ARKANSAS STATE HIGHWAY COMMISSION ARDOT-EQUIPMENT AND PROCUREMENT DIVISION BID INVITATION

Contract Number:	H-20-238R		ARDOT Equipment and	MAIL TO: ARDOT Equipment and	DELIVER TO: ARDOT Equipment and
Bid Opening Date:	December 10, 2019 Time:	11:00 a.m.	Procurement Division 11302 West Baseline Road Little Rock, AR 72209	Procurement Division P.O. Box 2261 Little Rock, AR 72203	Procurement Division 11302 West Baseline Road Little Rock, AR 72209
mail and delivery loo	ishing the commodities and/or services d cations until the above-noted bid opening chments when appropriate, or bids will	date and time, and	then publicly opened at the above-not	ed bid opening location. Bid	
n compliance with t orice set opposite ea	his Bid Invitation and subject to all the Corch item.	ditions thereof, the	undersigned offers and agrees to furnis	h any and all items upon whic	ch prices are quoted, at the
Company Name:			Name (Type or Print):_		
Address:			Title:		
			Phone:	Fax:	
City:	State:	Zip:	E-Mail:		
Federal Tax ID or	Social Security No.:			original (not photocopied) an	<mark>d in ink.</mark>

Cab & Chassis

Bid prices shall include any applicable labor cost as well as delivery of all Equipment to ARDOT at the F.O.B. location(s) shown on attached Bid Sheet.

Contract may be renewed or extended upon mutual agreement of the parties, but shall not exceed limitations allowed by Arkansas State Procurement Law.

All bidders should complete and return the Eligible Bidder Certification (Attachment A) and Disclosure Form (see Page 2 of Standard Bid Conditions – Item 18) and Restriction of Boycott of Israel Certification issued with this bid. A current copy of the DFA Illegal Immigrant Contractor Disclosure Certification (see Page 1 of Standard Bid Conditions – Item 17) should also be submitted with bid.

Literature Submittals – Item A2 of Bid Specifications shall supersede Item #11 of Standard Bid Conditions.

Bid Bond in the amount of \$1,000 required of all bidders at time of bid opening or bid will be rejected. **Personal and company checks are not acceptable as Bid Bonds.** See Condition 4 on page 1 of Standard Bid Conditions. **Performance Bond** in the amount of 5% of the total awarded to the respective bidders must be furnished within 10 days after receipt of notice of intent to award as a guarantee of delivery in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds.** See Condition 4 on page 1 of Standard Bid Conditions.

Additional Bonding Requirement: If additional units are purchased from this contract, a separate Performance Bond will be required under the same conditions as stated in this Bid Invitation.

Bidder shall specify guaranteed delivery date for all vehicles/equipment in the space provided under each item number for which a price is being submitted. Successful bidder shall furnish Warranty Data for each vehicle/equipment delivered. The Warranty Data shall contain all necessary information such as motor and/or serial numbers and shall be signed by the selling dealer at the time vehicle/equipment is delivered to the Department of Transportation. Certificate of Origin, Federal Excise Tax Exemption Certificates, Odometer Disclosure Statement and five (5) copies of the Invoice for each vehicle/equipment to be furnished to Equipment & Procurement Division, P.O. Box 2261, Little Rock, AR 72203.

The successful bidder will be required to complete delivery within 270 days after award.

Bids and Specifications are available on-line by going to the ARDOT Web Site – www.ardot.gov and clicking on "Commodities and Services Bids/Contracts Information". Tabulations will also be available at this site after award of bid/contract. If you have any questions, call this office at 501-569-2667.

64-9195/00-26, 01-33, 01-40

ARKANSAS STATE HIGHWAY COMMISSION ARDOT-EQUIPMENT AND PROCUREMENT DIVISION

BID SHEET

Con	tract No.: H-20-238	R BIDDER:	
1.		Attachment, Underdeck Air Compressor Spec. 19-091-067.	
	FOB: 1 ea. ARDO	OT – Equipment and Procurement, 11302	West Baseline Road, Little Rock, AR 72209
	Bid Price (Do not	include any Local, State or Federal Taxes	Each \$
	Total for 1 Cab &	Chassis	\$
	Cab & Chassis p	roposed as meeting specifications:	
	Make	Model	Warranty
	Guaranteed Delive	ery Date	
	Additional Units 1	may be purchased at the same pricing and	
	conditions through	1	
		(Date)	
			BID TOTAL \$
			υτο 1 Ο Ι/ΙΕΙ ψ

ARDOT - STANDARD BID CONDITIONS

- 1. **GENERAL:** Any special terms and conditions included in the invitation for bid override these standard terms and conditions. The standard terms and conditions and any special terms and conditions become part of any contract entered into if any or all parts of the bid are accepted by the Arkansas Department of Transportation (ARDOT).
- ACCEPTANCE AND REJECTION: ARDOT reserves the right to reject any or all bids, to accept bids in whole or in part (unless
 otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with
 variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the
 State.
- 3. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
- BID BONDS AND PERFORMANCE BONDS: If required, a Bid Bond in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. Personal and company checks are not acceptable as Bid Bonds. Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by ARDOT or fails to honor their bid. When a bidder claims and can show clear and convincing evidence that a material mistake was made in the bid and was not the bid intended, the bidder may be permitted to withdraw their bid prior to award without forfeiture of bid bond. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a Performance Bond in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. Personal and company checks are not acceptable as Performance Bonds. In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company that is authorized to do business in the State of Arkansas and that is listed on the current United States Department of the Treasury Listing of Approved Sureties. Surety bonds must be executed by a resident or non-resident agent who is licensed by the Arkansas State Insurance Commissioner to represent the surety company executing the bond, and the resident or non-resident agent shall file with the bond the power of attorney of the agent to act on behalf of the bonding company. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). These bonds shall not only serve to guarantee the completion of the work, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions fulfilled. In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.
- 5. **TAXES:** The ARDOT is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the ARDOT as an addition thereto, and should be added to the billing to the ARDOT. The ARDOT is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the ARDOT.
- 6. "ALL OR NONE" BIDS: Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
- 7. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
- 8. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
- 9. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
- 10. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.

- 11. **SAMPLES, LITERATURE, DEMONSTRATIONS:** Samples and technical literature must be provided free of any charge within 14 days of ARDOT request, and free demonstrations within 30 days, unless ARDOT extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by ARDOT. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.
- 12. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
- 13. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the ARDOT, as soon as possible, of the reason for any delay and the expected delivery date. The ARDOT has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
- 14. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by ARDOT after delivery. Default in promised delivery or failure to meet specifications authorizes the ARDOT to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
- 15. **ETHICS:** "It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business." (Arkansas Code, Annotated, Section 19-11-708).
- 16. NOTICE OF NONDISCRIMINATION: The Arkansas State Highway Commission, through ARDOT, complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore, ARDOT does not discriminate on the basis of race, sex, color, age, national origin, religion (not applicable as a protected group under the Federal Motor Carrier Safety Administration Title VI Program), disability, Limited English Proficiency (LEP), or low-income status in the admission, access to and treatment in the ARDOT's programs and activities, as well as the ARDOT's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the ARDOT's nondiscrimination policies may be directed to Joanna P. McFadden Section Head EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501)569-2298, (Voice/TTY 711), or the following email address: joanna.mcfadden@ahtd.ar.gov. Free language assistance for Limited English Proficient individuals is available upon request. This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.
- 17. **PROHIBITION OF EMPLOYMENT OF ILLEGAL IMMIGRANTS:** Pursuant to Arkansas Code Annotated 19-11-105, all bidders must certify prior to award of a contract that they <u>do not</u> employ or contract with any illegal immigrant(s) in its contract with the state. Bidders shall certify online at https://www.ark.org/dfa/immigrant/index.php.
- 18. **DISCLOSURE:** Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that order, **shall** be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy **shall** be subject to all legal remedies available to the agency.

ATTACHMENT A

ELIGIBLE BIDDER CERTIFICATION

The Bidder represents and warrants for itself, its employees and its subcontractors and certifies they:

- 1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- 2. Have not within a three-year period preceding thus Bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- 3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph two (2) of this Certification;
- 4. Have not within a one-year period preceding this application/Bid had one or more public transactions (Federal, State, or local) terminated for cause or default; and

The Bidder represents, warrants and acknowledges the understanding that restrictions placed on the employment of labor or on the scale of pay for the work on a contract will be the requirements of the Fair Labor Standards Act (Federal Wage-Hour Law) of 1938, 28 USC §201 et seq., and other applicable labor laws.

The person executing this Certification further represents, warrants and affirms the truthfulness and accuracy of the contents of the statements submitted on or with this Certification and understands that the provisions of 31 USC §3801 et seq. are applicable thereto.

BIDDER NAME
BY:
Signature
TITLE:

RESTRICTION OF BOYCOTT OF ISRAEL CERTIFICATION

Pursuant to Arkansas Code Annotated § 25-1-503, a public entity **shall not** enter into a contract valued at \$1,000 or greater with a company unless the contract includes a written certification that the person or company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

By signing below, the Contractor agrees and certifies that they do not currently boycott Israel and will not boycott Israel during any time in which they are entering into, or while in contract, with any public entity as defined in § 25-1-503* If at any time after signing this certification the contractor decides to engage in a boycott of Israel, the contractor must notify the contracting public entity in writing.

If a company does boycott Israel, see Arkansas Code Annotated § 25-1-503.

Name of public entity	Arkansas Department of Transportation
Description of product or service	Cab & Chassis
Contractor name	
Contractor Signature:	Date:
Signature must be hand written, in ink	

"Public Entity" means the State of Arkansas, or a political subdivision of the state, including all boards, commissions, agencies, institutions, authorities, and bodies politic and corporate of the state, created by or in accordance with state law or regulations, and does include colleges, universities, a statewide public employee retirement system, and institutions in Arkansas as well as units of local and municipal government.

ILLEGAL IMMIGRANT CERTIFICATION

Pursuant to Arkansas Code Annotated § 19-11-105,	Contractor(s) shall certify with OSP	that they do not employ
or contract with illegal immigrants.		

By signing below, the Contractor agrees and certifies that they do not employ illegal immigrants and will not employ illegal immigrants during the remaining aggregate term of the contract.

Bid Number/Contract Number	H-20-238R
AASIS Number	N/A
Description	Cab & Chassis
Contractor name	
Contractor Signature:	Date:
Signature must be hand written, in ink	

CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM

and e to complete an or the	ne following i	ntormation	may result in a delay in obtaining a	contract, l	iease, purchase a	greement, or grant award with any Arkansas State Agency.	
SUBCONTRACTOR: Yes D No	SUBCONTRACT	TOR NAME:					
□ res □ No			IS THIS FOR:				
TAXPAYER ID NAME:			☐ Goods? ☐	Services?	☐ Both?		
OUR LAST NAME:			FIRST NAME:			M.L:	
ADDRESS:							
ITY:			STATE:		ZIP CODE:	COUNTY:	
			CY, THE FOLLOWING INFO			ONTRACT, LEASE, PURCHASE AGREEMENT, OR GRA BE DISCLOSED:	NI AWARD
				FOR II	NDIVIDU	ALS*	
	•		er, sister, parent, or child of you o	r your spo	use is a current	or former: member of the General Assembly, Constitutional Officer,	State Board or
Commission Member, or Position Held	· · ·		Name of Position of Job Held	eld For How Long?		What is the person(s) name and how are they related to you (i.e., Jane Q. Public, spouse, John Q. Public, Jr., child, etc.)	u?
Position Held	Current	Former	(senator, representative, name of board/ commission, data entry, etc.)	From MM/YY	To MM/YY	Person's Name(s)	Relation
General Assembly							
Constitutional Officer							
State Board or							
Commission Member							
Commission Member State Employee							
State Employee	applies			1			
State Employee	applies		<u> </u>				
State Employee	applies						
	applies		FOR	AN EI	NTITY (BU	JSINESS)*	

Position Held	Mark (✔)		Name of Position of Job Held	For How Long?		What is the person(s) name and what is his/her % of ownership interest and/or what is his/her position of control?		
	Current	Former	(senator, representative, name of board/ commission, data entry, etc.)	From MM/YY	To MM/YY	Person's Name(s)	Ownership Interest (%)	Position of Control
General Assembly								
Constitutional Officer								
State Board or								
Commission Member								
State Employee								

[☐] None of the above applies

Contract and Grant Disclosure and Certification Form

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the agency.

As an additional condition of obtaining, extending, amending, or renewing a contract with a state agency I agree as follows:

- 1. Prior to entering into any agreement with any subcontractor, prior or subsequent to the contract date, I will require the subcontractor to complete a **CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM**. Subcontractor shall mean any person or entity with whom I enter an agreement whereby I assign or otherwise delegate to the person or entity, for consideration, all, or any part, of the performance required of me under the terms of my contract with the state agency.
- 2. I will include the following language as a part of any agreement with a subcontractor:

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this subcontract. The party who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the contractor.

3. No later than ten (10) days after entering into any agreement with a subcontractor, whether prior or subsequent to the contract date, I will mail a copy of the CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM completed by the subcontractor and a statement containing the dollar amount of the subcontract to the state agency.

Signature		Title		Date
Vendor Contact I	Person	Title		Phone No.
Agency Use Only				
Agency Number	Agency Name	Agency Contact Person	Contact Phone No.	Contract or Grant No.

ARKANSAS DEPARTMENT OF TRANSPORTATION SPECIFICATION 19-091-067

FOR

TRUCK MOUNTED AERIAL LIFT AND CRANE WITH HYDRAULIC DIGGER ATTACHMENT AND WELDER/GENERATOR

A. General Conditions:

- 1. <u>Current Model</u>: Units furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, built for the U.S. market, and shall be of quality workmanship and material. Machines manufactured for foreign markets will not be accepted. All equipment offered under this specification shall be new. Used, reconditioned, shopworn, demonstrator, prototype or discontinued models are not acceptable. Manufacturers of the units supplied must have been in the business of producing operational units for at least two years and must have recently sold similar units to domestic governmental agencies. The model furnished must have been in production for a minimum of one year, or be the latest version of a previous model. Bidder/s may be required to submit documentation substantiating the aforementioned requirements. A list of user references may also be required.
- 2. <u>Literature</u>: Manufacturers literature, verifying adherence of proposed unit to each line item addressed in this specification, shall be submitted with the bid. If any literature and/or specifications of items conflict with ARDOT specifications, the conflict(s) shall be specifically noted, corrected and submitted with the bid.
- 3. Any deviations from specifications and requirements herein must be clearly pointed out by bidder. Otherwise it will be considered that equipment offered is in strict compliance with these specifications and requirements, and successful bidder will be held responsible therefor. Deviations must be explained in detail on an attached sheet. However, no implication is made by the Arkansas Department of Transportation that deviations will be acceptable.
- 4. <u>Delivery Requirements</u>: It will be the responsibility of the Successful Bidder to guarantee delivery of the cab & chassis as specified, including items or equipment installed by a third party contractor, within the quoted time. The Arkansas Department of Transportation will not accept delivery of decked cab & chassis.
- 5. <u>Training</u>: The successful bidder shall furnish qualified personnel to instruct ARDOT operators and service technicians on operation and maintenance of machine.
- 6. Shall be assembled, adjusted and made ready for continuous operation at time of delivery.
- 7. All parts, accessories and tools necessary for satisfactory operation of this unit shall be furnished whether or not they are specifically mentioned in this specification (including standard equipment as regularly furnished by manufacturer as shown on printed literature and specifications unless specifically excluded by this specification).
- 8. <u>Parts Inventory & Service Facilities</u>: The successful bidder shall maintain a representative inventory of replacement parts and service facilities for servicing equipment bid on.
- 9. <u>Demonstration</u>: The Arkansas Department of Transportation reserves the right to require a demonstration, under actual working conditions, of equipment bid under this specification before award is made. The demonstration would be performed (free of any charge) by the bidder or an authorized representative at a mutually acceptable location. If requested, the bidder should be prepared to demonstrate the equipment within thirty (30) days after notification. Failure of the bidder to perform a satisfactory demonstration within the specified time may be grounds for rejection of the bid.
- 10. <u>Cooperative Purchasing</u>: Other tax-supported entities* in Arkansas (cities, counties, state agencies, school districts, etc.) may purchase from this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at the discretion of each vendor in each case. Prices could be reduced by a vendor for minor alterations in conditions (changing order quantities, deleting options, etc.) as agreed by both parties, but could not be raised above the contract bid price except for any additional freight charges. Vendors would not be required to sell to any such entity under this contract, and those entities would not be obligated to purchase from the contract.

Each entity wishing to purchase from the contract must make contact directly with the appropriate vendor(s). The Highway Department shall remain "out of the loop" for such transactions: all contact, orders, invoices, payments, etc. regarding such transactions must take place exclusively between the tax-supported entity and the vendor. The Department shall be held harmless of any and all liability arising from such transactions.

Spec. 18-091-067

B. <u>Unit Specifications</u>:

1. <u>General</u>: This specification is intended to cover an aerial lift and crane unit with hydraulic digger attachment, PTO driven rotary screw air compressor and a diesel engine driven welder/generator unit, all completely mounted on a tandem axle cab and chassis and ready for operation. Aerial lift, accessory equipment, and Cab and Chassis shall meet the following minimum specifications.

2. Aerial Lift And Crane:

- a. <u>Type</u>: Hydraulic Truck Crane with telescoping boom, work platform and hydraulic digger attachment installed on truck chassis with the pedestal being mounted just aft of the cab. Shall be approved and recommended by manufacturer for installation on 56,000 pound GVWR tandem axle truck with a minimum CA of 168".
- b. <u>Height</u>: The unit provided shall have sufficient pedestal height to allow rotation over the front of the truck at a boom angle of no less than 10° below horizontal without contacting the cab of the truck. Overall travel height shall not exceed 13' 6".
- c. <u>Boom</u>: Shall have a minimum of three (3) sections and telescope hydraulically under full load regardless of boom angle. Total elevation range of boom shall be from no less than 20° below horizontal to no less than 80° above horizontal. Shall provide a maximum sheave height from ground of no less than 59' 6". Maximum reach from center line of rotation at 0° boom angle without work platform shall be no less than 49' 6". Maximum digging radius with hydraulic digger attachment shall be no less than 33'.
- d. Rotation: 360 degrees continuous.
- e. <u>Lifting Capacity</u>: Minimum specified lifting capacities are for a machine without the work platform or hydraulic digger attachment. Shall have the following capacities based on not more than 85% of tipping capacity with load over outrigger or to rear of truck and with boom retracted: no less than 5,000 pounds at 0° boom angle, no less than 7,100 pounds at 37° boom angle, no less than 9,500 pounds at 55° boom angle and no less than 25,000 pounds at 80° boom angle. Lifting capacity at maximum reach at 0° boom angle shall be no less than 1,400 pounds.
- f. Winch: Winch shall be mounted at the base of the boom. Shall be hydraulically driven with a minimum bare drum pull rating of 12,000 pounds and be equipped with a minimum of 250' of no less than 9/16' diameter 6 x 37 improved plow steel IWRC wire rope. Downhaul weight and hook shall be furnished with crane.
- g. Work Platform: Hydraulically rotating platform no less than 30" x 54" x 40". Platform to be all steel construction, or aluminum base with tubular steel side rails and an accessible entryway. Shall be mounted on an inverted "A" subframe with hydraulic self-leveling system. Platform shall rotate hydraulically 90° either direction of centerline of boom. The platform leveling system shall have remote releveling controls provided at the platform and at the ground controls. The rated capacity of the platform shall be no less than 500 pounds in any boom position. Air and 110 volt AC electric lines to the work platform shall be provided.
- h. Radio Remote Controls: Unit shall be equipped with one (1) complete set of radio remote controls, including one (1) spare radio control transmitter. Radio remote transmitters shall control boom operation, winch operation, platform rotation, engine start/stop and throttle controls.
- i. Lower Controls: In addition to radio remote controls, there shall be two (2) sets of lower controls at the turret base accessible from ground level one (1) set mounted streetside and one (1) set mounted curbside. The lower control stations shall have the capability at any time to over-riding the radio remote controls, if necessary. The lower control stations shall also include controls for operation of the winch, auger, auger storage functions, remote leveling controls and rotation controls. All controls are to be proportional flow control, two-way, return to neutral, lever type. All controls are to be labeled as to their function.
- j. <u>Hydraulic System</u>: Shall have boom tilt cylinders, cylinder for telescoping boom, leveling cylinders, hydraulic motor for winch, outrigger cylinders and hydraulically actuated boom rotation. All cylinders shall be double acting. Hydraulic system shall have bypass valve to prevent overloading and shall have safety device whereby load will remain suspended in case of power or pressure failure.
 - (1) <u>Tool Circuit</u>: Shall have an open center type hydraulic tool circuit with outlets at the right (curbside) rear corner of truck bed for operation of hydraulic drills, sign post drivers, etc. Outlets shall be equipped with quick couplers. Circuit shall supply 10 12 gpm at 1,800 2,000 psi.
 - (2) <u>Auger Circuit</u>: Shall be equipped with hydraulic lines to end of the second stage boom for operating a hydraulic driven auger attachment. Shall be complete with all necessary hoses, valves and controls for operation of auger.

Spec. 18-091-067

- Quick couplers shall be provided at boom tip for the auger attachment hydraulic lines. Hydraulic pump shall have capacity to supply a minimum of 40 GPM to boom tip for operating auger.
- (3) <u>Reservoir:</u> Shall be of sufficient size to keep hydraulic oil at a safe temperature while using auger and any other functions of the hydraulic system.
- k. <u>Hydraulic Pump</u>: Pump shall be dual section type with one section providing a minimum of 15 GPM and one section providing a minimum of 25 GPM to operate all functions of the aerial lift including the hydraulic tool circuits and auger circuit specified above. It is preferred that the hydraulic pump furnished be designed for direct mounting to the PTO. If space limitations require the use of a drive shaft, the shaft length shall be as short as possible.
- 1. Power Take-Off: Shall be "hot shift", multi-gear type mounted on truck transmission (Allison 4500 RDS).
- m. <u>Emergency Lowering</u>: Unit shall be equipped with a 12 volt DC emergency lowering system. Switches shall be provided at the lower control stations.
- n. <u>Outriggers</u>: Shall have front and rear hydraulically powered outriggers equipped with pivoting pads. A throttle control or high idle switch shall be provided at the outrigger controls.
 - (1) Front Outriggers: Individually controlled "A" type.
 - (2) Rear Outriggers: "Modified A" type with individual or common controls, mounted behind rear wheels on truck chassis.
 - (3) If the manufacturer recommends the use of additional outriggers or stabilizers mounted at the front bumper, they shall also be furnished.
- o. Color: Aerial lift and crane unit shall be painted Sherwin Williams F8W2030 Frost White Acrylic Enamel, or equal.
- 3. <u>Hydraulic Digger Attachment</u>: The digger drive shall consist of a two-speed hydraulic motor directly coupled to a planetary gear box. The gear box shall be rated for a minimum of 14,000 ft.-lbs. output torque.
 - a. <u>Auger Drive</u>: Shall be 2-1/2" hex drive. A 2-1/2" hex drive extension shaft no less than 48" in length shall also be provided.
 - b. Auger: One (1) 24" diameter rock tooth auger shall be furnished.
 - c. <u>Auger Storage</u>: The auger assembly shall be stored on the curb side of main boom section with a hydraulically latching mechanism. The operator shall be able to unlatch, lower, telescope and operate the auger and two-speed shift from the controls without attaching hoses, removing pins, clamps or straps of any kind. The operator shall also be able to re-store the auger assembly from the control station hydraulically. The auger storage holster shall be equipped with a valve to stop the auger to prevent damage when the auger reaches the stowed position.
 - d. <u>Digging Range</u>: The digger, when lowered from the storage bracket, shall automatically lock onto and telescope with the second stage section of the boom. Digging radius shall range from a minimum of not more than 24' from centerline of rotation with boom retracted to a maximum of no less than 33' from centerline of rotation with the second stage of the boom extended.
- 4. <u>PTO Driven Air Compressor</u>: A PTO driven air compressor with a minimum output rating of 70 cfm shall be provided. Unit shall be completely installed and ready for operation. The air compressor and all necessary incidentals shall be mounted below the truck bed.
 - a. <u>Compressor</u>: Positive displacement, single stage, oil flooded rotary screw type with a minimum capacity of 70 cubic feet of free air per minute at no less than 100 psi.
 - (1) <u>Input Speed</u>: The air compressor furnished shall produce 70 cfm at a maximum input speed from the PTO of 1,500 RPM.
 - (2) Power Take-Off: Compressor shall be driven by means of a "hot shift" type power take-off mounted on the truck transmission. (This is in addition to the PTO specified in Paragraph 2L and is to be mounted at the second location available on the Allison 4500 RDS transmission.) PTO furnished shall operate at no less than 123% or more than 126% of engine speed allowing compressor to provide specified air delivery at same engine speed required to operate the aerial lift functions (approximately 1,200 RPM engine speed). (If an alternate PTO speed
 - is required to accomplish the target input speed, or if an alternate PTO drive location is required, it must be approved by ARDOT prior to delivery.)
 - b. Air Intake Filters: Separate two-stage, heavy duty, dry type air filters shall be provided for the air compressor.

Spec. 18-091-067

- c. <u>Air Receiver</u>: Shall be ASME approved for no less than 200 psi working pressure and be of adequate capacity for use with 70 cfm minimum compressor. Receiver shall have an ASME approved pressure relief valve and be equipped with a fill cap, an oil level sight gauge, no less than 3/4" service valve, a 25 micron minimum spin-on air compressor oil filter with safety by-pass feature and an air/oil separator. Air receiver shall be designed for under deck remote mounting and be mounted in a location which will allow the oil level sight gauge to be inspected without crawling beneath the truck.
- d. <u>Heat Exchanger</u>: Compressor cooling system shall allow rated air delivery and pressure operation continuously in ambient temperatures up to no less than 125° F. Cooler shall be mounted in a sheet metal enclosure with a suction type fan assembly. A fan temperature switch shall be provided to regulate compressor cooling.
- e. <u>Protective Circuit</u>: Compressor shall automatically shut down in case of high compressor temperature or over pressurization. An automatic blow down valve and minimum pressure orifice shall also be provided.
- f. <u>Control Panel</u>: Shall be mounted in an accessible location and be equipped with a compressor hour meter, air pressure gauge, compressor oil temperature gauge and over-temperature/over-pressure reset switch.
- g. Inlet Control Valve: Shall automatically modulate output from 0 to 100% in response to air demand.
- h. <u>Speed Control</u>: Shall be designed to suit engine make/type/model and fuel delivery system. Electronically controlled engine speed controls shall emulate chassis manufacturer foot throttle position and allow modulation of engine speed to match air demand; however, the unit shall also operate in conjunction with and at the engine speeds required by the aerial lift functions to provide smooth operation.
- i. <u>Drive Line</u>: Minimum 2-1/2" Dana 1310 series, or equal, driveline with universal joint, yoke and companion flange.
- j. <u>Air Line</u>: A 3/4" air line shall be routed from the air receiver to the right (curbside) rear corner of the truck bed and terminate with a 3/4" NPT ball type valve. An additional air line shall be routed from the air receiver up the boom and terminate at the work platform with a 3/4" NPT ball type valve. This air line shall be capable of providing no less than 40 CFM at the work platform.
- 5. Welder/Generator: A diesel engine driven AC/DC arc welder and generator unit shall be furnished and mounted on the truck bed in the general area of the turret. Unit provided shall be equivalent to a Miller Bobcat 250 Diesel and meet the following requirements as a minimum.
 - a. <u>Engine</u>: Liquid cooled diesel, with no less than three (3) cylinders, developing a minimum of 19 horsepower at rated RPM. Shall have 12 volt electrical system and include starter, alternator and battery. Shall be equipped with electric hourmeter, automatic idle device, dry type air cleaner, oil filter, low oil pressure/high water temperature shutdown, fuel tank and muffler. Fuel for the welder/generator unit shall come from the truck fuel tank.
 - b. Welder/Generator: Shall have a current output rating, at 100% duty cycle, of no less than 250 amps AC and no less than 225 amps DC. Shall have AC amperage range of not more than 50 amps at minimum setting to not less than 250 amps at maximum setting. Shall have DC amperage range of not more than 50 amps at minimum setting to not less than 225 amps at maximum setting. Shall have 120/240 volt, single phase, 60 cycle AC power supply of no less than 9,000 watts when used as a generator. Shall also have power output, while welding, of no less than 3,500 watts at welding output loads of up to 140 amps. Shall be enclosed in a weatherproof cabinet.
 - c. Welding Accessories: A minimum of 50' of No. 1 ground cable, a minimum of 50' of No. 1 electrode cable, one (1) 200 amp electrode holder for 5/32 rod and one (1) 200 amp ground clamp shall be provided. Ground cable and electrode cable shall be complete with terminals. Ground cable and electrode cable shall be mounted on selfretracting spools.
- 6. <u>Electric Line to Work Platform</u>: A 110 volt AC electric line shall be routed from the base of the turret up the boom and terminate at the work platform with a 110 volt weatherproof duplex receptacle. AC power will be provided by the welder/generator unit specified above.

7. <u>Bed</u>:

- a. <u>Construction</u>: Shall be steel construction no less than 96" wide and 240" long. Bed length to be measured from rear of crane mounting base. Shall have 3/16" safety tread floor treated with a non-skid material. Shall have two (2) access steps, mud flaps (without advertising), clearance lights, reflectors, stake pockets along each side of bed, rear bumper meeting D.O.T. specifications and a boom rack for securing boom while transporting.
- b. <u>Color</u>: Shall be painted one of the following colors:
 - (1) Sherwin-Williams No. F1B 4009 Gloss Black Enamel, or equal.
 - (2) Sherwin Williams F8W2030 Frost White Acrylic Enamel, or equal.

Spec. 18-091-067

8. Cab & Chassis:

a. GVWR: No less than 58,000 pounds.

b. Wheelbase: 230", minimum.c. Cab to Axle: 168", minimum.

- d. <u>Tires and Wheels</u>: Ten (10) 315/80R22.5 steel belted tubeless radials load range "L" minimum. Shall be mounted on 22.5" diameter tubeless type, hub piloted steel disc with 220 mm center hole, 285.75 mm ten (10) hole bolt circle diameter and not less than 9" rim section. All tires must have speed restriction that exceeds 65 MPH.
- e. <u>Spare Wheel and Tire</u>: One (1) 315/80R22.5 steel belted tubeless radial load range "L" minimum. Shall be mounted on 22.5" diameter tubeless type, hub piloted steel disc with 220 mm center hole, 285.75 mm ten (10) hole bolt circle diameter and not less than 9" rim section.
- f. Engine: Liquid cooled 4 cycle diesel with a minimum piston displacement of 12.4 liters. Shall have an advertised rating of no less than 350 SAE gross horsepower and a minimum of 1,350 lb. ft. SAE gross torque. Governed speed shall be no less than 2,000 RPM. Shall have full flow oil filter(s), fuel filters, dry type air cleaner, 12 volt electrical equipment with no less than 160 amp alternator and maintenance free batteries as regularly furnished with engine specified.
 - (1) Exhaust System: Horizontal exhaust. The exhaust shall provide clearance for installation of a PTO at each of the two (2) PTO positions available on an Allison 4500 RDS automatic transmission.
 - (2) <u>Engine Brake</u>: Jacobs engine brake, or equal. Designed to use engine compression to retard engine speed. Shall be capable of utilizing all engine cylinders for braking effect.
 - (3) <u>Engine Shutdown</u>: Engine safety shutdown system with manual or automatic override to include the following features: low oil pressure warning bell/buzzer plus shutdown, high coolant temperature warning bell/buzzer plus shutdown and low coolant level warning bell/buzzer plus light or shutdown.
 - (4) <u>Cooling System</u>: As recommended and regularly furnished by the manufacturer for use with the engine size specified above, and in prime mover for hydraulic crane, with anti-freeze protection to –20° F, or lower.
 - (5) <u>Block Heater</u>: Engine shall be equipped with a block heater rated at no less than 1,000 watts which will operate on 120 volts AC.
- g. <u>Transmission</u>: Allison 4500 RDS automatic with six speed programming and PTO provision. Transmission shall have synthetic lubricant and be equipped with transmission oil cooler.
- h. <u>Steering</u>: Hydraulic actuated power steering as regularly offered by manufacturer.
- i. Front Axle: I Beam Type with wet seals, outboard mounted drums and a minimum capacity of 18,000 pounds.
- j. Front Suspension: As required to meet axle capacity specified above.
- 9. <u>Rear Axle and Suspension</u>: Tandem with power divider, inter-axle differential lock out control and equalizing beam type suspension. Shall be full floating with wet seals, outboard mounted drums and have a minimum capacity of 40,000 pounds. Ratio provided shall achieve a maximum theoretical electronic governed speed of no less than 69 MPH and still provide acceptable startability and gradeability under loaded conditions for on/off highway applications.
 - a. <u>Air System</u>: Air compressor shall have a minimum capacity of 15 cfm and draw air through the engine air cleaner. Air system shall be equipped with a heated air dryer.
 - b. <u>Brakes</u>: Factory installed full air operated two shoe type with automatic slack adjusters and dust shields on front and rear. Rear brakes shall have spring set parking brakes.
 - c. <u>Frame</u>: Section modulus and yield strength of frame material shall provide a minimum RBM of 2,500,000. If the aerial lift manufacturer requires a stronger frame or additional frame reinforcement, it shall be provided. It shall be the responsibility of the successful bidder to insure that any additional frame requirements which may be needed for proper installation of the aerial lift are provided (i.e. after frame length, longer wheelbase, front frame extension, frame reinforcement, clean CA or clear frame rails).
 - d. <u>Cab</u>: Conventional cab as regularly furnished by manufacturer, complete with insulation and all interior trim. Cab glass shall include windshield, roll-up windows in doors and rear cab glass as a minimum. Shall have key type lock on right and left doors, factory installed fresh air heater-defroster unit, grab handle on each side, right and left sun shades and fitted rubber floor mats.

Spec. 18-091-067

- (1) <u>Cab Mounts</u>: Air suspension type rear cab mounts.
- (2) <u>Instruments</u>: Shall include the following as a minimum:
 - (a) Speedometer/odometer
 - (b) Electric tachometer
 - (c) Electric engine hour meter
 - (d) Ammeter or volt meter
 - (e) Oil pressure gauge
 - (f) Coolant temperature gauge
 - (g) Transmission oil temperature gauge or warning light
 - (h) Air brake pressure gauge
- (3) <u>Cruise Control</u>: Factory installed electronic cruise control.
- (4) Tilt Steering Column: Factory installed.
- (5) Air Conditioning: Factory installed air conditioning. Shall include tinted glass all around.
- (6) Windshield Wipers: Dual electric intermittent windshield wipers with washers.
- (7) <u>Auxiliary Switches</u>: Shall be equipped with a minimum of six (6) rocker switches mounted in the instrument panel for use by bodybuilder or end user to supply power to work lights, warning lights and other auxiliary electrical devices.
- (8) <u>Seats</u>: Air suspension driver's seat and non-suspension passenger's seat. Shall include driver and passenger side seat belts.
- (9) Radio: Factory installed electronic AM/FM radio.
- (10) <u>Heated Mirrors</u>: Dual Heated West Coast Sr. type mirrors no less than 7" x 16" with adjustable brackets and auxiliary convex mirrors.
- (11) Air Horn: Single or dual-trumpet air horn.
- e. <u>Hood</u>: Tilting fiberglass hood and fenders.
- f.<u>Lights</u>: Shall be equipped with dual beam headlights, parking lights, clearance lights, automatic backup lights, directional turn signals with column mounted switch and hazard flasher switch. Rear signals to be wired for stop and tail lights in addition to directional signals.
- g. <u>Backup Alarm</u>: Shall be equipped with an electric backup alarm meeting the requirements of SAE J994 with a minimum sound level output of 97 decibels.
- h. <u>Fuel Tank</u>: Single fuel tank with instrument panel fuel gauge. Minimum fuel capacity of 80 gallons. (100 gallons preferable)
- i. <u>Color</u>: Cab, Hood, Fenders & Wheels shall be Sherwin Williams F8W2030 Frost White Acrylic Enamel, or equal. Grill, bumper and mirrors shall be as regularly furnished by manufacturer.

10. Complete Unit:

a. Warranty:

- (1) Cab and chassis shall have truck manufacturer's regular warranty. Warranty data shall be furnished with each unit.
- (2) The aerial lift, digger attachment, PTO driven air compressor, welder/generator, and other incidental equipment purchased under this specification shall be warranted against defective material and workmanship for a minimum period of twelve (12) months (365 Days) from date unit is placed in operation by ARDOT.
 - (a) Warranty shall include all parts, labor and transportation costs to the location of equipment.
 - (b) If equipment cannot be repaired on location, warranty shall include cost of transport to the facility where the repair work will be done.

Spec. 18-091-067

- (c) It will be the responsibility of the successful bidder to insure that repairs are completed in a timely manner.
- (3) If any warranty literature submitted with the bid conflicts with ARDOT warranty requirements, the conflict(s) shall be specifically noted, corrected and included with the bid or the conflict(s) will be considered an exception to warranty specifications and the bid rejected.
- (4) Recent prior failure to provide warranty-work, parts, replacement parts or service, in a timely manner, for equipment from the same manufacturer or dealer shall be grounds for the rejection of any submitted bid, or for the denial of any otherwise qualified low bidder, whether such failure is attributable to the manufacturer or the dealer of the equipment. For the purposes of this paragraph "timely manner" means a period of time not exceeding thirty (30) calendar days to provide requested warranty-work, parts, replacement parts, or service. For the purposes of this paragraph "manufacturer" means the original manufacturer of the equipment and its successor or successors, regardless of number, and whether acquired by sale, merger, or otherwise. For the purposes of this paragraph "replacement part" means a part redesigned by a manufacturer to correct a design or engineering defect and which replacement part is capable of providing dependable performance in normal operation conditions for its normal service life without failure. Such bid or bids may be rejected by the Department until such failure or failures have been remedied to the satisfaction of the Department and until such manufacturer or dealer is providing such warranty-work, parts, replacement parts, and service in a timely manner.

b. Manuals, Certificate of Origin and Invoice:

- (1) The successful bidder shall furnish one (1) copy each of Operator's Instruction Manual, Shop Repair Manual and Parts Book for aerial lift and accessories, and one (1) copy each of Shop Repair Manual and Parts Book for truck with each unit delivered including Warranty Data and Operator's Manual for truck. The Warranty Data shall contain all necessary information such as motor and/or serial numbers and shall be signed by the selling dealer at the time vehicle is delivered to the Highway Department.
 - The successful bidder may provide Shop Repair Manuals and Parts Manuals on computer media (CD, DVD, USB Drive, etc.) in lieu of printed manuals.
- (2) Certificate of Origin, Federal Excise Tax Exemption Certificate, Odometer Disclosure Statement and Five (5) copies of the Invoice to be furnished to Equipment & Procurement Division, P.O. Box 2261, Little Rock, AR 72203 (11302 W. Baseline Road, Little Rock, AR 72209, if shipping UPS, FedEx, etc.).