exercise this option to purchase, at the price and on the terms set forth in the bid proposal which includes: Advertisement for Bids, (RFQ016083), Information to Bidders, Contract: Firm Offer for Sale and specifications set forth in RFQ016083, all of which are incorporated and agreed to by both parties as if fully rewritten herein. Buyer may exercise this option without limitation to the number of times or quantity purchase(s) provided that the total purchase(s) do not exceed twice the estimated quantity or dollar amount set forth in the proposal.

Should the City exercise its option, the contractor agrees with the City of Columbus to furnish and deliver, at their own cost and expense, all the equipment, machinery and supplies set forth in <a href="Item(s)">Item(s)</a> No. Non-CDL, Diesel and CNG Bucket Trucks in the proposal filed by the Contractor with the Buyer's Purchasing Office on <a href="September 3">September 3</a>, <a href="2020">2020</a> in response to advertisement of bids for <a href="Non-CDL">Non-CDL</a>, <a href="Diesel and CNG Bucket Trucks UTC">Diesel and CNG Bucket Trucks UTC</a>, <a href="RFQ016083">RFQ016083</a>, according to specifications and plans therefore, thereto attached and for the prices set forth in said proposal.

IN WITNESS WHEREOF, the contract their hands on this day ofOecen_	ctor and the City of Columbus have hereunto set be 2010.
Altec Inc  Signature	City of Columbus, Ohio Purchasing Office  Osseph A. Lombardi by Roblyn Slaughter Finance & Management Director as authorized
Technical Sales Support Ref. Title	Ordinance No. 2813-2020 Passed December 7, 2020

row

SIGNATURE AFFIDAVIT (Must be completed when the individual signing the contract is NOT an officer or Member of the Company.)

STATE OF: Indiana	_
COUNTY OF: Marion	_
	_, being duly sworn, deposes and says that he/she is
Technical Sales Support Mgr Altec Industries Inc.	
Support Mgr of Altec Industries, Inc. (Company Name)	_, a Corporation, LLC, or LLP organized and existing under
and by virtue of the laws of the State of Indiana	, and having its principal office at
Indianapolis, IN 46268	
	State, Zip Code
Affiant further says that he/she is familiar with the re	
Altec Industries, Inc.	
(Company Na	me)
Affiant further says that Joe Kedanis	is_Technical Sales Support Representative
(Name of Person Signing C	ontract) (Title)
Of the Company and is duly authorized to sign the C	Contract for : Lee Styslinger, III
Signature of Affiant**	Diution of the Board of Directors. If resolution, give date
Sworn to before me and subscribed in my presence	this 14 day of May 2020
My Commission Expires: 10/12/2022	





August 10, 2020

## **ADDENDUM 1**

RE: Bid RFQ016083/ Bucket Trucks UTC

OPENS: September 3, 2020 at 11:00 a.m.

SUBJECT: Questions submitted to Vendor Services Q&A

In response to questions submitted to the vendor portal website during the Question period ending Monday, August 3, 2020, please see the attached revised bid packet for RFQ016083.

Answers are attached.

Further questions, please contact Roblyn Slaughter at rslaughter@columbus.gov.

Sincerely,

Roblyn Slaughter

Senior Procurement Specialist

Roblyn Slaughter

C: file

Number	Question	Answer
1	Will a Front mounted, top mounted telescopic boom with end hung bucket/platform be allowed for consideration? Similar to that of a Fire apparatus, point and shoot?	No – City of Columbus do not require any of this.
2	Is diesel chassis preferred on single axle chassis where applicable?	All bucket trucks will be a single axle.
3	CNG chassis, CNG fuel cells may affect weight distribution on single axle. Would tandem axle be acceptable where applicable?	No tandems – the single axle should be effective for the distribution of the CNG fuel cells.
4	What is the preference for CNG fuel cell mounting location?	The City of Columbus prescribes to the vendor's best location for proper weight distribution of the CNG fuel cells. Typically, these have been located immediately behind the cab.
5	Extended Cab, Crew Cab and 4-wheel drive options create different weight scenarios, dimensions scenarios and chassis scenarios, will those options be required for considerations?	Yes
6	Will deviations and exceptions be acceptable where applicable?	Yes if it's an approved equal.
7	Will Service/ Utility Bodies be required on all units requested?	Yes contingent upon specifics that will be discussed at pre-build meetings scheduled with the successful offeror(s).
8	What does Hybrid override system?	Enables the vehicle to operate if the hybrid system malfunctions.
9	What work arc is the bucket rotation requirement?	Contingent upon the size of the bucket arm – industry and safety standards apply.
10	What is bucket elevator system requirement?	Bucket elevator would have to meet the proper bucket truck size and weight requirements for the bucket. Elevator would need to lift bucket a minimum of 24"
11	Will body specifications be provided?	Yes contingent upon specifics that will be discussed at pre-build meetings scheduled with the successful offeror(s).

Number	Question	Answer
12	What tools and attachments are expected?	Varies by unit – should be within the specs. Catalog option has been added to the bid specification.
12	Will our service centers and mobile service	·
13	technicians satisfy the requirement of a warranty service provider?	The City prefers local but will accept mobile staff technicians.
14	What is the extent of training that is being requested? There are several levels of training we offer and I want to be sure to provide the correct option.	8 hours of operations and technical training for service staff training.
15	Which chassis is preferred? Extended cab or crew cab?	Extended.
16	It is more common for us to use a 2400 watt inverter. Is this acceptable instead of a 2500 watt inverter?	Yes
17	Is aluminum an acceptable alternative to stainless steel to match the other trucks on order?	Both can be priced aluminum
18	Is smooth floor acceptable? Any non-skid or cargo area coating will adhere better and last longer on a smooth floor surface.	No
19	Is this in reference to undercoating or a cargo coating similar to rhino liner?	Similar to a rhino liner e.g. Line-X
		None – the addition of cab suspension can make the bucket truck too tall to fit under low bridges. Our preference is that which allows the truck to set as
20	What type of cab suspension is preferred?	low as possible for low bridge
21	If weight becomes an issue is it acceptable to change to a tandem or is it necessary to only build on a single axle	Single axle
	Is a hybrid engine required to be bid or is diesel with a hybrid system to run boom, A/C, etc	
22	acceptable?	Diesel with a hybrid system.

Number	Question	Answer
23	Are drawings, weight studies, and spec sheets required at time of initial bid? If so more information will be needed as well as some time to be able to accurately provide these for a custom truck or a basic truck set up can be provided more readily.	The City of Columbus is pursuing a Best Value Procurement process to accomplish the following: - Basic truck specs to gain proper competitive bids - Vendor is selected from like bids - Upon meeting vendor, any additional options are discussed - Drawings are supplied pre-build for final review and approval
24	Are the desired units to be side by side booms or stacked booms?	Side by side booms.
25	If there are questions while building the bid package but after question period who is our contact?	The City of Columbus Purchasing Office will manage the bidding process. Once awarded this will be a Citywide contract for other agencies to use. Each purchase order will have the contact listed within the document.
26	Is it required to bid all trucks?	No. Offerors are encourage to submit proposal on units they can provide.
27	Some items may be difficult to provide pricing for. Is there a list of specific items that you have in mind? Will general annual maintenance cost be sufficient?	Cost of ownership is based on the units your business entity is wanting to be considered for an award
28	Will the City of Columbus be able to provide a POA for us to be able to provide the title at purchase?	Yes, the City of Columbus will sign a POA for title purposes.
29	Is the hybrid override expected to be provided by the chassis OEM? Or is this in reference to a hybrid system that allows you to use the machine while chassis is off?	To be provided by the hybrid manufacturer which enables the vehicle to operate if the hybrid system malfunctions.
30	Will these trucks be expected to have snow removal equipment or the ability to attach it?	No
31	Are we limited to 7 pages per truck or for the entire bid packet? It will be difficult to provide all of the relevant information for 7 trucks in 7 pages.	This section has been amended

Number	Question	Answer
		The COOPP membership list is
32	Who is in the COOPP Program?	attached to this document
		Yes. The bid specifications represent
		the basic specification to evaluate
	Will more information be provided for what is	proposals submitted. Potential
	expected of the body? We will need to know	awarded offeror(s) will be provided
	what it needs to look like and what features	more details in the next phase of our
33	need to be where to provide a quote.	evaluation.
		The bid specification allows offeror(s)
		to submit proposals on Diesel, Electric
		and Hybrid engine trucks and has CNG
		option listed, as well. Offerors will be
		considered for an award on units they
		can provide and what is in the best
		interest of City. We strongly
	If we do not supply a CNG option will we still be	encourage all offerors to submit
	considered for this contract or would we be	proposals on the units they can
34	automatically disqualified?	provide.
		4x4 is an option and Traffic/Utilities
	Is there a travel height requirement? If so 4x4	are aware of the height differences
	chassis are typically higher than the 4x2 and	between 4x2 and 4x4. Would require
	could cause travel height issues. Is 4x4 a	vendor to properly spec a build for
35	requirement or option?	bridge clearances within the city.
	We would like to know if we could propose a	
	fully electric option, including the engine as we	
	have already proposed similar options and can	
36	comply to all specifications.	This will be added to the addenda

## **CO-OPP Members**

Columbus State Community College

State of Ohio

State Teachers Retirement System of Ohio

City of Columbus

**Ohio Industrial Commission** 

Northeast Ohio Regional Sewer District

**Central Ohio Transit Authority** 

Columbus Regional Airport Authority

Columbus Public Schools

City of Piqua

Village of New Albany Hamilton County Montgomery County

Columbus Metropolitan Library

Ohio Facilities Construction Commission

Cleveland Metroparks

Columbus State Community College

City of Dayton
City of Canton
City of Westerville
Akron Public Schools

Cuyahoga County Public Library

City of Upper Arlington Ohio Lottery Commission

City of Brecksville

Central Ohio Technical College

Franklin County
City of Middletown
City of Westlake

Northeast Ohio Regional Sewer District

**Ohio Industrial Commission** 



## **Submission Instructions for Suppliers**

Please follow these instructions to submit via our Public Portal.

## 1. Prepare your submission materials:

## **Requested Information**

Name	Туре	# Files	Requirement
Proposal – RFQ16083 Bucket Trucks UTC	File Type: PDF (.pdf)	Multiple	Required

## **Requested Documents:**

Please note the type and number of files allowed. The maximum upload file size is 1000 MB.

Please do not embed any documents within your uploaded files, as they will not be accessible or evaluated.

## 2. Upload your submission at:

## https://columbus.bonfirehub.com/opportunities/29529

The Q&A period for this opportunity starts Jul 17, 2020 11:00 AM EDT. The Q&A period for this opportunity ends Aug 03, 2020 11:00 AM EDT. You will not be able to send messages after this time.

Your submission must be uploaded, submitted, and finalized prior to the Closing Time of **Sep 03**, **2020 11:00 AM EDT.** We strongly recommend that you give yourself sufficient time and **at least ONE (1) day** before Closing Time to begin the uploading process and to finalize your submission.



## **Important Notes:**

Each item of Requested Information will only be visible after the Closing Time.

Uploading large documents may take significant time, depending on the size of the file(s) and your Internet connection speed.

You will receive an email confirmation receipt with a unique confirmation number once you finalize your submission.

Minimum system requirements: Internet Explorer 11, Microsoft Edge, Google Chrome, or Mozilla Firefox. Javascript must be enabled. Browser cookies must be enabled.

## **Need Help?**

City of Columbus uses a Bonfire portal for accepting and evaluating proposals digitally. Please contact Bonfire at Support@GoBonfire.com for technical questions related to your submission. You can also visit their help forum at https://bonfirehub.zendesk.com/hc

## **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: <a href="https://www.columbus.gov">www.columbus.gov</a>

#### **INFORMATION FOR OFFERORS (RFP)**

#### **SPECIAL CONDITIONS**

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

#### PERSONAL EXAMINATION

Offerors are required to satisfy themselves by personal examination of the proposed contract documents and investigation of the conditions at the site of the work in order that they may be fully informed of the contract requirements, the conditions existing, and the difficulties likely to be encountered in the execution of the work.

#### SUBMISSION OF RESPONSE

Refer to the "Proposal Information" section of the Specifications for instructions for submission.

All proposals and other material submitted in response to this Request for Proposal (RFP) become the property of the City of Columbus. The City may choose to retain or return these materials to the offeror, at the offeror's expense.

The City is not liable for any cost associated with the preparation of the proposal or any other costs incurred by any bidder prior to the execution of the contract. The rejection of any proposal in whole or in part, at it discretion, will not render the City liable for incurring any cost or damage.

If at any time prior to the closing date the invited offeror decides not to provide a proposal, the City will appreciate that a letter to that effect be supplied to the City prior to the deadline.

#### **ACCEPTANCE AND REJECTION**

This response submitted by the offeror to the City of Columbus will be accepted or rejected within a period of 180 days from due date. The City reserves the right to waive technicalities, and to cancel and renew the request on the required service. If more than one service, prices shall be quoted on the services requested. However, each service may be considered a separate offer and the City reserves the right to award a contract on each service separately or on all services as a whole or any combination thereof. Offerors whose proposal is made on an "All or None" basis must clearly state such fact in their written responses.

Each invitation for Bids, Request for Statements of Qualifications, and Request for Proposals issued by the City shall state that the Bid or Request may be cancelled and that any bid or proposal may be rejected in whole or in part when it is for good cause and in the best interests of the City.

## WITHDRAWAL OF RESPONSE PROPOSALS

Offerors may withdraw their responses at any time prior to the time specified in the advertisement as the closing time for the receipt of responses. However, no offeror shall withdraw or cancel a proposal for a period of 180 calendar days after said advertised closing time for the receipt of the proposals.

#### SIGNATURE REQUIRED

The responses must be signed in ink. If the offeror is a firm or corporation, insert the corporate name followed by the signature of a person authorized to sign said response; if a partnership, indicate partnership name followed by the signature of one of the partners; if a sole proprietorship the signature of the owner is required. Where the person signing for a corporation is NOT an officer or Member of the Company, an affidavit or a resolution of

the Board of Directors showing the authority of that person to bind the corporation must be furnished.

#### **DEFAULT PROVISION**

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

#### CONTRACT AND BOND

The offeror 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 contracting agent of the City, become irresponsible, then said agent 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 agent, within ten (10) days after notice. In default thereof the default provision herein shall apply.

#### LIABILITY, INSURANCE, LICENSES AND PERMITS

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

The City, being a municipality, is tax exempt and will provide appropriate certificate upon request. Federal and/or State Taxes are not to be included in prices quoted. The successful offeror will be furnished an exemption certificate if needed.

## **PRICING**

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

## **DELIVERY**

Time will be of the essence for any orders placed as a result of this response. 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.

#### **INFORMATION FOR OFFERORS (RFP) (Continued)**

#### **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.

#### **QUALITY**

Unless otherwise stated by the offeror, the proposal will be considered as being in strict accordance with the specifications outlined in this RFP document.

#### **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.

#### **CHANGES AND ADDENDA TO RFP DOCUMENTS**

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

#### REPUDIATION OF AGREEMENT

The liability of the City for repudiation of any agreement which might result from this request shall be limited to the difference between the market price at the time and place for tender of the service and the unpaid sales price together with any incidental damages, but less expenses paid in consequence of the breach by the City. The liability of the city shall not be measured by the profits or overhead of seller.

#### **CONTRACT MODIFICATION**

An agreement which may result from this request 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.

#### **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.

#### **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 offeror shall be notified as to which terms and conditions, if any, have been deleted or changed.

#### **PUBLIC RECORDS REQUESTS**

The City of Columbus, as a political subdivision of the State of Ohio, is subject to Ohio Revised Code Chapter 149, known as

the Ohio Public Records Law. Consequently, the Offeror understands that ALL documents submitted in response to this RFP are considered public records and WILL be released when a public records request is made by news media, competitors, or other interested parties, in accordance with the law. If you contend that certain CLEARLY MARKED portions of your response constitute an exception to Ohio's public records law, you MUST submit your legal basis in support of that assertion with your response.

If a public records request is made for any portion of the documents that you have submitted and you have NOT clearly marked such documents as information constituting an exception to Ohio's public records law, your information will be released immediately.

If a public records request is made for such information and you HAVE clearly marked portions of your response as information constituting an exception to Ohio's public records law, AND you have submitted the legal basis supporting such claim, the City will release a redacted version of your information to the requestor and notify you that a request was made and that a redacted version of your response was released. Should the requestor indicate that the redacted version is not sufficient for their purposes, you then will be IMMEDIATELY responsible for obtaining an order from a Court of competent jurisdiction in Franklin County, Ohio enjoining release of your clearly marked information constituting an exception to Ohio's public records law.

If a public records request is made for such information and you HAVE clearly marked portions of your response as information constituting an exception to Ohio's public records law, but you have NOT submitted the legal basis supporting such claim, the City WILL RELEASE your information to the requestor and notify you that a request was made and that your response was released.

DO NOT mark your entire response/submittal as information constituting an exception to Ohio's public records law. If your entire response/submittal is so marked, the City of Columbus will not consider your offer.

### **COSTS INCURRED FOR PROPOSAL SUBMISSIONS**

The City is not liable for any cost associated with the preparation of the proposal or any other costs incurred by any offeror prior to the execution of the contract. The rejection of any proposal in whole or in part, at it discretion, will not render the City liable for incurring any cost or damage.

#### WITHDRAWL OF PROPOSALS

If at any time prior to the closing date the invited offeror decides not to provide a proposal, the City will appreciate that a letter to that effect be supplied to the City prior to the deadline.

#### SAFETY REQUIREMENTS

Successful vendor shall at all times while performing duties, adhere to all rules of their particular industry, with regard to mandates by the Environmental Protection Agency (EPA) and/or Occupational Safety and Health Administration (OSHA), and any other regulation applicable to the circumstance.

(INFORMATION FOR OFFERORS continued next page)

#### **INFORMATION FOR OFFERORS (RFP) (Continued)**

#### **NON-COLLUSION AFFIDAVIT**

Each respondent is required to submit with his proposal an affidavit stating that neither he nor his agents, nor any other party for it, has paid or agreed to pay, directly or indirectly, any person, firm or corporation any money or valuable consideration for assistance in procuring or attempting to procure the Contract herein referred to, and further agreeing that no such money or regard will be hereafter paid. This affidavit must be on the form required, titled "Non-Collusion Affidavit."

## ADDITIONAL CONTRACT TERMS AND REQUIRED DOCUMENTS IN THE EVENT OF A CONTRACT

This section sets forth contract terms and the required contract documents that the successful offeror must execute following the award of the contract by the contracting authority.

#### **PUBLICATIONS**

The Contractor agrees to submit to the City's Contract Administrator all advertising, sales promotion, and other publicity matters relating to this Contract wherein the City's name is mentioned or language used from which the connection of the City's name therewith may, in the City's judgment, be inferred or implied. The Contractor further agrees not to publish, or use such advertising, sales promotion, or publicity matter without the prior written consent of the City except that may be required under law.

#### **TERMINATION FOR CONVENIENCE**

The City upon thirty days written notice may terminate this agreement at its convenience. The party providing goods or services shall be entitled compensation for goods provided or services rendered under the terms of this contract up to the date of notification of termination.

#### **TERMINATION FOR DEFAULT**

If either the City or the Contractor violates any material term or condition of this Contract or fails to fulfill in a timely and proper manner its obligations under this Contract, then the aggrieved party shall give the other party written notice of such failure or violation. The responsible party shall give the other party written notice of such failure or violation. The responsible party will correct the violation or failure within thirty (30) calendar days or as otherwise mutually agreed. If the failure or violation is not corrected, this Contract may be terminated immediately by written notice from the aggrieved party to the other party. The option to terminate shall be the sole discretion of the aggrieved party. If it determined for any reason the failure to perform is without the defaulting party's control, fault, or negligence, the termination shall be deemed to be a Termination for Convenience.

#### **APPLICABLE LAW. REMEDIES**

This agreement shall be governed in accordance with the laws of the State of Ohio. 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. The remedies provided for in this Contract shall not be exclusive but are in addition to all other remedies available under law.

#### **ASSIGNMENT**

This agreement may not be assigned or otherwise transferred to others by the contractor without the prior written consent of the City.

#### SAVE HARMLESS

Contractor shall protect, indemnify and save the City harmless from and against any damage, cost, or liability, including reasonable attorneys' fees resulting from claim, by third parties for any or all injuries to persons or damage to property arising from the acts or omissions of the Contractor, its officers, employees, agents, or Subcontractors in providing goods or services under the terms and conditions of this contract.

#### **Public Records**

Contractor acknowledges that the City is subject to O.R.C.149.43, the State of Ohio Public Records Law.

#### INDEPENDENT CONTRACTOR STATUS

The Contractor shall perform its duties as an independent contractor and not as an employee. Neither the contractor nor any agent or employee of the contractor shall be or shall be deemed to be an agent or employee of the City of Columbus. The Contractor shall pay when due all required employment taxes and income tax on any monies paid pursuant to the contract. Contractor shall acknowledge that the contractor and its employees are not entitled to unemployment insurance benefits unless the contractor or a third party provides such coverage and that the City does not apply for or otherwise provide such coverage. Contractor shall have no authorization, express or implied, to bind the City to any agreements, liability, or understanding except as expressly set forth in the contract. Contractor shall provide and keep in force worker's compensation (and show proof of such insurance) and unemployment compensation insurance in the amounts required by law, and shall be solely responsible for the acts of the contractor, it's employees and agents.

(INFORMATION FOR OFFERORS continued next page)

#### **INFORMATION FOR OFFERORS (RFP) (Continued)**

#### **IN THE EVENT OF A CONTRACT (continued)**

#### PROTECTION OF CITY'S CONFIDENTIAL INFORMATION

The contractor shall acknowledge that some of the material and information which may come into its possession or knowledge in connection with the contract or its performance, may consist of confidential information, the disclosure of which to, or use by, third parties could be damaging. Therefore, access to information concerning individual recipients of the City's services to individual clients, among other items, shall not be granted except as authorized by law or agency rule. The contractor shall agree to hold all such information in strictest confidence, not to make use thereof for other than the performance of the contract, to release it only to authorized employees or subcontractors requiring such information, and not to release or disclose it to any other party. The contractor shall agree to release such information or material only to subcontractors who have signed a written agreement expressly prohibiting disclosure. The contractor shall further agree to either destroy or return all such information at the end of the term of the contract.

This section does not impose any obligation on the contractor if the information is: (1) publicly known at the time of disclosure; (2) already known to the receiving party at the time it is furnished to the contractor; (3) furnished by the City to others without restrictions on its use or disclosure; or (4) independently developed by the receiving party without use of the proprietary information.

#### WITHHOLDING OF CITY INCOME TAX

Pursuant to Section 362 Columbus City Codes, 1959: "Said Contractor hereby further agrees to withhold all City income tax assessment due or payable under the provisions of Chapter 362, Columbus City Codes for wages, salaries and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income tax assessments due under said chapters for services performed under this Contract."

#### **WORKER'S COMPENSATION INSURANCE**

The contractor shall take out and maintain, during the life of the 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 contractor shall furnish three (3) copies of the worker's compensation certificate showing that the contractor has paid his industrial insurance premium.

#### **AUTHORITY TO BIND**

The signatories to this Contract represent that they have the authority to bind themselves and their respective organizations to this Contract.

#### LIABILITY INSURANCE

The contractor shall take out and maintain during the life of the contract, such liability (bodily injury and property damage) Insurance as shall protect it 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 itself or any subcontractor or by anyone directly or indirectly employed by either of them. Such insurance policy shall include the City as additional insured. The contractor shall maintain coverage of the types and in the amounts specified below. Proof of such insurance coverage shall be evidenced by submitting a certificate of insurance. A contractor's "umbrella" type policy with limits specified below may be submitted for this requirement with the City as additional 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 All Accidents 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 notifies the City 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 hereinabove 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

## 1.0 SCOPE AND CLASSIFICATION

- 1.1 **Scope**: The City of Columbus is seeking Request for Proposals in response to a Best Value Procurement (BVP) to enter into a Universal Term Contract (indefinite quantity) to purchase various sizes of Bucket Trucks to be used by multiple City agencies. The City will negotiate a contract with the selected vendor(s) for a term of two (2) years beginning the date of execution through September 30, 2022 with one additional oneear extension option.
- 1.2 **Classification:** The contract resulting from the BVP will provide for the purchase and delivery of Bucket Trucks to be used by various City agencies.
- 1.3 **Specification Questions:** Questions regarding this BVP must be submitted on the Bonfire portal by 11:00 am Monday, August 3, 2020. Responses will be posted on the RFQ on Vendor Services no later than Monday, August 10, 2020 at 4:00 pm.
- 1.4 For additional information concerning this BVP, including procedures on how to submit a proposal, you must go to the City of Columbus Bonfire web site at <a href="https://columbus.bonfirehub.com/opportunities/29529">https://columbus.bonfirehub.com/opportunities/29529</a> and view this bid number detailed instructions. Bid proposal specifications are available through the following link: <a href="https://columbus.bonfirehub.com/opportunities/29529">https://columbus.bonfirehub.com/opportunities/29529</a>
- 1.5 **Best Value Procurement Model:** The City of Columbus is using a Best Value Procurement in lieu of the Invitation to Bid model. The award will not be made to the lowest, responsive, and responsible bidder. The contract will be awarded based upon: (1) specification conformity and completeness of response, (2) total cost of ownership, (3) past performance, and (4) acquisition costs and other evaluation criteria referred to in Columbus City Code 329.18 or as defined herein.
- 1.6 **Multiple Awards:** The City reserves the right to split the award amongst multiple suppliers based upon each category of bucket trucks. Categories of Bucket Trucks include the following configurations:
  - 37ft Single Axle Bucket Truck
  - 40ft Single Axle Bucket Truck
  - 50ft Single Axle Bucket Truck
  - 55ft Single Axle Bucket Truck
  - 60ft Single Axle Bucket Truck
  - 70ft Single Axle Bucket Truck
  - 75ft Single Axle Bucket Truck

### 2.0 APPLICABLE PUBLICATIONS AND STANDARDS

- 2.1 Must meet or exceed all City, State, Federal safety guidelines and standards.
- 2.2 All OSHA applicable guidelines and standards.

2.3 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.

## 3.0 **REQUIREMENTS**

- 3.1 **General Information:**
- 3.1.1 **Term:** The proposed contract shall be in effect from the date of the executed contract up to and including September 30, 2022. This will be negotiated with the finalist.
- 3.1.1.1 **Annual Extension:** Subject to mutual agreement, the period covered by the ensuing contract, under the same terms and conditions stated therein can be extended for one additional year, or portion thereof, at the same pricing and the same escalator clause.
- 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. Unless otherwise stated all bids will be considered to contain the following escalator/de-escalator cause:
- 3.1.2.1 Escalator Clause: No price adjustment shall be granted during the first twelve (12) months duration of an awarded contract. Thereafter no more than two such increases may occur within any year of the contract. In the event the supplier receives a general price increase in the cost of the finished product contracted for, due to increase in the cost of raw materials, labor, freight, etc., upon giving thirty (30) days prior notice and proper documentation as proof, said increase in addition to the unit price quoted herein, may be permitted, subject to the sole discretion of the City of Columbus Finance and Management Director. In the event any such increase is granted, no price adjustment shall be permitted on orders received by supplier which are in process or filled but awaiting shipment prior to the increase. All price decreases inure to the benefit of the City of Columbus. The written notice and following documentation shall be sent to: City of Columbus Purchasing Office, 5th Floor, 77 N. Front St., Columbus, Ohio 43215.
- 3.1.2.2 **Price Documentation**: The supplier shall submit the following documentation with each request for a price increase:
  - 1) Copies of the old and the current price lists or similar documents which indicate the original base cost of the product to the supplier and the corresponding increase; and
  - 2) Copies of correspondence sent by the supplier's supplier explaining the source of the increase in such areas of raw materials, freight, fuel or labor, etc.; and

- 3) Copies of excerpts from business publications, market quotations or trade journals recognized as being representative of their particular trade or industry, that indicate a trend toward an increase in the current market for the commodities under the awarded contract.
- Right of Cancellation: If at any time during the term of the contract the supplier's total request(s) for a price increase(s) are greater than fifteen percent (15%), the City of Columbus may cancel this agreement with thirty (30) days written notification.
- 3.1.3 **Quantity Estimate:** The City of Columbus estimates spending approximately \$700,000.00 in accordance with this contract. This is an estimate of the annual needs of the City under this contract and are for bidding purposes only. This estimate is not to be construed as representing an actual order for that amount, or a guarantee that any minimum amount will actually be purchased. The City reserves the right to purchase up to twice the estimated quantity.
- 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.
- 3.1.5 **Universal Term Contract**: This proposal is bidder's offer to sell the item(s) set forth in the bidders' response to the RFQ at the price(s) quoted by bidder therein, under the terms and conditions of these bid documents. An estimated quantity or estimated annual expenditure is set forth in the proposal. Bidder is to take notice that the City makes no warranties or representations that the estimated quantity, or any quantity at all, will be ordered by the City even though bidder's proposal is accepted by the City and a firm offer for sale executed.

If bidder's proposal is accepted by the City and the firm offer for sale is executed the bidder is to take further notice that no act, failure to act, or order placed by the City shall constitute an order or contractually bind the City without the proper certificate by the City Auditor that funds sufficient for full payment due on any order are available. Each order placed under the firm offer for sale shall require execution of a purchase order. Therefore in consideration of one (1) dollar received by the awarded bidder, said bidder shall offer to sell buyer, City of Columbus, who shall have the Contract Term to exercise this option to purchase, at the price and on the terms set forth in this proposal.

The City shall not be precluded from buying the same or similar items from other suppliers.

- 3.1.5.1 **Written Purchase Order:** Written Purchase orders may be established for various City Agencies referencing the terms of this contract and specifying delivery locations. No shipment shall be authorized until such issuance of a Purchase Order.
- 3.1.6 **Cooperative Purchasing:** The successful bidder shall also supply all items under the terms and conditions of the proposed contract to agencies officially sanctioned by the City in its cooperative purchasing effort, the Central Ohio Organization of Public Purchasers (COOPP). Any agency that is not subject to a City of Columbus purchase order must be invoiced directly by the supplier. Those agencies participation is subject to a credit approval by the supplier, as the City of Columbus is in no way obligated to those agencies' financial commitments. The supplier shall be notified of any additional agencies sanctioned by the City of Columbus via letter signed by the Finance and Management Director.
- 3.1.7 **Non-disclosure:** The contractor agrees that no information will be disclosed to third parties or published in case studies, advertisements, white papers, customer testimonials, etc. without the written consent of the City.
- 3.2 **BVP Overview:** The Offeror's response to this BVP should be a clear and concise description of the Offeror's capabilities and proposed product offerings. The BVP will be evaluated using (1) specification conformity and completeness of response, the relevant information pertaining the requirements of a specification, technical standard, contract, or regulation (2) total cost of ownership, to include maintenance and operation costs, as well as the expected life of the equipment, (3) past performance of the equipment and vendor as determined by customer satisfaction, and (4) acquisition costs.
- 3.2.1 **Process Summary:** The City will appoint an evaluation committee to evaluate proposals received. The committee will evaluate all Offerors and proposals received and rank the offerors based upon the evaluation criteria specified in the BVP. The committee may then select two (2) or more of the highest qualified Offerors with which to hold additional discussions. The discussions may include, but are not limited to, presentations by the Offerors to the committee to elaborate upon their qualifications, proposals, and/or other pertinent information. Based upon the content of the proposals received including any revisions thereto, and upon any additional discussions with the Offerors the committee shall rank the remaining offerors based upon the evaluation criteria specified in the BVP. The committee shall submit its ranking of the Offerors along with a written explanation to the Finance and Management Director. The Finance and Management Director shall select the Offeror(s) with which to enter into contract negotiations. If negotiations fail, negotiations with these offeror(s) shall be terminated, and the city agency may enter into contract negotiations with another.
- 3.2.2 **BVP Sequence of Events:** The following BVP sequence of events represents the City's best estimate of the schedule that will be followed. Exact due dates and times for questions / answers (in Section 3.2.3) are noted in this document and will be published on Vendor Services and in the City Bulletin:

- BVP Issued
- Deadline for written questions: before 11am, August 3, 2020
- City response to questions: by 4pm, August 10, 2020
- BVP Due: Proposals must be submitted prior to 11am, September 3, 2020
- Notification of finalists: approximately 15-20 days after BVP opened
- Presentations to City: approximately 10-15 days after notifications sent
- Negotiations begin: approximately 5-10 days after presentations
- Contract completed: approximately 40 days after completed negotiations
- 3.2.3 **Specification Questions:** Questions regarding this BVP including any exceptions and/or suggested changes to the requirements must be submitted on the City of Columbus' Bonfire portal by 11:00 am (local time) on Monday, August 3, 2020. Responses and any necessary addenda will be posted as an amendment to this RFQ on the City of Columbus' Bonfire no later than 4:00 p.m. (local time) on Monday, August 10, 2020. 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 Bonfire portal <a href="https://columbus.bonfirehub.com/opportunities/29529">https://columbus.bonfirehub.com/opportunities/29529</a> 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 **Communications:** During the BVP and evaluation process, Offerors are strictly prohibited from communicating with any City employees or officers regarding this solicitation except through the method stated immediately above during the Question & Answer period. Any communication from the vendor to the City after the Question and Answer period should be limited to only what is necessary. Necessary communication required by the City will be communicated clearly to Offerors. If any Offeror has a need to communicate with the City, the communication should come only to the Chair of the Committee. If a City employee attempts to communicate with an Offeror contrary to this provision, the Offeror shall report said incident to the Chair of the Committee. The Chair is Roblyn Slaughter. Chair can be reached at <a href="mailto:rslaughter@columbus.gov">rslaughter@columbus.gov</a> or 614/645-7651. A violation of this section on the part of the Offeror will lead to disqualification.

#### 3.3 Evaluation Criteria:

- 3.3.1 Section One Specification Conformity and Completeness of Response (45 points): The proposal response of the Offeror meets and or exceeds the relevant information pertaining to the process, product, or service complies with the requirements of a specification, technical standard, contract, or regulation.
- 3.3.1.1 Provide sufficient information in a clear, concise manner to the City to evaluate the unit(s) of Offeror to meet and/or exceed the requested vehicle unit and service wherein. Responses that do not include the proposal content requirements

identified within this BVP and subsequent Addenda and do not address each of the items listed below will be considered incomplete, be rated a Fail in the Evaluation Criteria and will receive no further consideration.

Information in Section One should be limited to address only the following:

The process, product, or service complies with the requirements of a specification, technical standard, contract, or regulation. In addition to the truck design of the Offeror's technical proposal will demonstrate through the conversion of the RFP technical specifications into detailed line drawings and documents that clearly explain how the Offeror meets the operational needs expressed by the preferences of the technical specifications.

- 3.3.2 Section Two Total Cost of Ownership, to Include Maintenance and Operation Costs (35 points) Provide sufficient information in a clear, concise manner to the City to evaluate the total ownership costs of the offered products. Information in Section Two should include:
- 3.3.2.1 Offerors shall describe the Total Cost of Ownership over ten years. Verifiable data in the form of documentation to substantiate costs provided, plus parts lists and scheduled maintenance must be included. The calculation process should be described in the Proposal and must include any supporting documentation to substantiate the figures provided.

At a minimum, please answer the following questions in your response:

- What are the repair and maintenance requirements of the Bucket Trucks?
- Do you offer repair and maintenance services?
- Are there uses, instances, or circumstances that would significantly reduce the useful life of this product?
- What do your warranties cover?
- Is the warranty provided by you, or is it an aftermarket warranty?
- Are there any circumstances that would void the warranty?
- What is the procedure for handling defect and loss claims?

## 3.3.3 Section Three - Past Performance (20 Points)

- 3.3.3.1 The past performance of Offeror as reflected by evaluations of previous clients of the Offeror with respect to customer satisfaction (Appendix A).
  - 1) Service History: Offeror shall provide a brief history of its provision of similar items to organizations of similar size and/or complexity. At a minimum, please answer the following questions.
    - How long have you manufactured or distributed and/or serviced Bucket Trucks?
    - What clients and applications similar to the City's have you served?

- What is repeat business rate for Bucket Trucks clients?
- 2) Professional References: The Offeror must provide professional references. A minimum of three (3) references are required. References should consist of projects of a similar scope, complexity and cost. Please include the name of the individual, the name and location of entity, an e-mail address and phone number. It is the full intent of the City to speak with multiple references indepth about their experiences with your company and its products. Offerors should contact references with the following questions. Please include in your response the answers from the reference to the following questions:
- Did the purchase meet your customer expectations? How or how not?
- Did the vendor show the ability to maintain schedules and meet deadlines?
- What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?
- Please explain the total cost of ownership of the Bucket Trucks.
- Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?

## 3.3.4 Section Four - Acquisition Cost (30 points):

DO <u>NOT</u> INCLUDE COST WITH THIS PROPOSAL. THE HIGHEST SCORING OFFERORS WILL BE INVITED TO PROVIDE ADDITIONAL INFORMATION TO THE CITY, INCLUDING COST PROPOSALS.

#### 3.4 TECHNICAL SPECIFICATIONS:

- 3.4.1 **Scope:** It is the intent of these specifications to describe single axle trucks with Bucket bodies in sufficient detail to secure proposals. Offerors should address each subsection in their proposal. The technical specifications are to provide offerors with guidelines. They are not meant to prevent offerors from proposing alternate solutions. In all instances, the Offeror is to clearly indicate how the proposed solution meets the desire of the City of Columbus for tandem and single axle Bucket trucks with snow removal equipment. Unless otherwise noted, technical specifications will describe equipment used for both tandem and single axle trucks. The offeror shall include an appropriate explanation of the type of equipment offered in detail, and with full supporting data to ensure that the City can properly evaluate the proposal.
- 3.4.2 All parts not mentioned, which are necessary to provide a complete unit, shall be included in the offer and shall conform in strength and quality of workmanship to what is usually provided to the trade in general. This vehicle must meet or exceed the current edition of FMVSS and any or all DOT regulations and Federal axle load laws at the time of contract signing.

- 3.4.3 The City strongly prefers the vehicle to be new. The proposal should preferably not include components, or finished units that are of a prototype nature, or have not been in production for a sufficient period of time to prove their performance capabilities. The City will determine the acceptability of any proposal of prototype/refurbished equipment.
- 3.4.4 Mention in the technical specification of any equipment or material by brand name is intended to convey to the offerors the degree of quality requested.
- 3.4.5 Offerors shall submit with their proposal detailed drawings and build-sheets clearly showing all of the necessary components of the single and tandem axle trucks and equipment being offered. Offerors may submit with their proposals descriptive literature, brochures, etc. This may include photographs of already constructed similar type vehicle.
- 3.4.6 The City prefers delivery of each unit purchased not to exceed three-hundred and sixty (360) calendar days from the date of the signed contract and issuance of a City of Columbus purchase order. State actual delivery time per unit in calendar days in the offer. The City will negotiate with the selected Offeror the amount of liquidated damages to be enforced if the delivery is not completed on or before the time stipulated in the final agreement.
- 3.4.7 The City prefers that the Offeror provide service and parts availability twenty-four (24) hours per day, seven days per week via a franchised dealer employing certified truck and apparatus component service technicians. Indicate in detail whether your proposal includes such availability. If not, indicate service and parts availability. List the name and location of the franchised dealers. Indicate whether Offeror will provide a Customer Service Center. If so, indicate the hours of operation and the level of service offered.

# 3.5 SPECIFICATION INFORMATION: Units for consideration are Side by Side Squirt Booms, Non-Over Center Knuckle Boom

- 3.5.1 **GROSS VEHICLE WEIGHT**: Offerors shall submit their Gross Vehicle Weight with their proposal. The City prefers the minimum weights as stated below, or as required for the configuration:
- 3.5.1.3 Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.
- 3.5.1.4 37' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.
- 3.5.1.5 40' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.
- 3.5.1.6 50' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.

3.5.1.7 55' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.1.8 60' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.1.9 70' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.1.10 75' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.2 WHEELBASE 3.5.3 **ENGINE** 3.5.3.1 The City intends to award both Diesel, Electric and Hybrid options through this procurement process. Each offeror is to propose their recommended configuration to meet the City's needs. 3.5.4 **TRANSMISSION** Single Axle: The City prefers Allison 6 speed transmission or approved alternate with performance code for highway speed auxiliary oil cooler and dash mounted temperature gauge and PTO gear. The City prefers this because of standardization and because of the truly automatic nature of this transmission. 3.5.5 FRONT & REAR AXLE CONFIGURATION: Offerors shall submit their axle configurations with their proposal. 3.5.5.4 37', 40', 50', 55', 60', 70' & 75' FT. Bucket Truck Front and Rear Axle - Each offeror is to propose their recommended configuration to meet the arrangement and configuration of the proposed equipment. 3.5.5.5 Limit maximum road speed electronically to 68 mph. 3.5.6 **FRAME** 3.5.6.1 Manufacturer's optional heavy duty, off highway type. 3.5.7 **BRAKES** 3.5.8 TIRES & WHEELS

3.5.9	STEERING
3.5.10	ELECTRICAL & ALTERNATOR
3.5.10.1	<b>ELECTRICAL WIRING STANDARDS:</b> 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.
3.5.10.2	Provide wiring diagram for all factory and truck body component installations.
3.5.11	FUEL TANK
3.5.11	CAB & EQUIPMENT
3.5.11.1	City prefers air ride driver seat and air ride passenger seats. Air ride seats provide a more comfortable ride for the driver and passenger.
3.5.12	MIRRORS
3.5.13	PAINT
3.5.13.1	The City prefers the complete chassis and body unit to be primed and painted, to paint manufacturer's recommendations, with Yellow NAV 4015 lead free or equal that matches cab manufacturer color. The City of Columbus, when possible, wants their fleet of trucks to match in color and appearance.
3.5.13.2	The City prefers the body to remain natural stainless steel, with frame painted black. The City of Columbus, when possible, wants their fleet of trucks to match in color and appearance. Aluminum will be considered.
3.5.14	RUSTPROOFING OPTION
3.5.15	TRAILER AIR LINES & LIGHT PLUGS
3.5.16	KEYS
3.5.17	<b>Aerial Device Requirement:</b> Combination articulating and telescoping or side by side squirt configuration
3.5.17.1	HYDRAULICS
3.5.17.2	ARTICULATION
3.5.17.3	ROTATION

3.5.17.3.1	Aerial unit shall be capable of continuous 360 degree rotation.
3.5.17.4	CONTROLS
3.5.17.5	BOOMS
3.5.17.5.1	Booms shall be rectangular in shape for increase rigidity
3.5.17.6	PLATFORM/BUCKET
3.5.17.6.1	Platform shall be fully insulated and rated to 46K volts to meet ANSI class C rating
3.5.18	SERVICE BODY
3.5.19	LABELS
3.5.19.1	Vehicle height placard shall be placed on the inner windshield in plain view of the driver and on the outside of the driver's door.
3.5.19.1	AUXILIARY ELECTRIC DRIVE SYSTEM
3.5.20	SERVICE BODY CONFIGURATION
3.5.20.1	Special stainless steel lined utility body suitable for mounting on a medium duty dual rear wheel chassis with all standard features and accessories to permit clearance, for vertical exhaust, hybrid cooler and outriggers. Plus or minus to accommodate aerial lift or hybrid option. Aluminum will be considered.
3.5.20.2	Steel tread plate cargo area floor and cargo wall liners with all steel understructure.
3.5.20.3	Body understructure modification as required for aerial tower subframe.
3.5.20.4	Body shall include rear cab headache rack or window protector
3.5.20.5	Body shall include a rear bumper with pintle hitch.
3.5.20.4	CURBSIDE COMPARTMENTS (FRONT TO REAR) OPTIONS
3.5.20.4.1	Up to 3 vertical compartments, 1 horizontal compartment, and 1 side access stairway

3.5.20.5	STREET SIDE COMPARTMENTS (FRONT TO REAR) OPTIONS
3.5.20.5.1	Up to 4 vertical compartments and 1 horizontal compartment
3.5.21	<b>ACCESSORIES</b> - an automatic hydraulic boom latch system is to be installed to secure the boom, if needed.
3.5.21.1	Two flexible rubber platform supports under platform. Platform is to be as low to the deck as possible.
3.5.21.2	Two (2) safety belt attachments.
3.5.21.3	Insulated engine stop/start system with switches at platform and lower controls.
3.5.21.4	Insulated two speed throttle system with switches at platform and lower controls.
3.5.21.5	Insulated 12-volt emergency power system with switches at platform and lower controls.
3.5.22	MOUNTING
3.5.23	Hybrid override system to allow vehicle to operate as a standard vehicle for driving; full operation all bucket functions, including use of all lighting, power outlets, heating, and air conditioning
3.5.24	LIGHTS
3.5.24.1	Cab amber strobe light bar
3.5.24.2	Perimeter strobe package with a minimum of 4 amber strobe lights
3.5.24.3	1 remote controlled work light
3.5.24.4	2 Rear flood lights
3.5.25	OPTIONS:
	<ul> <li>End hung bucket with 180 degree bucket rotation system</li> <li>Bucket tilt system</li> <li>End hung bucket without rotation system</li> <li>Bucket elevator system</li> <li>Hydraulic tool circuit in bucket</li> </ul>

• 2500 watt 12volt invertor with two 120VAC GFCI outlets installed on the body.

- Class C, ANSI di-electric protection rating to 46K volt protection with boom fully collapsed
- Extended cab chassis
- Crew cab chassis
- 4 Wheel Drive
- Battery Assisted Idle reduction system
- Trailer air brake kit with glad hands.
- Catalog of add-ons items

3.5.25.1	<b>CNG OPTION - e</b> ach unit is to meet the following CNG requirements:
3.5.25.1.1	All CNG technology submitted within the bid must be E.P.A. or C.A.R.B. certified for the year or the equipment you are bidding.
3.5.25.1.2	Minimum 60 gallons capacity OEM installed type 3 or type 4, minimum 20-year life, compressed natural gas fuel tanks. Cylinders must comply with DOT or NGV2 regulation. CNG system should be configured for minimal overall truck length.
3.5.25.1.3	Cylinders shall be mounted with mounting blocks or straps. All manufacturers' cylinder label information shall be recorded and provided to Fleet Management with each invoice.
3.5.25.1.4	Cylinders shall have a pressure release device (PRD) installed in a manner that ensures vented gas that is released upwards, and clear of the truck. PRD's must be fitted with vent tubing appropriate for the application. Vent tubing must be routed to outside of CNG tank compartment. Each PRD must be vented separately.
3.5.25.1.5	PRD tubes shall be equipped with cap, tubes must be as high as possible and opening facing up to release CNG in an upward motion.
3.5.25.1.6	Tanks shall have external solenoid valves open and closed by key on or off and manual ball valves on each cylinder.
3.5.25.1.7	Truck shall be equipped with both a standard flow fill valve (NGV1) and preferably a OPW-5000 (high –flow) fill valve in a securable mounted box with tank gauges the box shall be located in an easily fueling and reachable area for the driver. Fuel door with ignition cut-off if door is left open. Trucks shall also be equipped with a fuel transfer system (no transfer hose is required). Truck shall be equipped with a defueling port with mechanical 3 way shut—off valve. All fueling points to be located on the driver's side of vehicle.

3.5.25.1.8	Gas flow tubing from the fueling connection to the cylinders is to be a minimum 3/4" O.D. tubing to minimize pressure drop and fill time. Connections to cylinders shall be 3/8" or 1/2" O.D. tubing. Valves and other components in the gas fill path shall be selected to optimize fill speed.
3.5.25.1.9	High and low pressure coalescing filters shall be installed on lines feeding the engine. Filters shall have a manual drain valve that is easily accessible and robust enough to facilitate frequent drainage.
3.5.25.1.10	Any and all other parts and equipment necessary to provide a complete compressed natural gas unit must be installed on the unit. The successful bidder must remove all gasoline related parts.
3.5.25.1.11	The CNG fuel system shall be properly inspected (and pass inspection) by a qualified CNG system inspector. The vehicle shall have a completed inspection sticker and inspection form supplied with the vehicle upon delivery to the City.
3.5.25.1.12	Vehicle shall be delivered with a CNG system bill of materials to include all CNG fuel system parts and components.
3.5.25.1.13	CNG equipment dealer / installer must provide warranty service of the CNG system.
3.5.25.1.14	CNG storage cabinet is to be painted black and mounted behind the cab before the body and house all tanks to incorporate the 60 gallon requirement. Other configurations shall be considerations as alternates and are dependent upon approval by the Department of Public Service and Fleet Management.
3.5.25.1.15	The CNG storage cabinet shall be equipped with doors or removable panels on each side of the cabinet (driver and passenger side or front/rear). All fasteners used to attach the inspection panels shall be stainless steel.
3.5.25.1.16	Each CNG tank is to be individually vented through the top of the CNG storage housing.
3.5.26	CATALOG
3.5.26.1	Bidders are also asked to quote discounts off price list/catalog pricing. Bidders are required to show experience in providing this type of material and/or services as detailed in these specifications.

## 3.6 **REPORTING PROCEDURE:**

Indicate clearly in offer your proposed method of progress reports.

#### 3.7 **INSPECTION TRIPS:**

Inspection trips will be negotiated in the final contract. Offer need not include information regarding inspection trips. Please refer to Appendix B for details.

#### 3.8 **TRAINING:**

Clearly indicate in offer your proposal for properly training City staff on the use and maintenance of the product offered in your proposal.

## 4.0 <u>SAMPLING, INSPECTION AND TEST PROCEDURES</u>

- 4.1 **Demonstration:** The City reserves the right to require a demonstration of any equipment prior to award of the BVP. 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 inspected upon delivery by an authorized representative of the Division of Fleet Management and the requesting City agency designee 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.

### 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 body-chassis 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 Division of Fleet Management (614) 645-6104,

twenty-four (24) hours in advance. Delivery shall be F.O.B. destination prepaid and allowed.

#### 5.3 **Title:**

- 5.3.1 All documents required to obtain a State of Ohio Title 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.
- 5.3.2 After signature by the Division of Fleet Management, an Ohio Certificate of Title 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.
- 5.3.3 All titles are to be made out to City of Columbus, 4211 Groves Rd, Columbus, Ohio 43232.
- 5.4 **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 shown on the purchase order ensure proper payment.
- 5.5 **Expedited Shipment**: In cases when parts are needed immediately and not available for pick up, the agency may request that it be shipped the quickest way possible. The exact price must be determined and agreed upon by an appointed designee and a notation included on the order before authorization is granted for an expedited order. The additional charge shall cover freight charges for shipping the part from the supplier. Such charges should be shown separately on the invoice and a copy of the freight invoice will be attached to the invoice upon submittal.

## 6.0 **NOTES**

- 6.1 **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.

- 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 of 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).

#### 6.3 **Manuals**

- 6.3.1 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.
- 6.4 **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 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.

#### APPENDIX A

## PERFORMANCE QUESTIONNAIRE – BUCKET TRUCKS

То:	(Name of person completing survey)
Phone:	Fax:
Subject	: Past Performance Survey of:
	(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)	
2	Ability to financially perform in the best interest of the	(1-10)	
	client and citizens		
3	Ability to maintain schedules and meet deadlines	(1-10)	
4	Ability to increase value	(1-10)	
5	Quality of service	(1-10)	
6	Ability to identify and minimize the users risk	(1-10)	
7	Leadership ability (minimize the need of owner/client	(1-10)	
	direction)		
8	Your comfort level in hiring the firm/individual again	(1-10)	
	based on performance		

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).

#### **APPENDIX B**

## **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 B**

- 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 t ransportation, 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

Breakfast

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

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

#### **APPENDIX B**

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 B

## B. Travel:

- 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 B

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 B**

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

Prepared by:

Hugh J. Dorrian City Auditor

## **Non-Collusion Affidavit**

## (This affidavit must be executed for the proposal to be considered)

State of	)	
County	)	
		, being first duly
president, secretary, etc.) of the parameter and not collusive or sham; that said business way with any other bidde connived or agreed, directly or indicated other person shall refrain from biddingreement or collusion, or communaffiant or any other bidder or to see person or persons interested in the proposal or bid are true; and further	arty making the foregoined bidder is not financially on the same Contract frectly, with any bidder of ding, and has not in any nication or conference, cure any advantage against that such bidder has	"(sole owner, a partner, ag proposal or bid; that such bid is genuine ly interested in, or otherwise affiliated in a that said has not colluded, conspired, or person, to put in a sham bid, or that such manner directly or indirectly, sought by with any person, to fix the bid price of ainst the City of Columbus, Ohio or any ad that all statements contained in said not directly or indirectly submitted this bid, ative thereto to any association or to any
		Signature of Affiant
Sworn to and subscribed before m	e this day of	, 20
Notar	ry public in and for	
(Seal)	(county)	(state)
My commission expires:		





November 9, 2020

## **City of Columbus**

Roblyn Slaughter 77 North Front Street 5<sup>th</sup> Floor Columbus, Ohio 43215

Re: City of Columbus Bucket Truck Bid

## Dear Roblyn:

Please find enclosed the Altec proposal packet covering the following aerial device models based on the specifications provided within the City of Columbus UTC RFP and also the additional specifications outlined in the Cost Proposal letter. Highlighted in <a href="red">red</a> below are the Altec models offered for consideration as part of the cost proposal response. The models in <a href="black">black</a> are overcenter aerial models available for quote upon request.

## 37' Specifications: Altec AT37G

- Option to make bucket a 2 man bucket with material handling load (cobra head jib) -Light bars/Strobe lights – red option for Traffic/Public Service: <u>Altec AT37M</u>
- Non-over center knuckle boom: <u>Altec L37M overcenter boom proposal available upon</u> request

## 40' Specifications: Altec AT40G

- Option to make bucket a 2 man bucket with material handling load (cobra head jib):
   Altec AT41M
- Non-over center knuckle boom: <u>Altec L39M overcenter boom proposal available upon</u> request

## 50' Specifications: Altec TA50

- Non-over center knuckle boom: Altec AN50P (Option AN50MH)

Per the City of Columbus Cost Proposal letter requirements outlined beyond the specifications:

For all vehicle types please provide pricing and configuration options for all engine types based upon the specifications listed, please submit each type of unit as described above and within the RFP as a separate cost proposal, making sure that each is clearly and easily identified. Each should be based upon your firm's proposal in response to the vehicle specifications (3.4 through 3.5.25.1.16) within the RFP document.

## 1. Altec AT37G Cost Proposal and Options

i. Steel/Stainless Steel with 4x2 F550 Diesel: \$129,520.00

ii. Aluminum: ADD \$4,390.00

iii. JEMS S Hybrid System: ADD \$31,184.00

iv. Inverter: ADD \$2,550.00

v. Trailer air brake package: ADD \$250.00

vi. Category C rating: Included vii. Bucket tilt system: Included

viii. 4x4 Extended Cab: ADD 3,610.00

ix. CNG: ADD \$22,000.00 x. Crew cab: ADD \$887.00

xi. Yellow Chassis: ADD \$2,500.00

xii. Elevator: N/A

## 2. Altec AT37M Cost Proposal and Options Attachment

i. Steel/Stainless Steel with 4x2 F550 Diesel: \$139,900.00

ii. Aluminum: ADD 4,390.00

iii. JEMS S Hybrid System: ADD \$31,184.00

iv. Inverter: ADD \$2,550.00

v. Trailer air brake package: ADD \$250.00

vi. Category C rating: Included vii. Bucket tilt system: Included

viii. 4x4 Extended Cab: ADD \$3,610.00

ix. CNG: ADD \$22,000.00
x. Crew cab: ADD \$887.00

xi. Yellow Chassis: ADD \$2,500.00

xii. Elevator: ADD \$3,500.00

## 3. Altec AT40G Cost Proposal and Options Attachment

i. Steel/Stainless Steel with 4x2 F550 Diesel: \$138,841.00

ii. Aluminum: ADD \$4,390.00

iii. JEMS S Hybrid System: ADD \$29,550.00

iv. Inverter: ADD \$2,550.00

v. Trailer air brake package: ADD \$250.00

vi. Category C rating: Included
vii. Bucket tilt system: Included
viii. Av4 Extended Cab: ADD \$2.61

viii. 4x4 Extended Cab: ADD \$3,610.00

ix. CNG: ADD\$22,000.00 x. Crew cab ADD: \$887.00

xi. Yellow Chassis: ADD \$2,500.00

xii. Elevator: N/A

## 4. Altec AT41M Cost Proposal and Options Attachment

i. Steel/Stainless Steel with 4x2 F550 Diesel: \$139,562.00

ii. Aluminum: ADD \$4,390.00

iii. JEMS S Hybrid System:iv. Inverter: ADD \$2,550.00

v. Trailer air brake package: ADD \$250.00

vi. Category C rating: Included vii. Bucket tilt system: Included

viii. 4x4 Extended Cab: ADD \$3,610.00

ix. CNG: ADD \$22,000.00 x. Crew cab: ADD \$887.00

xi. Yellow Chassis: ADD \$2,500.00

xii. Elevator: ADD \$3,500.00

## 5. Altec TA50M Cost Proposal and Options Attachment

i. Steel/Stainless Steel with 4x2 Freightliner M2-106: \$214,932.00

ii. Aluminum: ADD \$3,203.00

iii. JEMS LE Hybrid system: ADD \$54,696.78

iv. Inverter: ADD \$2,307.08

v. Trailer air brake package: Included

vi. Category C rating: Included vii. Bucket tilt system: Included

viii. 4x4 Extended cab: ADD \$12,670.00

ix. CNG: ADD \$43,826.00x. Crew cab: ADD \$3,015.00xi. Elevator: ADD \$5,600.00

## 6. Altec LR860E70

i. \$175,777.00

ii. Specs available upon request

## 7. Altec TA55

i. \$293,245.00

ii. Spec'd per previous order

#### 8. Altec TA60

i. \$305,497.00

ii. Spec'd per previous order

For any sections where multiple options or configurations are being presented, provide pricing options for each offering.

1. See options and pricing provided in each Altec Cost Proposal listed above

Also include with your vehicle proposal, a separate proposal outlining various training options for the City, as indicated in Section 3.8

- 1. Altec Sentry Training for operators: \$4,371.00 for up to 15 students.
- 2. AT37G/M Mechanic training: \$3,185.00 for up to 10 students.
- 3. AT40G Mechanic training: \$6,265.00 for up to 10 students.
- 4. AT41M Mechanic training: \$3,185.00 for up to 10 students.
- 5. TA50 Mechanic training: \$3,785.00 for up to 10 students.
- 6. JEMS LE Hybrid system maintenance training: \$6,665.00 2 days for up to 10 students.
- 7. JEMS S Hybrid system maintenance training: \$6,665.00 2 days for up to 10 students.

In addition to the training options cost, please provide costs for any inspection trips, if applicable listed within Section 3.7.

- 1. Annual PM Inspection for AT37G, AT37M, AT40G and AT41M is \$385.00/no travel
- 2. Annual PM Inspection for TA50 is \$600.00/no travel
- 3. DOT inspection for all quoted trucks is \$110.00
- 4. Mobile Service rate is \$132/hour.
- 5. Columbus Service Center rate is \$116/hour

## Service rates will need to be reviewed at end of 2021.

As part of your cost proposal, include how long your firm is able to hold the listed price and if any discounts would be applicable for multiple orders. Please be certain that any discount offers are clearly spelled out and easily understood

1. Aerial truck pricing and is approved for 2 years from starting date of contract.

Please note that Altec provides many different models and features intended to meet the wide range of needs across the City of Columbus departments and we are happy to provide additional details or quotes upon request. We greatly hope that this cost proposal response meets or exceeds your expectations and sincerely appreciate the time and consideration involved in evaluating our proposal. Should you have any questions or concerns regarding any material provided in this response, please don't hesitate to contact me at (614) 515-1995 or <a href="mailto:travis.founds@altec.com">travis.founds@altec.com</a>. Altec Industries would like to thank you for the opportunity and privilege to serve the City of Columbus and we look forward to your feedback!

Best Regards,

Travis Founds
Account Manager
Altec Industries



FOR NEW EQUIPMENT SALES, CALL 800.958.2555
TO SPEAK WITH AN ALTEC REPRESENTATIVE or visit us online at altec.com



## **LR7 SERIES**

## **FEATURES**

- Altec ISO-Grip® Control System
- Mounts On Below-FET Chassis
- Full Size Chip Box Provides Excellent Payload Capacity
- Insulating, ANSI Category C
- Insulated Lower Boom Insert
- Maintenance-Free Elbow
- Round Upper Boom Reduces Potential Boom Damage
- Compact 10 ft (3 m) Compensated Vertical Elevator (LR760-E70)
- Outrigger Boom Interlock System
- Outrigger Motion Alarm
- Back Up Alarm
- No Required Major Scheduled Maintenance
- Lifetime Platform Leveling System
- Lifetime Structural Warranty

## **OPTIONS**

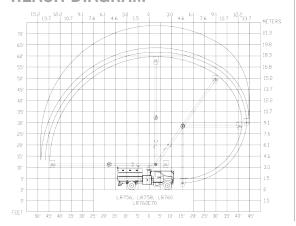
- Dual Hydraulic Tool Circuits
- Under-CDL Rear Mount Package
- Insulating, ANSI Category B
- Automatic Lower And Upper Boom Stow Systems



Recommended safety equipment, available through Altec Supply, include a platform liner, fall protection system, wheel chocks and outrigger pads.

CONFIGURATIONS	LR756 FM	LR756 RM	LR758 FM	LR758 RM	LR760 FM	LR760 RM	LR760-E70 (FM&
Ground to Bottom of Platform*	56.3 ft (17.2 m)	55.7 ft (17 m)	58.3 ft (17.8 m)	57.7 ft (17.6 m)	60.3 ft (18.4 m)	59.7 ft (18.2 m)	70.3 ft (21.4 m)
Working Height*	61.3 ft (18.7 m)	60.7 ft (18.5 m)	63.3 ft (19.3 m)	62.7 ft (19.1 m)	65.3 ft (19.9 m)	64.7 ft (19.7 m)	75.3 ft (23 m)
Maximum Reach from Centerline of Rotation	44.4 ft (13.5 m)	44.4 ft (13.5 m)	46.4 ft (14.2 m)	46.4 ft (14.2 m)	48.4 ft (14.8 m)	48.4 ft (14.8 m)	48.4 ft (14.8 m)
Maximum Reach Upper Boom, Non-Overcenter	41.6 ft (12.7 m)	41.6 ft (12.7 m)	43.6 ft (13.3 m)	42.8 ft (13 m)	44.8 ft (13.6 m)	44.8 ft (13.6 m)	44.8 ft (13.6 m)
Stowed Travel Height*	12.4 ft (3.8 m)	11.7 ft (3.6 m)	12.4 ft (3.8 m)	11.7 ft (3.6 m)	12.4 ft (3.8 m)	11.7 ft (3.6 m)	12.4 ft (3.8 m)
Upper Boom Isolation Gap	15.7 ft (4.8 m)	15.7 ft (4.8 m)	17.7 ft (5.4 m)	15.7 ft (4.8 m)	17.7 ft (5.4 m)	17.7 ft (5.4 m)	17.7 ft (5.4 m)
Lower Boom Isolation Gap	15 in (381 mm)						
Platform Capacity	400 lb (181.4 kg)						
Platform Dimensions	24 x 24 x 39 in (610 x 610 x 991 mm)	24 x 24 x 39 in (610 x 610 x 991 mm)	24 x 24 x 39 in (610 x 610 x 991 mm)	24 x 24 x 39 in (610 x 610 x 991 mm)	24 x 24 x 39 in (610 x 610 x 991 mm)	24 x 24 x 39 in (610 x 610 x 991 mm)	24 x 24 x 39 in (610 x 610 x 991 mm)
Upper Boom Articulation	-2 to 268°						
Lower Boom Articulation	0 to 125°						
Rotation	Continuous						

## **REACH DIAGRAM**





For more complete information on Altec products and services, visit us on the web at www.altec.com. Material and specifications are subject to change without notice. Featured units in photos may include optional features. Please contact an Altec representative for all available options. Altec® and the Altec logo are registered trademarks of Altec Inc. in the United States and various other countries and may not be used without permission.

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### **Exceptions and Clarifications**

Unless addressed below or in a separate attachment Altec will comply with the items in RFQ016083 and the included Addendas.

See additional attachments for more information on the scope of local service, local attention, and value that Altec can provide as a leading direct service provider in the industry.

- 1.6 For the requested units Altec will be able to provide the following:
  - a. 37ft Single Axle Bucket Truck
  - b. 40ft Single Axle Bucket Truck
  - c. 50ft Single Axle Bucket Truck
  - d. 55ft Single Axle Bucket Truck
  - e. 60ft Single Axle Bucket Truck
- 3.1.5 Altec will not preclude the City from buying same or similar items from other suppliers, however should the City elect to purchase competitors same or similar equipment already offered by Altec under the Universal Term Contract described herein all pricing will revert to Fair Market pricing in lieu of any established contract pricing
- 3.3.2 See Section Three document for total cost of ownership information.
- 3.4.6 Delivery will be estimated at no longer than 360 days from the receipt of purchase order, subject to chassis on time arrival date.
- 3.4.7 Altec is a direct service provider and does not utilize franchise dealers for parts, service, or production due a wide network of Altec service centers, mobile service technicians, and Altec Supply. See Section Two, Three, and Four documents for more information.
- 3.5.1 A minimum of 19,500lb GVW for the 37ft and 40ft buckets and a minimum of 33,000lb GVW for the 50ft, 55ft, and 60ft buckets will be provided once specification is provided for each truck.
- 3.5.1.9/10 Altec will not be providing single axle bucket trucks of the 70 foot or 75 foot variety.
- 3.5.3.1 Diesel is the recommended configuration. Hybrid options will need to be evaluated on a case by case basis depending on the operator requirements.
- 3.5.5 Stock weights provided below however this is subject to build requirements. Weight can be requested upon receipt of order and will be provided at drawing review.
  - A. See Section Four document for sample weight studies.
- 3.5.10.2 Build specific wiring diagrams will be provided upon delivery of each truck.
  - A. See Section Four document for sample drawings, 3D model available post award.
- 3.5.13.2 Body will be painted yellow NAV4015 unless stated otherwise upon receipt of specifications.
- 3.5.20.1 Altec can source a stainless steel body or provide an Altec manufactured aluminum body as an alternative.
- 3.5.20.41/3.5.20.5.1 Subject to chassis CA and wheelbase

- 3.5.21 May require alternate aerial model. I.E. AT37P or AT37G depending on operators requirements
- 3.5.23 Altec JEMS product if for unit operation only and not for driving of the chassis. Exact model to be determined based upon operator requirements.
- 3.5.25 May require alternate aerial model. I.E. AT37P or AT37G depending on operators requirements
- 3.5.25 46KV fully retracted not available on all models, may require minimum extension to meet dielectric rating
- 3.5.25 Additional option list provided in Section Four.
- 3.5.25.1 CNG subject to preferred OEM chassis vendor to supply information
- 3.5.25.1 CNG subject to final approval by Altec engineering
- 3.5.26.1 Altec will provide pricing consistent with Ohio State Contract pricing vs. MSRP pricing during specific unit quoting process.
- 3.6 Production schedule report will be provided at customer requested intervals from order to delivery.
- 3.8 See Section Four document for information on maintenance, safety, and operation trainings available. More training information available upon request for online resources as well as in person.
- 6.1/2 Warranty information in Section Three
- 6.2.2 Delayed warranty specific to OEM chassis vendor selected by City of Columbus
- 6.2.3 Altec is a full service provider and provides a large service network consisting of service centers, mobile service technicians, parts supplier, training opportunities, and web based resources. This includes several mobile service technicians and service centers dedicated to Ohio.
- 6.4 To be negotiated by the City of Columbus and the preferred OEM chassis supplier.







## COMPREHENSIVE FLEET MANAGEMENT SOLUTIONS

Altec Fleet Services provides proven fleet management solutions focusing on the objectives most important to you: Safety, Compliance, Performance and Economics. As the OEM, Altec has over 90 years of experience in engineering, manufacturing and servicing your critical assets. With this experience our team is able to ensure your fleet is performing to its maximum capacity.



## **EXTENDED WARRANTY**

Protect your investment and reduce unexpected expenses with customizable extended warranty coverage available up to 8 years on most models. Altec's Extended Warranty is available on both new and pre-owned equipment, administered and backed directly by the OEM with no deductibles or tapered coverages.



## PREPAID MAINTENANCE

Our prepaid maintenance program helps to reduce future operating and maintenance expenses. Customized planned maintenance solutions include industry required Preventive Maintenance, Dielectric Testing and DOT Certifications.



## PM COMPLIANCE

100% fleet compliance is the gold standard for fleet management. We understand this can be an overwhelming challenge. Let us help by leveraging our customizable solutions for chassis and upfitted equipment.



## **BREAKDOWN SERVICE**

24/7 support and emergency roadside assistance for your entire fleet. Includes daily updates throughout the repair. Use your preferred vendor network with no hidden fees, service upcharges or extra expenses.



## **TELEMATICS SOLUTIONS**

Altec is a proud user and reseller of leading telematics solutions. Backed by support and insight from Altec, this offering includes easy to install hardware for all types of vehicles and trailers.



## MAINTENANCE DATA MANAGEMENT

Altec's Maintenance Data Management (MDM) service provides daily reporting, analytics and recommendations for action. MDM proactively ensures the health of your fleet to prevent costly critical chassis failures. This feature is available with Altec's or your existing telematics solution.

# Altec Industries, Inc. Provides the Following Warranties to the Original Purchase of an Altec Aerial Device Or Digger Derrick



## **ALTEC AERIAL & DIGGER DERRICK UNITS**

STRUCTURAL

Aerials and derricks designed and manufactured by Altec Industries, Inc., are warranted to be free from defects in material part workmanship at the rime of initial delivery. This does not apply if the product has been modified by altered in any way anyone other than an approved Altec representative.

For so long as the initial purchaser owns the product, Altec will, at its option, repair or replace any of the following major components found by Altec to be structurally impaired due to defects in material or workmanship which existed at the time of initial delivery: booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, sub bases, turntables, and reel lifting arms. No charge for parts or labor shall be made for such repair or replacement when performed at an Altec service facility. This warranty does NOT cover wear components.

## APPLICABLE TO ALL ALTEC AERIAL & DIGGER DERRICK UNITS:

## COMPONENTS

For 1 year following initial delivery of the product, Altec will, at its option, repair or replace any part found by Altec to be defective in material or workmanship at the time of initial delivery. During the first 90 days following initial delivery, no charge for parts, labor or travel to the customer's location shall be made for such repair or replacement at the customer's location. During the remainder of such 1 year, no charge for parts or labor shall be made for such repair or replacement at an Altec service facility.

## **ELIGIBILITY**

- Warranty period begins at the time of initial delivery from Altec.
- All products must be properly installed, maintained, and serviced during the duration of the warranty coverage.
- This warranty is not transferable beyond the original owner.

#### **EXCLUSIONS**

This warranty does not cover:
(a) products which have not been operated and maintained in accordance with Altec operators and maintenance manuals, programs, and bulletins;

- (b) products which have not been mounted in accordance with Altec installation procedures;
- (c) products not manufactured by Altec which are supplied by Altec on special order;
- (d) products which are repaired without using original Altec parts; or
- (e) transportation or delivery to an Altec service facility or the customer's location.
- (f) replacement of rental charges, misuse, abuse, accidents, alteration or use in any way not recommended by Altec.

Any and all accessory items that are added to the body but not manufactured by Altec, such as inverters, compressors, liftgates, generators, corner mount cranes, etc., will be covered, if at all, by the accessory products manufacturer's warranty in effect at the time of delivery and will not be covered by any warranty extended by Altec.

This limited warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. Except as specified above, no associate, agent or representative of Altec is authorized to extend any warranty on Altec's behalf. Remedies under this limited warranty are expressly limited to the provision and installation of parts and labor, as specified above, and any claims for other loss or damages of any type (including, but not limited to, loss from failure of the product to operate for any period of time, other economic or moral loss, or direct, immediate, special, indirect, incidental or consequential damage) are expressly excluded.



749-01006 updated 11/2013

# Altec Industries, Inc. Provides the Following Warranties to the Original Purchase of an Altec Crane



## **ALTEC CRANES**

## STRUCTURAL

Altec Cranes designed and manufactured by Altec Industries, Inc., are warranted to be free from defects in material and workmanship at the time of initial delivery. This does not apply if the product has been modified or altered in any way by anyone other than an approved Altec representative.

For <u>5 years from the time of initial delivery</u>, or so long as the initial purchaser owns the product, whichever is shorter, Altec will, at its option, repair or replace any of the following major components found by Altec to be structurally impaired due to defects in material or workmanship which existed at the time of initial delivery: booms, hydraulic cylinder structures, outrigger weldments, pedestals, subbases, and turntables. No charge for parts or labor shall be made for such repair or replacement when performed at an Altec service facility. The limited warranty in this paragraph does NOT cover wear components.

## **APPLICABLE TO ALL ALTEC CRANES:**

#### **COMPONENTS**

For 1 year following initial delivery of the product, Altec will, at its option, repair or replace any part found by Altec to be defective in material or workmanship at the time of initial delivery. During the first 90 days following initial delivery, no charge for parts, labor or travel to the customer's location shall be made for such repair or replacement at the customer's location. During the remainder of such 1 year, no charge for parts or labor shall be made for such repair or replacement at an Altec service facility.

#### **ELIGIBILITY**

Warranty period begins at the time of initial delivery from Altec.

All products must be properly installed, maintained, and serviced during the duration of the warranty coverage.

This warranty is not transferable beyond the original owner.

#### **EXCLUSIONS**

This warranty does not cover:

- (a) products which have not been operated and maintained in accordance with Altec operators and maintenance manuals, programs, and bulletins;
- (b) products which have not been mounted in accordance with Altec installation procedures;
- (c) products not manufactured by Altec which are supplied by Altec on special order;
- (d) products which are repaired without using original Altec parts; or
- (e) transportation or delivery to an Altecservice facility or the customer's location.

Any and all accessory items that are added to the body but not manufactured by Altec, such as inverters, compressors, liftgates, generators, corner mount cranes, etc., will be covered, if at all, by the accessory products manufacturer's warranty in effect at the time of delivery and will not be covered by any warranty extended by Altec.

This limited warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any warranty of merchant-ability or fitness for a particular purpose.

Except as specified above, no associate, agent or representative of Altec is authorized to extend any warranty on Altec's behalf. Remedies under this limited warranty are expressly limited to the provision and installation of parts and labor, as specified above, and any claims for other loss or damages of any type (including, but not limited to, loss from failure of the product to operate for any period of time, other economic or moral loss, or direct, immediate, special, indirect, incidental or consequential damage) are expressly excluded.



749-01015 updated 11/2013

# Altec Industries, Inc. Provides the Following Warranties to the Original Purchase of a PM Crane



## **PM CRANES**

STRUCTURAL

PM Cranes designed and manufactured by PM Group SP A., are installed or distributed by Altec NM TELEC, are warranted to be see from defects in material and workmanship at the time of initial delivery. This does not apply the product has been modified or altered in any way by anyone other than an approved Altec representative.

For <u>3 years from the time of inital delivery</u>, or so long as the initial purchaser owns the product, whichever is shorter, Altec will, at its option, repair or replace any of the following major components found by Altec to be structurally impaired due to defects in material or workmanship which existed at the time of initial delivery: base, oscillating support (or rocker arm), outrigger booms, column, main boom, secondary boom (or first boom), telescopic booms (or hydraulic extensions), jib arm, first jib boom, and telescopic jib booms. No charge for parts or labor shall be made for such repair or replacement when performed at an Altec service facility. The limited warranty in this paragraph does not cover wear components.

## APPLICABLE TO ALL PM CRANES:

#### COMPONENTS

For 1 year following initial delivery of the product, Altec will, at its option, repair or replace any part found by Altec to be defective in material or workmanship at the time of initial delivery. During the first 90 days following initial delivery, no charge for parts, labor or travel to the customer's location shall be made for such repair or replacement at the customer's location. During the remainder of such 1 year, no charge for parts or labor shall be made for such repair or replacement at an Altec service facility.

## **ELIGIBILITY**

- Warranty period begins at the time of initial delivery from Altec.
- If initial delivery of this product by Altec is to someone other than an end-user (such as a Dealer or Distributor), the 1 year limited and 3 year structural warranties are to begin upon notification of end-user in-service or 1 year after the initial delivery, whichever date preceeds. Product sold to the end-user after 1 year from initial delivery will retain only the balance of the warranty remaining from the warranty initiation date.
- All products must be properly installed, maintained, and serviced during the duration of the warranty coverage.
- <sup>1</sup> This warranty is not transferable beyond the original owner.

#### **EXCLUSIONS**

This warranty does not cover:
(a) products which have not been operated and maintained in accordance with PM Group SP A. operators and maintenance manuals, programs, and bulletins;

- (b) products which have not been mounted in accordance with Alter installation procedures;
- (c) products not manufactured by Altec which are supplied by Altec on special order;
- (d) products which are repaired without using original Altec parts;
- (e) transportation or delivery to an Altec service facility or the customer's location;
- (f) product improvement modifications to items previously ordered, produced, delivered or under assembly; or
- (g) continuous duty situation (if applicable).

This limited warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. Except as specified above, no associate, agent or representative of Altec is authorized to extend any warranty on Altec's behalf. Remedies under this limited warranty are expressly limited to the provision and installation of parts and labor, as specified above, and any claims for other loss or damages of any type (including, but not limited to, loss from failure of the product to operate for any period of time, other economic or moral loss, or direct, immediate, special, indirect, incidental or consequential damage) are expressly excluded.



749-01029 updated 11/2013

# Altec Industries, Inc. Provides the Following Warranties to the Original Purchase of an Effer Crane



## **EFFER CRANES**

Effer Cranes designed and manufactured by Effer S.p.A., and installed or distributed by Altec NE LLC, are warranted to be free from defects in material and workmanship at the time of initial delivery. This does not apply if the product has been modified or altered in any way by anyone other than an approved Altec representative.

## **STRUCTURAL**

For 3 years from the time of inital delivery, or so long as the initial purchaser owns the product, whichever is shorter, Altec will, at its option, repair or replace any of the following major components found by Altec to be structurally impaired due to defects in material or workmanship which existed at the time of initial delivery: structural steel components, pins, and structural components of hydraulic cylinders. No charge for parts or labor shall be made for such repair or replace-ment when performed at an Altec service facility. The limited warranty in this paragraph does not cover wear components. Cranes working with hydraulic accessories, such as grapples, clamshells, augers, breakers, shears, etc. are not covered by the 3 year structural warranty.

## APPLICABLE TO ALL EFFER CRANES:

### COMPONENTS

For 1 year following initial delivery of the product, Altec will, at its option, repair or replace any part found by Altec to be defective in material or workmanship at the time of initial delivery. During the first 90 days following initial delivery, no charge for parts, labor or travel to the customer's location shall be made for such repair or replacement at the customer's location. During the remainder of such 1 year, no charge for parts or labor shall be made for such repair or replacement at an Altec service facility.

### **ELIGIBILITY**

Warranty period begins at the time of initial delivery from Altec.

If initial delivery of this product by Altec is to someone other than an end-user (such as a Dealer or Distributor), the 1 year limited and 3 year structural warranties are to begin upon notification of end-user in-service or 1 year after the initial delivery, whichever date preceeds. Product sold to the end-user after 1 year from initial delivery will retain only the balance of the warranty remaining from the warranty initiation date.

All products must be properly installed, maintained, and serviced during the duration of the warranty coverage.

This warranty is not transferable beyond the original owner.

#### **EXCLUSIONS**

This warranty does not cover:

- (a) products which have not been operated and maintained in accordance with Effer S.p.A. operators and maintenance manuals, programs, and bulletins;
- (b) products which have not been mounted in accordance with Altec installation procedures;
- (c) products not manufactured by Altec which are supplied by Altec on special order;
- (d) products which are repaired without using original Altec parts;
- (e) transportation or delivery to an Altec service facility or the customer's location;
- (f) product improvement modifications to items previously ordered, produced, delivered or under assembly; or
- (g) continuous duty situation (if applicable).

This limited warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. Except as specified above, no associate, agent or representative of Altec is authorized to extend any warranty on Altec's behalf. Remedies under this limited warranty are expressly limited to the provision and installation of parts and labor, as specified above, and any claims for other loss or damages of any type (including, but not limited to, loss from failure of the product to operate for any period of time, other economic or moral loss, or direct, immediate, special, indirect, incidental or consequential damage) are expressly excluded.



## UTILITY LINE BODIES

## STRUCTURAL

Altec warrants the structural components of the steel, aluminum and fiberglass utility line body for *10 years* following the original purchase. This does not apply if the body has been modified or altered in any way by anyone other than an approved Altec representative. This warranty does not extend to any custom equipment or finishes, decals, damages to vehicles or labor in connection with any of the above.

## SERVICE BODIES

## STRUCTURAL

Altec warrants the structural components of the steel, aluminum and fiberglass service body for *6 years* following the original purchase. This does not apply if the body has been modified or altered in any way by anyone other than an approved Altec representative. This warranty does not extend to any custom equipment or finishes, decals, damages to vehicles for labor in connection with any of the above.

## FORESTRY BODIES

#### STRUCTURAL

Altec warrants the structural components of the steel forestry body for 6 years following the original purchase. This does not apply if the body has been modified or altered in any way by anyone other than an approved Altec representative. This warranty does not extend to any custom equipment or finishes, decals, damages to vehicles or labor in connection with any of the above.

## APPLICABLE TO ALL ALTEC BODIES:

#### CORROSION

Altec warrants that its steel bodies will be free from rust-through for a period of 6 years from date of original purchase, under conditions of normal use and with regular maintenance. This warranty is void if the body has been used to transport corrosive materials.

#### COMPONENTS

Altec warrants that its bodies are free of defects in material and workmanship, under proper use, installation, application and maintenance, for 6 years from date of original purchase. This includes door hinges, door latches, and lock cylinders. Shelving is warranted to 250 pounds with a static load.

### FACTORY-APPLIED FINISH COATING

Altec warrants against defects in material and/or workmanship of all top coat finishes applied by Altec or an authorized Altec representative for 1 year from the date of purchase. This warranty does not apply to any body purchased in prime paint. Any lettering or decals required following repair or replacement will not be covered under this warranty.

#### **EL**IGIBILITY

- Warranty period begins at the time of initial delivery.
- All products must be properly installed, maintained, and serviced during the duration of the warranty coverage.
- This warranty is not transferable beyond the original owner.

## REPAIR/ REPLACEMENT

- Altec's obligation under these limited warranties is limited to repair, replacement, or credit, not to exceed Altec's suggested list price, at the option of Altec.
- Altec reserves the sole right to inspect any item claimed for warranty and decide the appropriate way to handle any and all claims, including the replacement or repair of the warranted part. No repair or replacement work commenced without prior written approval of an authorized Altec representative will be covered by these limited warranties.

#### **EXCLUSIONS**

This warranty does not cover:

- (a) products which have not been operated and maintained in accordance with Altec operators and maintenunce manuals, programs, and bulletins;
- (b) products which have not been mounted in accordance with Altec installation procedures;
- (c) products not manufactured by Altec which are supplied by Altec on special order;
- (d) products which are repaired without using original Altec parts;
- (e) transportation or delivery to an Altec service facility or the customer's location, replacement rental charges, misuse, abuse, accidents, alteration or use in any way not recommended by Altec;
- (f) improper mounting, overloading, and severe off-road applications that cause fatigue cracking in the body structure as a result of twisting loads induced in the body exceeding the factory allowance when used in conjunction with 1) cranes, aerial and derrick devices without subbases and two sets of outriggers or 2) other configurations/applications resulting in the same; or
- (g) cosmetic cracks in fiberglass body gelcoat.

Any and all accessory items that are added to the body but not manufactured by Altec, such as inverters, compressors, liftgates, generators, corner mount cranes, etc. will be covered, if at all, by the accessory products manufacturer's warranty in effect at the time of delivery and will not be covered by any warranty extended by Altec.



# Altec Industries, Inc. Provides the Following Warranties to the Original Purchase of Altec Hiline Equipment



EAR WARRANTY

## **ALTEC HILINE**

STRUCTURAL

Products designed and manufactured by Altec HiLine, LLC ("HiLine"), are warranted to be free from defects in material and workmanship at the time of initial delivery. This does not apply if the product has been modified or altered in any way by anyone other than an approved Altec representative.

For <u>5 years from the time of initial delivery</u>, or so long as the initial purchaser owns the product, whichever is shorter, HiLine will, at its option, repair or replace any of the following major components found by HiLine to be structurally impaired due to defects in material or workmanship, which existed at the time of initial delivery: booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, subbases, turntables. No charge for parts or labor shall be made for such repair or replacement when performed at an Altec service facility. The limited warranty in this paragraph does NOT cover wear components.

## APPLICABLE TO ALL ALTEC HILINE PRODUCTS:

## COMPONENTS

For 1 year, following initial delivery of the product, Altec HiLine will, at its option, repair or replace any part found by Altec HiLine to be defective in material or workmanship at the time of initial delivery. During the first (90) days following initial delivery, no charge for parts, labor or travel to the customer's location shall be made for such repair or replacement at the customer's location. During the remainder of such (1) year, no charge for parts or labor shall be made for such repair or replacement at an Altec service facility.

## **ELIGIBILITY**

- Warranty period begins on the time of initial delivery from Altec HiLine.
- All products must be properly installed, maintained, and serviced during the duration of the warranty coverage.
- <sup>1</sup> This warranty is not transferable beyond the original owner.

#### **EXCLUSIONS**

This warranty does not cover:
(a) products which have not been operated and maintained in accordance with Altec operators and maintenance manuals,

programs, and bulletins;

- (b) products which have not been mounted in accordance with Altec installation procedures;
- (c) products not manufactured by Altec which are supplied by Altec on special order;
- (d) products which are repaired without using original Altec parts;
- (e) transportation or delivery to an Altec service facility or the customer's location; or
- (f) replacement of rental charges, misuse, abuse, accidents, alteration or use in any way not recommended by Altec.

This limited warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. Except as specified above, no associate, agent or representative of Altec is authorized to extend any warranty on Altec's behalf. Remedies under this limited warranty are expressly limited to the provision and installation of parts and labor, as specified above, and any claims for other loss or damages of any type (including, but not limited to, loss from failure of the product to operate for any period of time, other economic or moral loss, or direct, immediate, special, indirect, incidental or consequential damage) are expressly excluded.



749-01016 updated 11/2013

# Altec Industries, Inc. Provides the Following Warranties to the Original Purchase of an Altec Chipper



## **ALTEC CHIPPERS**

STRUCTURAL

Chippers designed and manufactured by Altec Environmental Products, LLC ("AEP"), are warranted to be free from descriptions to the interval and workmanship at the time of initial delivery to the original retail purchase. This does not apply if the product has been modified or altered in any way by anyone other than an approved Altec representative.

For <u>1 year</u> from the date of shipment to the original retail purchaser or two-thousand hours of use, whichever comes first (or for a period of ninety (90) days following such shipment, where the equipment is used for lease, rental, or unsupervised demonstration), AEP will replace or repair, in its sole discretion and at a location it designates, any parts AEP determines, in its sole discretion, to have been defective in workmanship or material upon initial delivery.

## APPLICABLE TO ALL ALTEC CHIPPERS:

## **COMPONENTS**

Parts replaced in the warranty period will receive the balance of the original warranty. Replacement parts after the original warranty are warranted to be free of defects of material for 90 days following initial delivery, or the part will be repaired or replaced without labor coverage for removal or reinstallation.

#### LABOR

Labor expenses incurred during approved warranty work will be reimbursed by AEP only when AEP has authorized such work in advance, in writing, and then only to the extent stated in the written authorization. Such approved labor credit will be based on reasonable labor rates and factory replacement time. Technician or transport travel time will not be reimbursed unless pre-approved in writing by an authorized AEP representative.

#### **ELIGIBILITY**

- Warranty period begins on the date the equipment is sold and shipped from Altec Environmental Products or any other authorized Altec site.
- All products must be properly installed, maintained, and serviced during the duration of the warranty coverage.
- <sup>1</sup> This warranty is not transferable beyond the original owner.

#### **CLAIMS**

## Coverage under this warranty should include the following information:

- 1. Location where equipment was purchased.
- 2. Date of delivery.
- 3 Trailer serial number.
- 4. Chipper head serial number.
- 5. Chipper model number.
- 6. Engine make and serial number.
- 7. Length of time in use (number of hours shown).
- 8. Date of failure.
- 9. Nature of failure and events surrounding the failure.

## **EXCLUSIONS**

This warranty does not cover:
(a) equipment not operated and maintained in accordance with AEP operator's and maintenance manuals:

- (b) equipment and components not manufactured by AEP;
- (c) equipment damaged through abuse or accident;
- (d) equipment which has been subjected to unauthorized alteration or repair, or repaired using unauthorized parts;
- (e) equipment damaged through failure to replace normal wear items;

- (f) transportation or delivery to an AEP service facility or to the customer's location; or
- (g) the power unit for the equipment, which is warranted, if at all, by its manufacturer, according to its terms, and not by AEP.

This limited warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. Except as specified above, no associate, agent or representative of Altec is authorized to extend any warranty on Altec's behalf, Remedies under this limited warranty are expressly limited to the provision and installation of parts and labor, as specified above, and any claims for other loss or damages of any type (including, but not limited to, loss from failure of the product to operate for any period of time, other economic or moral loss, or direct, immediate, special, indirect, incidental or consequential damage) are expressly excluded, AEP reserves the right to supply remanufactured replacement parts as it deems appropriate.



749-01028 updated 11/2013

## **Altec Service Group Limited Warranty**

Products rebuilt or repaired by Altec Service Group are warranted to be free from defects in material and workmanship at the time of rebuild/repair subject to the following provisions:

Labor Coverage: For a period of six (6) months following the date of repair, no charge for labor shall be made for a repair or replacement by the Altec Service Group.

**Travel Coverage:** For a period of thirty (30) days following the date of repair, no charge for travel shall be made for a repair or replacement at the customers location by the Altec Service Group.

Parts Coverage: For a period of one (1) year following the date of repair, Altec will at its option, repair or replace any part found to be defective in material or workmanship at the time of repair.

This warranty is limited to parts that are repaired or replaced by the Altec Service Group. Authorization and coverage of this warranty will be at the discretion of the Altec Service Group.

Accessory items are excluded from this warranty and will be warranted from the original manufacturer.

This limited warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. Except as specified above, no associate, agent or representative of Altec is authorized to extend any warranty on Altec's behalf. Remedies under this limited warranty are expressly limited to the provision and installation of parts and labor, as specified above, and any claims for other loss or damages of any type (including, but not limited to, loss from failure of the product to operate for any period of time, other economic or moral loss, or direct, immediate, special, indirect, incidental or consequential damage) are expressly excluded.







## **FLEET SERVICES**



#### NEW EQUIPMENT EXTENDED WARRANTY

Protect your investment and reduce unexpected expenses with Altec's customizable Extended Warranty coverage. Available for up to 8 years on most models, an Extended Warranty is an extension of Altec's Limited Warranty. Our Extended Warranty plan protects you from the repair costs associated with defects in materials and workmanship after the standard warranty expires.

## ALTEC EXTENDED WARRANTY MATERIALS AND EXPENSES

The Materials coverage option is our most basic Extended Warranty package and includes any parts needed to complete the repair of a covered Altec component. These parts can be shipped directly to the customer or installed by an Altec service technician. If applicable, the customer would only be responsible for labor and travel.

## ALTEC EXTENDED WARRANTY LABOR, MATERIALS AND EXPENSES

For many businesses, simplicity is key when dealing with maintenance and repairs. With this warranty package, Altec assumes the responsibility of parts and labor, allowing you to focus on what matters most, reducing downtime and getting back to work. With the use of our OEM national service network and genuine OEM parts, our Extended Warranty plans help you level costs and minimize risks.

## ALTEC EXTENDED WARRANTY TRAVEL, LABOR, MATERIALS AND EXPENSES

The Materials, Labor & Travel option is our most extensive Extended Warranty package. This plan provides for covered components, labor, and any necessary travel for our mobile service technicians to perform the repair at your location. When it comes to unforeseen costs, this package is ideal for those who want to have all their bases covered.

## ADVANTAGES OF GETTING AN ALTEC EXTENDED WARRANTY

- »Coverage is 100% backed by the original equipment manufacturer
- »Peace of mind that your investment will be protected beyond the time-frame of Altee's Limited Warranty
- » Protection against repair costs of premature component failures
- »Coverage is available throughout Altec's nationwide footprint. Take your unit to any Altec Service Center or have an Altec Mobile Service Technician dispatched to your location
- » Coverage for all models of Altec manufactured equipment
- » Different levels of coverage available including materials, labor and travel based on your needs
- » No deductibles, tapering coverage or hidden costs

## ITEMS COVERED BY ALTEC WARRANTY INCLUDE

Hydraulic Coverage – PTO, Hydraulic Pump, Outrigger Valves, Plumbing and Cylinders

## Hydraulic Components Related to Boom Functions -

Unit Control Valves, Hoses and Fittings, Hydraulic Cylinders, Altec Branded Components and Hydraulic Tool Valves

**Electrical Coverage** – Altec Power Distribution Modules, Altec Branded Back-Up Cameras, Switches, Relays, Battery Separators, Driver Boards, Emergency Lowering System, Engine Start/Stop System, Outrigger Interlock System, Altec Branded/Labeled Components, Remote Control Systems (excludes batteries)

## ITEMS NOT COVERED INCLUDE

- Mud Flaps
- Wheel Chocks
- · Fire Extinguishers
- Tamps, Impacts, Drills, etc.
- Tool Holders, Platform Organization Items
- Inverters
- Capstans
- Lights and Bulbs

(Non-Altec Branded)

- Batteries
- Back Up Cameras (Non-Altec Branded)
- Generators
- Chassis Mounted Winches
- Winch Lines

The list provided is for reference and is not all-inclusive. Please contact an Altec Fleet Services representative with specific questions.

## **Preventive Maintenance and Inspection Checklist**

Vehicle	e No	_ Location		Date			
Service Request# Model#					_ Serial#		
Perforr		airs, and lubric	ation ac	cording to Al	tec specifications in the Maintenance		
If perfo		alendar based			mended hourly maintenance intervals. recommended monthly intervals. The		
Interv F 1	als Prior to placing the unit in service ,000 PTO hours/1 year	85 PTO 2,000 PT		month s/2 years	500 PTO hours/6 months Required maintenance		
	<b>ols</b> = Okay or completed Unsafe to operate	C = Correcte N/A = Not ap			R = Repair or replacement required		
	Pric	or to Placing	t ne Uni	t in Service			
	Perform the Preoperational Inspection		Rotati	n Bearing			
	(refer to the Operator's Manual)			Turntable tilt i	measurement <sup>2</sup> :		
Hydrau	lic Reservoir and System						
	Check oil and collect oil sample for an	alysis¹	1				
		85 PTO Ho	ou rs/1 M onth				
	Perform the Preoperational Inspection		Gener	al Condition			
	(refer to the Operator's Manual)			Clean debris from around articulating arm,			
Hydrau	lic Reservoir		1	turntable, e	_		
	Oil level		Lubric	ation			
Fiberg	lass			Rotation bearing ball race			
	Upper boom (condition, clean)			Elevator cylin	der pivot bearings		
	Arm and link (condition, clean)			Rotation pinion and rotation bearing gear teeth			
Hydrau	lic System			Outrigger inner leg out surface			
	Pedestal, no leaks			Arm cylinder			
	Turntable, no leaks			Lift cylinder p	ivot bearings		
				Gearbox			
		500 PTO Hot	u rs/6 M	onths			
	Perform the 85 hour/1 month inspection	on		Drive line			
РТО	-		Batter	/			
	Operation, noise level, no leaks			Mounting (vei	rtically and horizontally secure)		
	Mounting bolts tight			Electrical con	nection (secure, no corrosion)		
Supple	mental Brake Lock			Routing (cabl	es do not cross, fuses secure)		
	Operation (holding, no bleed-off)		All Ele	ctrical			
Pump				Components	and wiring (clearances, tightness, support,		
	Noise level		1	no insulatio	on damage)		
	No leaks			Connections	(secure, no corrosion)		
	Mounting bolts secure		Unit M	ounting			

Pedestal mounting (welds intact, no cracks, bolts secure)

4-bolt flange bolts secure

	Boom rest (welds intact, no deformation or cracks)		Rotation bearing inspection and measurement [after
	,		0.050" (1.27 mm) increased wear from initial
Lhadron	Body mounting (bolts secure, weld intact, no cracks)	<del>-</del>   ' '	
Hydrau	lic Reservoir		measurement] <sup>2</sup>
	Mounting (cap screws secure, welds intact, no cracks)		Rotation bearing cap screw visual inspection
	No leaks		Gearbox mounting cap screw visual inspection
	Shutoff valve fully open		Motor mounting bolts secure
	Drain water from bottom		Operation (smoothness, noise level)
Filters			Eccentric ring lock (in place, secure)
	Change return line filter		Gearbox internal lost motion
Outrig	gers	Articul	ating Arm Cylinder
	Mounting (welds intact, no deformation or cracks)		Operation, no leaks
	Motion alarm		Holding valves (operation, no leaks)
	Aerial device/outriggers selector valve		Chromed rod condition
	(operation, no leaks)		Trunnion pins, trunnion cap plates in place
	Interlock system operation	Articul	ating Arm
	Operation (holding without drift, no leaks)		Riser (welds intact, deformation or cracks)
	Structures (welds intact, no deformation or cracks)		Link (welds intact, deformation or cracks)
	Pins and retainers secure, retaining cap screws secure		Arm (welds intact, deformation or cracks)
	Hoses and lines (routing, condition)		Hydraulic leveling cylinder, operation
	Placards (condition, readable)		Arm and link pivot pins and retainers secure
	Control valves (operation, no leaks)		Fiberglass fasteners secure
Hvdrau	lic System Pressure	Lift Cylinder	
,	Main system pressure	,	Pivot bearings secure
	Tool system pressure		Pin retainers secure
Lower	Control Station		Operation, no leaks
	Placards (condition, readable)		Holding valves (operation, no leaks)
	Lower control valve (operation, no leaks)		Chromed rod condition
	DC pump switch, operation	Lower	
	Station selector valve (operation, no leaks)	201101	Structure (welds intact, no deformation or cracks)
Pedest	,		Lift cylinder pivot pin and retainers secure
i cucst	Structure (welds intact, no deformation or cracks)		Remove any debris from inside lower boom
	,		
	Hoses and lines (routing, condition)		Covers in place
<b>-</b>	No leaks		Slide pad bearings cap screws secure
Turnta			Lower boom pin
	Structure (welds intact, no deformation or cracks)		Extension cylinder mounting cap screws secure
	Arm pin and retainer secure		Lower platform leveling cylinder mounting pins
	Link pin and retainer secure		Boom slide blocks (cap screws secure, wear)
	Hoses and lines (routing, condition, no leaks)	Upper	
	Articulating arm cylinder pivot pin and retainer secure		Structure (welds intact, no deformation or cracks
	Rotary joint mounting bolts secure		Fiberglass (condition, clean)
	Slip ring mounting bolts secure		Hose assembly (no leaks, routings, condition)
Rotatio	n Bearing and Gearbox		No leaks
	No leaks		Covers in place
	Pinion gear teeth		Upper boom stow lock down strap
	Rotation bearing gear teeth condition		Boom tip fasteners secure
			I.

Upper	Boom Extension Cylinder	Upper	Controls Station
	Trunnion pins secure		Operation (metering, proper direction, no leaks)
	Hoses and lines, mounting		Mechanical linkage (operation, adjustment)
	Operation, no leaks		Emergency stop operation
	Holding valves (operation, no leaks)		Interlock linkage adjustment
	Boom tip cover (condition, in place)		Rubber boot
	Remove any debris from inside upper boom		Blocking section of upper control valve (operation, leaks
Paralle	I Links and Elevator Arms		Placards (condition, readable)
	Structure (welds intact, no deformation or cracks)	Tool C	, , , , , , , , , , , , , , , , , , , ,
	Pivot pin (retainer condition, no deformation)		Quick disconnects (condition, operation, no leaks)
Boom			Quick disconnect dust caps (condition, in place)
	Platform pin		Operation
	Hydraulic leveling cylinder (operation, mounting)	Materi	al Handling Package
	Boom tip weldment (welds intact, no deformation		Bracket and mounting pins, condition
	or cracks)		Sheave (condition, turns freely)
Platfor	, , , , , , , , , , , , , , , , , , ,		Sheave pin and retainer secure
	Mounting secure (bracket, pins and fasteners)		Placards (condition, readable)
	Platform mounting bolts secure		Jib operation (tilt and extension)
	Lanyard attachment secure		Jib cylinders (condition, no leaks, chromed rod)
	Platform (condition, clean)		Winch mounting (bolts secure, welds intact, no
	Liner (condition, clean, fasteners secure)		deformation or cracks)
	Placards (condition, readable)		Winch motor mounting bolts secure
	Covers in place		Winch brake operation
	Hoses (routing, not pinched or pulled, no leaks)		Gearbox outboard bearing secure
	Fall arrest system (condition, in place)		Winch line (condition, anchor point secure)
Platfor	m Rotator		Winch cover (condition, in place)
	Operation		Control valve (condition, operation, no leaks)
	Fasteners secure		Hoses (routing, condition, no leaks)
	Rotary actuator (condition, no leaks)	Lubric	
Platfor	m Tilt System		Interlock linkage
	Leaks		Platform rotator spherical bearings
	Operation		Upper control mechanical linkage
	Tilt bracket (welds intact, no deformation or cracks)		Outrigger valve handle linkage
	Tilt bracket covers		Platform mounting pin and boss
Platfor	m Elevator System		Rotation gearbox output shaft upper bearing
	Mounting secure		Rotation gearbox lubricant level
	Platform elevator cylinder (condition, no leaks)		Winch gearbox oil level
	Operation		Platform elevator slide rods
	Carriage weldment (welds intact, no deformation or cracks)		Valve spools and manual handle shafts and linkage
	Required Maintenance		
Annua	Testing	(. toga	Confirmation test of single handle control(s),
	Dielectric test unit		if equipped
	Dielectric test platform liner		Atmospheric vents (visually inspect all, verify
1	Diologica tool platform infor		Table   Total   Todally Hopotical, Volly

	1,000 PTO H	ours/1	Year
	Perform the 500 hour/6 month inspection	Rotati	n Bearing and Rotation Gearbox
Chassi	Chassi s Underside		Annual torque inspections
	Hoses (routing, condition, no leaks)	Fiberg	lass
	Exhaust shields		Seal between insulator and steel tubes
Hydrau	lic Reservoir and System		Insulator is clean and waxed
	Drain water from bottom of reservoir		Insulator bond
	Clean suction filter		Seal between steel to fiberglass connections on link(s)
	Change filler breather cap		Each link is clean and waxed
	Reservoir cover gasket condition	Link bonds	
	Collect oil sample for analysis¹	Lubric	ation
			Hose carrier assembly
	2,000 PTO H	ours/2	Years
	Perform the 1,000 hour/1 year inspection	Rotati	n Bearing
Hydrau	lic Reservoir and System		Rotation bearing inspection and measurement [before
	Flush hydraulic system		0.050" (1.27 mm) increased wear from initial
	Clean inside of reservoir		measurement] <sup>2</sup>
	Clean suction filter	Lubrication	
	Change hydraulic oil		Pump input shaft splines
			Change winch gearbox oil

<sup>&</sup>lt;sup>1</sup> Periodic laboratory analysis is the most accurate method of determining the condition of the hydraulic oil and when it should be changed. If laboratory analysis is used, take a baseline sample. Compare future lab tests on subsequent samples to the original to establish a trend.

Comments			

<sup>&</sup>lt;sup>2</sup> Initially measure turntable tilt as a baseline. Check rotation bearing wear every 2 years until it measures 0.050" (1.27 mm) increased wear from initial measurement. After reaching 0.050" (1.27 mm) increased wear, measure every 6 months. Refer to the Maintenance Manual for the procedure.

# 3.3.2.1 Section Two - Total Cost of Ownership, to Include Maintenance and Operation Costs

## Altec Response in **BOLD**

- What are the repair and maintenance requirements of the Bucket Trucks?
  - See Appendix "Preventative Maintenance Checklist"
- Do you offer repair and maintenance services?
  - Altec has dedicated mobile service technicians across entire state with over 200 nationwide.
  - On-line ordering is available at www.altec.com/altec-connect/. Altec Connect
    provides easy access to ordering. Tools and Accessories or Replacement Parts, as
    well as detailed manuals and parts information for your units. Altec is committed to
    bringing you the services and products you need. For additional assistance with
    Parts, Tools, & Accessories, Shop Service, Mobile Service, or Technical Support, call 1877-GO AITEC (1-877-462-5832).
  - Technical support for mechanics and in-field service. Calling 877-GO-AITEC and pressing option #4 connects you directly to the Altec Technical Support team staffed with experienced service technicians to help diagnos problems and make repair suggestions
- Are there uses, instances, or circumstances that would significantly reduce the useful life of this product?
  - In-service for every new unit delivered is provided by an Altec associate. This
    includes (at a minimum) a basic operations video for each model as well as hands on
    training with the crew.
  - The in-service is complimentary and available multiple times, if necessary, as units move from crew to crew.
  - Altec offers Sentry Training courses for individuals and "train the trainer courses" for equipment operation and certification.
- What do your warranties cover?

See Appendix "Altec Warranty"

- Is the warranty provided by you, or is it an aftermarket warranty?
  - Altec provides a lifetime structural warranty on unit and body, for first owner.
  - Warranty or service issues are not divided among manufacturers and distributors where the customer's best interests can lose their priority.
- Are there any circumstances that would void the warranty?

See Appendix "Altec Warranty"

What is the procedure for handling defect and loss claims?

See Appendix "Altec Warranty"

# 3.3.2 Section Two - Total Cost of Ownership, to Include Maintenance and Operation Costs

	\$7,543	\$9,450			
10	\$764	\$1,050			
9	\$753	\$1,050			
8	\$762	\$1,050			
7	\$751	\$1,050			
6	\$760	\$1,050			
5	\$749	\$1,050			
4	\$758	\$1,050			
3	\$747	\$1,050			
2	\$756	\$1,050			
1	\$745	\$0*			
Year	hydraulic filter and typical grease/fluid / dielectric / DOT	Labor, Material			
	Scheduled Preventive Maintenance unit inspection. I.E.	UnScheduled Maintenance 1.E. Hydraulic oil/ hydraulic fittings leaks/fitment issue:			
AT37G	10 Years TOC				

Year 1\* Unscheduled covered by standard warranty

Scheduled Maintenance is the total cost of the following: Preventitive maintenance, DOT and Dielectric Test. Average cost is \$455-PM \$104-DOT \$206-Dielectric Test

Average projection for unplanned repairs, not related to scheduled, no escalation or inflation considered. Scheduled Maintenance for years 2-10 includes price escalation etc.

T41/TA50/55/60	10 Years TOC				
Year	Scheduled Preventive Maintenance unit inspection. I.E. hydraulic filter and typical grease/fluid/dielectric/DOT	UnScheduled Maintenance I.E. Hydraulic oil/ hydraulic fittings leaks/fitment issues Labor, Material			
1	\$995	\$0*			
2	\$1,006	\$1,212			
3	\$997	\$1,212			
4	\$1,008	\$1,212			
5	\$999	\$1,212			
6	\$1,010	\$1,212			
7	\$1,001	\$1,212			
8	\$1,012	\$1,212			
9	\$1,003	\$1,212			
10	\$1,014	\$1,212			
	\$10,043	\$10,9			

Year 1\* Unscheduled covered by standard warranty

Scheduled Maintenance is the total cost of the following: Preventitive maintenance, DOT and Dielectric Test. Average cost is \$506-PM \$104-DOT \$206-Dielectric Test

Average projection for unplanned repairs ,not related to scheduled, no escalation or inflation considered. Scheduled Maintenance for years 2-10 includes price escalation etc.

## 3.3.3 Section Three - Past Performance (20 Points)

- 3.3.3.1 The past performance of Offeror as reflected by evaluations of previous clients of the Offeror with respect to customer satisfaction (Appendix A).
- 1) Service History: Offeror shall provide a brief history of its provision of similar items to organizations of similar size and/or complexity. At a minimum, please answer the following questions.
  - How long have you manufactured or distributed and/or serviced Bucket Trucks?
     Altec has continually been in business since 1929.
  - What clients and applications similar to the City's have you served?

## See attached professional reference documents

#### Addenda 9

## City of Columbus, Department of Finance and Management Non-CDL, Diesel and CNG Bucket Trucks UTC Specifications

What is repeat business rate for Bucket Trucks clients?

## **Greater than 90%**

2) Professional References: The Offeror must provide professional references. A minimum of three (3) references are required. References should consist of projects of a similar scope, complexity and cost. Please include the name of the individual, the name and location of entity, an e-mail address and phone number. It is the full intent of the City to speak with multiple references in-depth about their experiences with your company and its products. Offerors should contact references with the following questions. Please include in your response the answers from the reference to the following questions:

# See Section Three document for customer survey responses. \*Cleveland Public Power did not provide answers to the below questions.

- Did the purchase meet your customer expectations? How or how not?
- Did the vendor show the ability to maintain schedules and meet deadlines?
- What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?
- Please explain the total cost of ownership of the Bucket Trucks.
- Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?

## APPENDIX A

## PERFORMANCE QUESTIONNAIRE – **BUCKET TRUCKS**

То:	LOWNTE WALLS
	(Name of person completing survey)
Phone	313-646-044/ Fax:
Subjec	t: Past Performance Survey of: ALTEC
	(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)	8
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

\_\_ 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).

## Did the purchase meet your customer expectations? How or how not?

I have personally purchased close to a Million dollars' worth of bucket trucks from Altec in the last ten years. My expectations have always been met with professionalism and respect from every Altec team member I have had interaction with. They have accommodated my need with every order, they fabricated boxes, reels, ladder racks, pole racks, extra lights, and pretty much any specialized item I requested.

Did the vendor show the ability to maintain schedules and meet deadlines?

Altec stayed on track a very high percentage of the time with my orders, if they couldn't meet a time I was informed right away and it really never seemed to be a problem much.

 What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?

I have worked with Travis Founds the last 4-5 years Travis is professional and respectful he has went out of his way to update quotes and meet my many other needs. Prior to that I dealt with Chuck Shivley and I feel the same about him. I currently have a large Digger Derrick in the process of being built by Altec, if I wasn't comfortable with Altec I could go anywhere else. We purchase every truck on state term pricing so I pick the manufacture of the bucket trucks based on the feedback of the 35 Lineman that use the trucks everyday, Altec is who they liked the best.

• Please explain the total cost of ownership of the Bucket Trucks.

Total cost?? It is a necessary piece of equipment for us here at the City of Hamilton. We have had good luck with Altec trucks as a whole.

• Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?

I do not believe so, and if there was Altec (Travis Founds ) would work with you even after your requested order to get your answers or adjustments you are requiring and try and satisfy your needs.







## Joe Kedanis

From: Travis Founds

**Sent:** Friday, August 28, 2020 7:53 AM

To: Joe Kedanis

**Subject:** FW: [External Email] Customer Survey **Attachments:** Performance Questionnaire.pdf

## Here is City of Cincinnati reference

#### **Travis Founds**

Account Manager Altec 5201 West 84<sup>TH</sup> Street Indianapolis, Indiana 46268

tel: 614-515-1995 fax: 317-872-2531

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www.altec.com

From: Taylor, Angel <Angel.Taylor@cincinnati-oh.gov>

**Sent:** Tuesday, August 25, 2020 3:52 PM **To:** Travis Founds < Travis. Founds@altec.com> **Subject:** RE: [External Email] Customer Survey

[EXTERNAL]

## Travis,

Attached is the questionnaire they needed completed. Below are the answers to the additional questions they asked as well. The only one I couldn't answer was the total cost of ownership of the trucks because Dave Cavanaugh is out on medical leave right now and he would be the one to get me that information. I'm so sorry. If its of dire importance though, let me know and I will get you something.

• Did the purchase meet your customer expectations? How or how not?

Every purchase from Altec has met or exceeded our expectations, both in safety and quality, as well as meeting our financial constraints. They have worked with us closely to help us stay within our budget constraints, yet consistently purchase models that go above and beyond our needs so that we can fulfill our citizens' requests in a timely manner.

• Did the vendor show the ability to maintain schedules and meet deadlines?

There has only been one instance where our vehicle fell behind in production time, due to no fault of Altec. However, they kept us continuously updated about production and delivery times and we were still able to meet our expected goals.

• What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?

We have absolutely no hesitation hiring Altec, or Travis Founds, again. Both Altec, and Travis, have shown an extreme amount of detail in dealing with our needs and concerns.

- Please explain the total cost of ownership of the Bucket Trucks.
- Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?

Outside of the main vehicle configuration, we are concerned about safety and training on the safety aspects of the vehicle and proper use of the vehicle. Knowing beforehand what training is available is extremely helpful but Altec provides operator training at our facility.

Please let me know if this will suffice or if you need something further. I'll be glad to help in any way I can. Thanks so much!

Angel Taylor Administrative Specialist

Department of Public Services Fleet Procurement (O) 513-352-5450 angel.taylor@cincinnati-oh.gov

**From:** Travis Founds < <a href="mailto:Travis.Founds@altec.com">Travis.Founds@altec.com</a>>

Sent: Monday, August 24, 2020 4:08 PM

To: Taylor, Angel < Angel. Taylor@cincinnati-oh.gov>

Subject: [External Email] Customer Survey

**External Email Communication** 

Hi Angel,

Thank for participating in this survey for the City of Columbus Contract Bid. Attached is the questionnaire but they would also like the following questions answered.

- Did the purchase meet your customer expectations? How or how not?
- Did the vendor show the ability to maintain schedules and meet deadlines?
- What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?
- Please explain the total cost of ownership of the Bucket Trucks.

• Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?

Please don't hesitate to contact me with any questions. Thank you again!

Travis

**Travis Founds** 

Account Manager Altec 5201 West 84<sup>TH</sup> Street Indianapolis, Indiana 46268

tel: 614-515-1995 fax: 317-872-2531

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@AltecInc: Follow us on Twitter

www.altec.com

## APPENDIX A

## PERFORMANCE QUESTIONNAIRE – BUCKET TRUCKS

Го:	Angel Taylor (Name of person completing survey)
Phone:	.513-352-5450 Fax:513-352-5497
Subject	Past Performance Survey of: .Altec Inc  (Name of Company)  .Travis Founds  (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	(1-10)	
	client and citizens		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	(1-10)	
!	direction)		10
8	Your comfort level in hiring the firm/individual again	(1-10)	
	based on performance		10

Angel Taylor 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).

Archived: Wednesday, September 2, 2020 2:10:32 PM

From: Travis Founds

**Sent:** Fri, 28 Aug 2020 11:54:25 +0000Authentication

To: Joe Kedanis

Subject: FW: Customer Survey

**Sensitivity:** Normal **Attachments:** 

Customer Survey.pdf

City of Westerville Reference

## **Travis Founds**

Account Manager Altec 5201 West 84<sup>TH</sup> Street Indianapolis, Indiana 46268 tel: 614-515-1995

fax: 317-872-2531

## For updates:

Facebook.com/Altec: Like us on Facebook

@Altecinc: Follow us on Twitter

www.altec.com

From: Timothy Dobbins <a href="mailto:timothy.dobbins@westerville.org">timothy.dobbins@westerville.org</a>

Sent: Monday, August 24, 2020 3:07 PM

To: Travis Founds < Travis. Founds@altec.com>

**Subject:** Re: Customer Survey

## [EXTERNAL]

- Did the purchase meet your customer expectations? How or how not?
- -Yes, it did. We have had a couple of things we wanted to be changed after the fact and Travis ( Altec ) was more than willing to take care of it.
- Did the vendor show the ability to maintain schedules and meet deadlines?
  - Travis ( Altec ) has always delivered and keeps us well informed if something changes.
- What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?
- I would have no trouble hiring Altec for any project. Travis and the staff have always been great to work with and go above and beyond to make sure things are taken care of.
- Please explain the total cost of ownership of the Bucket Trucks.
- The maintenance of the trucks is average or below. They are quick to cover any warranty issues and their mobile unit has made it really nice to fix the small items/problems that come up. ( Dollar amount I'd have to check with finance )

- Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?
- No, I feel like any concerns that arise during or shortly after the build, Altec will assist you in the best way they can with fixing the problem.

Tim Dobbins
Electric Field Superintendent
Westerville Electric Division
Phone (614) 901-6706

On Mon, Aug 24, 2020 at 2:16 PM Travis Founds < Travis.Founds@altec.com > wrote:

Hi Tim,

I appreciate you filling out the attached survey for the City of Columbus Contract Bid. In addition to the attachment they want us to ask the following questions.

- Did the purchase meet your customer expectations? How or how not?
- Did the vendor show the ability to maintain schedules and meet deadlines?
- What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?
- Please explain the total cost of ownership of the Bucket Trucks.
- Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?

If you have any questions please don't hesitate to contact me. Thank you again for participating in this survey!

Travis

Travis Founds
Account Manager
Altec
5201 West 84<sup>TH</sup> Street

Indianapolis, Indiana 46268

tel: 614-515-1995

fax: 317-872-2531

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#### APPENDIX A

## PERFORMANCE QUESTIONNAIRE – **BUCKET TRUCKS**

Го:	Tim Dobbins (Name of person completing sun	vey)
Phone:	740.868.7158	Fax:
Subject	: Past Performance Survey of:	.Altec(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	(1-10)	-
	client and citizens		
3	Ability to maintain schedules and meet deadlines	(1-10)	10
4	Ability to increase value	(1-10)	
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	(1-10)	
	direction)		10
8	Your comfort level in hiring the firm/individual again	(1-10)	
	based on performance		10

Tim Dobbins	Printed Name (of Evaluator)
Tim Dobbins	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 A

## PERFORMANCE QUESTIONNAIRE – **BUCKET TRUCKS**

To:	Tope Barrows
	(Name of person completing survey)
Phone:	(Name of person completing survey) 216-420-7704 Fax: 216-651-4151
	t: Past Performance Survey of: (Name of Company)
v	(Name of Company) Flunds
	(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	(1-10)	0
L	client and citizens		9
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)	e
6	Ability to identify and minimize the users risk	(1-10)	10
7	Leadership ability (minimize the need of owner/client	(1-10)	10
	direction)	Í	10
8	Your comfort level in hiring the firm/individual again	(1-10)	100
	based on performance		10

Printed Name (of Evaluator)
Signature (of Evaluator)

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





August 10, 2020

## **ADDENDUM 1**

RE: Bid RFQ016083/ Bucket Trucks UTC

OPENS: September 3, 2020 at 11:00 a.m.

SUBJECT: Questions submitted to Vendor Services Q&A

In response to questions submitted to the vendor portal website during the Question period ending Monday, August 3, 2020, please see the attached revised bid packet for RFQ016083.

Answers are attached.

Further questions, please contact Roblyn Slaughter at rslaughter@columbus.gov.

Sincerely,

Roblyn Slaughter

Senior Procurement Specialist

Roblyn Slaughter

C: file

Number	Question	Answer
1	Will a Front mounted, top mounted telescopic boom with end hung bucket/platform be allowed for consideration? Similar to that of a Fire apparatus, point and shoot?	No – City of Columbus do not require any of this.
2	Is diesel chassis preferred on single axle chassis where applicable?	All bucket trucks will be a single axle.
3	CNG chassis, CNG fuel cells may affect weight distribution on single axle. Would tandem axle be acceptable where applicable?	No tandems – the single axle should be effective for the distribution of the CNG fuel cells.
4	What is the preference for CNG fuel cell mounting location?	The City of Columbus prescribes to the vendor's best location for proper weight distribution of the CNG fuel cells. Typically, these have been located immediately behind the cab.
5	Extended Cab, Crew Cab and 4-wheel drive options create different weight scenarios, dimensions scenarios and chassis scenarios, will those options be required for considerations?	Yes
6	Will deviations and exceptions be acceptable where applicable?	Yes if it's an approved equal.
7	Will Service/ Utility Bodies be required on all units requested?	Yes contingent upon specifics that will be discussed at pre-build meetings scheduled with the successful offeror(s).
8	What does Hybrid override system?	Enables the vehicle to operate if the hybrid system malfunctions.
9	What work arc is the bucket rotation requirement?	Contingent upon the size of the bucket arm – industry and safety standards apply.
10	What is bucket elevator system requirement?	Bucket elevator would have to meet the proper bucket truck size and weight requirements for the bucket. Elevator would need to lift bucket a minimum of 24"
11	Will body specifications be provided?	Yes contingent upon specifics that will be discussed at pre-build meetings scheduled with the successful offeror(s).

Number	Question	Answer
12	What tools and attachments are expected?	Varies by unit – should be within the specs. Catalog option has been added to the bid specification.
12	Will our service centers and mobile service	·
13	technicians satisfy the requirement of a warranty service provider?	The City prefers local but will accept mobile staff technicians.
14	What is the extent of training that is being requested? There are several levels of training we offer and I want to be sure to provide the correct option.	8 hours of operations and technical training for service staff training.
15	Which chassis is preferred? Extended cab or crew cab?	Extended.
16	It is more common for us to use a 2400 watt inverter. Is this acceptable instead of a 2500 watt inverter?	Yes
17	Is aluminum an acceptable alternative to stainless steel to match the other trucks on order?	Both can be priced aluminum
18	Is smooth floor acceptable? Any non-skid or cargo area coating will adhere better and last longer on a smooth floor surface.	No
19	Is this in reference to undercoating or a cargo coating similar to rhino liner?	Similar to a rhino liner e.g. Line-X
		None – the addition of cab suspension can make the bucket truck too tall to fit under low bridges. Our preference is that which allows the truck to set as
20	What type of cab suspension is preferred?	low as possible for low bridge
21	If weight becomes an issue is it acceptable to change to a tandem or is it necessary to only build on a single axle	Single axle
	Is a hybrid engine required to be bid or is diesel with a hybrid system to run boom, A/C, etc	
22	acceptable?	Diesel with a hybrid system.

Number	Question	Answer
23	Are drawings, weight studies, and spec sheets required at time of initial bid? If so more information will be needed as well as some time to be able to accurately provide these for a custom truck or a basic truck set up can be provided more readily.	The City of Columbus is pursuing a Best Value Procurement process to accomplish the following: - Basic truck specs to gain proper competitive bids - Vendor is selected from like bids - Upon meeting vendor, any additional options are discussed - Drawings are supplied pre-build for final review and approval
24	Are the desired units to be side by side booms or stacked booms?	Side by side booms.
25	If there are questions while building the bid package but after question period who is our contact?	The City of Columbus Purchasing Office will manage the bidding process. Once awarded this will be a Citywide contract for other agencies to use. Each purchase order will have the contact listed within the document.
26	Is it required to bid all trucks?	No. Offerors are encourage to submit proposal on units they can provide.
27	Some items may be difficult to provide pricing for. Is there a list of specific items that you have in mind? Will general annual maintenance cost be sufficient?	Cost of ownership is based on the units your business entity is wanting to be considered for an award
28	Will the City of Columbus be able to provide a POA for us to be able to provide the title at purchase?	Yes, the City of Columbus will sign a POA for title purposes.
29	Is the hybrid override expected to be provided by the chassis OEM? Or is this in reference to a hybrid system that allows you to use the machine while chassis is off?	To be provided by the hybrid manufacturer which enables the vehicle to operate if the hybrid system malfunctions.
30	Will these trucks be expected to have snow removal equipment or the ability to attach it?	No
31	Are we limited to 7 pages per truck or for the entire bid packet? It will be difficult to provide all of the relevant information for 7 trucks in 7 pages.	This section has been amended

Number	Question	Answer
		The COOPP membership list is
32	Who is in the COOPP Program?	attached to this document
		Yes. The bid specifications represent
		the basic specification to evaluate
	Will more information be provided for what is	proposals submitted. Potential
	expected of the body? We will need to know	awarded offeror(s) will be provided
	what it needs to look like and what features	more details in the next phase of our
33	need to be where to provide a quote.	evaluation.
		The bid specification allows offeror(s)
		to submit proposals on Diesel, Electric
		and Hybrid engine trucks and has CNG
		option listed, as well. Offerors will be
		considered for an award on units they
		can provide and what is in the best
		interest of City. We strongly
	If we do not supply a CNG option will we still be	encourage all offerors to submit
	considered for this contract or would we be	proposals on the units they can
34	automatically disqualified?	provide.
		4x4 is an option and Traffic/Utilities
	Is there a travel height requirement? If so 4x4	are aware of the height differences
	chassis are typically higher than the 4x2 and	between 4x2 and 4x4. Would require
	could cause travel height issues. Is 4x4 a	vendor to properly spec a build for
35	requirement or option?	bridge clearances within the city.
	We would like to know if we could propose a	
	fully electric option, including the engine as we	
	have already proposed similar options and can	
36	comply to all specifications.	This will be added to the addenda

## **CO-OPP Members**

Columbus State Community College

State of Ohio

State Teachers Retirement System of Ohio

City of Columbus

**Ohio Industrial Commission** 

Northeast Ohio Regional Sewer District

**Central Ohio Transit Authority** 

Columbus Regional Airport Authority

Columbus Public Schools

City of Piqua

Village of New Albany Hamilton County Montgomery County

Columbus Metropolitan Library

Ohio Facilities Construction Commission

Cleveland Metroparks

Columbus State Community College

City of Dayton
City of Canton
City of Westerville
Akron Public Schools

Cuyahoga County Public Library

City of Upper Arlington Ohio Lottery Commission

City of Brecksville

Central Ohio Technical College

Franklin County
City of Middletown
City of Westlake

Northeast Ohio Regional Sewer District

**Ohio Industrial Commission** 



## **Submission Instructions for Suppliers**

Please follow these instructions to submit via our Public Portal.

## 1. Prepare your submission materials:

## **Requested Information**

Name	Туре	# Files	Requirement
Proposal – RFQ16083 Bucket Trucks UTC	File Type: PDF (.pdf)	Multiple	Required

## **Requested Documents:**

Please note the type and number of files allowed. The maximum upload file size is 1000 MB.

Please do not embed any documents within your uploaded files, as they will not be accessible or evaluated.

## 2. Upload your submission at:

## https://columbus.bonfirehub.com/opportunities/29529

The Q&A period for this opportunity starts Jul 17, 2020 11:00 AM EDT. The Q&A period for this opportunity ends Aug 03, 2020 11:00 AM EDT. You will not be able to send messages after this time.

Your submission must be uploaded, submitted, and finalized prior to the Closing Time of **Sep 03**, **2020 11:00 AM EDT.** We strongly recommend that you give yourself sufficient time and **at least ONE (1) day** before Closing Time to begin the uploading process and to finalize your submission.



## **Important Notes:**

Each item of Requested Information will only be visible after the Closing Time.

Uploading large documents may take significant time, depending on the size of the file(s) and your Internet connection speed.

You will receive an email confirmation receipt with a unique confirmation number once you finalize your submission.

Minimum system requirements: Internet Explorer 11, Microsoft Edge, Google Chrome, or Mozilla Firefox. Javascript must be enabled. Browser cookies must be enabled.

## **Need Help?**

City of Columbus uses a Bonfire portal for accepting and evaluating proposals digitally. Please contact Bonfire at Support@GoBonfire.com for technical questions related to your submission. You can also visit their help forum at https://bonfirehub.zendesk.com/hc

## **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: <a href="https://www.columbus.gov">www.columbus.gov</a>

#### **INFORMATION FOR OFFERORS (RFP)**

#### **SPECIAL CONDITIONS**

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

#### PERSONAL EXAMINATION

Offerors are required to satisfy themselves by personal examination of the proposed contract documents and investigation of the conditions at the site of the work in order that they may be fully informed of the contract requirements, the conditions existing, and the difficulties likely to be encountered in the execution of the work.

#### SUBMISSION OF RESPONSE

Refer to the "Proposal Information" section of the Specifications for instructions for submission.

All proposals and other material submitted in response to this Request for Proposal (RFP) become the property of the City of Columbus. The City may choose to retain or return these materials to the offeror, at the offeror's expense.

The City is not liable for any cost associated with the preparation of the proposal or any other costs incurred by any bidder prior to the execution of the contract. The rejection of any proposal in whole or in part, at it discretion, will not render the City liable for incurring any cost or damage.

If at any time prior to the closing date the invited offeror decides not to provide a proposal, the City will appreciate that a letter to that effect be supplied to the City prior to the deadline.

#### **ACCEPTANCE AND REJECTION**

This response submitted by the offeror to the City of Columbus will be accepted or rejected within a period of 180 days from due date. The City reserves the right to waive technicalities, and to cancel and renew the request on the required service. If more than one service, prices shall be quoted on the services requested. However, each service may be considered a separate offer and the City reserves the right to award a contract on each service separately or on all services as a whole or any combination thereof. Offerors whose proposal is made on an "All or None" basis must clearly state such fact in their written responses.

Each invitation for Bids, Request for Statements of Qualifications, and Request for Proposals issued by the City shall state that the Bid or Request may be cancelled and that any bid or proposal may be rejected in whole or in part when it is for good cause and in the best interests of the City.

## WITHDRAWAL OF RESPONSE PROPOSALS

Offerors may withdraw their responses at any time prior to the time specified in the advertisement as the closing time for the receipt of responses. However, no offeror shall withdraw or cancel a proposal for a period of 180 calendar days after said advertised closing time for the receipt of the proposals.

#### SIGNATURE REQUIRED

The responses must be signed in ink. If the offeror is a firm or corporation, insert the corporate name followed by the signature of a person authorized to sign said response; if a partnership, indicate partnership name followed by the signature of one of the partners; if a sole proprietorship the signature of the owner is required. Where the person signing for a corporation is NOT an officer or Member of the Company, an affidavit or a resolution of

the Board of Directors showing the authority of that person to bind the corporation must be furnished.

#### **DEFAULT PROVISION**

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

#### CONTRACT AND BOND

The offeror 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 contracting agent of the City, become irresponsible, then said agent 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 agent, within ten (10) days after notice. In default thereof the default provision herein shall apply.

#### LIABILITY, INSURANCE, LICENSES AND PERMITS

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

The City, being a municipality, is tax exempt and will provide appropriate certificate upon request. Federal and/or State Taxes are not to be included in prices quoted. The successful offeror will be furnished an exemption certificate if needed.

## **PRICING**

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

## **DELIVERY**

Time will be of the essence for any orders placed as a result of this response. 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.

#### **INFORMATION FOR OFFERORS (RFP) (Continued)**

#### **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.

#### **QUALITY**

Unless otherwise stated by the offeror, the proposal will be considered as being in strict accordance with the specifications outlined in this RFP document.

#### **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.

#### **CHANGES AND ADDENDA TO RFP DOCUMENTS**

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

#### REPUDIATION OF AGREEMENT

The liability of the City for repudiation of any agreement which might result from this request shall be limited to the difference between the market price at the time and place for tender of the service and the unpaid sales price together with any incidental damages, but less expenses paid in consequence of the breach by the City. The liability of the city shall not be measured by the profits or overhead of seller.

#### **CONTRACT MODIFICATION**

An agreement which may result from this request 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.

#### **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.

#### **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 offeror shall be notified as to which terms and conditions, if any, have been deleted or changed.

#### **PUBLIC RECORDS REQUESTS**

The City of Columbus, as a political subdivision of the State of Ohio, is subject to Ohio Revised Code Chapter 149, known as

the Ohio Public Records Law. Consequently, the Offeror understands that ALL documents submitted in response to this RFP are considered public records and WILL be released when a public records request is made by news media, competitors, or other interested parties, in accordance with the law. If you contend that certain CLEARLY MARKED portions of your response constitute an exception to Ohio's public records law, you MUST submit your legal basis in support of that assertion with your response.

If a public records request is made for any portion of the documents that you have submitted and you have NOT clearly marked such documents as information constituting an exception to Ohio's public records law, your information will be released immediately.

If a public records request is made for such information and you HAVE clearly marked portions of your response as information constituting an exception to Ohio's public records law, AND you have submitted the legal basis supporting such claim, the City will release a redacted version of your information to the requestor and notify you that a request was made and that a redacted version of your response was released. Should the requestor indicate that the redacted version is not sufficient for their purposes, you then will be IMMEDIATELY responsible for obtaining an order from a Court of competent jurisdiction in Franklin County, Ohio enjoining release of your clearly marked information constituting an exception to Ohio's public records law.

If a public records request is made for such information and you HAVE clearly marked portions of your response as information constituting an exception to Ohio's public records law, but you have NOT submitted the legal basis supporting such claim, the City WILL RELEASE your information to the requestor and notify you that a request was made and that your response was released.

DO NOT mark your entire response/submittal as information constituting an exception to Ohio's public records law. If your entire response/submittal is so marked, the City of Columbus will not consider your offer.

#### **COSTS INCURRED FOR PROPOSAL SUBMISSIONS**

The City is not liable for any cost associated with the preparation of the proposal or any other costs incurred by any offeror prior to the execution of the contract. The rejection of any proposal in whole or in part, at it discretion, will not render the City liable for incurring any cost or damage.

#### WITHDRAWL OF PROPOSALS

If at any time prior to the closing date the invited offeror decides not to provide a proposal, the City will appreciate that a letter to that effect be supplied to the City prior to the deadline.

#### SAFETY REQUIREMENTS

Successful vendor shall at all times while performing duties, adhere to all rules of their particular industry, with regard to mandates by the Environmental Protection Agency (EPA) and/or Occupational Safety and Health Administration (OSHA), and any other regulation applicable to the circumstance.

(INFORMATION FOR OFFERORS continued next page)

#### **INFORMATION FOR OFFERORS (RFP) (Continued)**

#### **NON-COLLUSION AFFIDAVIT**

Each respondent is required to submit with his proposal an affidavit stating that neither he nor his agents, nor any other party for it, has paid or agreed to pay, directly or indirectly, any person, firm or corporation any money or valuable consideration for assistance in procuring or attempting to procure the Contract herein referred to, and further agreeing that no such money or regard will be hereafter paid. This affidavit must be on the form required, titled "Non-Collusion Affidavit."

## ADDITIONAL CONTRACT TERMS AND REQUIRED DOCUMENTS IN THE EVENT OF A CONTRACT

This section sets forth contract terms and the required contract documents that the successful offeror must execute following the award of the contract by the contracting authority.

#### **PUBLICATIONS**

The Contractor agrees to submit to the City's Contract Administrator all advertising, sales promotion, and other publicity matters relating to this Contract wherein the City's name is mentioned or language used from which the connection of the City's name therewith may, in the City's judgment, be inferred or implied. The Contractor further agrees not to publish, or use such advertising, sales promotion, or publicity matter without the prior written consent of the City except that may be required under law.

#### **TERMINATION FOR CONVENIENCE**

The City upon thirty days written notice may terminate this agreement at its convenience. The party providing goods or services shall be entitled compensation for goods provided or services rendered under the terms of this contract up to the date of notification of termination.

#### **TERMINATION FOR DEFAULT**

If either the City or the Contractor violates any material term or condition of this Contract or fails to fulfill in a timely and proper manner its obligations under this Contract, then the aggrieved party shall give the other party written notice of such failure or violation. The responsible party shall give the other party written notice of such failure or violation. The responsible party will correct the violation or failure within thirty (30) calendar days or as otherwise mutually agreed. If the failure or violation is not corrected, this Contract may be terminated immediately by written notice from the aggrieved party to the other party. The option to terminate shall be the sole discretion of the aggrieved party. If it determined for any reason the failure to perform is without the defaulting party's control, fault, or negligence, the termination shall be deemed to be a Termination for Convenience.

#### **APPLICABLE LAW. REMEDIES**

This agreement shall be governed in accordance with the laws of the State of Ohio. 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. The remedies provided for in this Contract shall not be exclusive but are in addition to all other remedies available under law.

#### **ASSIGNMENT**

This agreement may not be assigned or otherwise transferred to others by the contractor without the prior written consent of the City.

#### SAVE HARMLESS

Contractor shall protect, indemnify and save the City harmless from and against any damage, cost, or liability, including reasonable attorneys' fees resulting from claim, by third parties for any or all injuries to persons or damage to property arising from the acts or omissions of the Contractor, its officers, employees, agents, or Subcontractors in providing goods or services under the terms and conditions of this contract.

#### **Public Records**

Contractor acknowledges that the City is subject to O.R.C.149.43, the State of Ohio Public Records Law.

#### INDEPENDENT CONTRACTOR STATUS

The Contractor shall perform its duties as an independent contractor and not as an employee. Neither the contractor nor any agent or employee of the contractor shall be or shall be deemed to be an agent or employee of the City of Columbus. The Contractor shall pay when due all required employment taxes and income tax on any monies paid pursuant to the contract. Contractor shall acknowledge that the contractor and its employees are not entitled to unemployment insurance benefits unless the contractor or a third party provides such coverage and that the City does not apply for or otherwise provide such coverage. Contractor shall have no authorization, express or implied, to bind the City to any agreements, liability, or understanding except as expressly set forth in the contract. Contractor shall provide and keep in force worker's compensation (and show proof of such insurance) and unemployment compensation insurance in the amounts required by law, and shall be solely responsible for the acts of the contractor, it's employees and agents.

(INFORMATION FOR OFFERORS continued next page)

#### **INFORMATION FOR OFFERORS (RFP) (Continued)**

#### IN THE EVENT OF A CONTRACT (continued)

#### PROTECTION OF CITY'S CONFIDENTIAL INFORMATION

The contractor shall acknowledge that some of the material and information which may come into its possession or knowledge in connection with the contract or its performance, may consist of confidential information, the disclosure of which to, or use by, third parties could be damaging. Therefore, access to information concerning individual recipients of the City's services to individual clients, among other items, shall not be granted except as authorized by law or agency rule. The contractor shall agree to hold all such information in strictest confidence, not to make use thereof for other than the performance of the contract, to release it only to authorized employees or subcontractors requiring such information, and not to release or disclose it to any other party. The contractor shall agree to release such information or material only to subcontractors who have signed a written agreement expressly prohibiting disclosure. The contractor shall further agree to either destroy or return all such information at the end of the term of the contract.

This section does not impose any obligation on the contractor if the information is: (1) publicly known at the time of disclosure; (2) already known to the receiving party at the time it is furnished to the contractor; (3) furnished by the City to others without restrictions on its use or disclosure; or (4) independently developed by the receiving party without use of the proprietary information.

#### WITHHOLDING OF CITY INCOME TAX

Pursuant to Section 362 Columbus City Codes, 1959: "Said Contractor hereby further agrees to withhold all City income tax assessment due or payable under the provisions of Chapter 362, Columbus City Codes for wages, salaries and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income tax assessments due under said chapters for services performed under this Contract."

#### **WORKER'S COMPENSATION INSURANCE**

The contractor shall take out and maintain, during the life of the 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 contractor shall furnish three (3) copies of the worker's compensation certificate showing that the contractor has paid his industrial insurance premium.

#### **AUTHORITY TO BIND**

The signatories to this Contract represent that they have the authority to bind themselves and their respective organizations to this Contract.

#### LIABILITY INSURANCE

The contractor shall take out and maintain during the life of the contract, such liability (bodily injury and property damage) Insurance as shall protect it 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 itself or any subcontractor or by anyone directly or indirectly employed by either of them. Such insurance policy shall include the City as additional insured. The contractor shall maintain coverage of the types and in the amounts specified below. Proof of such insurance coverage shall be evidenced by submitting a certificate of insurance. A contractor's "umbrella" type policy with limits specified below may be submitted for this requirement with the City as additional 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 All Accidents 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 notifies the City 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 hereinabove 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

## 1.0 SCOPE AND CLASSIFICATION

- 1.1 **Scope**: The City of Columbus is seeking Request for Proposals in response to a Best Value Procurement (BVP) to enter into a Universal Term Contract (indefinite quantity) to purchase various sizes of Bucket Trucks to be used by multiple City agencies. The City will negotiate a contract with the selected vendor(s) for a term of two (2) years beginning the date of execution through September 30, 2022 with one additional oneear extension option.
- 1.2 **Classification:** The contract resulting from the BVP will provide for the purchase and delivery of Bucket Trucks to be used by various City agencies.
- 1.3 **Specification Questions:** Questions regarding this BVP must be submitted on the Bonfire portal by 11:00 am Monday, August 3, 2020. Responses will be posted on the RFQ on Vendor Services no later than Monday, August 10, 2020 at 4:00 pm.
- 1.4 For additional information concerning this BVP, including procedures on how to submit a proposal, you must go to the City of Columbus Bonfire web site at <a href="https://columbus.bonfirehub.com/opportunities/29529">https://columbus.bonfirehub.com/opportunities/29529</a> and view this bid number detailed instructions. Bid proposal specifications are available through the following link: <a href="https://columbus.bonfirehub.com/opportunities/29529">https://columbus.bonfirehub.com/opportunities/29529</a>
- 1.5 **Best Value Procurement Model:** The City of Columbus is using a Best Value Procurement in lieu of the Invitation to Bid model. The award will not be made to the lowest, responsive, and responsible bidder. The contract will be awarded based upon: (1) specification conformity and completeness of response, (2) total cost of ownership, (3) past performance, and (4) acquisition costs and other evaluation criteria referred to in Columbus City Code 329.18 or as defined herein.
- 1.6 **Multiple Awards:** The City reserves the right to split the award amongst multiple suppliers based upon each category of bucket trucks. Categories of Bucket Trucks include the following configurations:
  - 37ft Single Axle Bucket Truck
  - 40ft Single Axle Bucket Truck
  - 50ft Single Axle Bucket Truck
  - 55ft Single Axle Bucket Truck
  - 60ft Single Axle Bucket Truck
  - 70ft Single Axle Bucket Truck
  - 75ft Single Axle Bucket Truck

### 2.0 APPLICABLE PUBLICATIONS AND STANDARDS

- 2.1 Must meet or exceed all City, State, Federal safety guidelines and standards.
- 2.2 All OSHA applicable guidelines and standards.

2.3 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.

## 3.0 **REQUIREMENTS**

- 3.1 **General Information:**
- 3.1.1 **Term:** The proposed contract shall be in effect from the date of the executed contract up to and including September 30, 2022. This will be negotiated with the finalist.
- 3.1.1.1 **Annual Extension:** Subject to mutual agreement, the period covered by the ensuing contract, under the same terms and conditions stated therein can be extended for one additional year, or portion thereof, at the same pricing and the same escalator clause.
- 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. Unless otherwise stated all bids will be considered to contain the following escalator/de-escalator cause:
- 3.1.2.1 Escalator Clause: No price adjustment shall be granted during the first twelve (12) months duration of an awarded contract. Thereafter no more than two such increases may occur within any year of the contract. In the event the supplier receives a general price increase in the cost of the finished product contracted for, due to increase in the cost of raw materials, labor, freight, etc., upon giving thirty (30) days prior notice and proper documentation as proof, said increase in addition to the unit price quoted herein, may be permitted, subject to the sole discretion of the City of Columbus Finance and Management Director. In the event any such increase is granted, no price adjustment shall be permitted on orders received by supplier which are in process or filled but awaiting shipment prior to the increase. All price decreases inure to the benefit of the City of Columbus. The written notice and following documentation shall be sent to: City of Columbus Purchasing Office, 5th Floor, 77 N. Front St., Columbus, Ohio 43215.
- 3.1.2.2 **Price Documentation**: The supplier shall submit the following documentation with each request for a price increase:
  - 1) Copies of the old and the current price lists or similar documents which indicate the original base cost of the product to the supplier and the corresponding increase; and
  - 2) Copies of correspondence sent by the supplier's supplier explaining the source of the increase in such areas of raw materials, freight, fuel or labor, etc.; and

- 3) Copies of excerpts from business publications, market quotations or trade journals recognized as being representative of their particular trade or industry, that indicate a trend toward an increase in the current market for the commodities under the awarded contract.
- Right of Cancellation: If at any time during the term of the contract the supplier's total request(s) for a price increase(s) are greater than fifteen percent (15%), the City of Columbus may cancel this agreement with thirty (30) days written notification.
- 3.1.3 **Quantity Estimate:** The City of Columbus estimates spending approximately \$700,000.00 in accordance with this contract. This is an estimate of the annual needs of the City under this contract and are for bidding purposes only. This estimate is not to be construed as representing an actual order for that amount, or a guarantee that any minimum amount will actually be purchased. The City reserves the right to purchase up to twice the estimated quantity.
- 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.
- 3.1.5 **Universal Term Contract**: This proposal is bidder's offer to sell the item(s) set forth in the bidders' response to the RFQ at the price(s) quoted by bidder therein, under the terms and conditions of these bid documents. An estimated quantity or estimated annual expenditure is set forth in the proposal. Bidder is to take notice that the City makes no warranties or representations that the estimated quantity, or any quantity at all, will be ordered by the City even though bidder's proposal is accepted by the City and a firm offer for sale executed.

If bidder's proposal is accepted by the City and the firm offer for sale is executed the bidder is to take further notice that no act, failure to act, or order placed by the City shall constitute an order or contractually bind the City without the proper certificate by the City Auditor that funds sufficient for full payment due on any order are available. Each order placed under the firm offer for sale shall require execution of a purchase order. Therefore in consideration of one (1) dollar received by the awarded bidder, said bidder shall offer to sell buyer, City of Columbus, who shall have the Contract Term to exercise this option to purchase, at the price and on the terms set forth in this proposal.

The City shall not be precluded from buying the same or similar items from other suppliers.

- 3.1.5.1 **Written Purchase Order:** Written Purchase orders may be established for various City Agencies referencing the terms of this contract and specifying delivery locations. No shipment shall be authorized until such issuance of a Purchase Order.
- 3.1.6 **Cooperative Purchasing:** The successful bidder shall also supply all items under the terms and conditions of the proposed contract to agencies officially sanctioned by the City in its cooperative purchasing effort, the Central Ohio Organization of Public Purchasers (COOPP). Any agency that is not subject to a City of Columbus purchase order must be invoiced directly by the supplier. Those agencies participation is subject to a credit approval by the supplier, as the City of Columbus is in no way obligated to those agencies' financial commitments. The supplier shall be notified of any additional agencies sanctioned by the City of Columbus via letter signed by the Finance and Management Director.
- 3.1.7 **Non-disclosure:** The contractor agrees that no information will be disclosed to third parties or published in case studies, advertisements, white papers, customer testimonials, etc. without the written consent of the City.
- 3.2 **BVP Overview:** The Offeror's response to this BVP should be a clear and concise description of the Offeror's capabilities and proposed product offerings. The BVP will be evaluated using (1) specification conformity and completeness of response, the relevant information pertaining the requirements of a specification, technical standard, contract, or regulation (2) total cost of ownership, to include maintenance and operation costs, as well as the expected life of the equipment, (3) past performance of the equipment and vendor as determined by customer satisfaction, and (4) acquisition costs.
- 3.2.1 **Process Summary:** The City will appoint an evaluation committee to evaluate proposals received. The committee will evaluate all Offerors and proposals received and rank the offerors based upon the evaluation criteria specified in the BVP. The committee may then select two (2) or more of the highest qualified Offerors with which to hold additional discussions. The discussions may include, but are not limited to, presentations by the Offerors to the committee to elaborate upon their qualifications, proposals, and/or other pertinent information. Based upon the content of the proposals received including any revisions thereto, and upon any additional discussions with the Offerors the committee shall rank the remaining offerors based upon the evaluation criteria specified in the BVP. The committee shall submit its ranking of the Offerors along with a written explanation to the Finance and Management Director. The Finance and Management Director shall select the Offeror(s) with which to enter into contract negotiations. If negotiations fail, negotiations with these offeror(s) shall be terminated, and the city agency may enter into contract negotiations with another.
- 3.2.2 **BVP Sequence of Events:** The following BVP sequence of events represents the City's best estimate of the schedule that will be followed. Exact due dates and times for questions / answers (in Section 3.2.3) are noted in this document and will be published on Vendor Services and in the City Bulletin:

- BVP Issued
- Deadline for written questions: before 11am, August 3, 2020
- City response to questions: by 4pm, August 10, 2020
- BVP Due: Proposals must be submitted prior to 11am, September 3, 2020
- Notification of finalists: approximately 15-20 days after BVP opened
- Presentations to City: approximately 10-15 days after notifications sent
- Negotiations begin: approximately 5-10 days after presentations
- Contract completed: approximately 40 days after completed negotiations
- 3.2.3 **Specification Questions:** Questions regarding this BVP including any exceptions and/or suggested changes to the requirements must be submitted on the City of Columbus' Bonfire portal by 11:00 am (local time) on Monday, August 3, 2020. Responses and any necessary addenda will be posted as an amendment to this RFQ on the City of Columbus' Bonfire no later than 4:00 p.m. (local time) on Monday, August 10, 2020. 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 Bonfire portal <a href="https://columbus.bonfirehub.com/opportunities/29529">https://columbus.bonfirehub.com/opportunities/29529</a> 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 **Communications:** During the BVP and evaluation process, Offerors are strictly prohibited from communicating with any City employees or officers regarding this solicitation except through the method stated immediately above during the Question & Answer period. Any communication from the vendor to the City after the Question and Answer period should be limited to only what is necessary. Necessary communication required by the City will be communicated clearly to Offerors. If any Offeror has a need to communicate with the City, the communication should come only to the Chair of the Committee. If a City employee attempts to communicate with an Offeror contrary to this provision, the Offeror shall report said incident to the Chair of the Committee. The Chair is Roblyn Slaughter. Chair can be reached at <a href="mailto:rslaughter@columbus.gov">rslaughter@columbus.gov</a> or 614/645-7651. A violation of this section on the part of the Offeror will lead to disqualification.

#### 3.3 Evaluation Criteria:

- 3.3.1 Section One Specification Conformity and Completeness of Response (45 points): The proposal response of the Offeror meets and or exceeds the relevant information pertaining to the process, product, or service complies with the requirements of a specification, technical standard, contract, or regulation.
- 3.3.1.1 Provide sufficient information in a clear, concise manner to the City to evaluate the unit(s) of Offeror to meet and/or exceed the requested vehicle unit and service wherein. Responses that do not include the proposal content requirements

identified within this BVP and subsequent Addenda and do not address each of the items listed below will be considered incomplete, be rated a Fail in the Evaluation Criteria and will receive no further consideration.

Information in Section One should be limited to address only the following:

The process, product, or service complies with the requirements of a specification, technical standard, contract, or regulation. In addition to the truck design of the Offeror's technical proposal will demonstrate through the conversion of the RFP technical specifications into detailed line drawings and documents that clearly explain how the Offeror meets the operational needs expressed by the preferences of the technical specifications.

- 3.3.2 Section Two Total Cost of Ownership, to Include Maintenance and Operation Costs (35 points) Provide sufficient information in a clear, concise manner to the City to evaluate the total ownership costs of the offered products. Information in Section Two should include:
- 3.3.2.1 Offerors shall describe the Total Cost of Ownership over ten years. Verifiable data in the form of documentation to substantiate costs provided, plus parts lists and scheduled maintenance must be included. The calculation process should be described in the Proposal and must include any supporting documentation to substantiate the figures provided.

At a minimum, please answer the following questions in your response:

- What are the repair and maintenance requirements of the Bucket Trucks?
- Do you offer repair and maintenance services?
- Are there uses, instances, or circumstances that would significantly reduce the useful life of this product?
- What do your warranties cover?
- Is the warranty provided by you, or is it an aftermarket warranty?
- Are there any circumstances that would void the warranty?
- What is the procedure for handling defect and loss claims?

## 3.3.3 Section Three - Past Performance (20 Points)

- 3.3.3.1 The past performance of Offeror as reflected by evaluations of previous clients of the Offeror with respect to customer satisfaction (Appendix A).
  - 1) Service History: Offeror shall provide a brief history of its provision of similar items to organizations of similar size and/or complexity. At a minimum, please answer the following questions.
    - How long have you manufactured or distributed and/or serviced Bucket Trucks?
    - What clients and applications similar to the City's have you served?

- What is repeat business rate for Bucket Trucks clients?
- 2) Professional References: The Offeror must provide professional references. A minimum of three (3) references are required. References should consist of projects of a similar scope, complexity and cost. Please include the name of the individual, the name and location of entity, an e-mail address and phone number. It is the full intent of the City to speak with multiple references indepth about their experiences with your company and its products. Offerors should contact references with the following questions. Please include in your response the answers from the reference to the following questions:
- Did the purchase meet your customer expectations? How or how not?
- Did the vendor show the ability to maintain schedules and meet deadlines?
- What is your comfort level in hiring the vendor again based upon the performance of the titled project and the performance of the vendor's staff?
- Please explain the total cost of ownership of the Bucket Trucks.
- Is there information about your purchase that you wish you had asked the vendor prior to the purchase or installation?

### 3.3.4 Section Four - Acquisition Cost (30 points):

DO <u>NOT</u> INCLUDE COST WITH THIS PROPOSAL. THE HIGHEST SCORING OFFERORS WILL BE INVITED TO PROVIDE ADDITIONAL INFORMATION TO THE CITY, INCLUDING COST PROPOSALS.

#### 3.4 TECHNICAL SPECIFICATIONS:

- 3.4.1 **Scope:** It is the intent of these specifications to describe single axle trucks with Bucket bodies in sufficient detail to secure proposals. Offerors should address each subsection in their proposal. The technical specifications are to provide offerors with guidelines. They are not meant to prevent offerors from proposing alternate solutions. In all instances, the Offeror is to clearly indicate how the proposed solution meets the desire of the City of Columbus for tandem and single axle Bucket trucks with snow removal equipment. Unless otherwise noted, technical specifications will describe equipment used for both tandem and single axle trucks. The offeror shall include an appropriate explanation of the type of equipment offered in detail, and with full supporting data to ensure that the City can properly evaluate the proposal.
- 3.4.2 All parts not mentioned, which are necessary to provide a complete unit, shall be included in the offer and shall conform in strength and quality of workmanship to what is usually provided to the trade in general. This vehicle must meet or exceed the current edition of FMVSS and any or all DOT regulations and Federal axle load laws at the time of contract signing.

- 3.4.3 The City strongly prefers the vehicle to be new. The proposal should preferably not include components, or finished units that are of a prototype nature, or have not been in production for a sufficient period of time to prove their performance capabilities. The City will determine the acceptability of any proposal of prototype/refurbished equipment.
- 3.4.4 Mention in the technical specification of any equipment or material by brand name is intended to convey to the offerors the degree of quality requested.
- 3.4.5 Offerors shall submit with their proposal detailed drawings and build-sheets clearly showing all of the necessary components of the single and tandem axle trucks and equipment being offered. Offerors may submit with their proposals descriptive literature, brochures, etc. This may include photographs of already constructed similar type vehicle.
- 3.4.6 The City prefers delivery of each unit purchased not to exceed three-hundred and sixty (360) calendar days from the date of the signed contract and issuance of a City of Columbus purchase order. State actual delivery time per unit in calendar days in the offer. The City will negotiate with the selected Offeror the amount of liquidated damages to be enforced if the delivery is not completed on or before the time stipulated in the final agreement.
- 3.4.7 The City prefers that the Offeror provide service and parts availability twenty-four (24) hours per day, seven days per week via a franchised dealer employing certified truck and apparatus component service technicians. Indicate in detail whether your proposal includes such availability. If not, indicate service and parts availability. List the name and location of the franchised dealers. Indicate whether Offeror will provide a Customer Service Center. If so, indicate the hours of operation and the level of service offered.

# 3.5 SPECIFICATION INFORMATION: Units for consideration are Side by Side Squirt Booms, Non-Over Center Knuckle Boom

- 3.5.1 **GROSS VEHICLE WEIGHT**: Offerors shall submit their Gross Vehicle Weight with their proposal. The City prefers the minimum weights as stated below, or as required for the configuration:
- 3.5.1.3 Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.
- 3.5.1.4 37' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.
- 3.5.1.5 40' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.
- 3.5.1.6 50' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications.

3.5.1.7 55' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.1.8 60' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.1.9 70' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.1.10 75' FT. Single Axle Bucket Trucks with a minimum G.V.W. rating recommended by the configuration of the specifications. 3.5.2 WHEELBASE 3.5.3 **ENGINE** 3.5.3.1 The City intends to award both Diesel, Electric and Hybrid options through this procurement process. Each offeror is to propose their recommended configuration to meet the City's needs. 3.5.4 **TRANSMISSION** Single Axle: The City prefers Allison 6 speed transmission or approved alternate with performance code for highway speed auxiliary oil cooler and dash mounted temperature gauge and PTO gear. The City prefers this because of standardization and because of the truly automatic nature of this transmission. 3.5.5 FRONT & REAR AXLE CONFIGURATION: Offerors shall submit their axle configurations with their proposal. 3.5.5.4 37', 40', 50', 55', 60', 70' & 75' FT. Bucket Truck Front and Rear Axle - Each offeror is to propose their recommended configuration to meet the arrangement and configuration of the proposed equipment. 3.5.5.5 Limit maximum road speed electronically to 68 mph. 3.5.6 **FRAME** 3.5.6.1 Manufacturer's optional heavy duty, off highway type. 3.5.7 **BRAKES** 3.5.8 TIRES & WHEELS

3.5.9	STEERING
3.5.10	ELECTRICAL & ALTERNATOR
3.5.10.1	<b>ELECTRICAL WIRING STANDARDS:</b> 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.
3.5.10.2	Provide wiring diagram for all factory and truck body component installations.
3.5.11	FUEL TANK
3.5.11	CAB & EQUIPMENT
3.5.11.1	City prefers air ride driver seat and air ride passenger seats. Air ride seats provide a more comfortable ride for the driver and passenger.
3.5.12	MIRRORS
3.5.13	PAINT
3.5.13.1	The City prefers the complete chassis and body unit to be primed and painted, to paint manufacturer's recommendations, with Yellow NAV 4015 lead free or equal that matches cab manufacturer color. The City of Columbus, when possible, wants their fleet of trucks to match in color and appearance.
3.5.13.2	The City prefers the body to remain natural stainless steel, with frame painted black. The City of Columbus, when possible, wants their fleet of trucks to match in color and appearance. Aluminum will be considered.
3.5.14	RUSTPROOFING OPTION
3.5.15	TRAILER AIR LINES & LIGHT PLUGS
3.5.16	KEYS
3.5.17	<b>Aerial Device Requirement:</b> Combination articulating and telescoping or side by side squirt configuration
3.5.17.1	HYDRAULICS
3.5.17.2	ARTICULATION
3.5.17.3	ROTATION

3.5.17.3.1	Aerial unit shall be capable of continuous 360 degree rotation.
3.5.17.4	CONTROLS
3.5.17.5	BOOMS
3.5.17.5.1	Booms shall be rectangular in shape for increase rigidity
3.5.17.6	PLATFORM/BUCKET
3.5.17.6.1	Platform shall be fully insulated and rated to 46K volts to meet ANSI class C rating
3.5.18	SERVICE BODY
3.5.19	LABELS
3.5.19.1	Vehicle height placard shall be placed on the inner windshield in plain view of the driver and on the outside of the driver's door.
3.5.19.1	AUXILIARY ELECTRIC DRIVE SYSTEM
3.5.20	SERVICE BODY CONFIGURATION
3.5.20.1	Special stainless steel lined utility body suitable for mounting on a medium duty dual rear wheel chassis with all standard features and accessories to permit clearance, for vertical exhaust, hybrid cooler and outriggers. Plus or minus to accommodate aerial lift or hybrid option. Aluminum will be considered.
3.5.20.2	Steel tread plate cargo area floor and cargo wall liners with all steel understructure.
3.5.20.3	Body understructure modification as required for aerial tower subframe.
3.5.20.4	Body shall include rear cab headache rack or window protector
3.5.20.5	Body shall include a rear bumper with pintle hitch.
3.5.20.4	CURBSIDE COMPARTMENTS (FRONT TO REAR) OPTIONS
3.5.20.4.1	Up to 3 vertical compartments, 1 horizontal compartment, and 1 side access stairway

3.5.20.5	STREET SIDE COMPARTMENTS (FRONT TO REAR) OPTIONS			
3.5.20.5.1	.1 Up to 4 vertical compartments and 1 horizontal compartment			
3.5.21	<b>ACCESSORIES</b> - an automatic hydraulic boom latch system is to be installed to secure the boom, if needed.			
3.5.21.1	Two flexible rubber platform supports under platform. Platform is to be as low to the deck as possible.			
3.5.21.2	Two (2) safety belt attachments.			
3.5.21.3	Insulated engine stop/start system with switches at platform and lower controls.			
3.5.21.4	Insulated two speed throttle system with switches at platform and lower controls.			
3.5.21.5	Insulated 12-volt emergency power system with switches at platform and lower controls.			
3.5.22	MOUNTING			
3.5.23	Hybrid override system to allow vehicle to operate as a standard vehicle for driving; full operation all bucket functions, including use of all lighting, power outlets, heating, and air conditioning			
3.5.24	LIGHTS			
3.5.24.1	Cab amber strobe light bar			
3.5.24.2	Perimeter strobe package with a minimum of 4 amber strobe lights			
3.5.24.3	1 remote controlled work light			
3.5.24.4	2 Rear flood lights			
3.5.25	OPTIONS:			
	<ul> <li>End hung bucket with 180 degree bucket rotation system</li> <li>Bucket tilt system</li> <li>End hung bucket without rotation system</li> <li>Bucket elevator system</li> <li>Hydraulic tool circuit in bucket</li> </ul>			

• 2500 watt 12volt invertor with two 120VAC GFCI outlets installed on the body.

- Class C, ANSI di-electric protection rating to 46K volt protection with boom fully collapsed
- Extended cab chassis
- Crew cab chassis
- 4 Wheel Drive
- Battery Assisted Idle reduction system
- Trailer air brake kit with glad hands.
- Catalog of add-ons items

3.5.25.1	<b>CNG OPTION - e</b> ach unit is to meet the following CNG requirements:
3.5.25.1.1	All CNG technology submitted within the bid must be E.P.A. or C.A.R.B. certified for the year or the equipment you are bidding.
3.5.25.1.2	Minimum 60 gallons capacity OEM installed type 3 or type 4, minimum 20-year life, compressed natural gas fuel tanks. Cylinders must comply with DOT or NGV2 regulation. CNG system should be configured for minimal overall truck length.
3.5.25.1.3	Cylinders shall be mounted with mounting blocks or straps. All manufacturers' cylinder label information shall be recorded and provided to Fleet Management with each invoice.
3.5.25.1.4	Cylinders shall have a pressure release device (PRD) installed in a manner that ensures vented gas that is released upwards, and clear of the truck. PRD's must be fitted with vent tubing appropriate for the application. Vent tubing must be routed to outside of CNG tank compartment. Each PRD must be vented separately.
3.5.25.1.5	PRD tubes shall be equipped with cap, tubes must be as high as possible and opening facing up to release CNG in an upward motion.
3.5.25.1.6	Tanks shall have external solenoid valves open and closed by key on or off and manual ball valves on each cylinder.
3.5.25.1.7	Truck shall be equipped with both a standard flow fill valve (NGV1) and preferably a OPW-5000 (high –flow) fill valve in a securable mounted box with tank gauges the box shall be located in an easily fueling and reachable area for the driver. Fuel door with ignition cut-off if door is left open. Trucks shall also be equipped with a fuel transfer system (no transfer hose is required). Truck shall be equipped with a defueling port with mechanical 3 way shut—off valve. All fueling points to be located on the driver's side of vehicle.

3.5.25.1.8	Gas flow tubing from the fueling connection to the cylinders is to be a minimum 3/4" O.D. tubing to minimize pressure drop and fill time. Connections to cylinders shall be 3/8" or 1/2" O.D. tubing. Valves and other components in the gas fill path shall be selected to optimize fill speed.
3.5.25.1.9	High and low pressure coalescing filters shall be installed on lines feeding the engine. Filters shall have a manual drain valve that is easily accessible and robust enough to facilitate frequent drainage.
3.5.25.1.10	Any and all other parts and equipment necessary to provide a complete compressed natural gas unit must be installed on the unit. The successful bidder must remove all gasoline related parts.
3.5.25.1.11	The CNG fuel system shall be properly inspected (and pass inspection) by a qualified CNG system inspector. The vehicle shall have a completed inspection sticker and inspection form supplied with the vehicle upon delivery to the City.
3.5.25.1.12	Vehicle shall be delivered with a CNG system bill of materials to include all CNG fuel system parts and components.
3.5.25.1.13	CNG equipment dealer / installer must provide warranty service of the CNG system.
3.5.25.1.14	CNG storage cabinet is to be painted black and mounted behind the cab before the body and house all tanks to incorporate the 60 gallon requirement. Other configurations shall be considerations as alternates and are dependent upon approval by the Department of Public Service and Fleet Management.
3.5.25.1.15	The CNG storage cabinet shall be equipped with doors or removable panels on each side of the cabinet (driver and passenger side or front/rear). All fasteners used to attach the inspection panels shall be stainless steel.
3.5.25.1.16	Each CNG tank is to be individually vented through the top of the CNG storage housing.
3.5.26	CATALOG
3.5.26.1	Bidders are also asked to quote discounts off price list/catalog pricing. Bidders are required to show experience in providing this type of material and/or services as detailed in these specifications.

## 3.6 **REPORTING PROCEDURE:**

Indicate clearly in offer your proposed method of progress reports.

#### 3.7 **INSPECTION TRIPS:**

Inspection trips will be negotiated in the final contract. Offer need not include information regarding inspection trips. Please refer to Appendix B for details.

#### 3.8 **TRAINING:**

Clearly indicate in offer your proposal for properly training City staff on the use and maintenance of the product offered in your proposal.

## 4.0 <u>SAMPLING, INSPECTION AND TEST PROCEDURES</u>

- 4.1 **Demonstration:** The City reserves the right to require a demonstration of any equipment prior to award of the BVP. 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 inspected upon delivery by an authorized representative of the Division of Fleet Management and the requesting City agency designee 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.

### 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 body-chassis 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 Division of Fleet Management (614) 645-6104,

twenty-four (24) hours in advance. Delivery shall be F.O.B. destination prepaid and allowed.

#### 5.3 **Title:**

- 5.3.1 All documents required to obtain a State of Ohio Title 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.
- 5.3.2 After signature by the Division of Fleet Management, an Ohio Certificate of Title 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.
- 5.3.3 All titles are to be made out to City of Columbus, 4211 Groves Rd, Columbus, Ohio 43232.
- 5.4 **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 shown on the purchase order ensure proper payment.
- 5.5 **Expedited Shipment**: In cases when parts are needed immediately and not available for pick up, the agency may request that it be shipped the quickest way possible. The exact price must be determined and agreed upon by an appointed designee and a notation included on the order before authorization is granted for an expedited order. The additional charge shall cover freight charges for shipping the part from the supplier. Such charges should be shown separately on the invoice and a copy of the freight invoice will be attached to the invoice upon submittal.

## 6.0 **NOTES**

- 6.1 **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.

- 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 of 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).

#### 6.3 **Manuals**

- 6.3.1 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.
- 6.4 **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 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.

#### APPENDIX A

## PERFORMANCE QUESTIONNAIRE – **BUCKET TRUCKS**

То:	(Name of person completing survey)
Phone:	Fax:
Subject	: Past Performance Survey of:
	(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)	
2	Ability to financially perform in the best interest of the	(1-10)	
	client and citizens		
3	Ability to maintain schedules and meet deadlines	(1-10)	
4	Ability to increase value	(1-10)	
5	Quality of service	(1-10)	
6	Ability to identify and minimize the users risk	(1-10)	
7	Leadership ability (minimize the need of owner/client	(1-10)	
	direction)		
8	Your comfort level in hiring the firm/individual again	(1-10)	
	based on performance		

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).

#### **APPENDIX B**

## **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.**

- 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 t ransportation, 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

Breakfast

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

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

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.

#### 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

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.

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

Prepared by:

Hugh J. Dorrian City Auditor

### **Non-Collusion Affidavit**

### (This affidavit must be executed for the proposal to be considered)

State of	)	
County	)	
		, being first duly
president, secretary, etc.) of the parameter and not collusive or sham; that said business way with any other bidde connived or agreed, directly or indicated other person shall refrain from biddingreement or collusion, or communaffiant or any other bidder or to see person or persons interested in the proposal or bid are true; and further	arty making the foregoined bidder is not financially on the same Contract frectly, with any bidder of ding, and has not in any nication or conference, cure any advantage against that such bidder has	"(sole owner, a partner, ag proposal or bid; that such bid is genuine ly interested in, or otherwise affiliated in a that said has not colluded, conspired, or person, to put in a sham bid, or that such manner directly or indirectly, sought by with any person, to fix the bid price of ainst the City of Columbus, Ohio or any ad that all statements contained in said not directly or indirectly submitted this bid, ative thereto to any association or to any
		Signature of Affiant
Sworn to and subscribed before m	e this day of	, 20
Notar	ry public in and for	
(Seal)	(county)	(state)
My commission expires:		



### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 08/28/2020

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.

tŀ	SUBROGATION IS WAIVED, subject his certificate does not confer rights to					lorsement(s)		require an endorsemer	it. A St	atement on
	DUCER GRIFF, SEIBELS & WILLIAMS, INC.				NAME:	bridgette ra		FAV		
P.O	. Box 10265				PHONE (A/C, No, Ext): 800-476-2211 FAX (A/C, No):					
Birn	ningham, AL 35202				É-MAIL ADDRES	ss: btaul@mcgr	riff.com			
						INS	URER(S) AFFOR	DING COVERAGE		NAIC #
					INSURE	R A :Lexington I	nsurance Com	pany		19437
INSU Alte	IRED c Industries, Inc.				INSURE	R в :Hartford Fi	re Insurance C	ompany		19682
520	1 West 84th Street				INSURE	R C :Trumbull In	surance Comp	pany		27120
inai	anapolis, IN 46268				INSURE	R D :Hartford Ca	asualty Insuran	ce Company		29424
					INSURE	RE:				
					INSURE	RF:				I
				NUMBER: KCMFDJBS				REVISION NUMBER:		
IN C	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RE ERTIFICATE MAY BE ISSUED OR MAY F XCLUSIONS AND CONDITIONS OF SUCH	QUIF PERT	REME	NT, TERM OR CONDITION THE INSURANCE AFFORD	OF AN'	Y CONTRACT THE POLICIES EDUCED BY P	OR OTHER IS DESCRIBEINALD CLAIMS.	DOCUMENT WITH RESPE	CT TO	WHICH THIS
INSR LTR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s	
Α	X COMMERCIAL GENERAL LIABILITY			013136094		06/01/2020	06/01/2021	EACH OCCURRENCE	\$	5,000,000
	CLAIMS-MADE X OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	3,000,000
								MED EXP (Any one person)	\$	N/A
		Х						PERSONAL & ADV INJURY	\$	5,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	10,000,000
	X POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$	10,000,000
	OTHER:								\$	
В	AUTOMOBILE LIABILITY			21CSES27903		06/01/2020	06/01/2021	COMBINED SINGLE LIMIT (Ea accident)	\$	3,000,000
	X ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS ONLY AUTOS	Х						BODILY INJURY (Per accident)	\$	
	X HIRED X NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
	AUTOS ONEI							(i ci accident)	\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	-
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION \$								\$	
C	WORKERS COMPENSATION			21WNS27900 (AOS)		06/01/2020	06/01/2021	X PER STATUTE OTH-		
D	AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE			21XWES27902 (AL,MO,NC)				E.L. EACH ACCIDENT	\$	1,000,000
	OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A						E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	1,000,000
									\$ \$	
									\$ \$	
									\$	
	CRIPTION OF OPERATIONS / LOCATIONS / VEHICL of Columbus is Additional Insured under G							ed)		
<u>C</u>	DTIEICATE HOLDED				CANG	CILATION				
UE	RTIFICATE HOLDER				CANC	ELLATION				
City	of Columbus				THE	EXPIRATION	N DATE THE	ESCRIBED POLICIES BE C EREOF, NOTICE WILL E Y PROVISIONS.		
Flee	et Management 1 Groves Rd umbus, OH 43232				AUTHOI	RIZED REPRESEI	NTATIVE	John		

AGENCY CUSTOMER ID:	
LOC#	



### **ADDITIONAL REMARKS SCHEDULE**

Page 2 of 2

PRODUCER MCGRIFF, SEIBELS & WILLIAMS, INC.		INSURED Altec Industries,	inc.
POLICY NUMBER			
CARRIER	NAIC CODE		
		ISSUE DATE:	08/28/2020
·	•		·

### ADDITIONAL REMARKS

l	THIS ADDITIONAL RE	HIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,						
l	FORM NUMBER:	FORM TITLE:						
	Garagekeepers C	overage						
	Policy Number: Carrier:	21CSES27903 Hartford Fire Insura	ice Company					

Auto Liability Limit: \$1,000,000

Policy Effective: 6/1/2020 Policy Expiration: 6/1/2021

### Non-Collusion Affidavit

# (This affidavit must be executed for the proposal to be considered)

State of	Indiana			
County	Marion	)		
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# SERVICE TRAINING GUIDE 2020



### **About Us**

Altec aims to be your preferred supplier of products, services and solutions in all markets we serve.

Customers come first to us. Let us know what maintenance training can benefit you.



Altec is a leading provider of products and services to the electric utility, telecommunications, tree care, lights and signs, and contractor markets. We deliver products and services in more than 100 countries throughout the world.

Since 1929, Altec has been a company committed to excellence. Our products are the industry leaders and consistently raise the bar through innovative product design, integrated safety features and continued dedication to total customer satisfaction.

The history, tradition and culture of Altec are founded on our values:

- Customer first
- Enjoyment of work
- Family
- Financaial stability
- Integrity

- People are our greatest strength
- Quality
- Spiritual development
- Teamwork

Altec promotes an environment built on teamwork where knowledge is shared, and innovative solutions are the result. The expertise of our team is as critical to our success as the effectiveness of our products and solutions.

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Sign Up Tel: 816.901.4894 Email: technicaltraining@altec.com



Find Lodging

Some locations offer a reduced rate for Altec training guests. When calling to make reservations at the specified location, ask for the Altec rate.

# **Altec Service Technical Training**



The Altec Service Technical Training Department offers specialized instruction with hands on and classroom time for mechanics. The training emphasizes how Altec equipment functions and how it can be maintained and repaired. Technicians participate in exercises to test, diagnose and repair unt systems and components.

Customers can request unit specific and/or tailored

Sign Up 816.901.4894 technicaltraining@altec.com

Find Lodging
Some locations offer a reduced rate for Altec training guests. When calling to make reservations at the specified location, ask for the Altec rate.

on-site training programs.
Additionally, individuals can participate in classes held throughout the year at Altec Service Centers across the United States and Canada.

The Altec Customer
Boot Camp provides an
introduction to basic
hydraulic and electrical
systems and an introduction
to the power distribution
module (PDM) for newly
hired technicians or seasoned
technicians.

In-depth trainings on hydraulic, electrical and PDM are available to give technicians the building blocks needed to better understand mechanical systems.

Unit specific trainings offer technicians an overview of internal machine functions. These classes are standardized based on Altec Maintenance Manuals and cover an introduction to the unit, maintenance safety, unit operation, preventive maintenance, unit inspection and minor troubleshooting and repairs. Upon completion of the program, trainees should be able to successfully and efficiently perform scheduled maintenance on equipment. Before enrolling in unit specific trainings, Altec recommends technicians attend Altec Customer Boot Camp, enroll in Altec online maintenance training or otherwise have a basic aptitude of electrical and mechanical systems.

Fluid Power Society (FPS) review and test preparation sessions are also offered by Altec to give mechanics and technicians the ability to earn FPS Mobile Hydraulic Mechanic certifications.



# Online maintenance training at store.altecsentry.com/catalog

Technicians complete online maintenance courses at their own pace.

Online courses work well for technicians unfamiliar with a unit and to prepare for on-site training shown in the following pages.



# **Unit Specific Maintenance Training**

### **Introductory Level eCourses**

Self-paced (1 hour)

Introductory maintenace courses for some Altec units are now online for purchase. Each course can be completed in approximately one hour at the learner's convenience and pace. The courses allow learners to navigate through unit systems and components to better understand inspections and repairs. These introductory courses are a good starting point for technicians who are unfamiliar with a specific Altec unit and can serve as solid preparation for the live, unit specific trainings listed in this catalog.

### **Course Content**

- Unit specifications
- Safety
- Preventive maintenance and inspection
- Hydraulic system(s)
- Mechanical system(s)
- Electrical system(s)
- Troubleshooting

#### eCourse units include:

- A-T40C
- AA/AN/AN-OC
- AM50/55/50
- AT200A
- AT30-G/AT35-G/AT37-G
- AT40-G
- DLB/DMB
- T40P
- TA50/55/60



## **Basic Training**



# **Altec Customer Boot Camp**

### **Basic Training Package**

Four Days (32 hours)

The basic fundamentals of hydraulics and electrical systems, an introduction to the power distribution module (PDM) and an introduction to troubleshooting are taught in this hands on course. This training focuses on proper interpretation of schematic drawings and the ability to apply functional troubleshooting applications to real life situations. Upon completion of this training, technicians will receive written and hands on assessments to demonstrate proficiency and comprehension of presented material.

- Maintenance safety
- Fundamentals of hydraulics
- Fundamentals of electricity
- PDM introduction
- Component identification
- Schematics
- DVOM and test light usage
- Component testing
- Hands on labs



# **Electrical Systems**

### Introduction to Electrical Systems

Two Days (16 hours)

This course uses hands on, activity-based exercises to develop a basic understanding of electrical theory, components, circuits, Altec wiring diagrams and the use of a Digital Volt Ohm Meter (DVOM). It also covers safety, interpretation and testing applications. Technicians progress through the basics of schematics, wiring principles and testing procedures. Technicians use a DVOM and learn when test lights can safely be used. The course culminates with a hands on lab for technicians to apply theoretical learning to situational applications with equipment and live circuits.

- Safety
- Fundamentals of electricity
- Components
- Schematics and wiring
- DVOM and test light usage
- Component testing
- Hands on lab

# **Basic Training**



# **Hydraulic Systems**

# Introduction to Hydraulic Systems

One Day (8 hours)

The course begins with basic hydraulic principles and progresses to intermediate and advanced concepts. Upon completion of this course, technicians should understand:

- Basic physical laws as they apply to fluid power
- Typical hydraulic systems components
- How components function and interact
- · Hydraulic schematics

- Safety
- Prime mover connections
- Fluids and fluid conditioning
- Pumps
- Actuators
- Pressure controls
- Directional controls
- Flow control
- Accessory components
- Fluid conductors
- Schematics and design



# **Power Distribution Module (PDM)**

### **PDM Familiarization**

Two Days (16 hours)

This course familiarizes technicians with accessory circuits which include switched, battery-hot and ignition-hot circuits. Participants also learn about function circuits such as start/stop, secondary stowage operation, PTO operation and throttle. Technicians participate in hands on labs to learn about functional wiring and circuit troubleshooting. They also learn how to work within the PDM while maintaining personal and component electrical safety.

- Familiarization
- Pre-wired
- Accessory circuits
- Function circuits
- Troubleshooting
- Stop/start card throttle circuits
- · Speed card throttle circuits
- PTO circuits
- Stop/start card circuits
- Hands on labs

### **Basic Training**





# **Controller Area Network (CAN)**

## Advanced Electrical System Training

Course length varies based on unit.

Altec Controller Area Network (CAN) training is part of unit specific course for Altec products with features that use the advanced electrical system communication. Advanced control and diagnostic capabilities are afforded by systems that use CAN. Altec uses CAN across many different models. Some units are equipped with simple protection systems on otherwise completely hydraulic units. Other units have complete control systems using CAN communication to manipulate the position of the unit.

#### **Course Content**

- Fundamentals of CAN communication
- How unit specific components use CAN
- Troubleshooting system errors
- Hands on troubleshooting practice and diagnostics on the unit

### **CAN-Based Systems or Features**

Some of the units which feature CAN are listed below.

- Unit Control System
   AD108E and E-Series Derricks (DH-E,
   D3000E, DT65E)
- Zone Rating System
   DH-H and DH-B Derricks
- Platform-to-Ground Enhancement AN67-E100 with material-handling package
- Rotation Interlock
   LS87, LS60
- Load Monitoring System
   AT40-G, L42A, AA55, AN55-OC
  - JEMS
    AT series, L series, TA series, AA
    series, AM series
- Vehicle Engine Interface DB37, DB41B, TDA58

## **Unit Specific Training**



# **Specific Units**

Course lengths vary based on unit as listed on page 16.

Unit specific trainings reinforce best maintenance safety practices and introduce unit specific knowledge. Trainees are given the opportunity to learn both the theoretical and practical skills needed to perform preventive maintenance, inspections, minor troubleshooting and repairs. Upon completion of the selected training, technicians will be able to demonstrate applied knowledge of the unit's hydraulic, mechanical and electrical systems.

Refer to the Course Index on page 16 to identify unit specific trainings.

### **Course Categories**

- Small aerials
- Large aerials
- Tree care
- Telecom
- Lights and signs
- Digger derrick
- Specialty
- Crane

- Safety
- Unit operation
- Preventive maintenance
- Unit inspection
- Minor troubleshooting and repairs

## **Digger Derrick**



# Derrick Schools Multiple Unit Training

These trainings are designed for the development of technicians by reinforcing best maintenance safety practices and introducing unit specific knowledge. Trainees are given the opportunity to learn both the theoretical and practical skills needed to perform preventive maintenance, inspections, minor troubleshooting and repairs. Upon completion of this training, technicians will be able to demonstrate applied knowledge of the unit's hydraulic, mechanical and electrical knowledge of Altec's multiplexed-controlled derricks.

### **Derrick School 1**

Four Days (32 hours)

The following derricks with electric-overhydraulic control systems are covered in this training:

- DL/DM w/B series
- D2-3-4000A/B
- DT-80
- DB37
- DR42B
- DH45B-DH48B-DH50B

### **Derrick School 2**

Three Days (24 hours)

The following derricks with hydraulic and hydraulic-over-hydraulic control systems are covered in this training:

- D3000H
- DC
- DH45-DH48-DH50H
- DT65H



# Crane Schools Multiple Unit Training

These trainings build on the similarities of Altec's pilot-operated cranes. Trainees gain unit specific knowledge, best safety, maintenance and inspection standards, in addition to the theoretical and practical skills necessary for minor troubleshooting and repairs. Trainees learn about the radio remote and the Hirschmann system. Participants also learn the correct way to calibrate and to check that each system is working correctly. Upon completion of this course, technicians will be able to demonstrate applied hydraulic, mechanical and electrical knowledge of Altec's pilot-operated cranes.

### **Crane School 1**

Five Days (36 hours)

This course uses the AC38 as its foundation and includes instruction for the Greer system for when units are in platform mode. The following units are covered in this training:

- AC18
- AC23
- AC26
- AC38

### **Crane School 2**

Four Days (32 hours)

This course uses the AC40 as its foundation and includes instruction for the A92 system for when the units are in platform mode. The following units are covered in this training:

- AC40
- AC45

### **Cranes**



# **10-Year Inspection**

### **Unit Specific Training**

Five Days (40 hours)

This training goes through full disassembly and reassembly of a crane boom while performing the inspection process. Any testing that needs to be done before and after taking the boom apart will be completed so the whole process can be done from start to finish. The AC38 boom is the primary unit used for this course.

### Course Content

- Safety
- Crane boom disassembly
- Crane boom reassembly
- Unit inspection

#### Overview

This training is designed for the development of technicians by reinforcing best maintenance safety practices and introducing unit specific knowledge. Trainees are given the opportunity to learn both the theoretical and practical skills needed to perform preventive maintenance, inspections, minor troubleshooting and repairs. Upon completion of this training, technicians will be able to demonstrate applied knowledge of the unit's hydraulic, mechanical and electrical systems.



# Effer Knuckleboom Crane: Basic and Intermediate

### **Unit Systems Training**

Four Days (32 hours)

This training covers Effer systems and components. It includes most Effer models and options, preventive maintenance, and intermediate troubleshooting and repairs.

#### **Course Content**

- Model and options identification
- Preventive maintenance
- Systems and components: identification and function
- Felling grapple maintenance and repairs
- Intermediate troubleshooting and repairs

### **Overview**

This training is designed for the development of technicians by reinforcing best maintenance safety practices and introducing intermediate troubleshooting techniques. Trainees are given the opportunity to learn both the theoretical and practical skills needed to perform preventive maintenance inspections and intermediate troubleshooting and repairs. Upon completion of this training, technicians will be able to and demonstrate applied knowledge of the unit's systems.

### **Hybrid Systems**



# JEMS Unit Systems Training

Course lengths vary with system as listed on page 16.

JEMS courses are intended to provide technicians with an understanding of the fundamental operational principles on a specific hybrid system. The courses include hands on exercises in diagnosis and repairs of a hybrid system. Various tools are used along with schematics to test system and component functionality. After completing a course, trainees should have a better understanding of the electrical and hydraulic components used in the hybrid system and be better able to test and diagnose the system as needed.

#### **Course Content**

- System safety
- System overview and operations
- Hands on component overview
- Hydraulic system overview
- Electrical system and circuit overview
- Testing of the electrical systems
- Minor troubleshooting and repairs

#### Courses

- AT JEMS
- AT JEMS +IMS
- L JEMS
- L JEMS +IMS
- JEMS 2A\*
- JEMS 4A
- JEMS 4E4
- JEMS 6E6
- JEMS 12E8
- JEMS 1820
- JEMS 18E20
- JEMS DC Drive\*

Each course stands alone.

\* Indicates courses that can be requested in combination with a unit specific training



# **Mobile Hydraulic Mechanic Certification**

Five Days (40 hours)

This training includes an FPS review and test preparation session to give mechanics and technicians the ability to earn the FPS Mobile Hydraulic Mechanic certification. The first four days consist of a review of hydraulic maintenance, field repairs, shop repairs, troubleshooting responsibilities and practice hands on tests. The FPS Mobile hydraulic Mechanic and Job Performance tests are administered on the fifth day. This course is facilitated by Altec and FPS accredited instructors and follows the training curriculum set by FPS. Note: this course is not designed to replace individual preparedness.

### **FPS Subject Matter Outline**

### Maintenance

- Replace an SAE O-ring fitting.
- Add hydraulic fluid to the reservoir.
- Replace hydraulic filters.
- Make up a crimped hose assembly.
- Align hoses and fittings.
- · Check the condition of hydraulic filters.
- Examine hydraulic fluid for debris (contamination).
- Set the pressure relief valve.
- Inspect a hydraulic or pneumatic cylinder for internal and external leaks.
- Check (rod) seals and packings for wear.
- Inspect pumps and fluid motors for leaks.
- Adjust a hydraulic packing gland.
- Draw a fluid sample from the reservoir.
- Make a flared tube assembly.
- Inspect a cylinder for binding.
- Make up a tube assembly.
- Test petroleum fluid for water.
- Check a reservoir for silt build up.
- Charge a hydropneumatic accumulator.

### **Field Repairs**

- Replace a hose assembly.
- Verify the operating pressure with a gauge.
- Verify the relief valve setting.
- Replace a hydraulic cylinder.
- Check cylinder alignment and mounting.
- Check directional control valve solenoids.

### **Shop Repairs**

- Replace a hydraulic pump unit.
- Drain, flush and refill a system.
- Replace a directional control stack valve (module).
- Mount a pump and align the shaft coupling.
- Replace a hydraulic motor unit.
- Replace a pressure relief valve.
- Install an overhaul kit in a hydraulic cylinder.

### **Troubleshooting**

- Determine why a cylinder will not extend.
- Determine the cause of no, low or high pressure.
- Identify components in a circuit diagram.
- Determine why a cylinder fails to hold the load.
- Determine why system operation is erratic.
- Determine the cause of excessive heat.
- Determine the cause of no flow, low flow or high flow.

# **Course Index**

Model/Course	Course Length	Page	Model/Course	Course Length	Page
Basic Training			Digger Derricks		
Altec Customer Boot Camp	4 Days (32 hours)	4	DB37	1 Day (8 hours)	9
Electrical Systems	2 Days (16 hours)	5	DB41B	2 Days (16 hours)	9
Hydraulic Systems	1 Day (8 hours)	6	DR41B/DR42B	2 Days (16 hours)	9
Power Distribution	1 Day (O Hours)		DL-B/DM-B	3 Days (24 hours)	9
Module	2 Days (16 hours)	7	DC45/47	2 Days (16 hours)	9
Controller Area Network		8	DH45/48/50H	2 Days (16 hours)	9
Controller Area Network	Varies	8	DH45/48/50B	2 Days (16 hours)	9
Small Aerials			D2/3/4000A/B	3 Days (24 hours)	9
AT30/35/37-G	1 Day (8 hours)	9	E-Series:	, ,	
AT37-GW	1 Day (8 hours)	9	DH-E, D3000E, DT65E	2 Days (16 hours)	9
AT40-GW	2 Day (16 hours)	9	D3000H	2 Days (16 hours)	9
AT36/40M/S/P	1 Day (8 hours)	9	DT65H	2 Days (16 hours)	9
AT37/41/48 M/P/S	1 Day (8 hours)	9	DT80	2 Days (16 hours)	9
AT37-41-48 ME/PE/SE	2 Days (12 hours)	9	DT105	2 Days (16 hours)	9
AT40-G	2 Days (12 hours)	9	Derrick School 1	4 Days (32 hours)	10
L36A/L42A	1 Day (8 hours)	9	Derrick School 2	3 Days (24 hours)	10
L37M/L42-45M	1 Day (8 hours)	9		0 2 day 0 (= 1 1.10 day 0)	
TA36/37M/40/41M/45M	1 Day (8 hours)	9	Specialty		
TA50/55/60	1 Day (8 hours)	9	HW80	2 Days (16 hours)	9
L42-44E	1 Day (8 hours)	9	HW145	2 Days (16 hours)	9
L72	1 Day (O Hours)	,	LP108	2 Days (16 hours)	9
Large Aerials			AD108	2 Days (16 hours)	9
	0 Day (10 hayre)	0	AD108E	2 Days (16 hours)	9
AA/AN/AN-OC	2 Day (16 hours)	9	HD35A	2 Days (16 hours)	9
ALB	1 Day (8 hours)	9	TS40-PT/TS336-BW	1 Day (8 hours)	9
AM50/55/60	2 Day (16 hours)	9	Cuamas	• • •	
A-Class:	. 1 D (0 L )	•	Cranes		
A65/70/75/72-T/77-T/82-T	1 Day (8 nours)	9	AC18/23/30/35/38	3 Days (24 hours)	9
A-Class:	1.5 (0.1 )	_	AC40/45	3 Days (24 hours)	9
A47/50/55/55E-OC	1 Day (8 hours)	9	Crane School 1	5 Days (36 hours)	11
AH75/85/100	3 Days (24 hours)	9	Crane School 2	4 Days (32 hours)	11
AH75/85/100A	3 Days (24 hours)	9	10-Year Inspection	5 Days (40 hours)	12
AH125	3 Days (24 hours)	9	Effer Knuckleboom Crane:		
AH150	3 Days (24 hours)	9	Basic and Intermediate	4 Days (32 hours)	13
HL125	3 Days (24 hours)	9	Hybrid Systems		
Tree Care Aerials			AT JEMS	1 Day (8 hours)	14
			AT JEMS +IMS	2 Days (12 hours)	14
LRV/LR7/LRV60E70/	1 Day (0 hay (1)	_	L JEMS	1 Day (8 hours)	14
LR760E70	1 Day (8 hours)	9	L JEMS +IMS	2 Days (12 hours)	14
Chippers	1 Day (8 hours)	9	JEMS 4A	2 Days (12 hours)	14
TDA58	1 Day (8 hours)	9	JEMS 4E4	2 Days (16 hours)	14
JT75	1 Day (8 hours)	9	JEMS 6E6		14
				2 Days (16 hours)	
Telecom Aerials			JEMS 1228	2 Days (16 hours)	14
AT200A/AT235	1 Day (8 hours)	9	JEMS 1820	2 Days (16 hours)	14
AT235P/AT237	1 Day (8 hours)	9	JEMS 18E20	2 Days (16 hours)	14
A-T40C	2 Days (12 hours)	9	JEMS 2A	1/2 Day (4 hours)	14
T40P	2 Days (16 hours)	9	JEMS DC Drive	1/2 Day (4 hours)	14
Linda and Cir. A int			Certification		
Lights and Signs Aerials			FPS Mobile Hydrualic		
AT248F	1 Day (8 hours)	9	Mechanic Certification	5 Days (40 hours)	15
LS60	2 Days (16 hours)	9	eCourses		
LS63	2 Days (16 hours)	9			
LS87	2 Days (16 hours)	9	Introduction to Unit Specific	Colf paged /1 have	, ,
			Maintenance: Online	Self-paced (1 hour)	3
16 ALTEC   ALTEC.COM/SE	ERVICE/TECHNICAL-TI	RAININ	G		



The material presented in technical training courses is intended to provide the technician with product specific content for the Altec Model selected. It should not be considered a replacement for general technical training in hydraulic and mechanical system maintenance. It is important that you have been trained and qualified in procedures for safe maintenance of mechanical systems including mobile equipment. This includes understanding potential exposure to electrical, mechanical, pinch/crush, chemical and hydraulic hazards during work. Some of the work described in the courses may require lock out/tag out of systems and/or securing parts against motion while performing our work. Always follow OSHA regulations, ANSI requirements and your employer's work rules. And remember, as a trained technician, it is your responsibility to evaluate the work and the equipment for hazards that may expose you or the user of the unit to injury.



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For more complete information on Altec products and services, visit us on the web at www.altec.com.

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Material and specifications are subject to change without notice. Featured units in photos may include optional features. Please contact an Altec representative for all available options.

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# Accessing Basic Operating Videos \_ and eCourses on Sentry OnLine \_

### Using Sentry Online and Registering Your Unit

Using the Altec Sentry Learning Management System is extremely easy. Below are the steps to activate your training program and view basic operating videos.

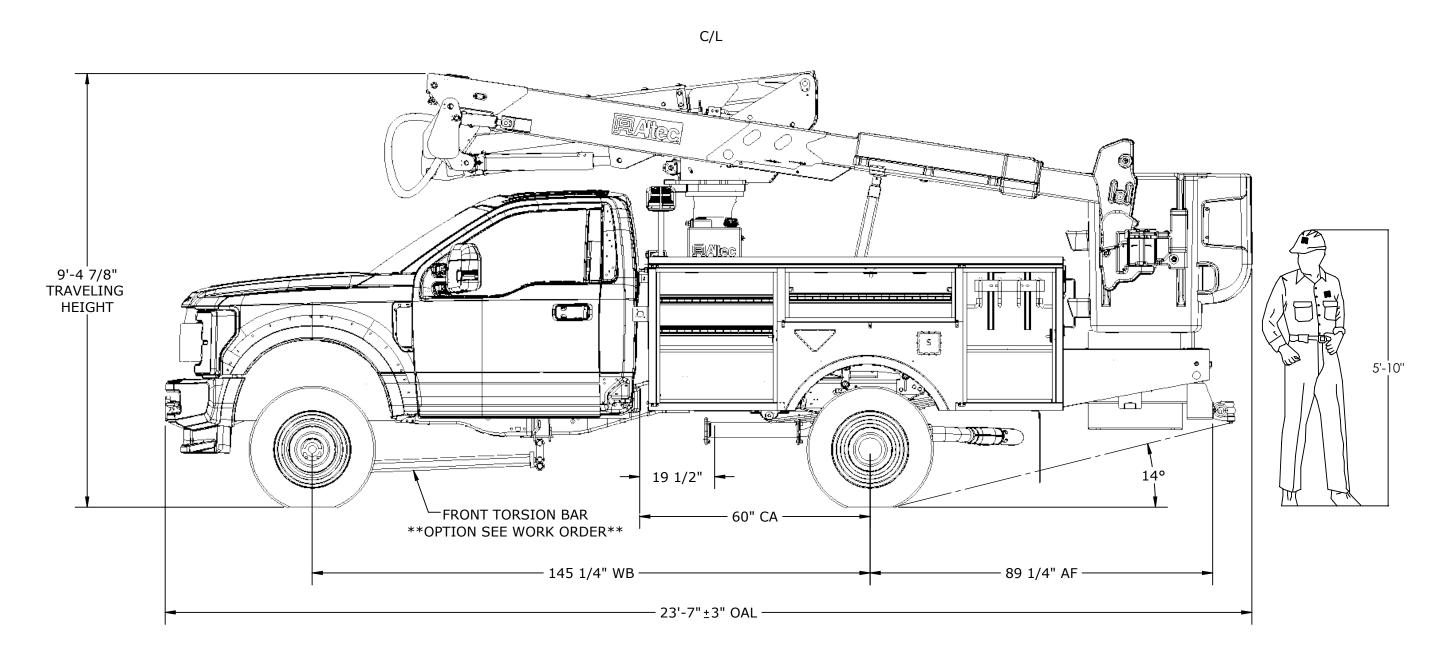
- Type the following URL in your Internet browser. http://store.altecsentry.com/store-catalog
- 2 Click on *Register Now* at the top of the screen (if you are an existing customer or have previously registered another unit, select *Login*).
- Enter the required information. Note The serial number and activation code are required to access the free Altec Sentry Operator Safety Training eCourse that corresponds to this unit. The activation code is on the cover of the Sentry Operator Workbook, which is located with the other manuals. The activation and serial number are not required to register as a Sentry Online user.
  - Once all required information has been entered in the appropriate fields, click on Create Account.
- The unit serial number and activation code will generate the appropriate eCourse for your registered unit. Click on *View Course* to proceed to the Altec Sentry Learning Management System (LMS).
- You will be redirected to the Altec Sentry LMS. The Altec Sentry LMS dashboard provides eCourse material and specific account settings, messages, and achievements (certificates). To access the eCourse material, click on *Continue to My Dashboard*.
- Click on the eCourse icon to begin the training.
- Clicking on *Go to Course* provides the user with access to the eCourse. Click on *Start This Course* to activate the eCourse material.
- Once the eCourse is complete, the Certificate of Completion will be available for viewing/printing in the *Achievements* tab by clicking *Download Certificate*.

### Using Sentry Online to Access Basic Operating Videos

Sentry Online's training site and free video content are connected. From the site (store.altecsentry.com), click on *My Courses* in the upper right hand corner to access your eCourses and videos. From the dashboard, click on the green *Store Link* to go back to the available eCourses and videos on the site.

- Access the free basic operating videos by clicking the green *Store Link* button at the top of the LMS dashboard or by navigating back to store.altecsentry.com.
- Click on Free Courses in the top toolbar.
- Click on the video of your choice.
- Click Add to Cart.
- If this information is correct, click *Begin Checkout*. Note Videos identified as *Free* will not require a credit card to check out.
- Assign the video to yourself by clicking Assign to Me or you can assign it to someone else by clicking, Assign to Other. You must add the individual's email address so the individual receives the eCourse link. Follow any additional prompts.
- Click Continue to Billing.
- Click Complete Checkout.
- Once complete, an order confirmation will be generated. Click *My Courses* at the top of the screen to start the videos. Follow steps 5 through 7 from the previous section. Note Content located in the *Free Courses* section will not have corresponding assessments, certificates, or tracking of completion.

	REVISIONS		
SYM	DESCRIPTION	DATE	DRAWN
Α	RELEASED.	05/05/2014	C. NABER
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CHASSIS YEAR: 2019

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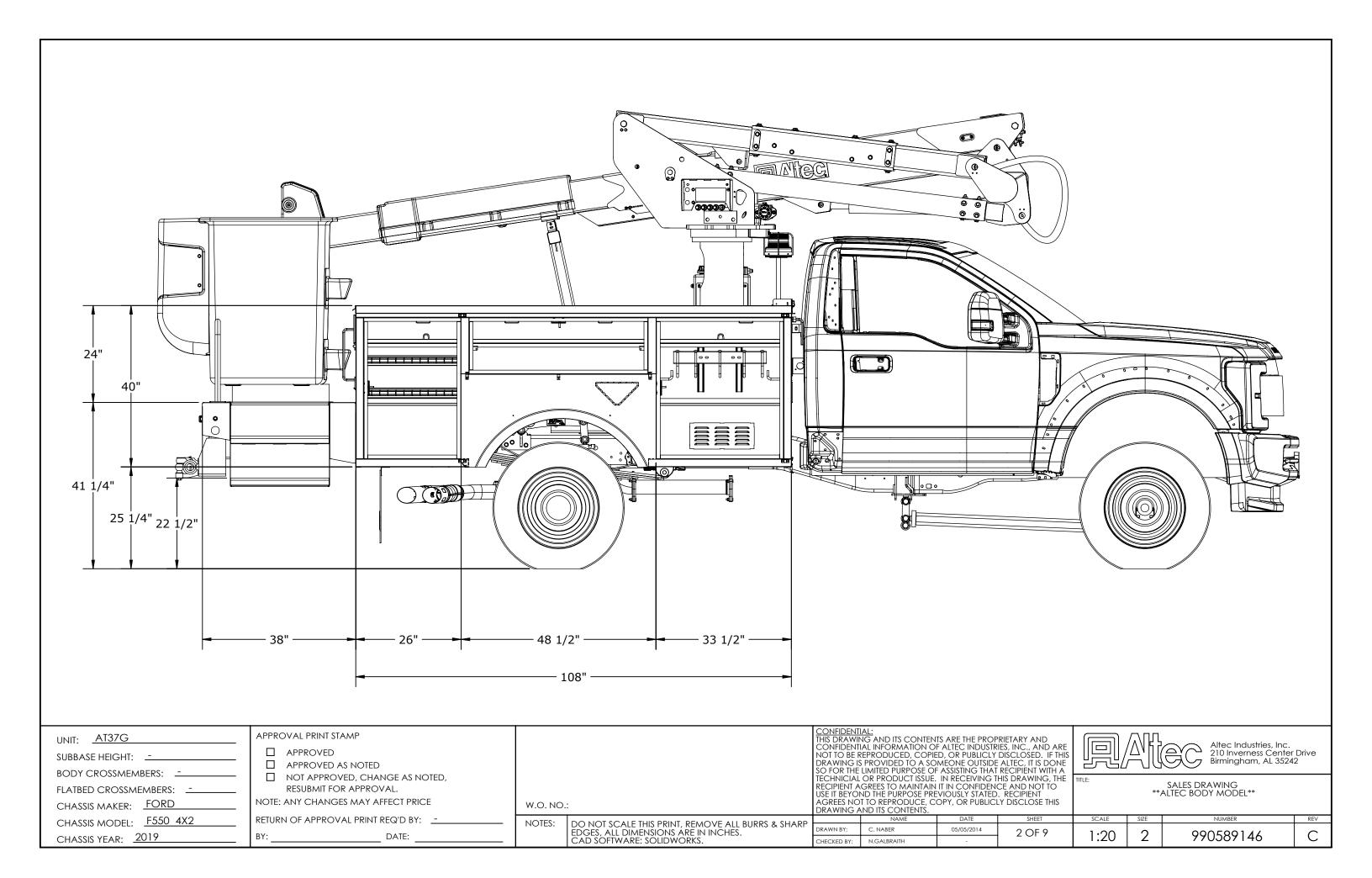
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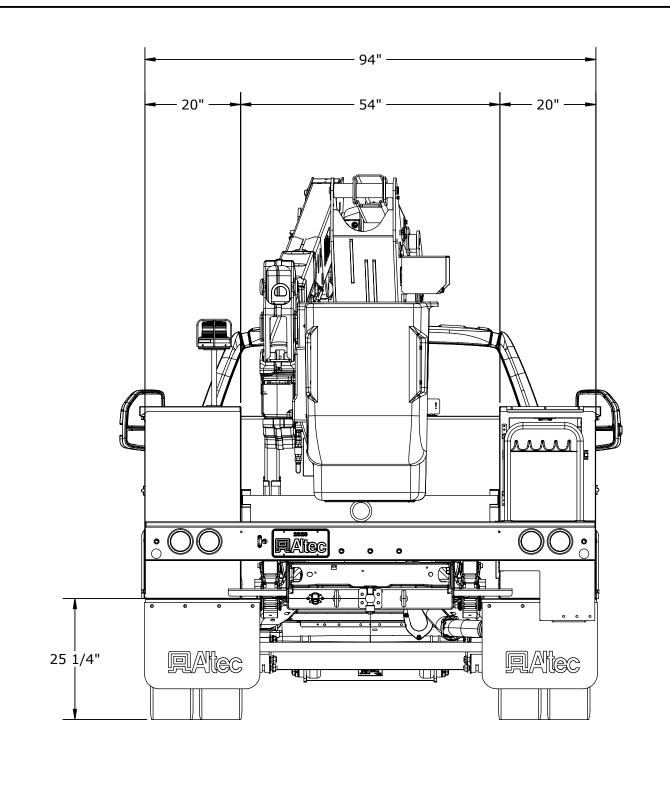
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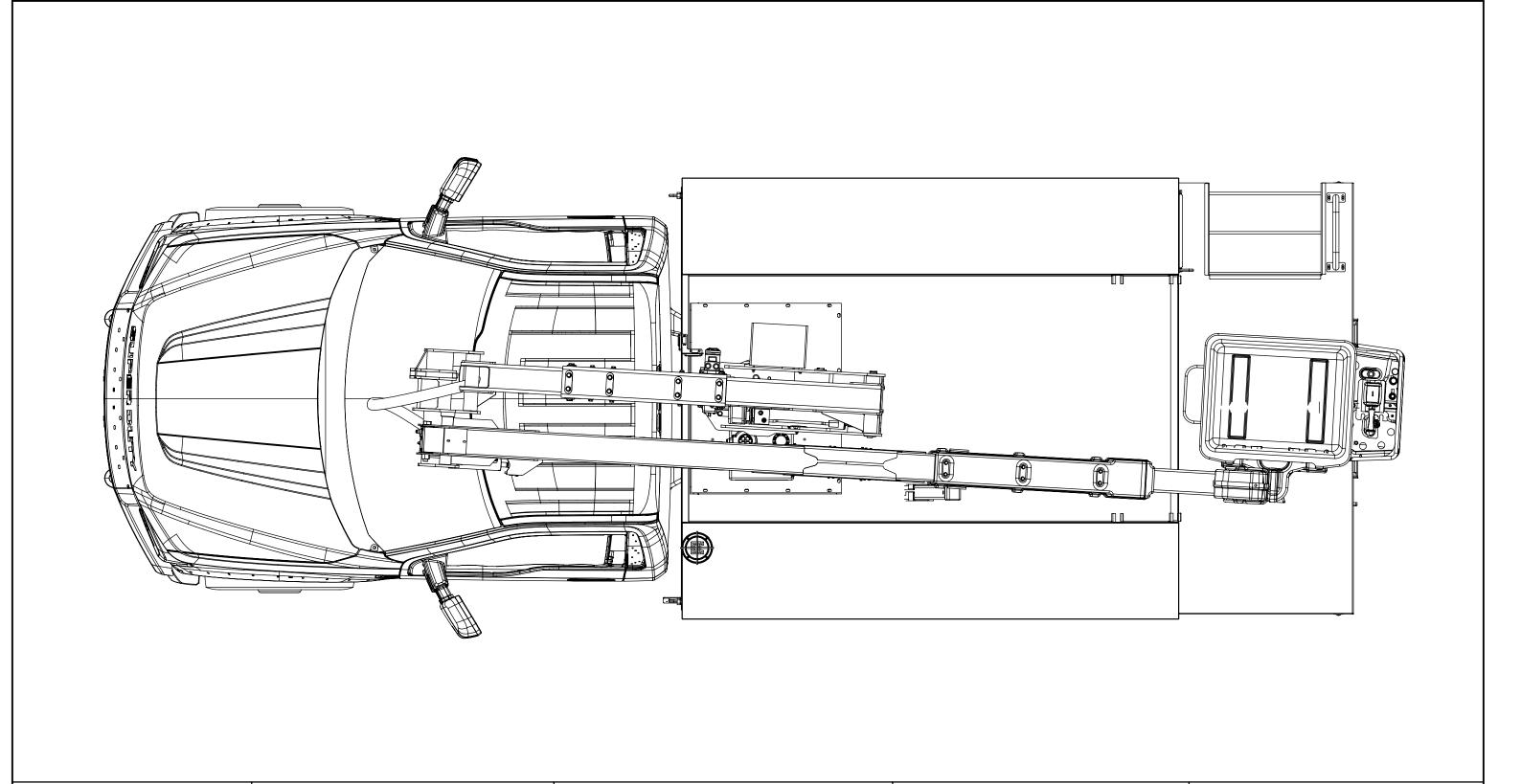
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SALES DRAWING \*\*ALTEC BODY MODEL\*\*





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FLATBED CROSSMEMBERS: CHASSIS MAKER: FORD	NOT APPROVED, CHANGE AS NOTED, RESUBMIT FOR APPROVAL. NOTE: ANY CHANGES MAY AFFECT PRICE	W.O. NO.:	TECHNICIAL OR PRODUCT ISSUE. IN RECEIVING THIS DRAWING, THE RECIPIENT AGREES TO MAINTAIN IT IN CONFIDENCE AND NOT TO USE IT BEYOND THE PURPOSE PREVIOUSLY STATED. RECIPIENT AGREES NOT TO REPRODUCE, COPY, OR PUBLICLY DISCLOSE THIS DRAWING AND ITS CONTENTS.			SALES DRAWING **ALTEC BODY MODEL**				
Chassis model: F550 4X2	RETURN OF APPROVAL PRINT REQ'D BY:	NOTES: DO NOT SCALE THIS PRINT, REMOVE ALL BURRS & SHARP		NAME	DATE	SHEET	SCALE	SIZE	NUMBER	REV
	BY: DATE:	EDGES, ALL DIMENSIONS ARE IN INCHES.	DRAWN BY:	C. NABER	05/05/2014	3 OF 9	1:20	2	990589146	
CHASSIS YEAR: 2019	DATE	CAD SOFTWARE: SOLIDWORKS.	CHECKED BY:	N.GALBRAITH			1.20		770307140	



UNIT: AT37G
SUBBASE HEIGHT:
BODY CROSSMEMBERS:
FLATBED CROSSMEMBERS:
Chassis maker: <u>FORD</u>
CHASSIS MODEL: F550 4X2
CHASSIS YEAR: 2019

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SALES DRAWING
\*\*ALTEC BODY MODEL\*\*

C. NABER 05/05/2014 4 OF 9 1:20 990589146 CHECKED BY: N.GALBRAITH



UNIT: AT37G		Α			
SUBBASE HEIGHT:					
BODY CROSSMEMBERS:					
flatbed crossmembers:					
Chassis maker: <u>FORD</u>		N			
Chassis model: <u>F550_4X2</u>		RE			
CHASSIS YEAR: 2019		В			

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\*\*ALTEC BODY MODEL\*\*

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UNIT: AT37G  SUBBASE HEIGHT:  BODY CROSSMEMBERS:	APPROVAL PRINT STAMP  APPROVED APPROVED AS NOTED NOT APPROVED, CHANGE AS NOTED, RESUBMIT FOR APPROVAL.  NOTE: ANY CHANGES MAY AFFECT PRICE			CONFIDENTIAL: THIS DRAWING AND ITS CONTENTS ARE THE PROPRIETARY AND CONFIDENTIAL INFORMATION OF ALTEC INDUSTRIES, INC., AND ARE NOT TO BE REPRODUCED, COPIED, OR PUBLICLY DISCLOSED. IF THIS DRAWING IS PROVIDED TO A SOMEONE OUTSIDE ALTEC, IT IS DONE SO FOR THE LIMITED PURPOSE OF ASSISTING THAT RECIPIENT WITH A			S     \( \begin{aligned} \lefta \ 210 \\ \text{Inverness Center Drive} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\					
FLATBED CROSSMEMBERS: - CHASSIS MAKER: FORD		W.O. NO.:		TECHNICIAL OR PRODUCT ISSUE. IN RECEIVING THIS DRAWING, T RECIPIENT AGREES TO MAINTAIN IT IN CONFIDENCE AND NOT TO USE IT BEYOND THE PURPOSE PREVIOUSLY STATED. RECIPIENT AGREES NOT TO REPRODUCE, COPY, OR PUBLICLY DISCLOSE THIS DRAWING AND ITS CONTENTS.			CE AND NOT TO . RECIPIENT	SALES DRAWING  **ALTEC BODY MODEL**				
Chassis model: <u>F550_4X2</u>	RETURN OF APPROVAL PRINT REQ'D BY:	NOTES:	DO NOT SCALE THIS PRINT, REMOVE ALL BURRS & SHARP		NAME	DATE	SHEET	SCALE	SIZE	NUMBER	REV	
CHASSIS YEAR: 2019	BY: DATE:			EDGES, ALL DIMENSIONS ARE IN INCHES. CAD SOFTWARE: SOLIDWORKS.	DRAWN BY: CHECKED BY:	C. NABER N.GALBRAITH	05/05/2014	6 OF 9	1:20	2	990589146	С



UNIT: AT37G
SUBBASE HEIGHT:
BODY CROSSMEMBERS:
FLATBED CROSSMEMBERS:
CHASSIS MAKER: <u>FORD</u>
CHASSIS MODEL: <u>F550 4X2</u>
CHASSIS YEAR: 2019

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DATE
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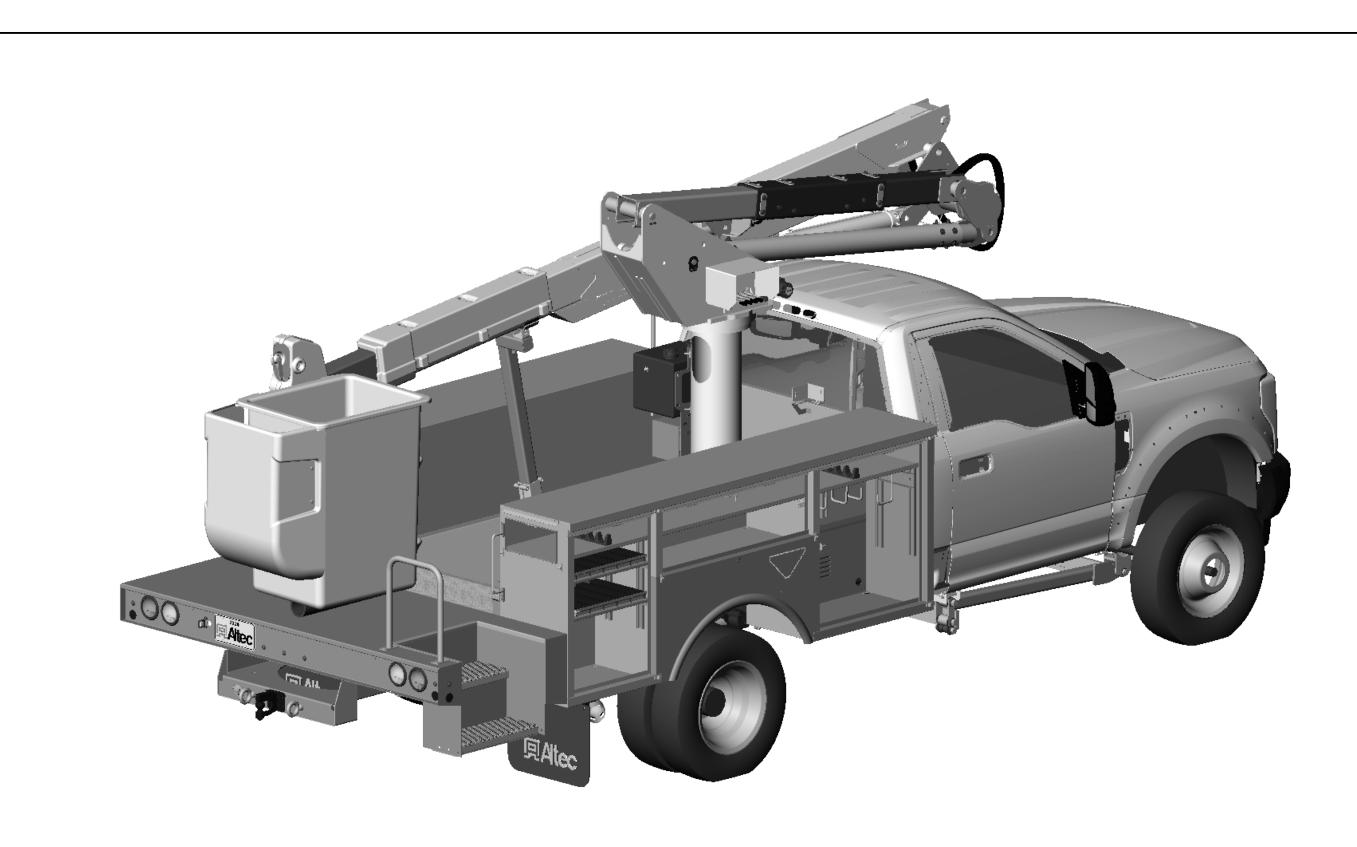


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SALES DRAWING
\*\*ALTEC BODY MODEL\*\*

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 NAME
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 SIZE
 NUMBER
 REV

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 C. NABER
 05/05/2014
 7 OF 9
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UNIT:	AT37G
SUBBAS	SE HEIGHT:
BODY	CROSSMEMBERS:
FLATBE	d Crossmembers:
CHASS	IS MAKER: <u>FORD</u>
CHASS	IS MODEL: <u>F550</u> 4X2
CHASS	IS YEAR: 2019

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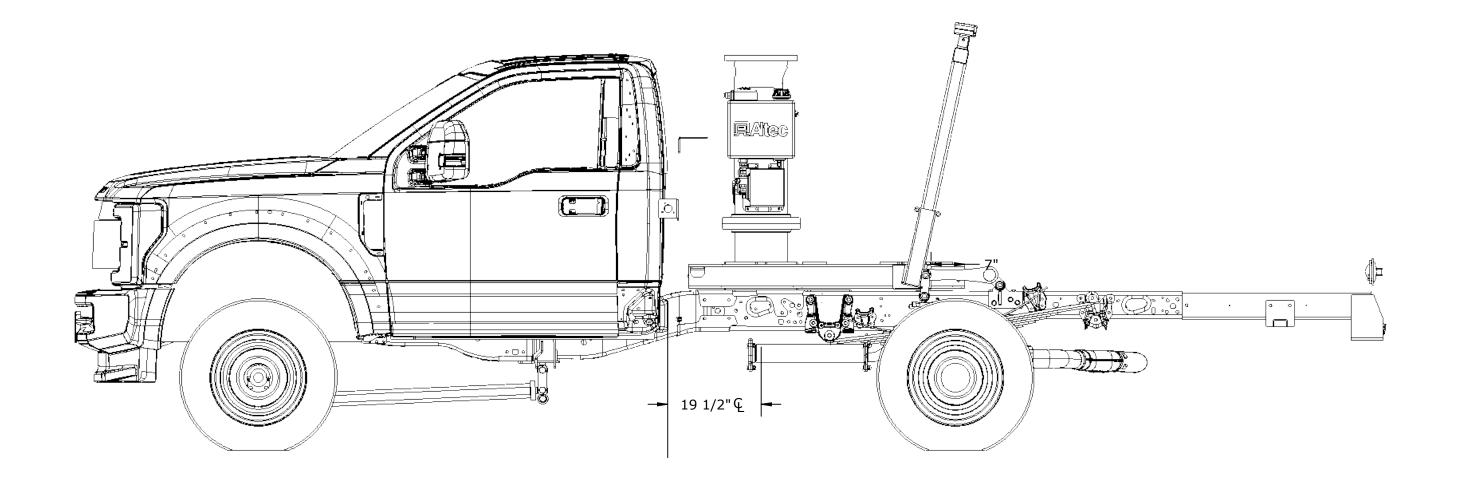


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SALES DRAWING
\*\*ALTEC BODY MODEL\*\*

05/05/2014 C. NABER 8 OF 9 2 С 1:20 990589146 CHECKED BY: N.GALBRAITH

C/L



UNIT: AT37G
SUBBASE HEIGHT:
BODY CROSSMEMBERS:
FLATBED CROSSMEMBERS:
CHASSIS MAKER: <u>FORD</u>
Chassis model: <u>F550 4x2</u>
CHASSIS YEAR: 2019

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05/05/2014 9 OF 9 1:20 990589146



### Weight Study for:

# **Altec Industries Plant 557 E-Town**

Run # 1054424
Unit: AT37\_G\_Platform\_With\_Liner\_Side\_Stowed
Chassis: FORD F550
Drivetrain: 4x2

### Estimated Finished Weights, Unladen (excluding personnel, fuel, payload)

Front Axle: 5134 lbs Rear Axle: 9030 lbs Total Weight: 14165 lbs

### Estimated Payload per Chassis, State, and Federal Restrictions\*

Estimated Available Front Axle Payload: 1866 lbs Estimated Available Rear Axle Payload: 5676 lbs Estimated Available Total Payload: 5335 lbs

\*Payload estimate assumes no personnel onboard and empty fuel/DEF tanks

This weight study is an estimate based on the best information available to Altec Engineering at the time of completion. Chassis axle weights and finished frame height may be based on past history of similar chassis. Customers with specific requirements or concerns should ask for a detailed study to be done with data from the chassis manufacturer or data measured from actual chassis. Customer added materials such as tools and supplies are NOT included. It is the customer's responsibility to evaluate available payload and center of gravity against expected usage. By signing this weight study the customer accepts the truck and payload weight estimates as presented and understands this weight study is preliminary.

Customer Signature:	Date:
	Revision A

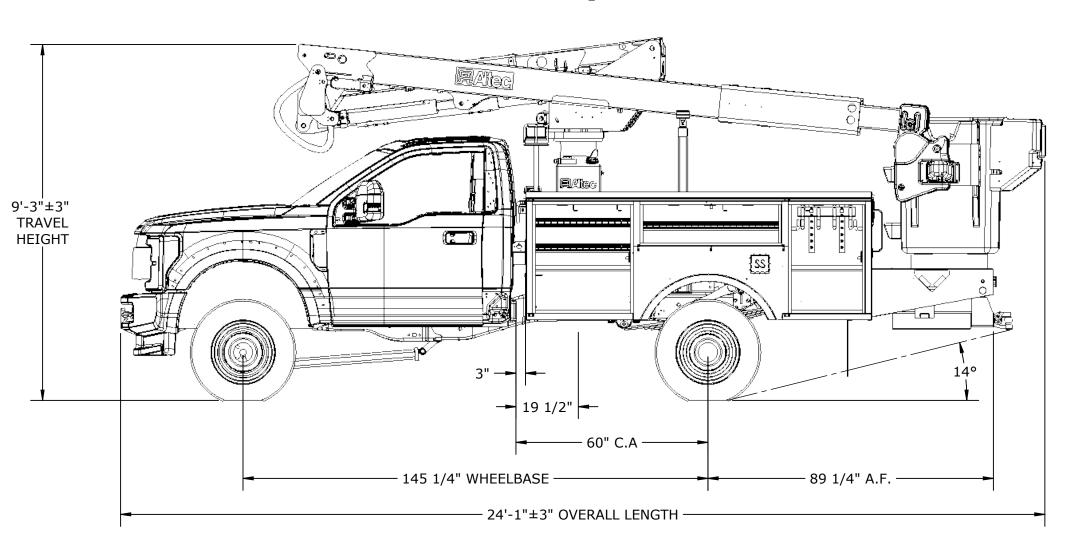
#### **WEIGHT STUDY**

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Customer:	Altec Industries Plant 557 E-Town		Bare Chassis Weight, Front:	4,223	Dealer	Chassis:	FORD F550	
Unit Type:	AT37_G_Platform_With_Liner_Side_Sto	wed	Bare Chassis Weight, Rear:	3,368	Dealer	Drivetrain:	4x2	
Run#	1054424		Total Bare Chassis Weight:	7,591		WB:	145	
Created By:	E.Haverty		Front Tire Size:	225/70R19.5		CA/ CT:	60	
Date:	4/30/2019		Rear Axle Style:	Single		GVWR (lbs):	19,500	
SD Revision:	990589146-B		Rear Axle Spacing (inches):			FAWR (lbs):	7,000	
WS Revision	A		Rear Axle Tire Configuration:	Dual tires		RAWR (lbs):		
<b>Curb Weight:</b>	13,200		Rear Tire Size:		Laden F	rame Height:	33	
-	Kentucky							
		Distance from C	L Rear Axle to C/L Unit Rotation:	40.5	Lift Axle	Down Force:		
			m C/L Unit Rotation to Unit HCG:	-8.6		ift Axle HCG:		
		·	Ship	0.0	_		Loa	ad
Dof	Description		Qty Loose	Weight	HCG	VCG	Front Axle	
Ref 1	Description	d) arm cyl retracted length, 14.25" (std) m	Qty Loose	2,464		55	542	1,922
2	A137-G W/ IIITer, Side Stowed, 24.63 (Sto	a) arm cyrretracted length, 14.25 (Std) m		2,404	31.9	55	542	1,922
3	Alton hady		1	1,504	-12.34	12.01	-128	1,632
	Altec body		·					
4	Front torsion bar		1	260	113.85	12.53	204	56
5	Subbase		1	523	52.98	3.63	191	332
6	Frame extension assembly		1	142	-73.66	4.94	-72	214
7	Rear torsion bar		1	120	-5.24	1.47	-4	124
8	Boom rest assembly		1	60	4.21	23.99	2	59
9	Hydraulic power unit		1	44	41.15	21.58	12	31
10	Floor cutout cover plate		1	33	39.13	8.18	9	24
11	Reservoir assembly		1	28	42.33	32.89	8	20
12	ICC Bar		2	16	-67.7	-5.64	-7	23
13	Mud flap assembly		2	14	-48	-5.64	-5	19
14								
15								
16	Over axle counterweight needed to meet	stability		852	12	4	71	781
17		(10% of body & body-supplied accessories	s weights)	150	-12.34	12.01	-13	163
18		Low Flow		80	125	-12	69	11
19		(None)		0	0	_ 0	0	0
20		05 lbs ABC		9	65	_ š	4	5
21		(None)	0 x	0	0	_ 0	0	0
22	Wheel Chocks	(Hono)	2 x	22	14.5	- 8	2	20
23	Hydraulic Oil		Gal 7	51.8	35	_	13	39
23			Gai I	200	10	- <sup>40</sup>	13	186
25	Misc. Components  Diesel exhaust fluid (DEF)	-	Gal 7.2 x	67	46	_	21	46
26	Fuel		Gal 40 x	280	-28	8	-54	334
27	Personnel		2 x	450	80	15	248	202
	Estimated Total Loaded Weight Include	ling Chassis (avaluding lift avia):		14,962	51.8	45.1	5,350	0.612
		ding Personnel, Fuel, DEF, and Lift Axl	٠.		31.0	45.1		9,612
	Estimated Total Loaded Weight Exclu	ullig Fersonnel, Fuel, DEF, and Lift Axi	e.	14,165			5,134	9,030
	-			Total			Front	Rear
			Chassis Axle Ratings (lbs):	19,500			7,000	14,706
		-	State Axle Restrictions:	80,000			12,400	20,000
		Federal Axle Restrictions (bridge	ge formula) (excluding lift axle) (lbs):	40,000			20,000	20,000
	•	<u> </u>	<u> </u>	Total			Front	Rear
	Legal Availa	able Payload Including Fuel and People, ba	ased on minimum of all restrictions:	4,538			1,650	5,094
	Legal Availa	able Payload Excluding Fuel and People, b	ased on minimum of all restrictions:	5,335			1,866	5,676
		Physical Chassis Available	Payload Including Fuel and People:	4,538			1,650	5,094
	Percentage of Legal Avail	able Payload Including Fuel and People, b		23%			24%	35%
	i Groenlage of Legal Avail	abio i ayioaa molaaliig i del alid i eople, b	acca on minimum of all restrictions.	ZJ /0			∠→ /0	JJ /0
		-						
			Curb Weight Required for Stability:	13,200		Counterwei	ght Required:	None
lotes:								
						Te	late Revision:	AP

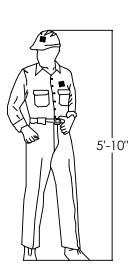
	revisions		
REV	DESCRIPTION	DATE	DRAWN ECO #
Α	RELEASED	-	-
В	SET BOOM REST BASE AT 90 DEGREES FROM SUBBASE.	02/13/2017	JKW 054 EC00236682
С	CHANGED BOOM REST TO PN 990642511	06/20/2018	CWB 054 EC00407232

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UNIT: AT40G	
SUBBASE HEIGHT:	
BODY CROSSMEM	BERS:
FLATBED CROSSME	EMBERS:
CHASSIS MAKER:	FORD
CHASSIS MODEL:	F550

CHASSIS YEAR: 2018

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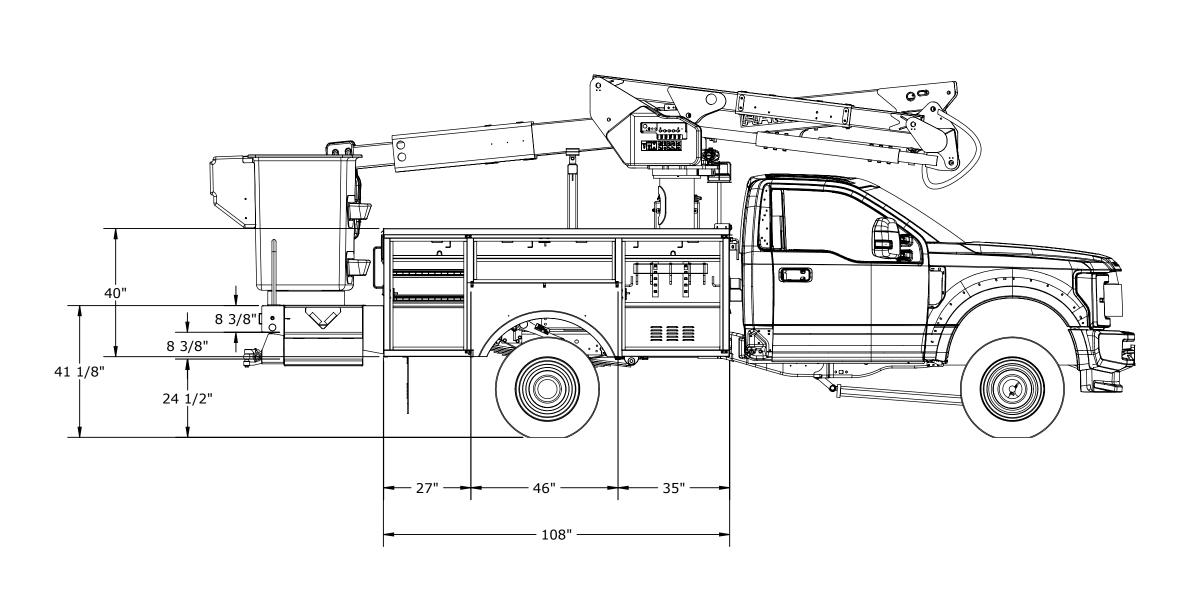
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SALES DRAWING \*\*ALTEC BODY MODEL\*\*



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CHECKED BY: N. MATTINGLY

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SCALE

SIZE

NUMBER

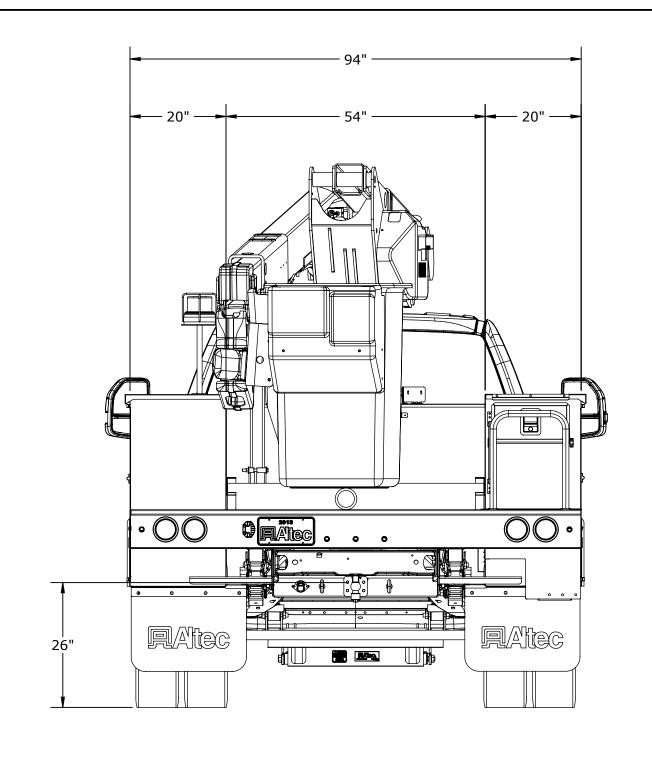
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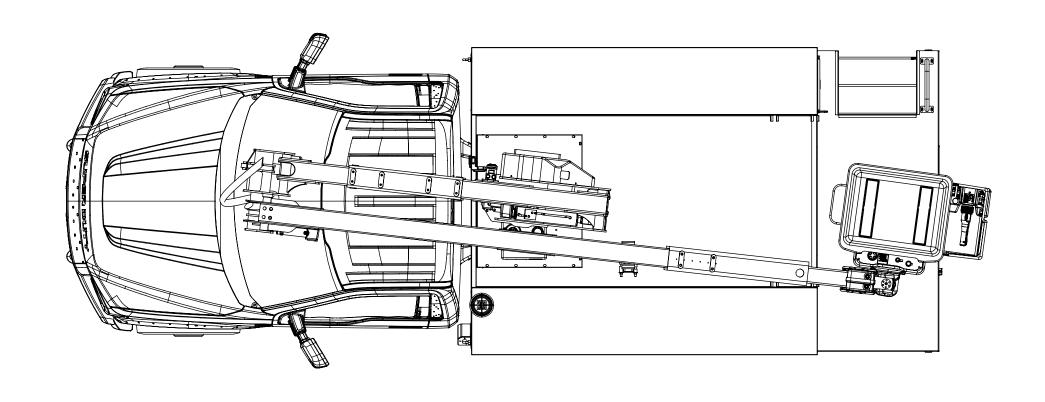
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SUBBASE HEIGHT: APPROVED  BODY CROSSMEMBERS: APPROVED AS NOTED		DRAWING IS	S PROVIDED TO A S	SOMEONE OUTSID	Y DISCLOSED. IF THIS DE ALTEC, IT IS DONE AT RECIPIENT WITH A			210 Inverness Cent Birmingham, AL 352	er Drive 242
FLATBED CROSSMEMBERS: NOT APPROVED, CHANGE AS NOTED, RESUBMIT FOR APPROVAL.		TECHNICIAL RECIPIENT A		IE. IN RECEIVING IN IT IN CONFIDE	THIS DRAWING, THE NCE AND NOT TO	TITLE:	**	SALES DRAWING ALTEC BODY MODEL**	
CHASSIS MAKER: <u>FORD</u> NOTE: ANY CHANGES MAY AFFECT PRICE	W.O. NO.: 1029480	AGREES NO	OT TO REPRODUCE, AND ITS CONTENTS.	COPY, OR PUBLIC			•	NETEO DOD'T MODEL	
CHASSIS MODEL: <u>F550</u> RETURN OF APPROVAL PRINT REQ'D BY: <u>-</u>	NOTES: DO NOT SCALE THIS PRINT, REMOVE ALL BURRS & SHARP		NAME	DATE	SHEET	SCALE	SIZE	NUMBER	REV
CHASSIS YEAR: 2018 BY: DATE:	EDGES, ALL DIMENSIONS ARE IN INCHES. CAD SOFTWARE: SOLIDWORKS.	DRAWN BY: CHECKED BY:	T. MERRITT  N. MATTINGLY	03/29/2018	3 OF 8	1:20	2	990326361	С



UNIT: AT40G
SUBBASE HEIGHT:
BODY CROSSMEMBERS:
FLATBED CROSSMEMBERS:
Chassis maker: <u>FORD</u>
Chassis model: <u>F550</u>
CHASSIS YEAR: 2018

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UNIT: AT40G	APPROVAL PRI
SUBBASE HEIGHT:	☐ APPRO
BODY CROSSMEMBERS:	□ NOT AP
FLATBED CROSSMEMBERS:	RESUB <i>M</i>
Chassis maker: <u>FORD</u>	NOTE: ANY CH
Chassis model: <u>F550</u>	RETURN OF APF
CHASSIS YEAR: 2018	BY:

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NAME DATE SHEET



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SALES DRAWING
\*\*ALTEC BODY MODEL\*\*

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 NAME
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 DRAWN BY:
 T. MERRITT
 03/29/2018
 5 OF 8
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 N. MATTINGLY



UNIT: AT40G
SUBBASE HEIGHT:
BODY CROSSMEMBERS:
FLATBED CROSSMEMBERS:
CHASSIS MAKER: <u>FORD</u>
Chassis model: <u>F550</u>
CHASSIS YEAR: 2018

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03/29/2018 T. MERRITT 6 OF 8

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UNIT: AT40G
SUBBASE HEIGHT:
BODY CROSSMEMBERS:
FLATBED CROSSMEMBERS:
Chassis maker: <u>FORD</u>
Chassis model: <u>F550</u>
CHASSIS YEAR. 2018

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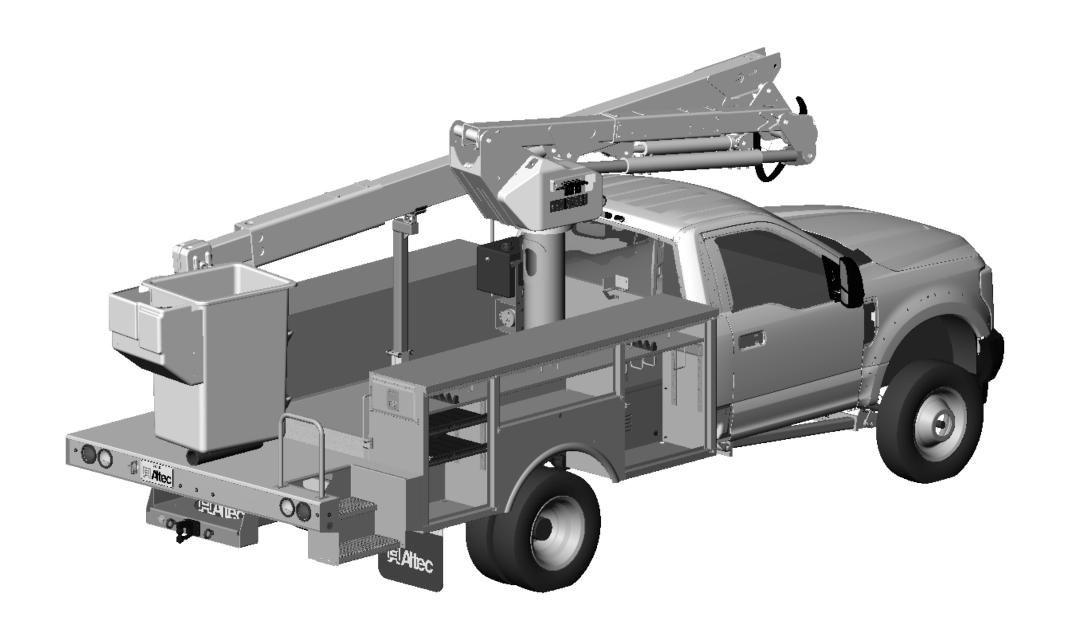
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UNIT: AT40G
SUBBASE HEIGHT:
BODY CROSSMEMBERS:
FLATBED CROSSMEMBERS:
CHASSIS MAKER: FORD
Chassis model: <u>F550</u>
CHASSIS YEAR: 2018

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\*\*ALTEC BODY MODEL\*\*

T. MERRITT 03/29/2018 8 OF 8 1:25 990326361 CHECKED BY:



### Weight Study for:

# **Stock**

#### Run # 1033162

AT40G	
2017 Ford F550	
4x2	
5,430	
9,118	
14,548	
1,798	
5,110	
4,249	
	2017 Ford F550 4x2 5,430 9,118 14,548 1,798 5,110

This weight study is an estimate based on the best information available to Altec Engineering at the time of completion. Chassis axle weights and finished frame height are based on past history of similar chassis. Customers with specific requirements or concerns should ask for a detailed study to be done with data from the chassis manufacturer or data measured from actual chassis. Customer added materials such as tools and supplies are NOT included. It is the customer's responsibility to evaluate available payload and center of gravity against expected usage. By signing this weight study the customer accepts the truck and payload weight estimates as presented and understands this weight study is preliminary.

Customer Signature:	Date:
<b></b>	

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Customer:				are Chassis Wei			2017 Ford F550	
Unit Type:			Front Axle:		Dealer	Drivetrain:		
Run Number:			Rear Axle:	,	Dealer	WB:	_	
	D. O'Loughlin		Chassis Weight:			CA/ CT:		
	1/31/2017		Number of Axles:			GVWR:	- /	
Revision:			Rear Axle Style:	Single		FAWR:		
Curb Weight:	13,200					RAWR:		
State:	KENTUCKY					Frame Height:		
State FAWR:	20,000	_				Chassis VCG:	35	
State RAWR:	20,000		Lift Axle HCG:		Lift A	xle Down Force:		
State GVWR:	80,000		Ship				Lo	ad
Ref		iption	Loose	Weight	HCG	VCG	Front Axle	Rear Axle
1	AT40G			2,595	38.4	57.3	687	1,908
2	Front Torsion Ba	ar		223	111.2	-16	171	52
3	Rear Torsion Ba			116	-5	0	-4	120
4	PTO/Pump	••		80	103.3	0	57	23
5	Subbase			513	28.5	3.5	101	412
	Hydraulic Oil Re	servoir (with oil)		75	40.3	33.8	21	54
7	Boom Rest	corvoir (with on)		54	8	24	3	51
8	Body			1,176	-4	13.7	-32	1,208
	Tailshelf			316	-68	4.6	-148	463
	Tow Package			145	-73	-5.2	-73	218
11	TOW Tackage			140	-13	-5.2	-73	210
12								
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31								
32								
33								
34								
35	Counterweight of	ver axle		852	16.25	3	95	757
36								
37		r (5 lb) With Light		9	64	12.5	4	5
38		e Body with Brkt	. (Qty. 2)	53	-43.7	-8	-16	69
39	Wheels Chocks			22	-70	3	-11	33
40	Misc. Componer			200	0	0	0	200
41	DEF Tank		gal @ 9.3 lb/gal	67	46.4	0	21	46
42	Fuel Tank	40	gal @ 7 lb/gal	280	-31	0	-60	340
43	Personnel	2	people @ 225 lb	450	85.9	12.5	267	183
	Estimated Tota	I Loaded Weight	t Including Chassis:	14,548	54.12	46.1	5,430	9,118
			Chassis Axle Ratings:	18,000			7,000	13,660
			State Axle Restrictions:				20,000	20,000
			Federal Axle Restrictions:	42,083			20,000	20,000
	1 1 ^	ilahla Deidaad	aluding Fuel I D I	0.450	1		4 570	4.546
			cluding Fuel and People:	3,452			1,570	4,542
L			xcluding Fuel and People:	, -	<u></u>		1,798	5,110
Phy	sical Chassis Av	ailable Payload Ir	ncluding Fuel and People:	6,112			1,570	4,542
Percei	ntage of Legal Av	/ailable Payload I	ncluded Fuel and People:				22.43%	33.25%
		Curb We	ight Required for Stability:	13,200		Counter V	Veight Required:	None
Notes								
Notes:								



# **Altec Connect**

### Customer Quick Start Guide

#### What's NEW with Altec Connect?

The new site is **more user friendly**, and has **additional functionality** that allows greater self service. You can perform your own parts research, see Altec Service information and browse the Altec Store, allowing you to purchase Altec Supply and Altec Spray products!

The new Altec Connect is also mobile friendly, so you can use it on any smart phone, tablet, or computer.

#### How To:

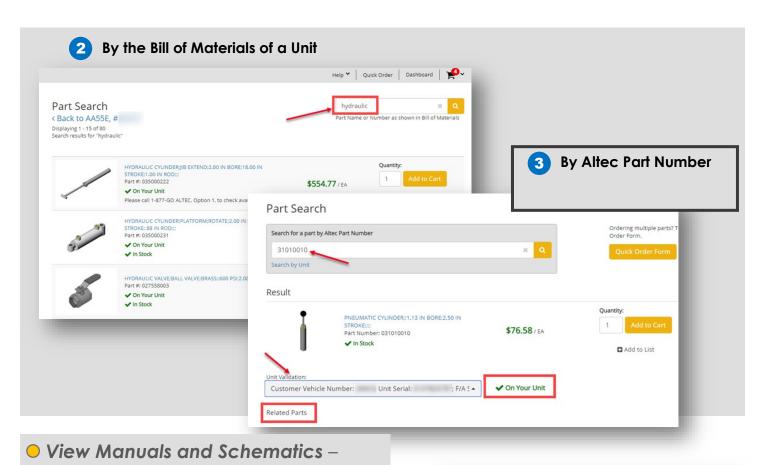
- O Register -
  - 1. Visit https://www.altec.com and select the Login/Register button in the left corner.
  - 2. Click Register now and complete the form.

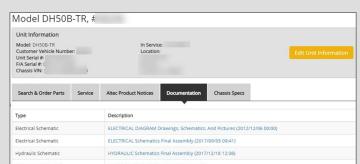


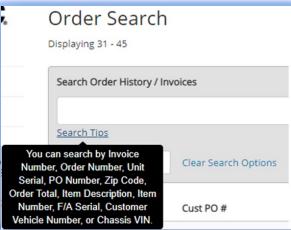
### 1 By the Parts Pages of a Unit

This includes automatic verification that parts are compatible on your unit's Bill of Materials and are in stock!











DH45B-DH48B-DH50B Operator's

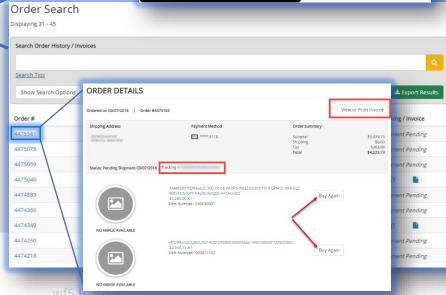
Operator's Manual

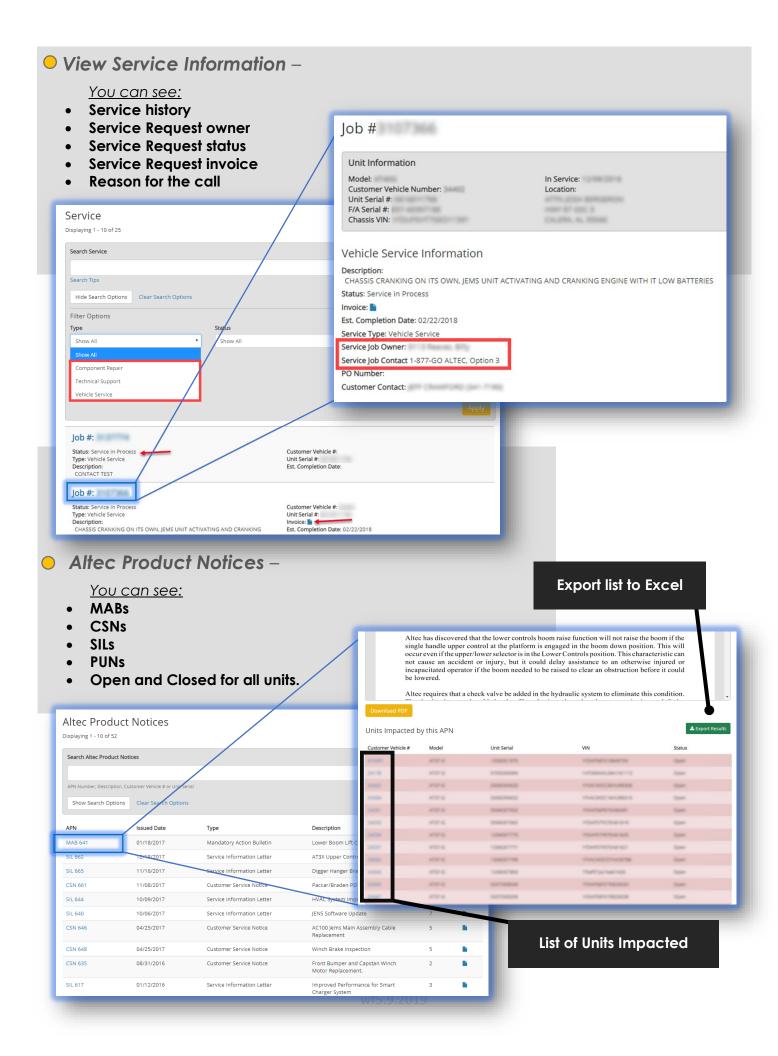
- **Re-order items**

Operator's Manual

- Get tracking information
- View invoices
- **Export History**

You can see order history for Parts and Supply orders.





#### Q: How long until an account goes "inactive"?

A: Accounts will become inactive after 1 year of no activity. You can re-activate your account by using the "Forgot Password" feature.

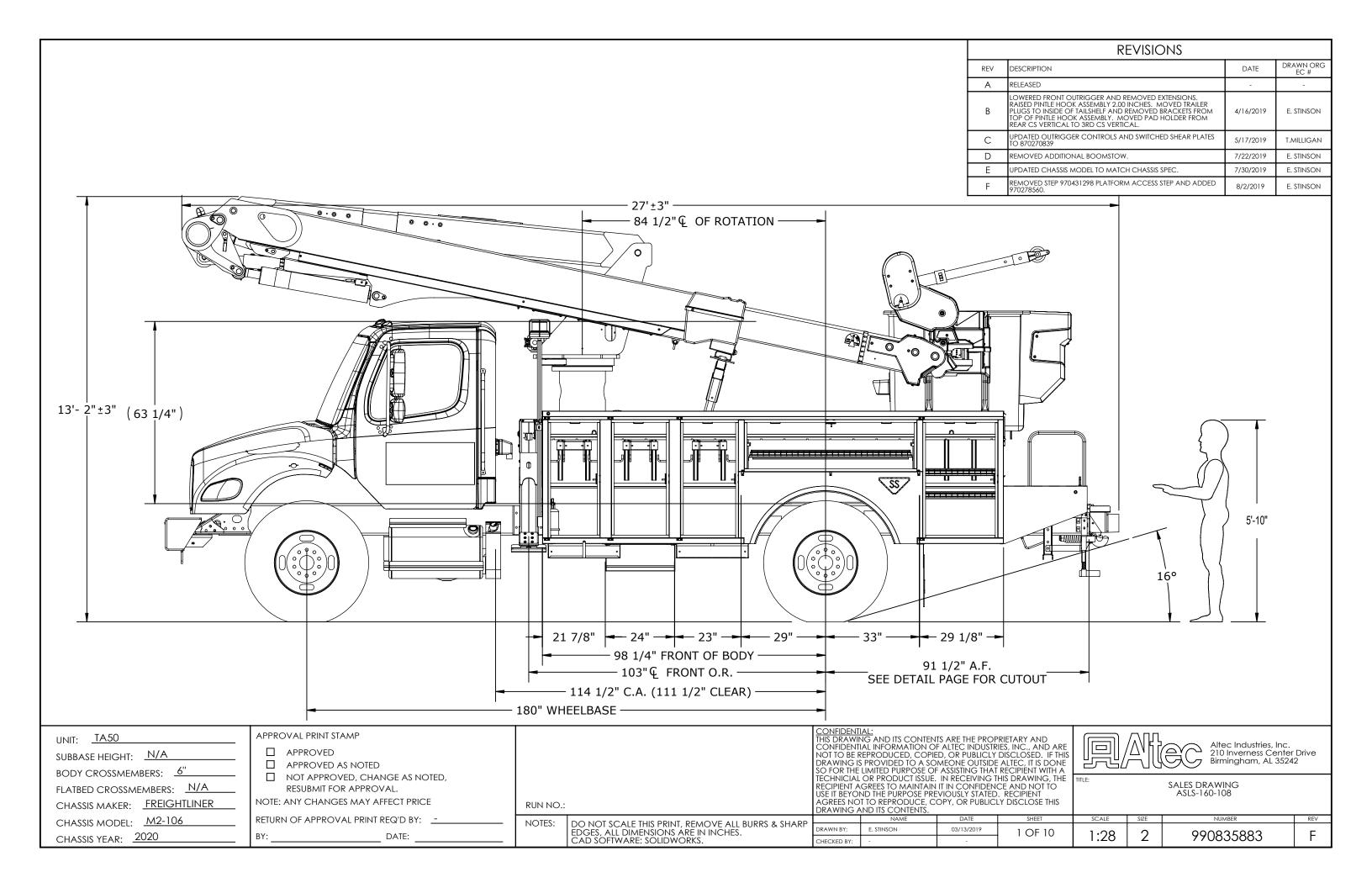
#### Q: Who do I contact if I have questions or feedback about Connect?

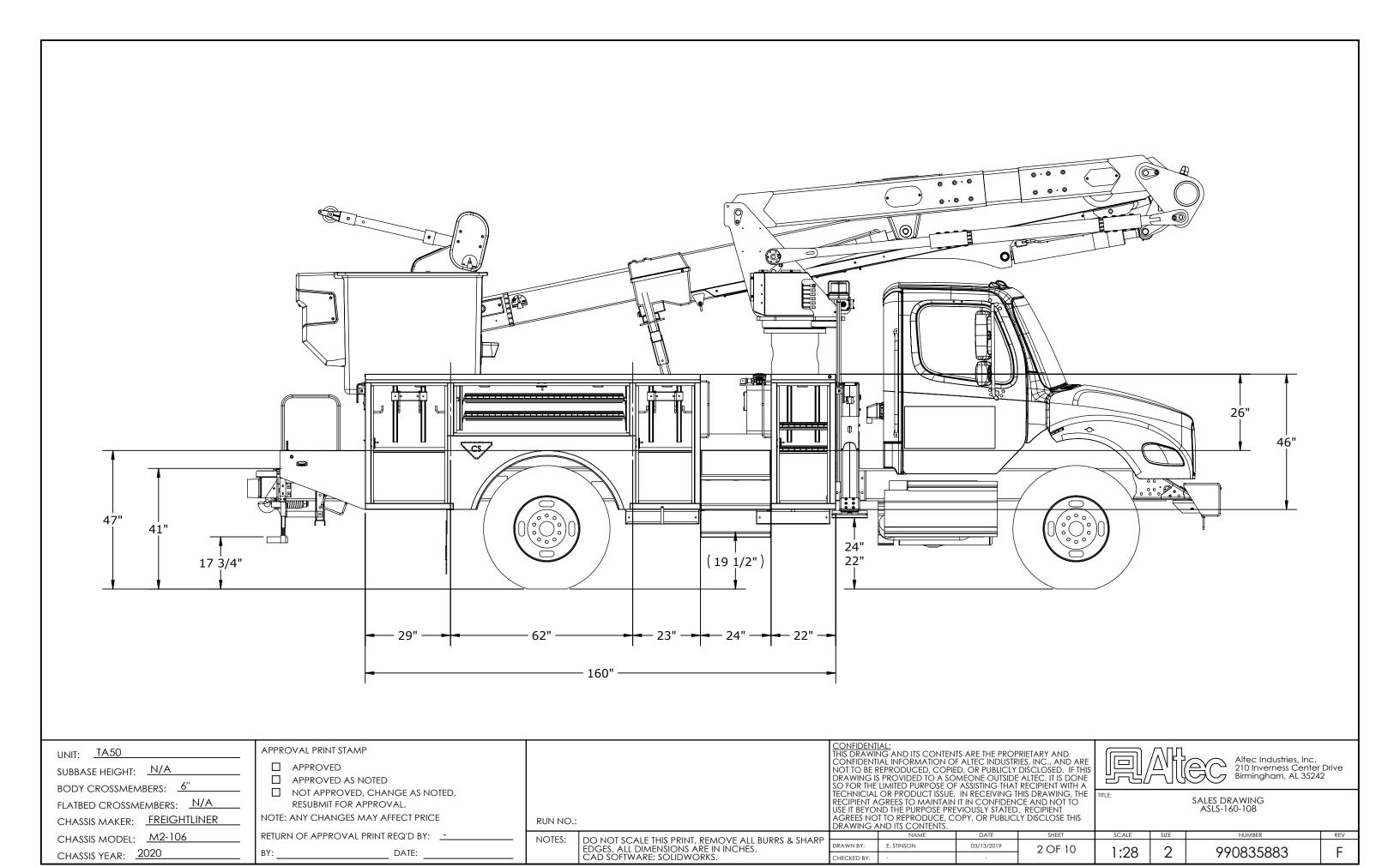
A: Please email <u>altec.connect@altec.com</u> – this inbox is monitored M-F 8am-5pm CST

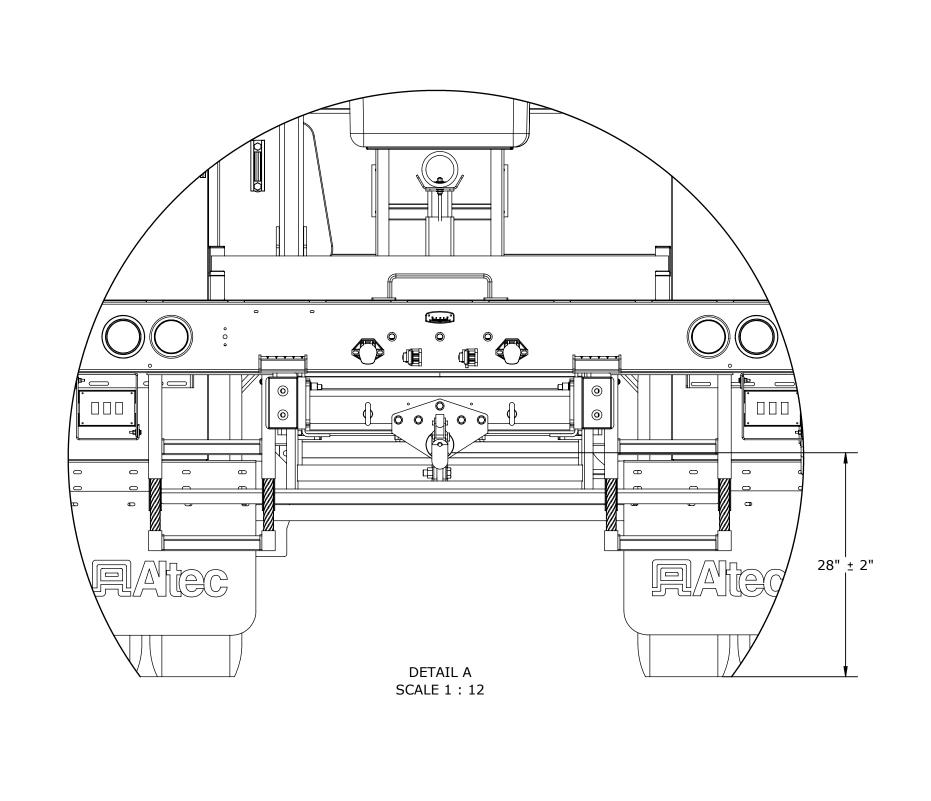
THE ALL NEW ALTEC

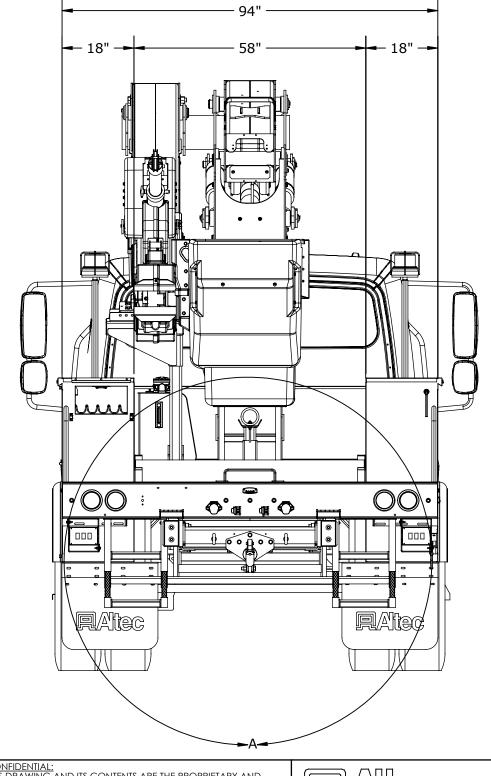
CONNECT

Want more information?
Email: altec.connect@altec.com









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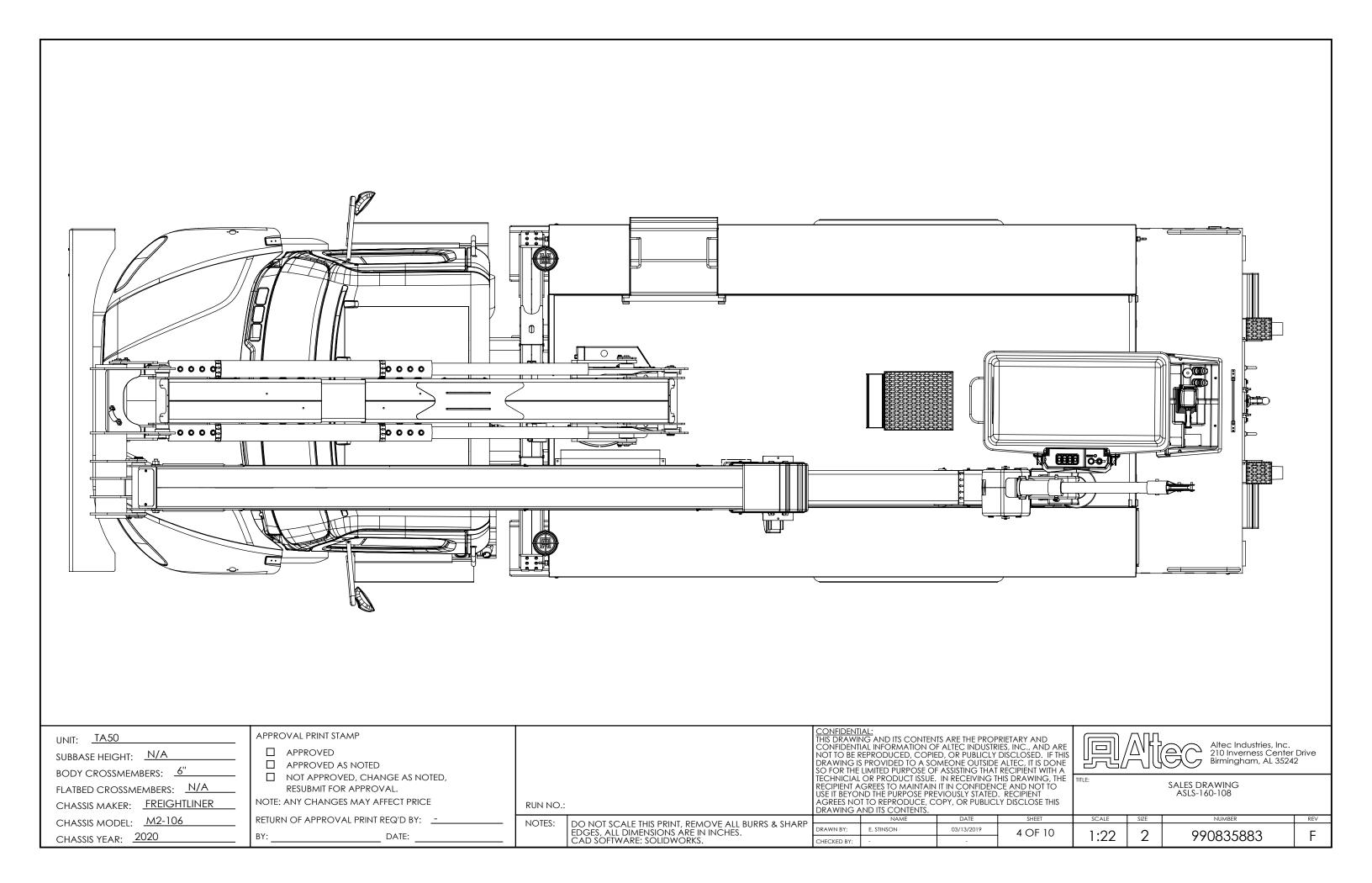
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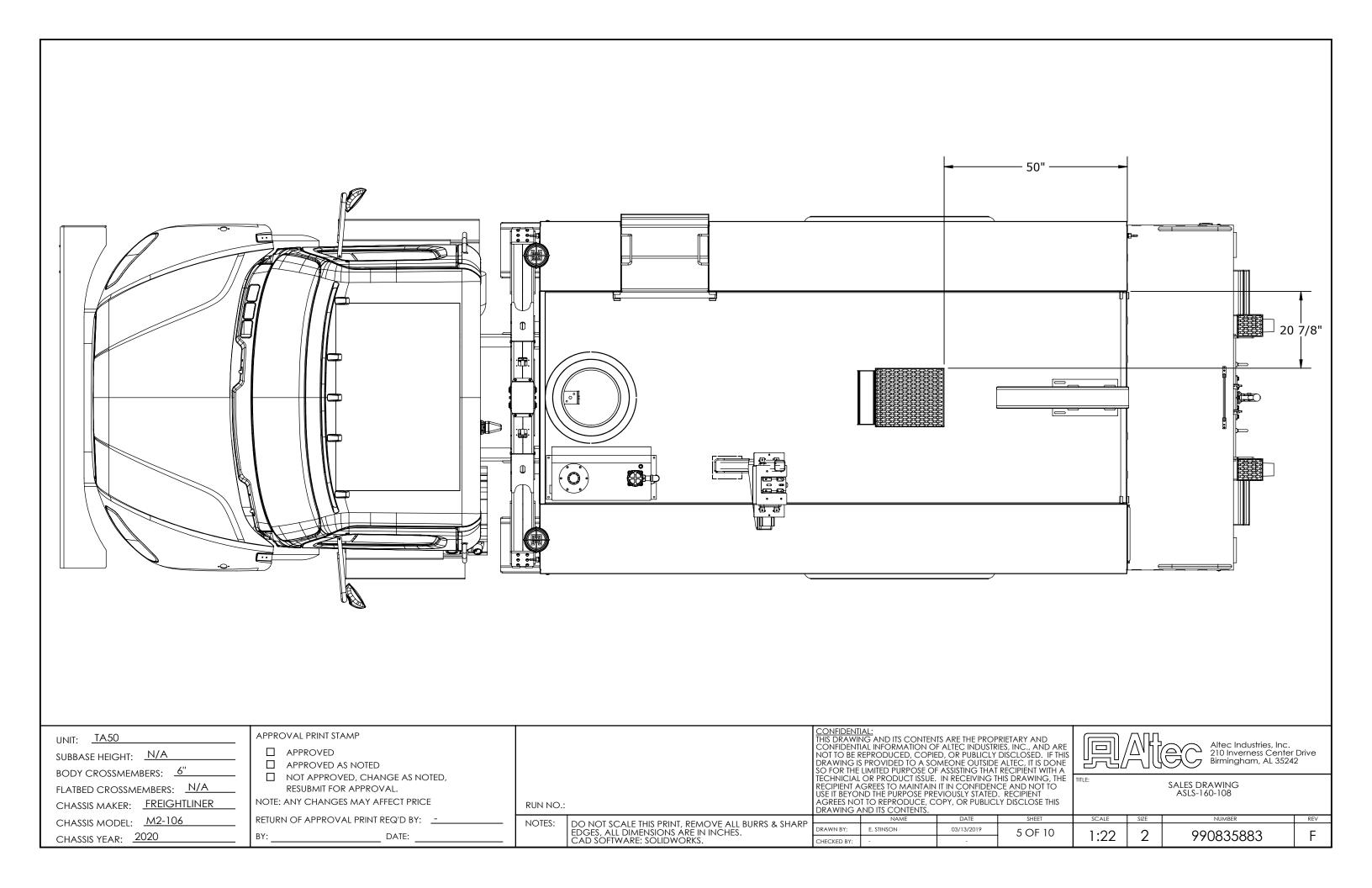
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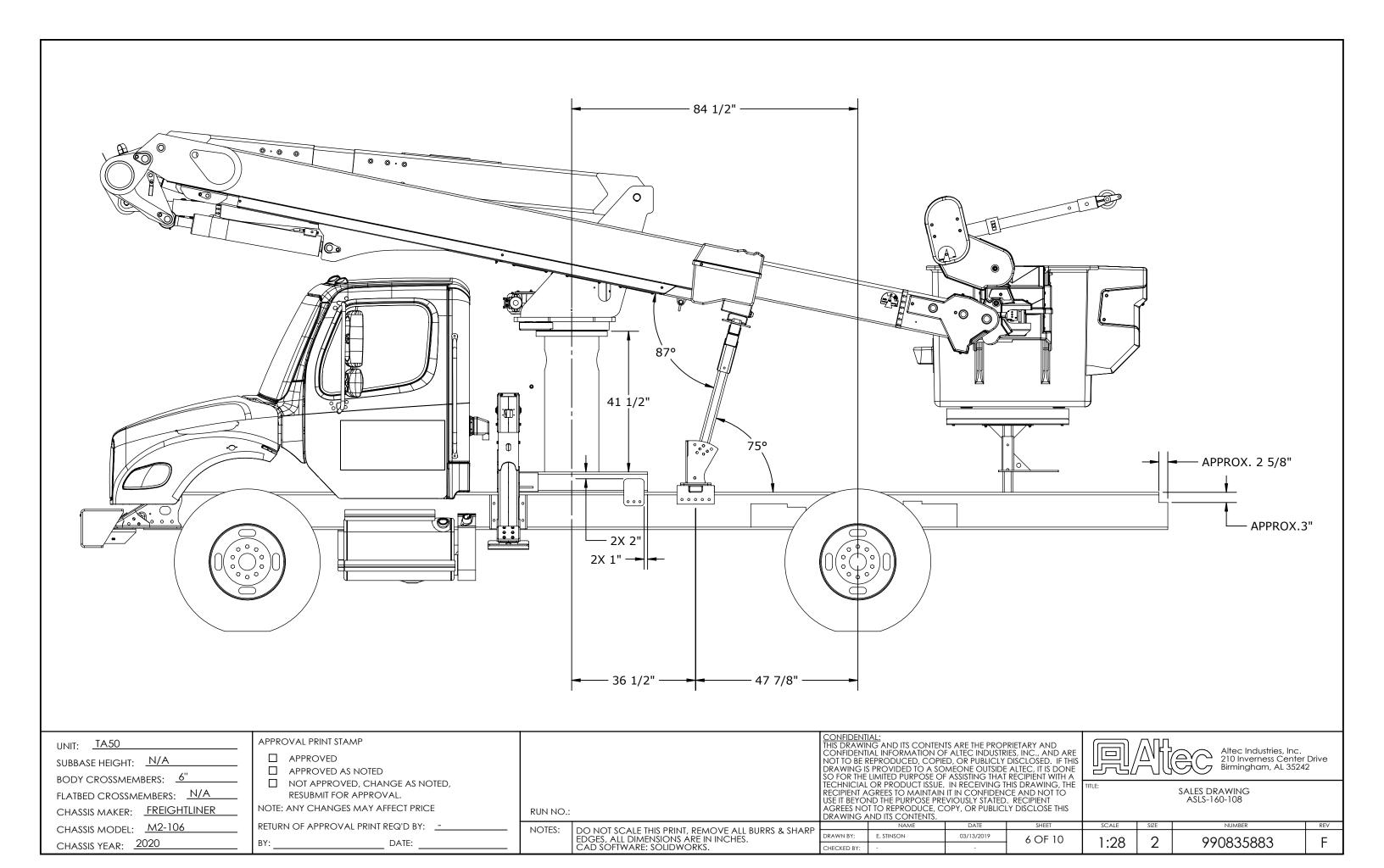
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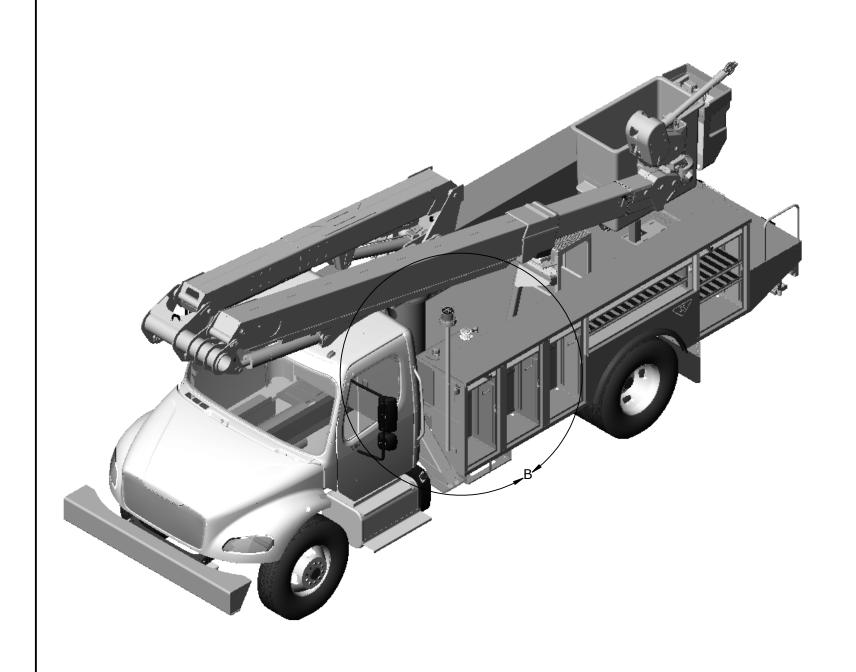
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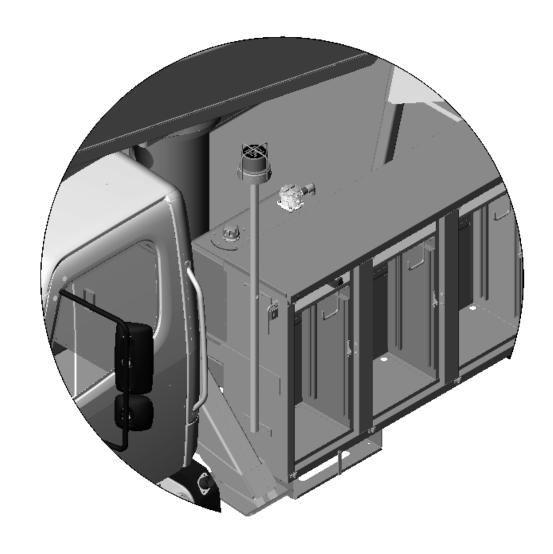
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 E. STINSON
 03/13/2019
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DETAIL B SCALE 1: 19

unit: <u>TA50</u>	
SUBBASE HEIGHT:	N/A
BODY CROSSMEN	1BERS: <u>6"</u>
FLATBED CROSSM	EMBERS: N/A
CHASSIS MAKER:	
CHASSIS MODEL:	M2-106
CHASSIS YEAR: 2	2020

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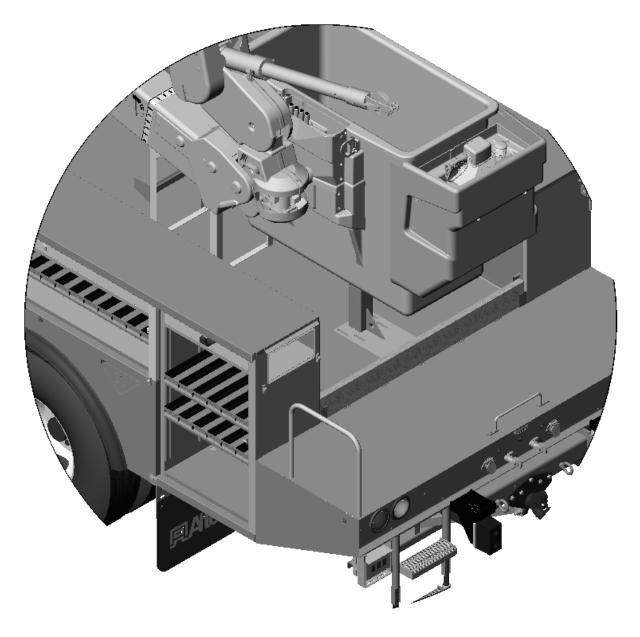
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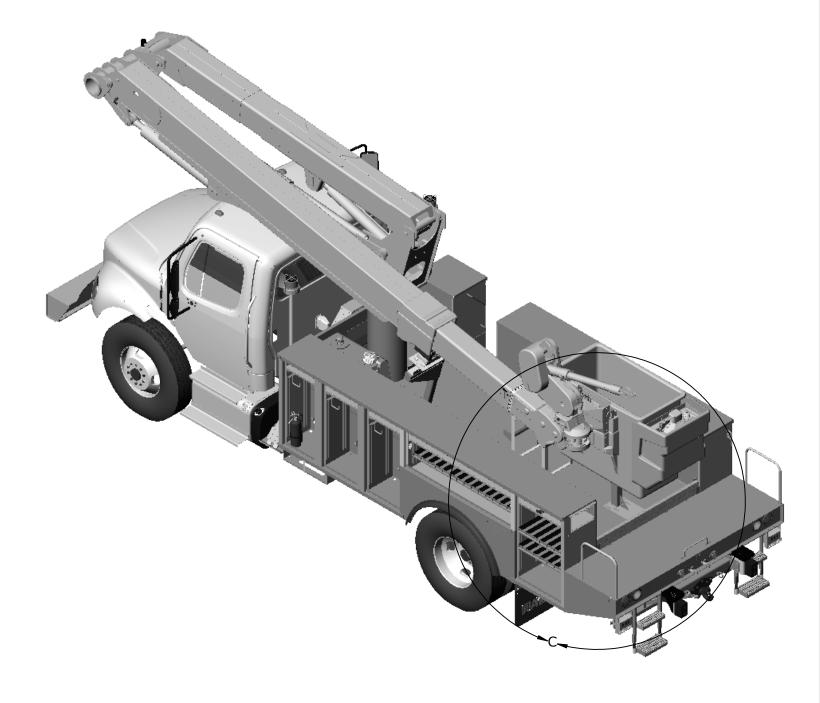
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DETAIL C SCALE 1:19

APPROVAL PRINT STAMP

UNIT: TA50 SUBBASE HEIGHT: N/A BODY CROSSMEMBERS: 6" FLATBED CROSSMEMBERS: N/A CHASSIS MAKER: FREIGHTLINER CHASSIS MODEL: M2-106 CHASSIS YEAR: 2020

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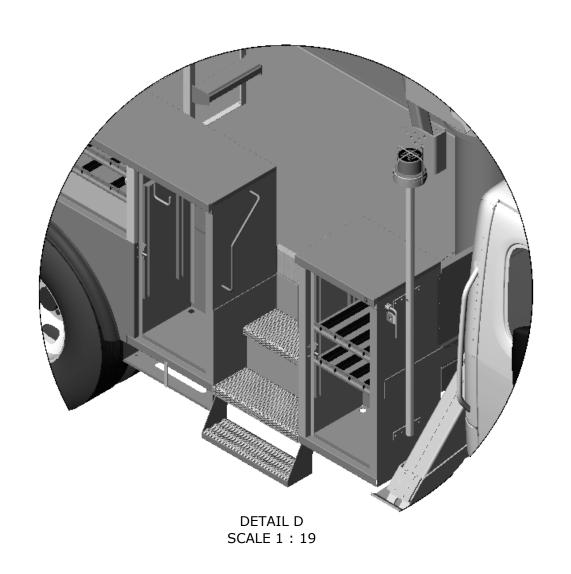
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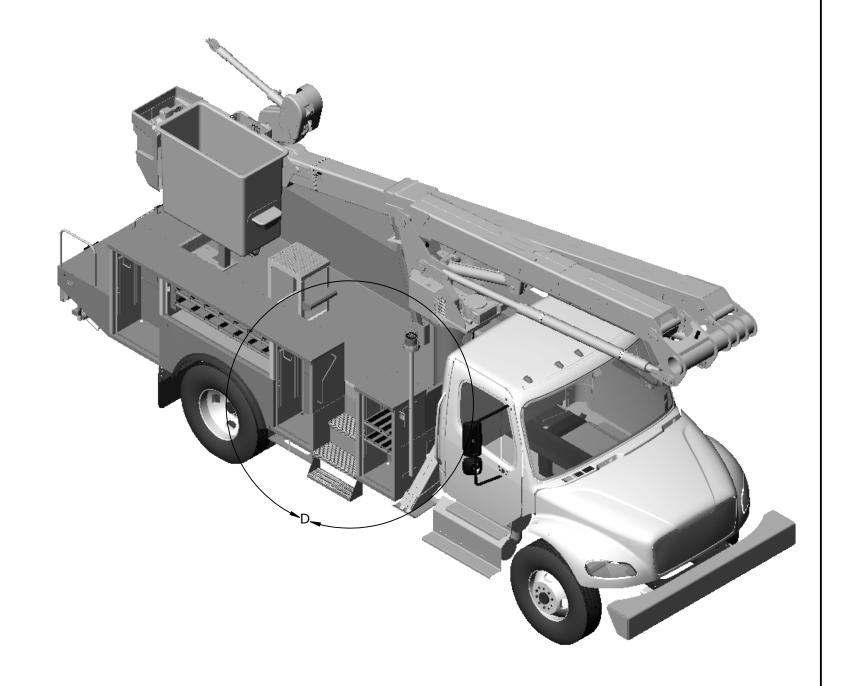
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RUN NO.:





UNIT: <u>TA50</u>	
SUBBASE HEIGHT:	N/A
BODY CROSSMEN	IBERS: <u>6"</u>
FLATBED CROSSM	EMBERS: N/A
CHASSIS MAKER:	FREIGHTLINER
CHASSIS MODEL:	M2-106
CHASSIS YEAR: 4	2020

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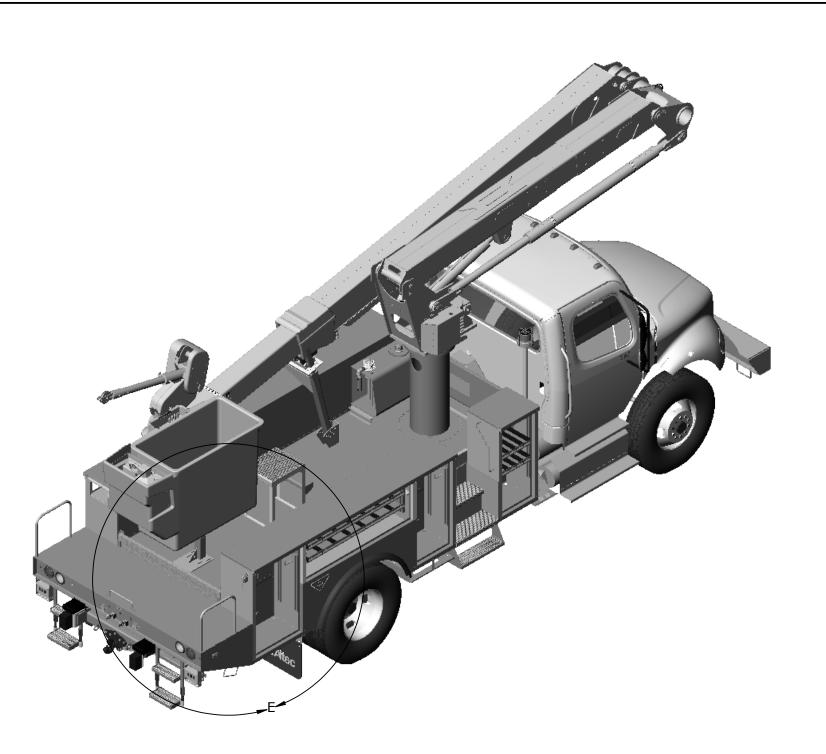
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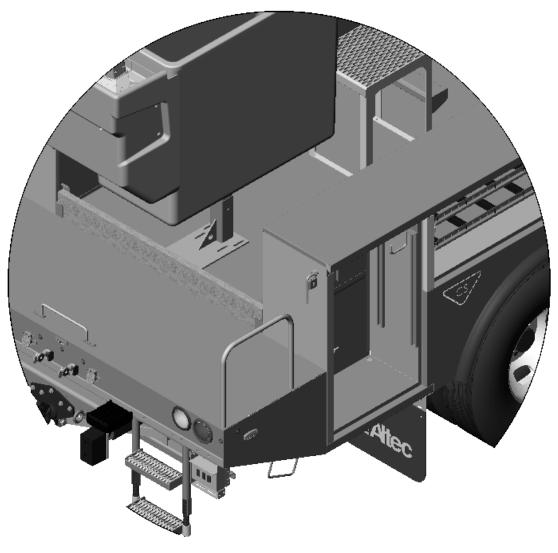
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DETAIL E SCALE 1:19

UNIT: TA50

SUBBASE HEIGHT: N/A

BODY CROSSMEMBERS: 6"

FLATBED CROSSMEMBERS: N/A

CHASSIS MAKER: FREIGHTLINER

CHASSIS MODEL: M2-106

CHASSIS YEAR: 2020

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### Weight Study for:

# **ALTEC IND PLANT 337 MW FA**

Run # 1058406 Unit: \_TA50

**Chassis: FREIGHTLINER M2-106** 

**Drivetrain: 4X2** 

### Estimated Finished Weights, Unladen (excluding personnel, fuel, payload)

Front Axle: 12929 lbs Rear Axle: 10862 lbs Total Weight: 23792 lbs

### Estimated Payload per Chassis, State, and Federal Restrictions\*

Estimated Available Front Axle Payload: 1671 lbs Estimated Available Rear Axle Payload: 9138 lbs Estimated Available Total Payload: 9208 lbs

This weight study is an estimate based on the best information available to Altec Engineering at the time of completion. Chassis axle weights and finished frame height may be based on past history of similar chassis. Customers with specific requirements or concerns should ask for a detailed study to be done with data from the chassis manufacturer or data measured from actual chassis. Customer added materials such as tools and supplies are NOT included. It is the customer's responsibility to evaluate available payload and center of gravity against expected usage. By signing this weight study the customer accepts the truck and payload weight estimates as presented and understands this weight study is preliminary.

Customer Signature:	Date:
•	Revision B

<sup>\*</sup>Payload estimate assumes no personnel onboard and empty fuel/DEF tanks

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Recipient agrees not to reproduce, copy, or publicly disclose this document and its contents Customer: ALTEC IND PLANT 337 MW FA Bare Chassis Weight, Front: 6,790 Actual Chassis: FREIGHTLINER M2-106 Unit Type: \_TA50 Bare Chassis Weight, Rear: 4 100 Drivetrain: 4X2 Run #: 1058406 **Total Bare Chassis Weight:** 10,890 Wheelbase: 180 Created By: A DEES Front Tire Size: 12R22.5 CA/ CT Single 6/8/2020 Rear Axle Style: GVWR: 33,000 Date: Sales Dwg & Rev: 990835883-F01 Rear Axle Spacing 14,600 FAWR: Rear Axle Tire Configuration: RAWR: 21,000 WS Revision: B Dual tires Curb Weight: 23,000 Rear Tire Size 11R22.5 Laden Frame Height: State: Missouri Distance from C/L Rear Axle to C/L Unit Rotation: 84.5 Lift Axle Down Force Distance from C/L Unit Rotation to Unit HCG: 25.1 Lift Axle HCG: Vertical distance from Top of Frame to Top of Pedestal: 48 63 Note: All weights are in pounds (lbs) and all distances are in inches unless otherwise noted Load **HCG VCG** Front Axle Rear Axle Ref Description Qtv Loose Weight TA50 220 end-mounted jib 5,333 109.60 2,086 79.63 3.247 990640387-STOCK TA50;4X2;PARTIAL SUBBASE;;;;;;;;160.00 IN L;;94.00 IN W;46.00 IN H;18.00 IN D;; 2 2 491 6 67 9 68 92 2 398 3 990970169-DRAWING;SUBBASE LAYOUT;ALTEC IND PLANT 337 MW FA;TA50;4X2;BEHIND THE CAB MOUNT 1,696 94.69 9.3 892 804 4 PT00115850-TELESCOPIC TA BOOM STOW, CHASSIS AND SUBBASE MOUNTED, MANUAL AND AUTO STOW 202 47.21 36.12 53 149 PT00113736-T125 PINTLE HITCH PHANTOM ASSSEMBLY CONFIG ITEM 5 176 -88.89 -8.85 -87 263 6 970425665-FRONT BUMPER 1,380 226.4 1,736 -356 -10.5 970303336-RESERVOIR ASSEMBLY, HYDRAULIC OIL, STEEL, 25.00 GAL, INTERNAL RETURN FILTER, INTERN 122 20.09 67 7 81.2 55 990257559-PLATFORM REST, STEEL, WHITE, 2 MAN, 36.00 IN L, 57.00 IN H, W/ RUBBER TUBE, BOLT ON;ADJ 8 72 -44.43 2.67 -18 90 9 970625633-WELDMENT, UNDER RIDE PROTECTION, 3.00 W X 70.00 L X17.41 H, 4X4 40 -77.12 -16.28 -17 58 10 970463333-STEP, DOUBLE CABLE, 22.00 IN H STEP HEIGHT, 7.00 IN D, 16.50 IN W, GRIPSTRUT, NO HANDLE 48 32 -90.43 -13.21 -16 11 970463333-STEP, DOUBLE CABLE, 22.00 IN H STEP HEIGHT, 7.00 IN D, 16.50 IN W, GRIPSTRUT, NO HANDLE 32 -90.43 -13.21 -16 48 12 990646566-SOCKET, BOLT ON; PLATFORM REST; 14.00 IN L, 10.00 IN W; 10.38 IN H, PAINT WHITE; 26 -7 33 -48.87 8.74 970327075-HOLDER-OUTRIGGER PAD, 25.00 IN L, 25.00 IN W, 5.00 IN H, BOLT-ON, TRIANGULAR CUT-OUTS 13 22 39.02 -16.54 17 5 14 970327075-HOLDER-OUTRIGGER PAD, 25.00 IN L, 25.00 IN W, 5.00 IN H, BOLT-ON, TRIANGULAR CUT-OUTS 22 83.5 -16.5510 12 15 970059762-STROBE STAND,,REC TUBE 1.5 X 60 IN L X .25 T,,,EMS 2-1 12 98.87 25.2 7 5 970059762-STROBE STAND,,REC TUBE 1.5 X 60 IN L X .25 T,,,EMS 2-1 7 5 16 12 98.87 25.2 17 990332144-;ACCESS STEP;24.00 IN L;7.00 IN W;9.18 IN H;PAINTED BLACK;; 11 64 -19.37 4 7 800100487-FIRE EXTINGUISHER, AMEREX, B402T, 5.00 LB, TYPE 3-A:40-B:C, WITHOUT HEAVY DUTY BRACK 94.44 5 5 18 10 -6.64-5 19 990796565-STEP;DOCK BUMPER STEP;9.26 IN H;7.00 IN D;6.00 IN W;STEEL TREADPLATE;;1 STEP;;PAINTED 9 -95.6 -3.6213 20 990796565-STEP;DOCK BUMPER STEP;9.26 IN H;7.00 IN D;6.00 IN W;STEEL TREADPLATE;;1 STEP;;PAINTED 9 -95.6 -3.62 -5 13 21 970485182-BRACKET, MUD FLAP, LINE BODY, 24.00 IN L, 2.25 IN W, 8.26 IN H, EMS 2-1 -1 8 -33.96 -16.23970485182-BRACKET, MUD FLAP, LINE BODY, 24.00 IN L, 2.25 IN W, 8.26 IN H, EMS 2-1 -1 8 22 -33.96 -16.25 23 970492022-RUBBER MUD FLAP, ALTEC, BLACK, 18.00 IN L, 24.00 IN W, WITH ALTEC LOGO, SOLD EACH -1 -34.38 -25.85 5 5 5 5 970492022-RUBBER MUD FLAP, ALTEC, BLACK, 18.00 IN L, 24.00 IN W, WITH ALTEC LOGO, SOLD EACH 24 -1 4 -34.38-25.825 -2 990251229-KIT; VALVE HANDLE GUARD; BOLT ON; FOR 3 WAY VALVE;;;; 4 -89.99 -6.19 -2 26 990251229-KIT; VALVE HANDLE GUARD; BOLT ON; FOR 3 WAY VALVE -89.99 -6.19 27 970352935-DOCK BUMPER, 2 BOLT, RUBBER, RECTANGULAR, 6.00 IN L, 3.50 IN W, 3.50 IN T, 5.75 LBS PER F -99.79 -2 3 -6.7728 970352935-DOCK BUMPER, 2 BOLT, RUBBER, RECTANGULAR, 6.00 IN L, 3.50 IN W, 3.50 IN T, 5.75 LBS PER F -99.79 -2 3 -6.7729 970263207-BRACKET;MOUNTING;RESERVOIR;12.00 IN L;1.25 IN W;3.00 IN H;STEEL;DETAIL;74 DEG CUT ON I 1 2 95.28 8.64 1 30 970263205-BRACKET:MOUNTING:RESERVOIR:12.00 IN L:1.25 IN W:3.00 IN H:STEEL:DETAIL:74 DEG CUT OUT 2 67.34 8 64 1 31 068451218-STROBE BEACON;STROBE;6.19 IN H;7.25 IN D;12VDC, 0.65A;AMBER;LED;WITH BRACKET;; 2 99 60.88 1 32 068451218-STROBE BEACON;STROBE;6.19 IN H;7.25 IN D;12VDC, 0.65A;AMBER;LED;WITH BRACKET 99 60.88 1 2 33 990734635-FORMED ANGLE;GROUNDING LUG MOUNT;9.00 IN L;2.00 IN W;2.00 IN H;7 GA. SMOOTH STEEL -71.41 -9.73 -1 34 970299928-GRAB HANDLE, ASSEMBLY, 17.00 IN L, 3.25 IN H, BOLT-ON -88.5 9.02 -1 2 35 811000580-U BOLT, COPPER, GROUNDING, .50-13 UNC, 8.00 IN L, .50 IN DIA, 5.63 IN W -72 52 -12.640 36 811000580-U BOLT, COPPER, GROUNDING, .50-13 UNC, 8.00 IN L, .50 IN DIA, 5.63 IN W 223.3 -18.77 1 0 37 683-00076-7 CONDUCTOR, 7-WAY RECEPTACLE, BERG BE23703, ROUND PINS -89.13 0.78 -1 2 683-00076-7 CONDUCTOR, 7-WAY RECEPTACLE, BERG BE23703, ROUND PINS 2 38 -89.13 0.78 -1 39 40 Body misc hardware (10% of body & body-supplied accessories weights) 248 6 67 9 68 9 239 41 PTO/Pump High Flow 110 134 -12 82 28 42 **Outrigger Controls** Elec over Hyd 27 -89.74 -7.19 -13 40 4 43 Fire Extinguisher & Brkt. 05 lbs ABC 9 94.69 -7.64 5 Wood Pad 24X24X2.5 970585436 44 Outrigger Pads 42 60 -16 14 28 х 45 -3 Wheel Chocks 22 -23.85 25 6 Enter # gallons here => 83 46 Hydraulic Oil 25 185 20.09 102 81 2 47 Misc. Components 500 10 0 28 472 48 Diesel exhaust fluid (DEF) 56 115 -16 36 20 49 88 Fuel 50 350 135 -16 263 х 50 450 335 Personnel 134 27.5 115 Estimated Total Loaded Weight Including Chassis (excluding lift axle): 24.648 99.0 13,563 11,085 Estimated Total Loaded Weight Excluding Personnel, Fuel, DEF, and Lift Axle: 23,792 12,929 10,862 Total Front Rear 14,600 Chassis Axle Ratings (lbs): 33.000 21.000 80,000 20,000 20,000 State Axle Restrictions: Federal Axle Restrictions (bridge formula) (excluding lift axle) (lbs): 40,000 20,000 20,000 Total Front Rear Legal Available Payload Including Fuel and People, based on minimum of all restrictions: 8,352 1,037 8,915 Legal Available Payload Excluding Fuel and People, based on minimum of all restrictions: 9,208 1,671 9,138 Physical Chassis Available Payload Including Fuel and People: 8,352 1,037 9,915 Percentage of Legal Available Payload Including Fuel and People, based on minimum of all restrictions: 25% 45% Additional counterweight needed for stability (other than what is shown above):

\*Weight of pedestal is not included in unit weight.

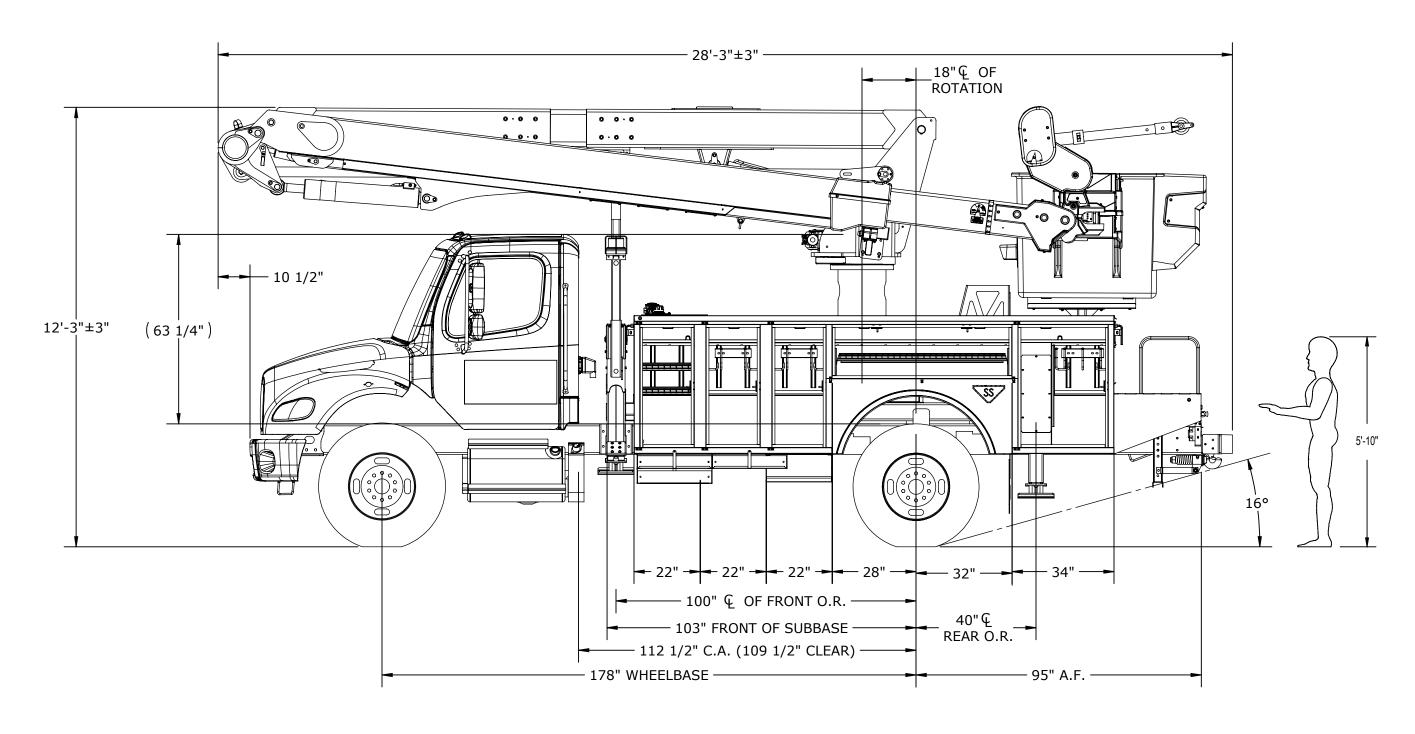
Notes

Total counterweight to be installed:

#### **WEIGHT STUDY**

Template Revision: BF

	revisions		
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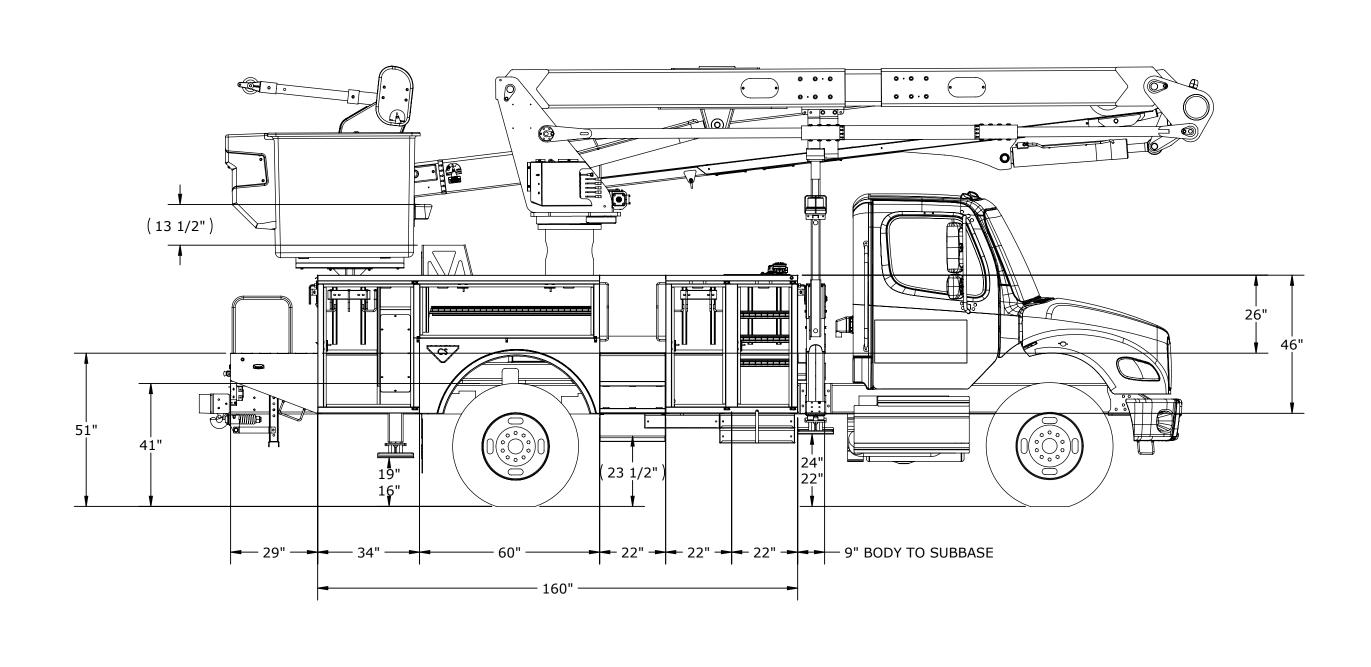
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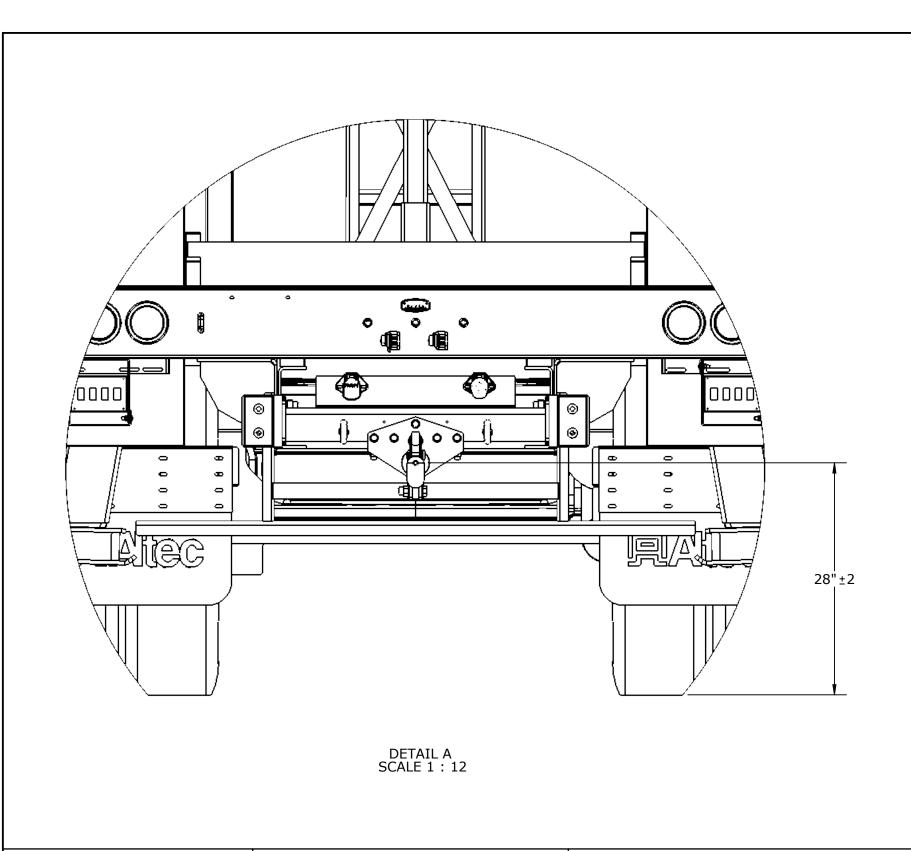
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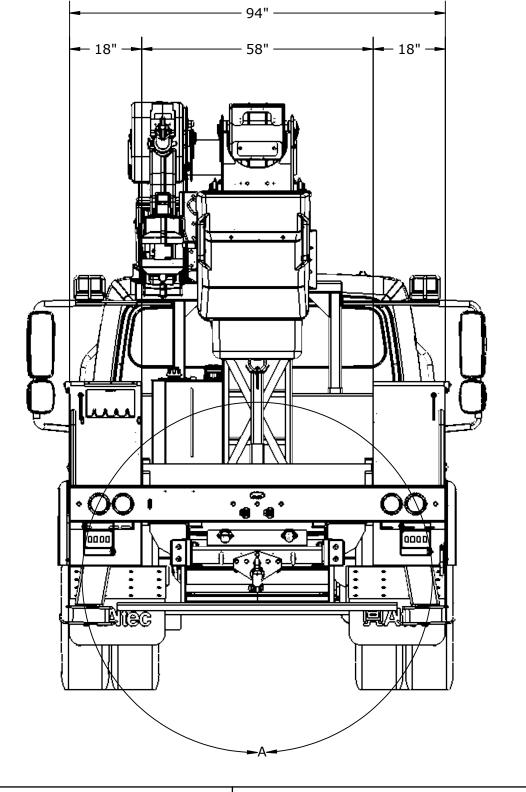


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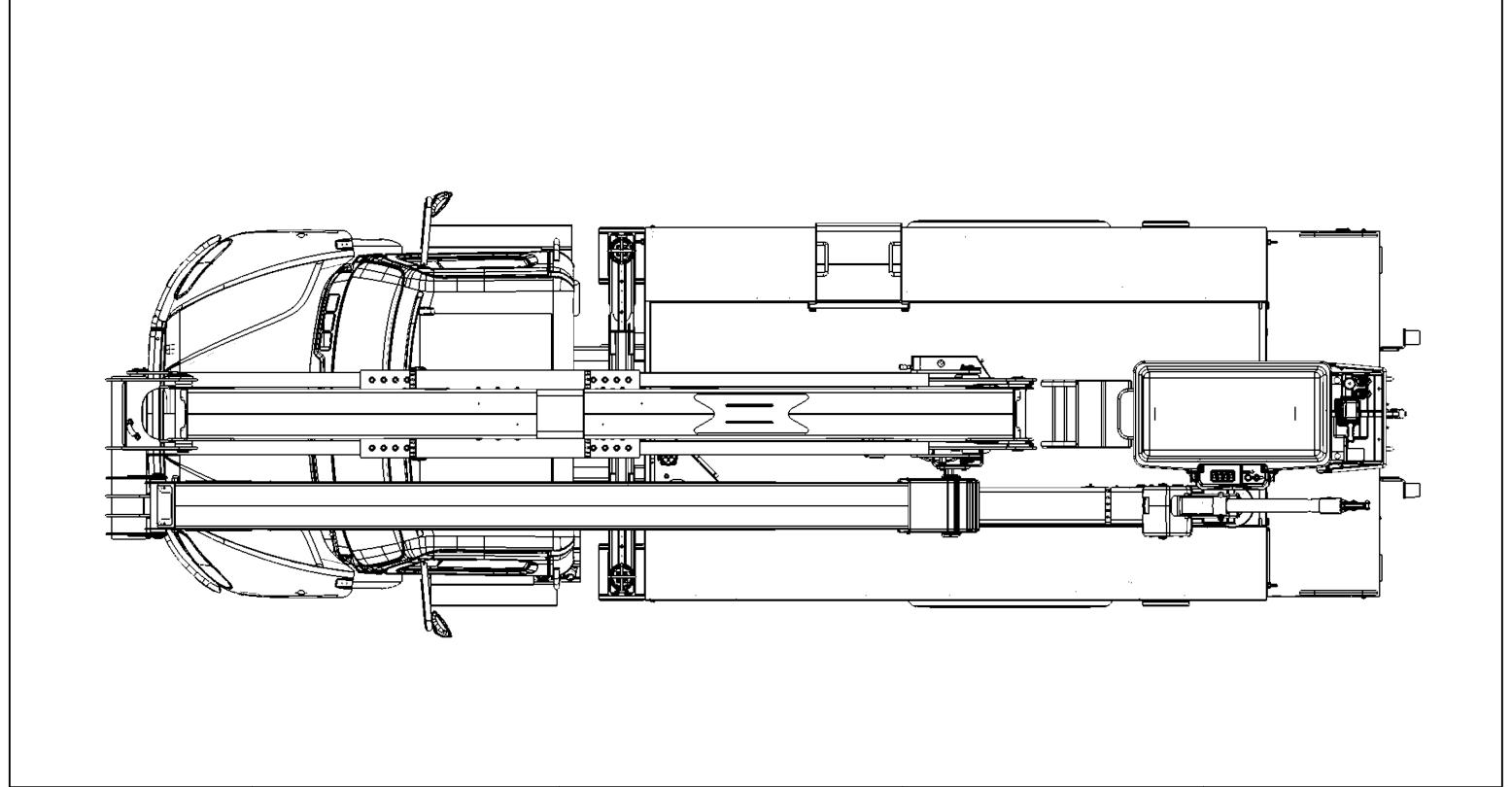
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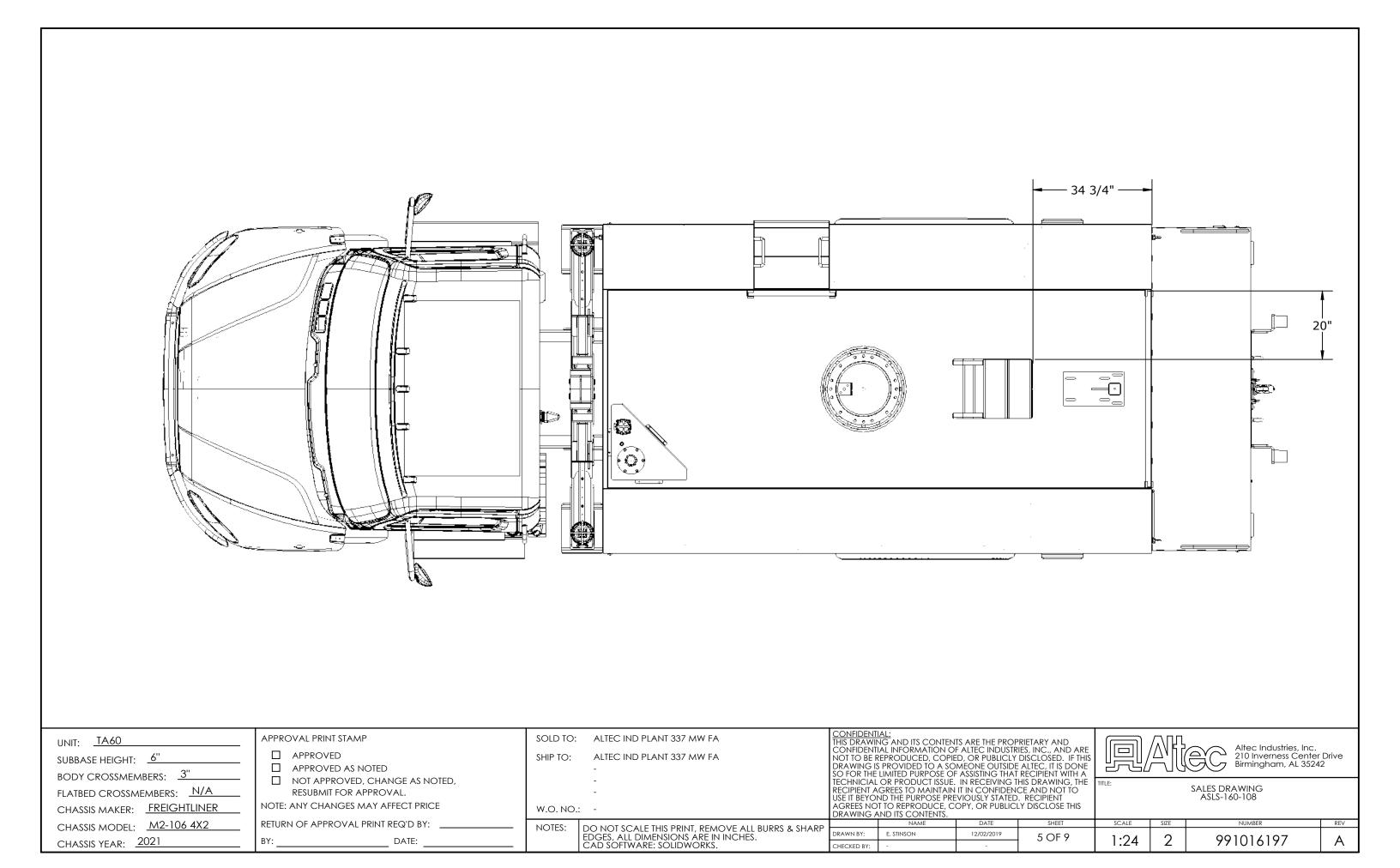
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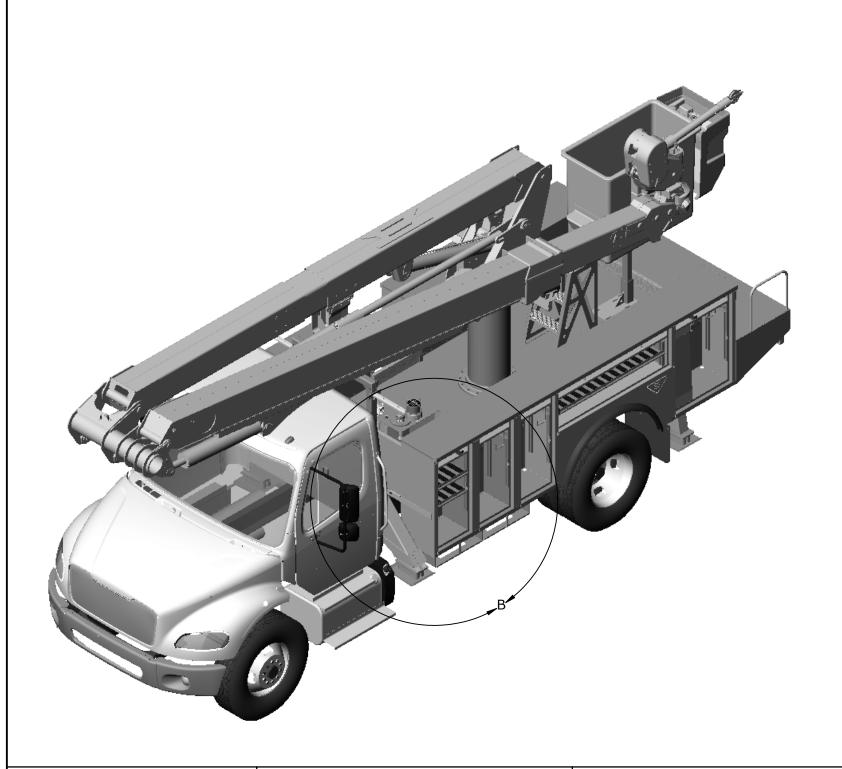
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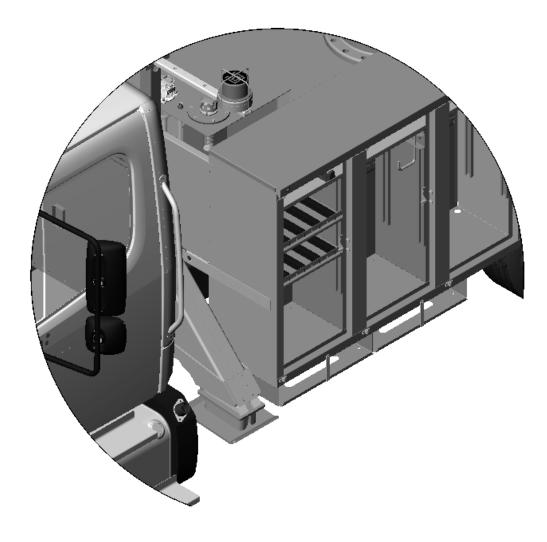
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DETAIL B SCALE 1:18

UNIT: TA60
SUBBASE HEIGHT: 6"
BODY CROSSMEMBERS: 3"
FLATBED CROSSMEMBERS: N/A
CHASSIS MAKER: FREIGHTLINER
Chassis model: M2-106 4X2
CHASSIS VEAD: 2021

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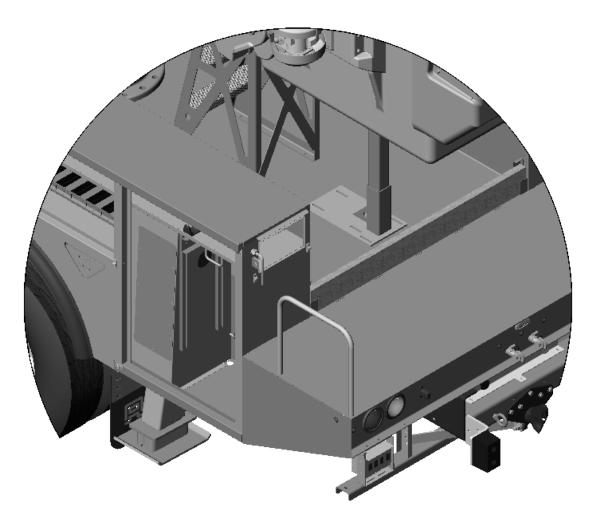


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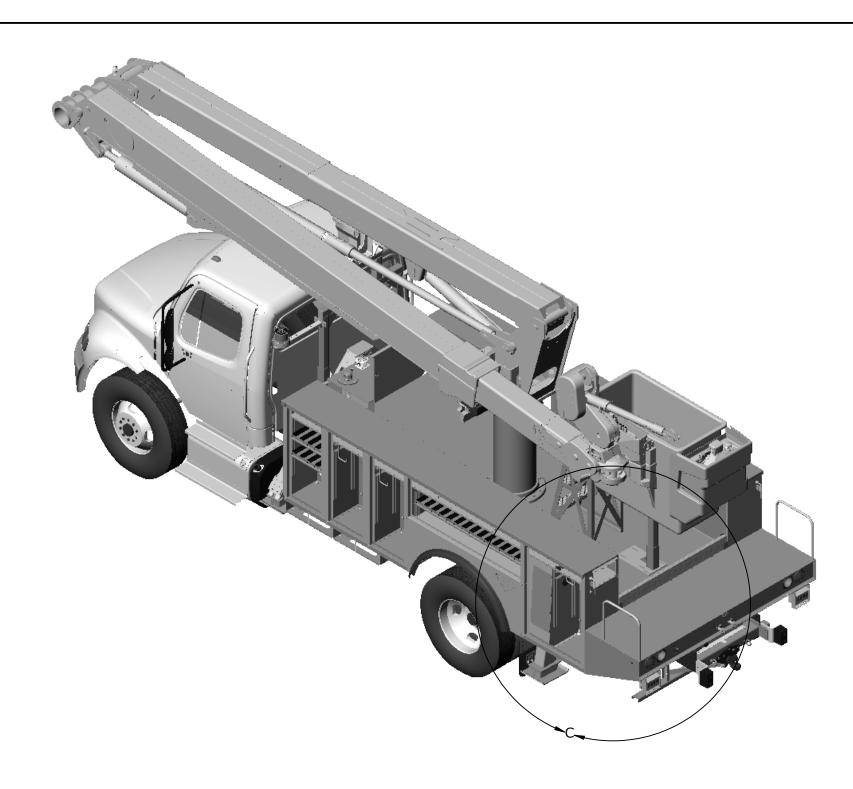
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 6 OF 9
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UNIT: TA60
SUBBASE HEIGHT: 6"
BODY CROSSMEMBERS: 3"
FLATBED CROSSMEMBERS: N/A
CHASSIS MAKER: FREIGHTLINER
CHASSIS MODEL: M2-106 4X2
CHASSIS YEAR: 2021

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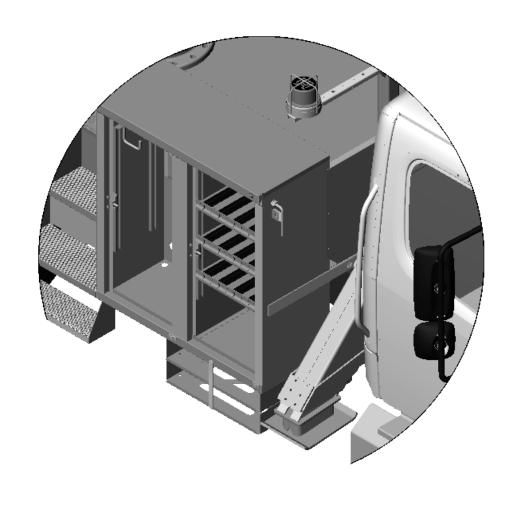


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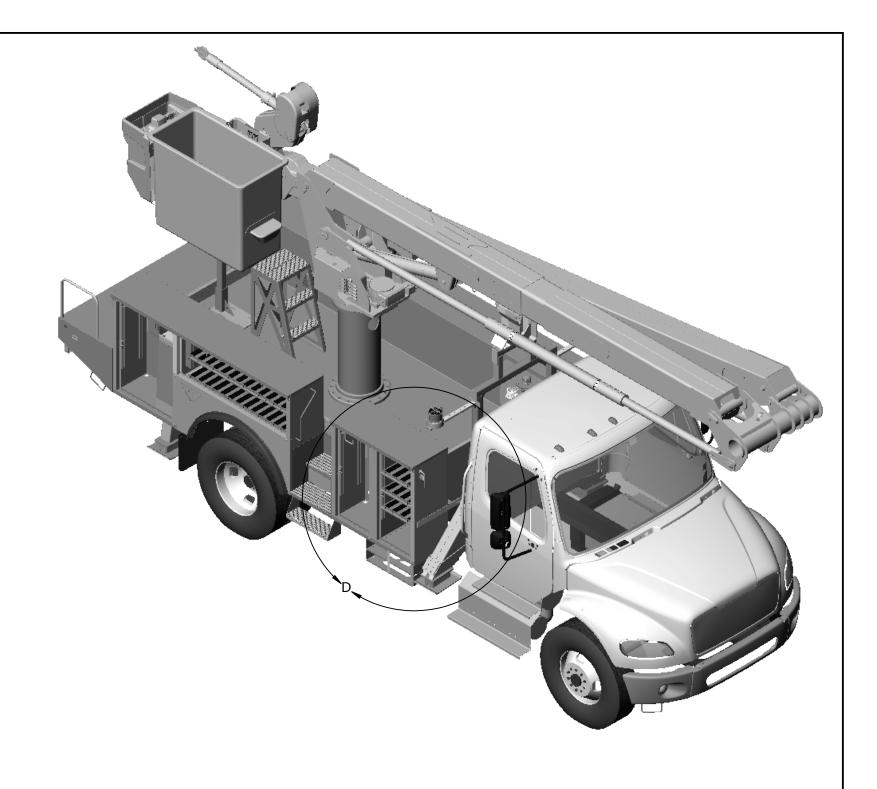
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DETAIL D SCALE 1:18



UNIT: TA60
SUBBASE HEIGHT: 6"
BODY CROSSMEMBERS: 3"
FLATBED CROSSMEMBERS: N/A
CHASSIS MAKER: FREIGHTLINER
CHASSIS MODEL: M2-106 4X2
CHASSIS YEAR. 2021

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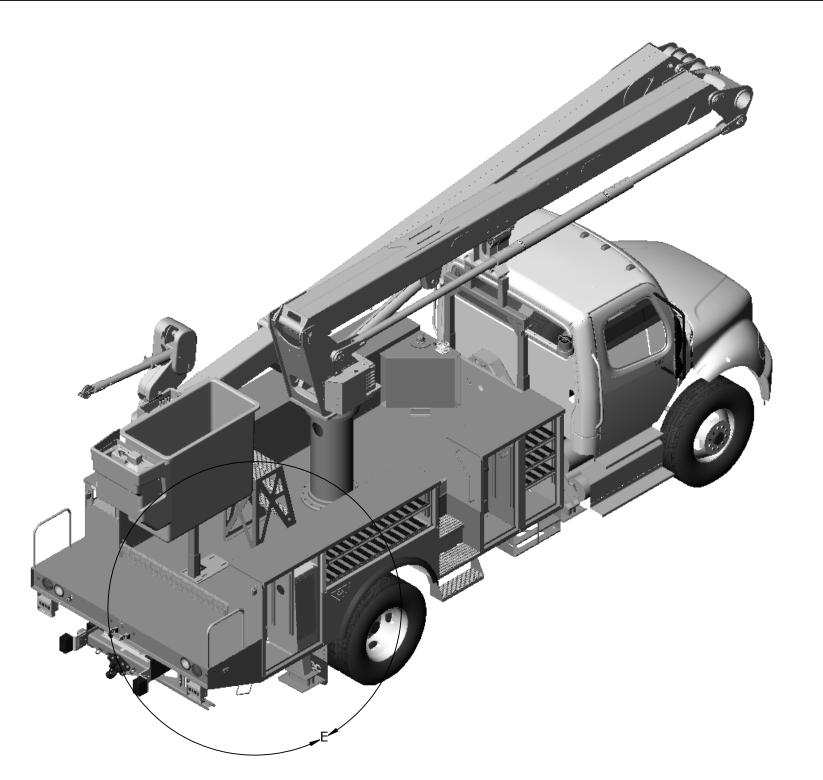
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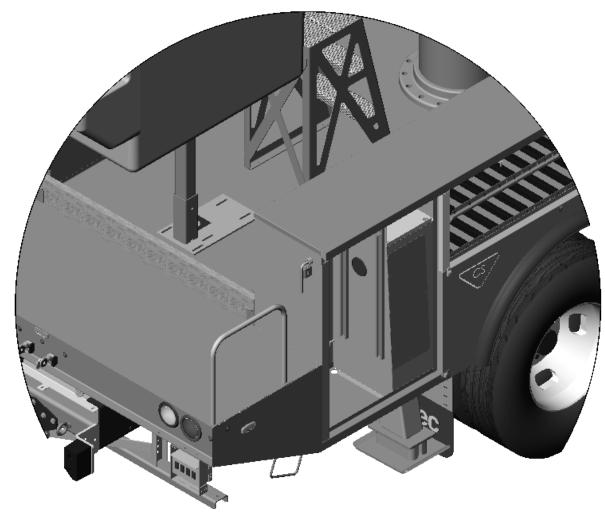
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DETAIL E SCALE 1 : 18

unit: <u>TA60</u>	
SUBBASE HEIGHT: 6"	
BODY CROSSMEMBERS: 3"	
FLATBED CROSSMEMBERS: .	N/A
CHASSIS MAKER: FREIGHT	LINER
CHASSIS MODEL: M2-106	4X2
CHASSIS YEAR: 2021	

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## Weight Study for:

# **ALTEC IND PLANT 337 MW FA**

Run # 1071335 Unit: \_TA60

Chassis: FREIGHTLINER M2-106 4X2

Drivetrain: 4x2

## Estimated Finished Weights, Unladen (excluding personnel, fuel, payload)

Front Axle: 10250 lbs Rear Axle: 14323 lbs Total Weight: 24573 lbs

## Estimated Payload per Chassis, State, and Federal Restrictions\*

Estimated Available Front Axle Payload: 4350 lbs Estimated Available Rear Axle Payload: 5677 lbs Estimated Available Total Payload: 8427 lbs

\*Payload estimate assumes no personnel onboard and empty fuel/DEF tanks

This weight study is an estimate based on the best information available to Altec Engineering at the time of completion. Chassis axle weights and finished frame height may be based on past history of similar chassis. Customers with specific requirements or concerns should ask for a detailed study to be done with data from the chassis manufacturer or data measured from actual chassis. Customer added materials such as tools and supplies are NOT included. It is the customer's responsibility to evaluate available payload and center of gravity against expected usage. By signing this weight study the customer accepts the truck and payload weight estimates as presented and understands this weight study is preliminary.

Customer Signature:	Date:
-	

Revision B

### **WEIGHT STUDY**

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	-	purpose previously stated. Recipient agi	· · · · · · · · · · · · · · · · · · ·					_	IED MO 400 4
	ALTEC IND PLANT 337 MW FA		Bare Chassis We	• .	,	Actual		FREIGHTLIN	IER IVIZ-106 4
Unit Type:			Bare Chassis W	_		Actual	Drivetrain	4x2	
Run #:	107133		Total Bare Chas		10,564	1	Wheelbas <mark>e:</mark>		
Created By:	E. STINSO	N	Fro	ont Tire Size: 3	15/80R22.5		CA/ CT:	113	
Date:	6/10/202	0	Rea	r Axle Style:	Single		GVWR:	33,000	
Sales Dwg & Rev:	991016197-	A	Rear A	xle Spacing			FAWR:	14,600	
WS Revision:	В		Rear Axle Tire Co	onfiguration	Dual tires		RAWR:	21.000	
Curb Weight:				ar Tire Size:		Laden Fra	me Height:		
State:				0					
Otato.	IVII 3 JOURN	Distance from (	C/L Rear Axle to C/L U	nit Dotation:	18	Lift Avia F	own Force:		
								_	
			om C/L Unit Rotation t		62.9	Lin	Axle HCG:		
		Vertical distance from		_	53				
Note:	All weights are in pounds (lbs) and all	distances are in inches unless otherwise	noted	Ship				Lo	ad
Ref	Description		Qt	ty Loose	Weight	HCG	VCG	Front Axle	Rear Axle
1	TA60 220 end-mounted jib				6,368	80.90	81.40	2,894	3,474
2	,	YOUT;ALTEC IND PLANT 337 MW FA;T	A60.4X2.REAR		3,770	35.62	8.88	754	3,015
		W/STEP;;ALTEC;ASLS-160-108 (94);;ST			2,024	0.16	14.37	2	2,022
		HANTOM ASSSEMBLY CONFIG ITEM	LLL,,,,,,, 100.00 II 1		176	-92.6	-8.85	-92	268
		/, HYDRAULIC OIL, STEEL, 30.00 GAL,	NTERNAL BETLIEN		111	83.63	25.53	52	59
		EL, WHITE, 2 MAN, 36.00 IN L, 57.00 IN	H, W/ RUBBER TUE		66	-55.25	23.51	-20	86
7		SS;36.10 IN H;23.16 IN D;17.36 IN W			63	-22.18	27.97	-8	71
		DE PROTECTION;3.00 W X 70.00 L X17.	41 H;;;4X4		40	-80.61	-18.03	-18	59
	500000105-BOOM REST BRACKET				30	100.44	81.4	17	13
10	990646566-SOCKET, BOLT ON;PLA	TFORM REST;14.00 IN L, 10.00 IN W;10	0.38 IN H, PAINT WI		26	-50.81	11.74	-7	33
11	970327075-HOLDER-OUTRIGGER I	PAD, 25.00 IN L, 25.00 IN W, 5.00 IN H, E	OLT-ON, TRIANGL		16	80.5	-18.55	7	9
12	970327075-HOLDER-OUTRIGGER I	PAD, 25.00 IN L, 25.00 IN W, 5.00 IN H, E	OLT-ON, TRIANGL		16	80.5	-13.55	7	9
13		PAD, 25.00 IN L, 25.00 IN W, 5.00 IN H, E			16	80.5	-13.56	7	9
		PAD, 25.00 IN L, 25.00 IN W, 5.00 IN H, E			16	55.5	-13.56	5	11
15		18 IN H;7.00 IN D;22.00 IN L;STEEL WIT			9	39	-15.64	2	7
		INE BODY, 24.00 IN L, 2.25 IN W, 8.26 I	,,		7	-31.54	-13.25	-1	8
		LINE BODY, 24.00 IN L, 2.25 IN W, 6.26 I			7	-31.54	-13.25	-1 -1	8
		DL BOX, ELECTRIC OVER HYDRAULIC,			6	-92.88	-3.38	-3	9
		DL BOX, ELECTRIC OVER HYDRAULIC,			6	-92.88	-3.38	-3	9
		RAILER PLUGS, 6 AND 7 PIN;25.00 IN L	.;3.81 IN W;4.02 IN		5	-90.61	-3.84	-3	8
	990172988-LIGHT ARM, BOLT ON,	24.19 IN L, 2.00 IN H, 6.35 IN W			5	100	55.83	3	2
22	990172988-LIGHT ARM, BOLT ON,	24.19 IN L, 2.00 IN H, 6.35 IN W			5	100	55.83	3	2
23	970492022-RUBBER MUD FLAP, AL	TEC, BLACK, 18.00 IN L, 24.00 IN W, W	ITH ALTEC LOGO,		4	-31.13	-20.85	-1	5
24	970492022-RUBBER MUD FLAP, AL	TEC, BLACK, 18.00 IN L, 24.00 IN W, W	ITH ALTEC LOGO.		4	-31.13	-20.85	-1	5
		ARD;BOLT ON;FOR 3 WAY VALVE;;;;			4	-93.99	-3.19	-2	5
		ARD;BOLT ON;FOR 3 WAY VALVE;;;;			4	-93.99	-3.19	-2	5
		, RUBBER, RECTANGULAR, 6.00 IN L,	3 50 IN W 3 50 IN 1		3	-103.5	-6.77	-2	4
		, RUBBER, RECTANGULAR, 6.00 IN L,			3	-103.5	-6.77	-2	4
			3.30 IN W, 3.30 IN		3				4
	006-65024-BAR, FLAT, 3.00 IN L, 3.0				-	-67.75	0.5	-1	4
	006-65024-BAR, FLAT, 3.00 IN L, 3.0				3	-91.5	0.5	-1	4
	006-65024-BAR, FLAT, 3.00 IN L, 3.0				3	-91.5	0.5	-1	4
	006-65024-BAR, FLAT, 3.00 IN L, 3.0				3	-67.75	0.5	-1	4
	068451218-STROBE BEACON;STRO	DBE;6.19 IN H;7.25 IN D;12VDC, 0.65A;A	MBER;LED;WITH E		2	100	58.74	1	1
34	068451218-STROBE BEACON;STRO	DBE;6.19 IN H;7.25 IN D;12VDC, 0.65A;A	MBER;LED;WITH E		2	100	58.74	1	1
35	970283407-BRACKET, MOUNTING, F	RESERVOIR,7.25 IN L,1.25 IN W,3.00 IN	H,STEEL,DETAIL,B		1	91.69	11.61	1	1
36	970283407-BRACKET, MOUNTING, F	RESERVOIR,7.25 IN L,1.25 IN W,3.00 IN	H,STEEL,DETAIL,B		1	78.59	11.61	1	1
37	970283407-BRACKET, MOUNTING, F	RESERVOIR,7.25 IN L,1.25 IN W,3.00 IN	H,STEEL,DETAIL,B		1	80.5	11.61	1	1
	811000580-U BOLT, COPPER, GRC	UNDING, .50-13 UNC, 8.00 IN L, .50 IN D	DIA. 5.63 IN W		1	-74.71	-9.42	-1	2
		UNDING, .50-13 UNC, 8.00 IN L, .50 IN D			1	210.1	-21.53	1	0
40		RECEPTACLE, BERG BE23703, ROUND			1	-90.24	-2.26	-1	2
41		ED STEEL;FORMED ANGLE;GROUNDI			1	-73.67	-6.68	0	2
42	990703043-311EE1,1 EA1,1101 ROLL	LED STEEL, I ORINIED ANGEL, GROONDI	NO LOG MODINTIN			-73.07	-0.00	U	2
43									
44									
45	Counterweight needed to meet stabil	,						_	
46	Body misc hardware	(10% of body & body-supplied accessor	ries weights)		202	0.16	14.37	0	202
	PTO/Pump	High Flow			110	178		110	0
	Outrigger Controls	Elec over Hyd			27	-93.99	-3.19	-14	41
49	Fire Extinguisher & Brkt.	05 lbs ABC			9	125	38	6	3
50	Outrigger Pads	Wood Pad 24X24X2.5 970585436	4	1 x	84	74.25	-14.805	35	49
	Wheel Chocks		2		22	-24.25	38.25	-3	25
	Hydraulic Oil	Ente	r # gallons here => 30		222	83.63	25.53	104	118
53	Misc. Components	990286514	REF_MISC 500 LB		500	10	0	28	472
54	Diesel exhaust fluid (DEF)	990286772	REF_6 GAL	х	54	113.5	-16	34	20
55	Fuel	990286772	REF_50 GAL	X	355	133.5	-16	266	89
56									
50	Personnel	990286495	225.0 * 2	2 x	450	132.5	27.17	335	115
	Fatimated Total I 3- 3 Mart 1	Juding Chappin (avelority - 199 - 1)			OF 400	70.0		40.005	44 5 47
		luding Chassis (excluding lift axle):			25,432	76.2		10,885	14,547
	Estimated Total Loaded Weight Ex	cluding Personnel, Fuel, DEF, and Lift	AXIE:		24,573			10,250	14,323
					Total			Front	Rear
			Chansis Aut- I	Datings (ILs):					
		ĺ	Chassis Axle I	• , ,	33,000			14,600	21,000
		ĺ	State Axle	Restrictions:	80,000			20,000	20,000
		Federal Axle Restrictions (brid			40,000			20,000	20,000
		i caerai Axie Nestrictions (Dila	go rommulaj (okciuulitig i	uniej (103).					
					Total			Front	Rear
	Legal Avail	able Payload Including Fuel and People, b	ased on minimum of all	restrictions:	7,568			3,715	5,453
l <b>I</b>	Lenal Avail	able Payload Excluding Fuel and People, I	pased on minimum of al	Il restrictions:	8,427			4,350	5,677
	Logal Avail				-			-	
		Physical Chassis Available	Lucylood Induding Eucl	Lond Doonlos	7 560			3,715	6,453
		Physical Chassis Available	Payload including Fue	and People.	7,568			0,7 10	0,400
	Percentage of Legal Avai	lable Payload Including Fuel and People, I	,	•	23%			25%	27%

## WEIGHT STUDY

*Weight of pedestal is not included in unit weight.  Template Revision: BA	Notes:	Additional counterweight needed for stability (other than what is shown above):  Total counterweight to be installed:	533



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#### **FEATURES**

- Altec ISO-Grip® Control System
- Articulating Telescopic Aerial Device
- Compensated Articulating Arm
- Hydraulic Boom Extension
- Insulating, ANSI Category C, 46 kV and Below
- Continuous Rotation
- Platform, 24 x 30 x 42 in (610 x 762 x 1067 mm) Nominal
- · Hydraulic Platform Leveling
- Platform Capacity 350 lb (159 kg) Fixed
- 350 lb (159 kg) with Rotator
- Fully Metered Single Handle Upper Control
- Full Pressure, Open Center Hydraulic System
- · Platform Access from the Ground
- Emergency Lowering Valve
- · Tool Circuit at Platform
- Back-up Alarm
- Outrigger Boom Interlock System (With Outrigger Option)
- Outrigger Motion Alarm (With Outrigger Option)

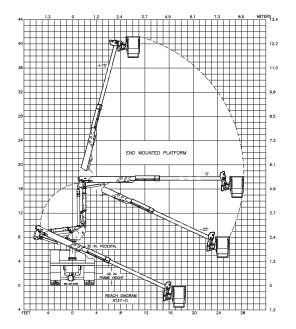
	Ground to Bottom of Platform*	37.8 ft (11.5 m)		
	@ Distance From Centerline	11.2 ft (3.4 m)		
	Maximum Reach:			
S	End-Mount	28.3 ft (8.6 m)		
NO N	Side-Mount	26.2 ft (8.0 m)		
SAT	@ Platform Height	14.6 ft (4.5 m)		
SPECIFICATIONS	Stowed Travel Height*	10.2 ft (3.1 m)		
PEC	Lower Boom Articulation	-25° to 75°		
S	Articulating Arm Articulation	-7° to 90°		
	Rotation	Continuous		
	Weight of Unit	2378 lb (1079 kg)		
	* Based on a 40 in (1016 mm) chassis frame height			

#### **OPTIONS**

- Non-Continuous Rotation
- Secondary Stowage System
- Engine Start/Stop
- Tool Circuit at Tailshelf
- Outriggers, Vertical
- 400 lb Platform Capacity
- Platform Cover
- Platform Rotator 90° or 180°
- Platform, 24 x 24 x 42 (610 x 610x 1067mm) Nominal

Recommended safety equipment, available through Altec Supply, include a fall protection system and wheel chocks for stationary set-ups.

### **REACH DIAGRAM**



### **EASY ACCESS FROM GROUND**



#### **BOOM TIP COVERS**



#### ACCESS BODY FROM PLATFORM



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### **FEATURES**

- Telescopic Articulating Aerial Device
- · Compensated Articulating Arm
- · Hydraulic Boom Extension
- Altec ISO-Grip® Control System
- Low Power Fiber Optic Control System
- Fully Metered 4-Function, Single-Handle Upper Control
- · Platform Access from Ground
- Composite Platform Mounting Bracket
- · Insulating, ANSI Category C
- Hydraulic Plaform Leveling System
- Emergency Lowering Valve at Platform
- Platform Leveling at Upper and Lower Controls
- 180° Platform Rotator
- Tool Circuit at Platform
- Open-Center Hydraulic System
- Easily Mounted on 19,500 lb (8,845 kg) GVWR Chassis
- Outrigger Boom Interlock System (with Outrigger Option)
- Outrigger Motion Alarm (with Outrigger Option)
- Back Up Alarm

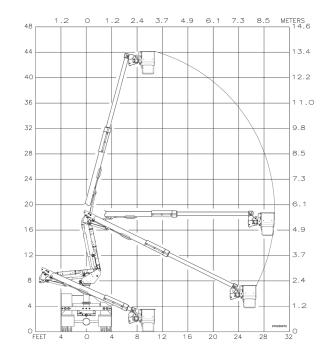
#### **OPTIONS**

- · ISO-Boom Offering ANSI Category C Isolation with Boom Retracted
- Outriggers, Vertical
- · Hybrid Adaptation Available with Standard Electronic Systems
- Secondary Stowage
- Engine Start/Stop
- Platform Cover
- Tool Circuit at Tailshelf
- 24 x 24 x 42 in (610 x 610 x 1067 mm) Platform
- Altec Platform Load Monitoring

Recommended safety equipment, available through Altec Supply, include a platform liner, fall protection system, wheel chocks and outrigger pads (with outrigger option).

Ground to Bottom of Platform* (at Reach from Centerline)	40.6 ft (12.4 m) 10.9 ft (3.3 m)
Working Height	45.6 ft (13.9 m)
Maximum Side Reach (at Platform Height)	29.7 ft (9.1 m) 15.2 ft (4.6 m)
Platform Capacity	400 lb (181.4 kg)
Platform Dimensions (End-Mount)	24 x 30 x 42 in (610 x 762 x 1,067 mm)
Articulating Arm Articulation	-5 to 79°
Upper Boom Articulation	-25 to 75°
Stowed Travel Height	10.3 ft (3.1 m)
Rotation	Continuous
Weight of Machine**	2,543 lb (1,153 kg)

### **REACH DIAGRAM**



# INCREASED SIDE REACH 29.7 FT (9.1 M)



# INCREASED WORKING HEIGHT 45.6 FT (13.9 M)



ISO-BOOM OPTION
FOR ADDED DIELECTRIC INTEGRITY



# FIBER OPTIC CONTROLS WITH FEWER HOSES AND VALVES



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# **Options**

(Only available as an option with the purchase of an aerial or derrick device. Not available for individual sale)

### Description

Description	
360 Degree Rotation Recessed Swivel D-Ring in Cargo Floor (each)	
Standard D-Ring, Weld On Style	
Wire Cask Bracket, Wire Style	
3 Gallon Water Cask	
5 Gallon Water Cask	
Stainless Steel Straight Grounding Lug (each)	
Hannay Spring Loaded Grounding Reel, 50' of 1/0 Cable, Grounding Clamp	
50' of 1/0 Cable, One (1) Grounding Clamp, One (1) End Installed	
Post Mounted Spotlight, 'A' Pillar Installed (each)	
Unity Combination Spot/Flood Light with Chrome Housing (each)	
Whelen Perimeter Enhancement Light (each)	
Streamlight with Vehicle Mounted Holder and Charger	
GoLight with Wireless Controller	
GoLight with Dash Mounted Wired Controller	
NiteRay with Wireless Controller	
NiteRay with Dash Mounted Wired Controller	
Reverse/Work Flood Lights, LED, Rectangular	
Cargo Wall Light, LED, 4 inch Diameter, Grommet Mounted	
4 Corner Strobe System, 4 inch Amber LED Lights Installed at the Rear,	
Grille Mounted Strobes at the Front	
Altec Backup Camera, 7" Monitor, Heated Infrared Camera with Day/Night	
Sensor And Audio	
1200 Watt Pure-Sine Wave Inverter	
2400 Watt Pure-Sine Wave Inverter	
120 Volt GFCI Weatherproof Receptacle	
12 Volt Receptacle, Weatherproof	
MY-TE Electric Capstan, 800 LB Capacity Single Line, With Foot Controls	
PTO Hour Meter, Rectangular, 10,000 Hour Display	
Soft Copper Wire Spool Rack, Holds Four Reels, Remove One Reel Without	
Removing Other Reels	
Material Rail, Six Sliding Hooks	
Wire Storage, Bicycle Style Rack, 30" L x 28" W x 20" H, Five Sections	
Vise Mounting Bracket, Removable V-Style, Retaining Pin	
Wilton Vise, 6.5" Jaw with 5.5" Opening, Swivel Base	
Transformer Bracket	
Slide-N-Lock Assembly, Up to 60" in Length	
EZ-Step Pull Out Access Step, Two Rung Step, in lieu of Standard Step	
Cross Storage Located at the Tailshelf, Two Drop Down Doors with Keyed	
Latches (If Applicable)	

Drop Down Door and Keyed Latch Braden PD18 Front Bumper Winch Assembly (Please select a controller) Braden PD35 Front Bumper Winch Assembly (Please select a controller) Braden PCD24B Hydraulic Capstan, 20 GPM, 3000 LBS (Please select a controller) Braden PDC24B Hydraulic Capstan, 30 GPM, 6000 LBS (Please select a controller) Braden PDC24B Hydraulic Capstan, 30 GPM, 6000 LBS (Please select a controller) Winch Controller, Remote Mounted, Cable Single Axis Winch Controller, Remote Mounted, Electrohydraulic Single Axis Winch Cable, 250' of 1/2" IWRC Winch Cable, 250' of 5/8" IWRC Quick Hook, 5 Ton, For Winch Shackle, Screw Pin, 21 Ton Collapsible Reel (CR Reel) Stationary Storage Bracket For Collapsible Reel (CR Reel) Amber Strobe Beacon Top Opening Steel Box, 36"x18"x12" Top Opening Steel Box, 72"x18"x12" Top Opening Steel Box, 120"x18"x12" Top Opening Steel Box, 120"x18"x12" PVC Canister Kit, 8" Diameter Pipe, 124" L, Aluminum Caps Punched Steel Open Top Storage Bin, 36"x18"x12" Punched Steel Open Top Storage Bin, 36"x18"x12" Top Opening Aluminum Box, 36"x18"x12" Top Opening Aluminum Dopen Top Storage Bin, 36"x18"x12" Top Opening Aluminum Dopen Top Storage Bin, 72"x18"x12" Cone Holder, Post Style Cone holder, folding type Rubber Belted Step Hydraulic Pole Tamper, 3' Handle With Valve Two-Part Load Line, With Snatch Block And Clevis Pole Rack With Tie Downs	Storage Compartment Between Chassis Frame Rails, Punched Metal with	
Braden PD35 Front Bumper Winch Assembly (Please select a controller) Braden PCD24B Hydraulic Capstan, 20 GPM, 3000 LBS (Please select a controller) Braden PDC24B Hydraulic Capstan, 30 GPM, 6000 LBS (Please select a controller) Winch Controller, Remote Mounted, Cable Single Axis Winch Controller, Remote Mounted, Electrohydraulic Single Axis Winch Cable, 250' of 1/2" IWRC Winch Cable, 250' of 1/8" IWRC Quick Hook, 5 Ton, For Winch Shackle, Screw Pin, 21 Ton Collapsible Reel (CR Reel) Stationary Storage Bracket For Collapsible Reel (CR Reel) Amber Strobe Beacon Top Opening Steel Box, 36"x18"x12" Top Opening Steel Box, 72"x18"x12" Top Opening Steel Box, 120"x18"x12" PVC Canister Kit, 8" Diameter Pipe, 124" L, Aluminum Caps Punched Steel Open Top Storage Bin, 36"x18"x12" Punched Steel Open Top Storage Bin, 72"x18"x12" Ladder Rack, 126" L, Roller and Retaining Strap, Steel Top Opening Aluminum Box, 36"x18"x12" Top Opening Aluminum Box, 72"x18"x12" Punched Aluminum Dopen Top Storage Bin, 72"x18"x12" Punched Aluminum Open Top Storage Bin, 72"x18"x12" Punched Aluminum Open Top Storage Bin, 72"x18"x12" Punched Aluminum Open Top Storage Bin, 72"x18"x12" Cone Holder, Post Style Cone holder, folding type Rubber Belted Step Hydraulic Pole Tamper, 3' Handle With Valve Two-Part Load Line, With Snatch Block And Clevis	Drop Down Door and Keyed Latch	
Braden PCD24B Hydraulic Capstan, 20 GPM, 3000 LBS (Please select a controller) Braden PDC24B Hydraulic Capstan, 30 GPM, 6000 LBS (Please select a controller) Winch Controller, Remote Mounted, Cable Single Axis Winch Controller, Remote Mounted, Electrohydraulic Single Axis Winch Cable, 250' of 1/2" IWRC Winch Cable, 200' of 5/8" IWRC Quick Hook, 5 Ton, For Winch Shackle, Screw Pin, 21 Ton Collapsible Reel (CR Reel) Stationary Storage Bracket For Collapsible Reel (CR Reel) Amber Strobe Beacon Top Opening Steel Box, 36"x18"x12" Top Opening Steel Box, 72"x18"x12" Top Opening Steel Box, 120"x18"x12" PVC Canister Kit, 8" Diameter Pipe, 124" L, Aluminum Caps Punched Steel Open Top Storage Bin, 36"x18"x12" Punched Steel Open Top Storage Bin, 72"x18"x12" Ladder Rack, 126" L, Roller and Retaining Strap, Steel Top Opening Aluminum Box, 36"x18"x12" Top Opening Aluminum Box, 72"x18"x12" Top Opening Aluminum Open Top Storage Bin, 36"x18"x12" Top Opening Aluminum Open Top Storage Bin, 36"x18"x12" Cone Holder, Post Style Cone Holder, Folding type Rubber Belted Step Hydraulic Pole Tamper, 3' Handle With Valve Two-Part Load Line, With Snatch Block And Clevis	Braden PD18 Front Bumper Winch Assembly (Please select a controller)	
controller)  Braden PDC24B Hydraulic Capstan, 30 GPM, 6000 LBS (Please select a controller)  Winch Controller, Remote Mounted, Cable Single Axis  Winch Controller, Remote Mounted, Electrohydraulic Single Axis  Winch Cable, 250' of 1/2" IWRC  Winch Cable, 250' of 5/8" IWRC  Quick Hook, 5 Ton, For Winch  Shackle, Screw Pin, 21 Ton  Collapsible Reel (CR Reel)  Stationary Storage Bracket For Collapsible Reel (CR Reel)  Amber Strobe Beacon  Top Opening Steel Box, 36"x18"x12"  Top Opening Steel Box, 72"x18"x12"  Top Opening Steel Box, 120"x18"x12"  PVC Canister Kit, 8" Diameter Pipe, 124" L, Aluminum Caps  Punched Steel Open Top Storage Bin, 36"x18"x12"  Punched Steel Open Top Storage Bin, 72"x18"x12"  Top Opening Aluminum Box, 36"x18"x12"  Top Opening Aluminum Box, 36"x18"x12"  Top Opening Aluminum Box, 72"x18"x12"  Top Opening Aluminum Box, 72"x18"x12"  Top Opening Aluminum Box, 120"x18"x12"  Top Opening Aluminum Box, 120"x18"x12"  Top Opening Aluminum Doen Top Storage Bin, 36"x18"x12"  Punched Aluminum Open Top Storage Bin, 36"x18"x12"  Cone Holder, Post Style  Cone Holder, Folding type  Rubber Belted Step  Hydraulic Pole Tamper, 3' Handle With Valve  Two-Part Load Line, With Snatch Block And Clevis	Braden PD35 Front Bumper Winch Assembly (Please select a controller)	
Braden PDC24B Hydraulic Capstan, 30 GPM, 6000 LBS (Please select a controller)  Winch Controller, Remote Mounted, Cable Single Axis  Winch Controller, Remote Mounted, Electrohydraulic Single Axis  Winch Cable, 250' of 1/2" IWRC  Winch Cable, 200' of 5/8" IWRC  Quick Hook, 5 Ton, For Winch  Shackle, Screw Pin, 21 Ton  Collapsible Reel (CR Reel)  Stationary Storage Bracket For Collapsible Reel (CR Reel)  Amber Strobe Beacon  Top Opening Steel Box, 36"x18"x12"  Top Opening Steel Box, 72"x18"x12"  Top Opening Steel Box, 120"x18"x12"  PVC Canister Kit, 8" Diameter Pipe, 124" L, Aluminum Caps  Punched Steel Open Top Storage Bin, 36"x18"x12"  Punched Steel Open Top Storage Bin, 36"x18"x12"  Ladder Rack, 126" L, Roller and Retaining Strap, Steel  Top Opening Aluminum Box, 36"x18"x12"  Top Opening Aluminum Box, 72"x18"x12"  Top Opening Aluminum Box, 120"x18"x12"  Punched Aluminum Open Top Storage Bin, 36"x18"x12"  Punched Aluminum Open Top Storage Bin, 36"x18"x12"  Punched Aluminum Open Top Storage Bin, 36"x18"x12"  Punched Aluminum Open Top Storage Bin, 72"x18"x12"  Cone Holder, Folding type  Rubber Belted Step  Hydraulic Pole Tamper, 3' Handle With Valve  Two-Part Load Line, With Snatch Block And Clevis	Braden PCD24B Hydraulic Capstan, 20 GPM, 3000 LBS (Please select a	
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Rubber Belted Step  Hydraulic Pole Tamper, 3' Handle With Valve  Two-Part Load Line, With Snatch Block And Clevis		
Hydraulic Pole Tamper, 3' Handle With Valve Two-Part Load Line, With Snatch Block And Clevis		
Two-Part Load Line, With Snatch Block And Clevis	·	
·	·	
	Pole Rack With Tie Downs	



FOR NEW EQUIPMENT SALES, CALL 800.958.2555
TO SPEAK WITH AN ALTEC REPRESENTATIVE or visit us online at altec.com



# TA50/55/60

#### **FEATURES**

- · Working Height up to 64.8 ft and Side Reach up to 40.1 ft
- 600 lbs Platform Capacity Regardless of Jib Capacity
- 4-Function Single Handle Upper Control
- Altec ISO-Grip® Control System
- Fiberglass Upper Boom & Lower Boom Insulator
- Insulated Aerial Device
- · Continuous Rotation
- Articulating Arm Provides Upper Boom Compensation
- · Hydraulic Platform Rotation and Tilt
- Full Pressure, Open Center Hydraulic System
- A-Frame Primary Outriggers
- · Outrigger Motion Alarm and Outrigger Interlocks
- Two Sets of Hydraulic Tool Circuits at Platform
- Diagnostic Pressure Test Quick Disconnect Couplings
- Emergency Stop Valves at All Upperand Lower Control Stations
- Lower Boom Lifting Eye

#### **OPTIONS**

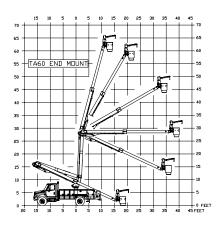
- · Rear or Behind Cab Mount
- · Altec ARM System
- · Hydraulic Extend Jib
- 2-Man Platform with 180° Rotation
- Engine Start/Stop
- Remote Secondary Stowage
- Jib Adapter
- · Phase Lifting Jib Attachment
- · Auxiliary Outriggers
- Manual Throttle
- Platform Covers
- · Intensifier at Boom Tip
- Tool Circuit Below Rotation
- Platform Elevator

Recommended safety equipment, available through Altec Supply, include a platform liner, fall protection system, wheel chocks and outrigger pads.

10	NFIGURATIONS	TA50	TA55	TA60
	Ground to Bottom of Platform*	49.5 ft (15.1 m)	54.4 ft (16.6 m)	59.8 ft (18.2 m)
	Working Height*	54.5 ft (16.6 m)	59.4 ft (18.1 m)	64.8 ft (19.8 m)
2 2 2	Maximum Side Reach  @ Platform Height	36.2 ft (11.0 m) 19.9 ft (6.1 m)	38.3 ft (11.7 m) 22.7 ft (6.9 m)	40.1 ft (12.2 m) 26.6 ft (8.1 m)
ECILICATIONS	Stowed Travel Height*	11.9 ft (3.6 m)	11.4 ft	(3.5 m)
2	Platform Capacity, Single 2-man	600 lbs (272.2 kg)		
2/2	Upper Boom Articulation	-25° to 75°		
	Articulating Arm Articulation	5.25° to 92.5°		
	Rotation	Continuous		
	*Based on a 40 in (1016 mm) chassis frame height.			



#### REACH DIAGRAM



#### **OPTIONAL ALTEC ARM SYSTEM**

PROVIDES THE UNIQUE ABILITY TO HANDLE MATERIAL ON EITHER SIDE OF THE BOOM TIP



ALTEC ARM JIB

MAKES REMOVING AND INSTALLING TRANSFORMERS SAFER AND SMARTER®.



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