



153 North 100 East
Lehi, Utah 84043
(801) 768-7100
www.lehi-ut-gov

January 31, 2011

INVITATION TO BID

Lehi City is soliciting bids for **37-38 foot Articulating Telescoping Aerial Device with Utility Line Body & Chassis**. All bids will be reviewed to determine that the functional requirements of the Lehi Power Department are met. Lehi City shall be the sole judge as to which bid it shall accept. Bid amount is subject to review and approval.

Sealed bids are to be submitted no later than 3:00 p.m. on February 23, 2011, to Lehi City, c/o Alyson Alger, 153 N. 100 E., Lehi, UT 84043. Bids received after the deadline stated above, shall not be considered and will be returned to the bidder unopened. Sealed bids will be opened immediately following the bid closing time. Additional information is [attached](#) or contact Jeremy Estes at 801 768-4833 x 2719.

INVITATION FOR BID

This is a formal solicitation of sealed bids which will be publicly opened and read aloud. All bids will be reviewed to determine that the functional requirements of the Lehi Power Department are met. Lehi City shall be the sole judge as to which bid it shall accept, if any. Bid amount is subject to review and approval.

Project Title: 37-38 Foot Articulating Telescoping Aerial Device with Utility Line Body & Chassis

REQUIREMENTS: Bids are to be submitted no later than February 23, 2011 by 3:00 P.M. Mountain Standard Time, to Lehi City, c/o Alyson Alger, 153 N 100 E, Lehi, Utah 84043. Bids received after the deadline, stated above, shall not be considered and will be returned to the bidder unopened. Sealed Bids will be opened immediately following bid closing time. (3:00 PM MST)

Bids must remain valid for a minimum of Sixty (60) days.

Bid must be submitted in a sealed envelope with the project title, company name, and address clearly marked on the face of the envelope. Price is only one consideration, delivery time, quality, value, service, conformance to specifications; representation, etc. are some factors that will be considered should the bid be awarded.

THE RIGHT IS RESERVED TO REJECT ALL BIDS, TO WAIVE ANY INFORMALITY OR TECHNICALITY OR TO ACCEPT THE BID DEEMED IN THE BEST INTEREST OF THE LEHI CITY POWER DEPARTMENT.

THE REFERENCE TO BRAND NAMES AND MODEL NUMBERS ARE INTENDED TO DESCRIBE THE DESIRED LEVEL OF PERFORMANCE, CAPABILITY AND FUNCTIONALITY REQUIRED TO PERFORM EMS FUNCTIONS FOR LEHI CITY. IT IS NOT LEHI CITY'S INTENT TO ELIMINATE ANY POTENTIAL BIDDER. BIDDERS ARE INVITED TO BID ALTERNATE BRANDS AND MODELS WHICH PROVIDE THE SAME CAPABILITIES, FUNCTIONALITIES AND LEVELS OF PERFORMANCE.

These specifications are intended to be descriptive and not restrictive.

For further information contact Rod Olsen 801-830-8936, Jeremy Estes (Fleet Manager) 801-836-1044 or Alyson Alger, 801-768-7100 during normal business hours.

Lehi CITY POWER DEPARTMENT
SPECIFICATIONS FOR A 37-38 FOOT ARTICULATING
TELESCOPING AERIAL DEVICE WITH UTILITY
LINE BODY AND CHASSIS

Must be filled out completely for bid to be valid.

NOTICE TO BIDDERS: Any bidder who willfully falsifies responses indicating compliance or non-compliance with the minimum requirements listed below will be subject to suspension and/or debarment from bidding.

The aerial device specified here in is intended for Power Department usage. All components must have minimum protection against severe usage, and exposure to dust and water. In addition to the minimum specifications listed below, the aerial device must include all items and advertised or offered as standard equipment by the manufacture.

It is the intent of these specifications to describe an aerial device in sufficient detail to assure that product reliability, design integrity, technical soundness and performance. The aerial device shall be new and of latest production model year. All parts not specifically mentioned, which are necessary to provide a complete aerial device, shall be included in the bid and shall conform in strength and quality of material and workmanship to what is normally provided to the trade in general. Aerial device must include all necessary plumbing, wiring, etc to make unit completely operational. The unit shall be delivered completely assembled, serviced and ready to operate upon delivery to Lehi City. **Manuals and filters are to be delivered with aerial device.**

All bids are to be turned in on a copy of this form. The bidder shall indicate his compliance by checking the **AYes@** for compliance or **ANo@** for non-compliance for each line item specification. Any space left blank shall be considered non-compliance. Any **ANo@** answers or deviations from the specification must be explained in full on a separate sheet of paper numbered to correspond with the number of the item and must fully explain and substantiate why it is equal or better in design, performance, operation, etc. **No deviation below Aminimum@ specifications will be accepted.**

The bidder shall indicate an appropriate response in every space in the respondents section. This may be a "YES", indicating complete compliance with the specification, or a detailed description of any and all deviations.

The intent of this specification is to be descriptive not restrictive.

SCOPE: This specification is to set forth the specific requirements for a 40 foot to bottom of platform, hydraulic operated, aerial device with a single end mounted platform and with a line body mounted on an appropriate chassis/cab. These insulated aerial device requirements shall also include an insulated lower boom, and an insulated upper boom.

This aerial device shall be to the manufacturer's standard. It shall be equipped with the manufacturer's equipment and accessories which are included as standard in the advertised and published literature for the unit. No such item of equipment or accessories shall be removed or omitted for any reason that is not specified in the bid.

The aerial device must meet all Federal and State safety standards in effect at the time of delivery to Lehi City Corporation.

Make _____

Model _____

GENERAL SPECIFICATIONS

COMPLY
YES NO

- | | | | |
|----|---|-------|-------|
| 1. | <u>37 Foot Articulating Telescoping Aerial Device</u>
With an insulated lower boom, insulated upper boom and a dielectrically tested insulated control handle, for installation behind chassis cab, built in accordance to standard specifications on an approx. chassis frame height of 34" and to include the following features: | _____ | _____ |
| A. | <u>Ground to Bottom of Platform Height:</u>
Minimum of 37-38'
Bottom of platform height must be reached without spacers or risers added to 47" pedestal. | _____ | _____ |
| B. | <u>Working Height: Minimum of 32-33'</u> | _____ | _____ |
| C. | <u>Maximum Reach to Edge of Platform with Upper Boom Non-over center & Lower Boom at 78 degrees:</u>
Minimum of 26.6 feet. | _____ | _____ |
| D. | <u>Lower Boom:</u> Constructed of high strength, rectangular steel tube with a rectangular bi-axial filament wound, high strength fiberglass insert providing an insulation gap of 12 inches. | _____ | _____ |
| E. | <u>Lower Controls:</u> Individual control levers are located in an accessible location on the turntable. The lower controls activate lower lift, main boom lift, boom extension, rotation and leveling. An upper/lower control selector provides override of platform controls. | _____ | _____ |

		<u>COMPLY</u>	
		<u>YES</u>	<u>NO</u>
F.	<u>Lower Boom Articulation & Rest:</u> The lower boom articulation Envelope is from -5 to 78 degrees. The lower boom is supported when stored by a padded boom rest. Lower boom rest to be mounted in a way that does not interfere with lower boom rotation at lower booms lowest point.	_____	_____
G.	<u>Lower Boom Cylinder:</u> Single threaded end gland design, double acting hydraulic lift cylinder equipped w/ integral holding valve.	_____	_____
H.	<u>Upper Boom:</u> Aerial device upper boom is constructed of high strength steel with a rectangular bi-axial epoxy resin filament wound, high strength fiberglass insert. Inner boom is rectangular bi-axial epoxy resin filament wound fiberglass. The upper boom has a total insulation gap of 40" retracted and 51" extended.	_____	_____
I.	<u>Upper Boom Articulation:</u> The aerial device upper boom has an articulation of -14 to 80 degrees.	_____	_____
J.	<u>Upper Boom Cylinder:</u> A single double acting hydraulic lift cylinder equipped with integral holding valve.	_____	_____
K.	<u>Fiberglass Inner Boom:</u> The fiberglass inner boom shall ride on rollers to minimize the potential for "tracking" on the insulated inner boom.	_____	_____
L.	<u>Extension Cylinder:</u> The cylinder is equipped with integral holding valves to prevent creep and hold the boom position in the event of hose failure.	_____	_____
M.	<u>ANSI Rating:</u> Aerial device is designed as a Category C machine in accordance with ANSI A92.2. Aerial device is dielectrically tested and certified for operation up to 46,000 working line voltage per ANSI A92.2.	_____	_____
N.	<u>Pedestal & Turntable:</u> The pedestal is of welded high strength steel construction and designed with access holes for maintenance of hydraulic plumbing. The pedestal top plate and turntable base plate are machined from a single piece of thick plate.	_____	_____
	<u>To include a 47" Pedestal with 20 gallon integral tank:</u>	_____	_____
O.	<u>Continuous & Unrestricted Rotation:</u> A 3-port rotary manifold provides a rotating oil distribution system for continuous and unrestricted rotation. One 3/8 hydraulic port is available for options. A four (4) channel electric collector ring is provided. Self locking worm gear rotation drive is provided and equipped with bi-directional motor. A 7/8 in. hex shaft extension allows for manual rotation.	_____	_____

		<u>COMPLY</u>	
		<u>YES</u>	<u>NO</u>
P.	<u>Rotation Bearing:</u> The rotation bearing is a heavy-duty "shear ball" bearing with external gear teeth utilizing polished alloy steel balls. Both the inner and outer races are made from high-strength alloy steel and are heat treated to provide maximum life. High strength grade 8 bolts attach the inner and outer races to the pedestal and turntable.	_____	_____
Q.	<u>Platform 24" x 30" x 42":</u> One end mounted fiberglass platform with a rated capacity of 350 lbs. Includes one (1) outside access step with slip-resistant surface. A safety harness and lanyard with a built in 'D' ring lanyard attachment is provided.	_____	_____
1.	<u>Platform Upper Controls:</u> Single stick controller (4-function) Non-metallic handle. Dielectrically tested for limited secondary protection between the valve and handle. Enable lever must be actuated before operation. Controls lower boom lift, upper boom lift, boom extension and rotation. A control at the upper controls is provided to tilt the platform for leveling adjustments.	_____	_____
2.	<u>Platform Leveling & Tilt:</u> Leveling is provided by a master/slave cylinder system. A control at the lower controls is provided to tilt the platform for clean out or personnel rescue.	_____	_____
3.	<u>Hydraulic Platform Rotator For End Mount Platform:</u> Allows 180 degrees of forward hydraulic rotation and is controlled at the upper controls. Must maintain a full 350 lb capacity with platform rotator option.	_____	_____
4.	<u>Engine Throttle Control:</u> A two speed engine throttle control is provided at the upper controls. The engine will advance to a pre-set speed when engaged and decrease to idle when disengaged.	_____	_____
5.	<u>Insulated Engine Stop/Start:</u> Controlled from platform	_____	_____
6.	<u>Insulated Platform Liner For 24" x 30" x 42" Platform:</u> Certified at 50 KV AC	_____	_____
7.	<u>Vinyl Platform and Control Cover For 24" x 30" Platform:</u> Waterproof with internal elastic cord around edge and external elastic cord around control cover.	_____	_____
8.	<u>Hydraulic Tool Outlet at Platform:</u> Installed at the platform to accommodate one open center hydraulic tool. Provides 5 GPM at 2250 psi at engine idle.	_____	_____
R.	<u>Hydraulic System:</u> Full pressure, open center hydraulic system. An internal 20-gallon hydraulic oil reservoir provided w/ a 60-mesh filler screen, baffles, 100 mesh suction screen w/ bypass, clean out access hole, sight gauge and shut off valve. A spin on type 10-micron return line filter is provided. A relief is also provided. Hydraulic hoses are equipped w/ permanent type fittings. Hydraulic pump, hose and fittings to connect the hydraulic system from the oil reservoir to the pump and unit. Fill of hydraulic oil and lubricants.	_____	_____

		<u>COMPLY</u>	
		<u>YES</u>	<u>NO</u>
S.	<u>Auxiliary Power:</u> Allows the operation of any function for a time period limited only by battery life.	_____	_____
T.	<u>Tubular Rubber Platform Rest:</u> Provides platform support during road travel.	_____	_____
U.	<u>Power take off:</u> 6-bolt, w/ indicator light for automatic transmission.	_____	_____
1.	<u>Electrical mini-box system.</u>	_____	_____
2.	<u>Integral wiring and switches:</u> To match chassis manufacturer electrical system, switches & accessories.	_____	_____
3.	<u>Set chassis parameters.</u>	_____	_____
V.	<u>Chassis Modifications:</u>		
1.	<u>Chassis Spring Additions:</u> Build up left rear chassis springs to level vehicle.	_____	_____
2.	<u>Level Ride torsion bar stabilizer for rear axle.</u> Stabilizer bar must be installed on top of axel for maximum ground clearance.	_____	_____
3.	<u>Timbren rubber stabilizers installed on axle.</u>	_____	_____
2.	<u>UTILITY LINE BODY (LLB108LP)</u>		
A.	<u>Dimensions:</u> 108" overall length 94" outside width 58" bed width 24" floor to top of body 18" compartment depth 40" compartment height 18" horizontal compartment height	_____	_____
B.	<u>Compartmentation – Street Side:</u> First Vertical (30") – 3 adjustable shelves with 5 adjustable dividers each Horizontal (54") – open Rear Vertical (24") – 5 material hooks (1-3-1)	_____	_____
C.	<u>Compartmentation – Curb Side:</u> First Vertical (30") - 3 adjustable shelves with adjustable dividers each Horizontal (54") – 8 adjustable dividers in compartment bottom Rear Vertical (24") – 3 adjustable shelves with 4 adjustable dividers each	_____	_____
D.	<u>Features:</u> Wheel chock storage (2) in curbside in wheel wells 16-gauge A60 double-sided galvanized coated steel body exterior 18/16-gauge A60 double-sided galvanized coated steel door panels 12-gauge treadplate floor and compartment tops Rotary door latches and full-length stainless steel rod door hinge w/ a minimum of three (3) keys to be provided. Chain stops on doors and includes automotive bulb-type door seals	_____	_____

		<u>COMPLY</u>	
		<u>YES</u>	<u>NO</u>
1.	<u>Rock guard panels on front of body:</u> Body to have stainless steel rock guards installed on forward side of body on both SS & CS of body. Guards to be installed with permanent adhesive to prevent rust. Screws will not be accepted for attachment of panels.	_____	_____
E.	<u>Hot Stick Box:</u> Full length hot stick shelf in top of street side compartments with rear drop door.	_____	_____
F.	<u>Compartment lights:</u> Compartment lights mounted in the top of all body compartments. Lights to be a Grote model# 60421 LED clear or equivalent. Master on/off switch utilized from one of the factory dash switches mounted in cab.	_____	_____
1.	<u>Engine stop/start control from rear of vehicle.</u>	_____	_____
G.	<u>Grab Handles:</u> One (1) 11" Weld on Type and One (1) Pool Type grab handle to be installed at side access of tail shelf.	_____	_____
H.	<u>Ladder Rack:</u> Horizontal ladder rack for an 8' ladder with rubber covered rear roller to be installed on top of streetside compartment. Rack to be installed as low as possible on top of compartment to allow for easy ladder access. Any mounting holes are to be sealed to prevent water from entering body.	_____	_____
I.	<u>9-Lamp LED DOT Lighting Package:</u> Includes LED lights, junction box, wiring harness and mounting light bar. Lights and reflectors in accordance with FMVSS 108.	_____	_____
J.	<u>Rear Bumper</u> Directional light bar to be installed in tail shelf with controls in Cab.	_____	_____
1.	<u>Towing Accessories:</u> 2" receiver tube installed flush at rear of unit. Combination Pintle Hook & 2-5/16" Ball. Safety chain eyes and chassis frame reinforcements. 7-prong (round commercial) style metal trailer plug. To be connected to factory trailer brake controller.	_____	_____
K.	<u>Cone holder bracket, cone shape type:</u> One cone holder bracket to be installed on tail shelf. Locatin TBD at pre paint.	_____	_____
L.	<u>3000 Watt pure sine-wave Dimensions Inverter & Batteries:</u> Inverter and two (2) Gel cell batteries are to be installed in the forward bed area between the pedestal and side pack. To be enclosed in a protective compartment that shields inverter and batteries from the weather and items in bed. Inverter is to have an on/off switch installed in factory dash switch	_____	_____

		<u>COMPLY</u>	
		<u>YES</u>	<u>NO</u>
	panel or in SS compartment. Inverter indicator light to be installed in dash. To have two (2) GFI outlets installed on the CS of body. One at the front & one at the rear. Location of light & outlets TBD at pre-paint.	_____	_____
1.	Storage box for inverter will also include additional storage at the approx. measurements of 75"Lx20"Dx24"H. It should be constructed of a min. of 16 ga. Steel with a weather tight lid.	_____	_____
M.	<u>Warning Lights and Safety Items:</u>		
1.	<u>Wig Wag Lights:</u> Wig Wag style LED high intensity strobe lights. Two amber at rear, two amber front installed in parking light sockets.	_____	_____
2.	<u>Back-up Alarm:</u> Back-up alarm to sound when the vehicle is shifted into reverse.	_____	_____
3.	<u>Fire Extinguisher:</u> Amerex 10-lb ABC fire extinguisher with bracket. Location of fire extinguisher TBD at pre-paint.	_____	_____
4.	<u>Triangle Reflector Kit:</u> James King triangle reflector kit.	_____	_____
5.	<u>Flare Kit:</u> Orion flare kit with holder.	_____	_____
N.	<u>Golight Spotlight with Wireless Remote:</u> Remote controlled Golight with magnetic base to be stored in side compartment. Two (2) 12V power ports to be installed for Golight. Location of power ports TBD at pre paint inspection.	_____	_____
O.	<u>Pillar Mounted Spotlights:</u> Two (2) utility pillar mounted spot lights to be installed in "A" pillars of cab.	_____	_____
P.	<u>Dri-Deck and Rubber Mat:</u> Body to have Dri-Deck on all compartment bottoms as well as tool box style rubber matting on all shelves.	_____	_____
Q.	<u>Wheel Chocks:</u> Rubber wheel chocks with eye bolts.	_____	_____
R.	<u>One pair of mud flaps:</u> One pair installed behind rear axle	_____	_____
S.	<u>Testing:</u> Complete unit testing shall be provided per ANSI functional specifications, including stability, axle load, and final certification.	_____	_____
T.	<u>Paint:</u> The body shall be painted white to match cab. Aerial above and below rotation will be painted with Sherman Williams White. Fiberglass to remain white and unpainted.	_____	_____

		<u>COMPLY</u>	
		<u>YES</u>	<u>NO</u>
1.	<u>Walking surfaces and compartment sides:</u> Both compartment top surfaces, body bed & side walls, tail shelve, and rear end of both side packs be covered with Rino line. Rino line to end and not cover hot stick door. Paint on no skid will not be accepted.	_____	_____
U.	<u>Miscellaneous:</u>		
1.	<u>Manuals:</u> Two set of manuals to include operation and maintenance procedures, and a replacement parts listing are provided.	_____	_____
2.	<u>Warning decals are provided with unit.</u> All decals or placards to be installed in cab shall wait to be installed until pre paint and customer agrees on location.	_____	_____
3.	<u>Pre-Pint Inspection:</u> All provisions and costs to be included for pre paint inspection for two at build location prior to final completion and painting of completed unit. Digital pictures shall be provided at each stage of assemble before pre paint.	_____	_____
4.	<u>Unit Drawing:</u> Conceptual drawings to be provided within two weeks by company awarded bid. To include basic equipment being quoted. To provide weight study based on actual chassis selected and equipment to be furnished.	_____	_____
5.	<u>Warranty:</u> Minimum of a one (1) year warranty is to be offered. An extended warranty up to five (5) years is available.	_____	_____
6.	Supply copy of manufacturer's warranty with bid.	_____	_____
7.	Vendor to state number of years in business as a utility equipment supplier of aerial devices _____	_____	_____
8.	Unit shall be delivered within 180 to 210 days from receipt of order.	_____	_____
9.	<u>In Service Training:</u> The successful bidder will provide an In Service Training session for all Lehi City Power employee's to cover the safe operation, procedures, and maintenance of this new unit within 14 days after delivery.	_____	_____
10.	This aerial device is to designed and manufactured in a facility that is certified to meet ISO 9001.	_____	_____
11.	Bidder must have a local service facility within sixty (60) miles of Lehi City.	_____	_____
12.	<u>Hydraulic Filters:</u> Complete set of hydraulic filters for aerial to be provided at delivery.	_____	_____

3. **CHASSIS**

2010 Ford F-550 4X4 Super Cab with all standard and optional equipment including:

6.4 L Power Stroke Diesel V8 Engine
Torqshift 5-speed Automatic Transmission
4.88 Axle Ratio
GVWR 17,950 lb
162" Wheelbase / 60" Cab to Axle
Heavy Duty Front Drive Axel
LT225/70Rx19.5G Tires
40 Gal Single Fuel Tank
Cloth 40/20/40 Split Bench Seat
Tow-Command Integrated Trailer Brake Controller
Transmission Power Take Off Provision
Four (4) Dash Mounted Factory Auxiliary Power Switches
Air Conditioning
AM/FM CD Radio
Tilt Steering Wheel
Cruise Control
Power Door Locks
Power Windows
Chrome Grille/Chrome Bumper/Aero Dynamic Headlights
Molded Front License Plate Bracket
Front Tow Hooks
200 Amp Alternator
Rubber Floor Mats, no Carpet
White in color
Side and Rear windows in Super Cab to be factory tinted as dark as possible

Chassis supplier to supply one (1) complete set of filters with chassis upon deliver of unit
To Lehi City.

2010 Dodge Ram-5500 4X4 Quad Cab with all standard and optional equipment, including:

All equivalent options and equipment listed above
All variations from option list above must be clearly noted.

Your proposal must be accompanied by descriptive literature (marked), indicating the exact items to be furnished. The term "as specified" will not be acceptable.

WEIGHT DISTRIBUTION AND DRAWING:

Proposal must be accompanied by an accurate weight distribution of finished product, including estimate with driver and full tank of fuel. In addition an accurate drawing of the finished product is required.

BID QUOTE TO BE VALID FOR 45 DAYS.

DELIVERY REQUIREMENTS:

Delivery shall be within 210 days after receipt of order. At Lehi City's option, an extension may be granted, whichever is in Lehi City's best interest. Unless a delivery extension is granted for acceptable reasons due to circumstances beyond the vendor's control, liquidated damages of \$70.00 will be deducted from the invoice for every working day after the expiration of the number of days show on the purchase order until the units are delivered. This provision is not intended as a penalty but as liquidated damages.

TOTAL INSTALLED PRICE OF AERIAL, BODY & FORD CHASSIS: _____

TOTAL INSTALLED PRICE OF AERIAL, BODY & DODGE CHASSIS: _____

NOTE: All substitutions, deviations, and exceptions must be noted on bids and are subject to approval by Lehi City Power Department.

Fuel efficiency is an important consideration in Lehi City's bid assessment and award process.

Any questions or concerns please contact:

Rod Olsen, Operations Manager
Lehi City Power Department
801-768-9167
801-830-8936 (Cell)