



One Articulating / Telescoping Aerial Device providing a working height of 54.6 ft and a side reach of 36 ft with a side mount platform or a working height of 54.6 ft and a side reach of 36 ft with an end mount platform. Unit will be mounted behind the cab.

Single hydraulic in-line lift 10 ft raises working height 10 additional feet vertically. The use of the in-line lift will require the unit to have 2 sets of outriggers. The mounting of the lift will run parallel with the frame rails of the truck to be a longitudinal mount.

#### Platform Leveling:

Leveling to be provided by a master/slave cylinder system.  
A control for both the upper and lower control to be provided.

#### Upper Controls:

Single stick controller (4-function)  
Non-metallic control handle  
Enable lever must be actuated before operation  
Controls upper boom lift, boom extension and rotation

#### Lower Control:

Individual control levers are to be located in an accessible location on the turntable.  
The lower controls will activate boom lift, boom extension, platform leveling, and rotation.  
An upper/lower control selector provides override of platform controls, along with an emergency stop.

#### Lower Boom:

The lower boom articulation will be from 0 to 87 degrees.

#### Upper Boom:

The upper boom will have an articulation of -20 to 75 degrees.

#### Second Section Boom:

Extension of the second section will be accomplished by a hydraulic cylinder.  
The upper boom will have a total insulation gap of 6" retracted and 50" extended.

#### Lower Boom Cylinder:

Single, threaded end gland design, double acting hydraulic lift cylinder to be equipped with integral holding valves.

#### Upper Boom Cylinder:

A double acting hydraulic lift cylinder equipped with integral holding valve will be provided.

#### Extension Cylinder:

The cylinder will be equipped with integral holding valves to prevent creep and to hold the boom in position in the event of hose failure.

**Engine Throttle Control:**

A two-speed engine throttle control will be provided at the upper controls.  
The engine will advance to a pre-set speed when engaged and will decrease to idle when disengaged.

**Pedestal:**

The pedestal will be of welded high strength steel construction and designed with access holes for maintenance of hydraulic plumbing.

**Turntable:**

The turntable will be constructed of side plates with an offset configuration to provide maximum strength.  
The steel bottom plate will have provisions for attaching the outer race of the rotation bearing.

**Continuous Unrestricted Rotation:**

A 3-port hydraulic rotary manifold will be provided. This will provide a rotation oil distribution system for continuous and unrestricted rotation.  
One 3/8" hydraulic port will be provided for options.  
A self-locking worm gear rotation drive will be provided and equipped with bi-directional motor.  
A 7/8" external hex shaft that allows for manual rotation will be provided.  
A 4-channel electric collector ring will be provided.

**Rotation Bearing:**

The rotation bearing shall be a heavy-duty "shear ball" bearing with external gear teeth utilizing polished alloy steel balls.  
Both the inner and outer races are to be made from high-strength alloy steel and are to be heat treated to provide maximum life.  
High strength grade 8 bolts are to be used to attach the inner and outer races to the pedestal and turntable.

**Hydraulic System:**

To be full pressure, open center hydraulic system.  
A 35-gallon hydraulic oil reservoir is to be built into the pedestal and will provide a 60-mesh filler screen, baffles, 100-mesh suction screen with bypass, clean out access hole, sight gauge and shut off valve.  
A spin on type 10 micron return line filter will be provided.  
A relief will also be provided.

**Hydraulic Pump:**

Hydraulic system will include a tandem vane hydraulic pump that will provide 5 gpm per side at engine idle.



Miscellaneous:

All metallic components of the complete aerial device are to prime painted.  
To include two sets of operation, maintenance, and replacement parts manuals and all recommended decals.

Air lines for pneumatic tools, and electrical lines to be run through the boom to the tip with reels mounted under body at rear.

Platform to be 24" x 48" x 42", and to be streetside mounted fiberglass with a rated capacity to 600 lbs.

One outside access step with a slip-resistant surface to be included

A safety harness and lanyard with a built in "D" ring lanyard attachment will be provided.

Platform cover will be vinyl and will be waterproof with an internal elastic cord around the edge.

Single hydraulic tool outlets with flow control to be installed at platform to accommodate one open center hydraulic tools and will provide 5 GPM at 2250 psi at engine idle.

Hydraulic platform rotator to allow 105 degrees of forward hydraulic rotation and will be controlled at the upper controls.

An insulated engine Start/Stop will be provided at the platform.

A two-speed throttle system that automatically increases engine RPM to a pre-set speed when an increase in hydraulic pressure is sensed will be provided.

The 1500 lb hydraulic articulating side mounted jib and winch, mounted curbside, will have infinite positioning through the 125 degrees of articulation envelope with a 1-6 ft of extension and 5 pinning positions every 17 inches. Include a 1500 lb full drum capacity self-locking worm gear winch. Include jib and winch controls at platform controls and winch control at lower controls. Include 75' of 1/2" winch rope and hook.

Provide hydraulic jib extension under load.

Outriggers and auxiliary tool outlets are to be recessed at rear of truck on each side.

Boom stow protection system to be provided.



#### Utility Body:

180" line body, 46" high x 94" wide  
 21" compartment depth  
 52" bed area  
 28" from top of floor to top of body  
 24" horizontal compartment height  
 4" wheel wells  
 16 ga. Body materials  
 12 ga. Treadplate floor  
 12 ga. Treadplate compartment tops  
 12 ga. Treadplate mounted in bed area on back of body and bulkhead  
 Automotive rotaty type door latches  
 Stainless steel rod and brass socket type door hinges  
 Chain stops on all doors  
 Double panel body doors  
 Rubber rolled crown type fenders  
 Automotive bulb type weatherstripping  
 Front bulkhead

#### **Streetside Compartmentation:**

1st Vertical: 30" wide with 4 fixed material hooks 2-0-2 with 2 material drawers. Drawers to include a latch and are to be mounted on grant slides. There is to be adjustable dividers installed in each drawer on 6" centers.

2nd Vertical: 24" wide with 8 material drawers. Drawers each to include a latch and to be mounted on grant slides, with dividers installed in each drawer on 6" centers.

3rd Vertical: 24" wide with 8 material drawers. Drawers each to include a latch and to be mounted on grant slides, with dividers installed in each drawer on 6" centers.

4th Vertical: 51" high, 18" open compartment. Bottom of compartment to be 5" below body for storage of gas cylinders.

Horizontal: 42" wide equipped with 18 EQUIPTO drawers.

Remainder of body to be flatbed.



**Curbside Compartmentation:**

1st Vertical: 30" wide with 4 adjustable shelves each with adjustable dividers on 6" centers.

2nd Vertical: 24" wide with 8 material drawers, with each to include a latch and mounted on grant slides. Adjustable dividers to be installed in each drawer on 6" centers.

3rd Vertical: 24" wide with 8 material drawers, with each to include a latch and mounted on grant slides. Adjustable dividers to be installed in each drawer on 6" centers.

4th Vertical: 18" wide with 6 material drawers, with each to include a latch and mounted on grant slides. Adjustable dividers installed in each drawer on 6" centers.

Horizontal: 60" wide equipped with 18 EQUIPTO drawers.

Rear Vertical: 24" wide with 4 adjustable shelves each with adjustable dividers on 6" centers.

Tailshelf: 12 ga. Treadplate tailshelf 6" long x 94" wide x 6" high with angled side skirts to bottom of body. Full side skirt on streetside, and a 7-lamp light bar installed at rear of tailshelf.

3 reels to be mounted under the tailshelf as close to the outriggers as possible. The first reel to be located on the streetside for oxygen/acetylene. 2nd and 3rd reel to be located on the curbside. Reel on the curbside closest to the frame rail will be for air lines and the outside reel will be for 110V extension cord wire type lead.

Large possum belly and large possum belly door at the rear of the truck between frame rails to be approximately 34W x 16H.

Compartment light with door switch to be provided.

Cable type grip-strut stirrup step to be provided.

Access steps to platform to be provided.

**Installation and Accessories:**

Power takeoff with indicator light to be provided.

GETEC Hydraulic Welding Machine, to be mounted under the basket at the tailshelf housed in a box with a locking mechanism. Output for this machine to be 4200 watts, 225 DC Amps, and hydraulic oil flow rated at 20-40 GPM.



Welding cable reels to be included, with welding lead to run through cat-tract of boom up to the platform for welding. NOTE: Reels placed in front of the base of the pedestal and lift will house enough welding lead to when the boom and lift are fully extended and for at least a 360 degree rotation.

Four 110 volt electrical outlets with weather boxes and snap-to covers, with one provided at the pedestal at an accessible place and another at the platform. The last two receptacles to be at the front and rear curbside of the unit.

A 3400 watt inverter, single phase pure sine 12 volt inverter shall be provided and mounted in a compartment designated per drawing. A 110 volt electric power circuit shall be provided which includes outlets at pedestal.

A Holland brand T-125 pintle hook shall be installed at the rear of the truck.

A Midland 6-prong trailer socket will be included.

A remote engine stop/start control and throttle control from rear of vehicle shall be provided.

A back-up alarm that sounds when the vehicle is shifted into reverse will be installed.

The line body, aerial hydraulic lift, and bumper package will all be one color and will match the cab, which will be Highway Yellow, paint code #13432.

Body floor and compartment tops will be painted with non-skid paint.

The front bumper package will have three locking toolboxes, will be keyed alike with top opening lids. The toolboxes will be streetside, curbside, and middle of the bumper package.

### **Chassis:**

2009 International 4300 SBA 4x2, with 33,000 lbs GVW. Engine to be MaxxForce DT 466, 245 HP. Transmission to be Allison 3000 RDS. Front axle rated at 14,000 lbs., Rear axle 21,000 lbs., with locking differential with driver control. Wheelbase to be 187 “, CA 120”. Leece-Neville 12V, 160-amp alternator. 3 maintenance free, 12V, 1950 CCA total batteries. Cab to include an AM/FM radio. Cab to be painted Highway Yellow.

Trailer connections: Four-wheel, with hand control valve and tractor protection valve, for straight truck.



Exhaust System: Single, horizontal. Aftertreatment device, frame mounted right side back of cab, includes horizontal tail pipe.

Body Builder Wiring: Back of standard cab at left frame or under extended or crewcab at left frame, includes sealed connectors for tail/amber turn/marker/backup/accessory power/ground and sealed connector for stop/turn.

Electric Trailer Brake/Lights: Accommodation package to rear of frame; for separate trailer stop, tail, turn, marker light circuits. Includes electric trailer brake accommodation package with cab connections for mounting customer installed electric brake unit, less trailer socket.

2-Way Radio: Wiring effects; wiring with 20 amp fuse protection, includes ignition wire with 5 amp fuse, wire ends heat shrink and routed to center of header console in cab.

Radio: AM/FM stereo with CD player, weatherband, clock, includes multiple coaxial speakers, satellite radio compatible.

Engine Control, Remote Mounted: Provision for, includes wiring for body builder installation of PTO controls, with ignition switch control for International post 2007 emissions electronic engines.

Fuel Tank: (2) Top draw; D style, non-polished aluminum, 50 US gallon each, 100-gallon total capacity, 378 L, 16" tank depth, mounted under cab left and right side.

Seat, Driver: (National 2000 195) Air suspension, high back with integral headrest, cloth, isolated with 2-position front cushion adjustment. -3 to +14 degree seat back adjustment, triple chamber air lumbar support, cushion and back bolsters.

Seat, Passenger: (National 2000 195) Air suspension, high back with integral headrest, cloth, isolated with 2-position front cushion adjustment. -3 to +14 degree seat back adjustment, triple chamber air lumbar support, cushion and back bolsters.

Grab Handle: (2) Chrome towel bar type with anti-slip rubber inserts; for cab entry mounted left and right.

Mirrors: (2) (Lang Mekra) styled; rectangular, 7.09" x 15.75", brackets breakaway type, with 102" wide spacing, with integral convex both sides, with all heated heads, thermostatically controlled, with clearance lights LED, powered both sides, with bright heads and brackets.

Mirror, Convex: hood mounted (2) (Lang Mekra), bright, heated, left and right sides 7.44" sq.

Arm rest: right, driver side

Arm rest: left, passenger side



Window: Power (2) and power door locks, left and right doors

Air conditioner: (International Blend-Air) with integral heater and defroster.

Cab Rear Suspension: Air bag type

Pillar mounted spotlights on left and right side of cab.