

# INVITATION FOR BID

The City of Antigo, Wisconsin will **accept bids until March 1, 2021** for the following:

One (1) New Wheeled Excavator

Bid information will be available on the city website at the following address:  
[www.antigo-city.org](http://www.antigo-city.org)

Bids will only be accepted through the City's vendor system, Vendor Registry. You may register for the program at [www.antigo-city.org](http://www.antigo-city.org).

Bids will be **opened and read at 10:00 am on March 1, 2021**, in the Public Works Office, City Hall, 700 Edison St, Antigo, WI 54409.

The City of Antigo reserves the right to reject any or all bids and to accept the bid deemed most advantageous to the City.

[www.antigo-city.org](http://www.antigo-city.org)

**GENERAL**

The following specifications are intended to serve as general guidelines to obtain bids on comparable equipment. It shall be the responsibility of the supplier to fully comply with these minimum specifications. The bid information shall itemize in detail all standard and accessory equipment. The equipment shall be new and of the latest type and model, shall be equal to or exceed the following specifications, and shall conform to all safety and OSHA regulations. All parts not specifically mentioned which are necessary to provide a complete operating piece of equipment shall be included in the bid and shall conform in strength, quality of material, and workmanship to what is usually provided the trade in general.

The supplier shall describe in detail those areas where his equipment does not comply with these specifications. Any alternate equipment or material deviating from these specifications shall also be described in detail. Failure to do so may disqualify the bid.

The City will not necessarily purchase the lowest priced equipment. The decision to purchase will be based on price, performance, maintenance history, availability of parts and service, equipment warranty, evaluation of quality, past operation experience, and delivery date. Antigo Public Works reserves the right to reject any and all bids, and to determine the choice of equipment in the best interests of the Utility after considering those criteria mentioned in the preceding paragraph.

**INTENT**

It is the intent of this specification to describe a wheeled excavator. This unit shall be the manufacturer's latest model except as modified herein. The excavator, including all necessary equipment, shall be furnished and delivered new, complete and ready for use.

**TYPE OF SERVICE**

Antigo Public Works will use this vehicle in the day to day operations of water distribution. The excavator will be required to travel all types of roads ranging from bituminous and concrete pavement to rutted, uneven, and off road operations. The supplier shall take the above conditions into consideration before submitting their bid. Under the guarantee, no claims of abuse because of the above described normal use conditions will be given any consideration by the Utility.

**WARRANTY AND RECALLS:**

Warranty work or recalls must be fully explained to Shop Mechanic at delivery. Warranty work or recall needing to be performed on site or shall be picked up by successful bidder at the City of Antigo Street Department, and returned to the City of Antigo Street Department by successful bidder when work is complete, at bidders cost or done in our facility.

**DEVIATIONS TO SPECIFICATIONS:**

In the following specifications please put a check in the Yes column if you comply with the specification in that line or No if you don't comply. If you have any deviation from the specification listed on that line please attach a separate page to describe your deviation. Failure to fill out these columns may result in a rejection of your bid.

**WHEEL EXCAVATOR****Engine****Compliance**

Rated SAE Engine Power shall be no less than 120 net hp @2000 rpm yes\_\_\_\_ no\_\_\_\_

Engine shall be Certified to EPA Tier 4 Emissions yes\_\_\_\_ no\_\_\_\_

Engine shall have auto-idle mode to reduce engine speed when hydraulics are not in use to reduce fuel consumption and noise yes\_\_\_\_ no\_\_\_\_

Engine oil interval shall have a scheduled 300 hour interval for reduced operating costs yes\_\_\_\_ no\_\_\_\_

Cold-start aid shall be standard, such as glow plugs yes\_\_\_\_ no\_\_\_\_

Off-level capacity shall be no less than 34 degrees yes\_\_\_\_ no\_\_\_\_

Turbo charger with air charge air cooler yes\_\_\_\_ no\_\_\_\_

Engine service points like fuel, oil and water filters must be serviceable from ground level yes\_\_\_\_ no\_\_\_\_

**Cooling****Compliance**

Reversible cooling fan yes\_\_\_\_ no\_\_\_\_

Aluminum core coolers shall be standard for superior durability compared to steel yes\_\_\_\_ no\_\_\_\_

Radiator trash screen to protect radiator from debris yes\_\_\_\_ no\_\_\_\_

**Power Train****Compliance**

The machine shall be all-wheel drive with the front axle hydraulically lockable in any position yes\_\_\_\_ no\_\_\_\_

Front wheels shall be steerable yes\_\_\_\_ no\_\_\_\_

Ride control yes\_\_\_\_ no\_\_\_\_

The transmission shall shift down when the wheel speed is appropriate to protect both the operator and the driver yes\_\_\_\_ no\_\_\_\_

There will be two speed (high/low) with creeper range and capable of on the go shifting yes\_\_\_\_ no\_\_\_\_

Travel speed in creeper mode shall not exceed 8 mph for maximum control yes\_\_\_\_ no\_\_\_\_

There will be three power modes and one work mode to simplify a variety of applications yes\_\_\_\_ no\_\_\_\_

**Axles/Brakes****Compliance**

Brakes shall be maintenance free wet-disk on front and rear standard and shall be fully hydraulic	yes___	no___
The disc service brake at each wheel shall be spring applied, hydraulically released, modulated by the foot pedal	yes___	no___
The travel motor will have three modes, inching, slow and fast travel for maximum productivity	yes___	no___
Axle oil change interval shall be 2000 hours for extended life	yes___	no___
Brake accumulators shall be standard on the machine	yes___	no___

**Hydraulic System****Compliance**

Reduced-drift valve for boom down and arm in circuit	yes___	no___
Auxiliary hydraulic valve section	yes___	no___
Hydraulic sight gage shall be provided for quick daily checks to reduce operating costs	yes___	no___
System shall have variable-displacement, load sensing, axial-piston pumps	yes___	no___
Auxiliary pilot and electric controls	yes___	no___
The pilot pump shall be one gear	yes___	no___
Maximum pressure for the travel circuit shall be not less than 4975 psi to minimize fatigue of the hydraulic components	yes___	no___
Swing speed shall be capable of 9 rpm or greater for maximum productivity	yes___	no___
Swing torque shall be no less than 29,800 lb-ft	yes___	no___
Boom swing to have no drift when operator releases joy stick, must come as standard equipment and not need to be activated by remote button	yes___	no___
A pilot control patten changer shall be included to switch configuration from SAE/ISO to backhoe loader style	yes___	no___
The machine shall be equipped with a quick warm-up system for pilot circuit	yes___	no___
The joystick controllers shall be pre-wired for auxiliary hydraulics and booms fitted with pre-welded bosses for auxiliary lines making these additions less expensive and easier to install	yes___	no___
High pressure/High flow hydraulic lines run to the end of the stick with threaded flat face quick couplers "both halves" with the ability to connect under pressure	yes___	no___

Medium pressure hydraulic lines run to the end of the stick threaded flat face quick couplers with “both halves” with the ability to connect under pressure	yes_____	no_____
Hydraulic tank to have shut off valve on suction side of tank	yes_____	no_____
The auxiliary high-pressure circuit pedal will be lockable	yes_____	no_____
Hydraulic oil change interval shall be 2,500 min. hours for reduced operating costs and increased productivity	yes_____	no_____

### **Electrical**

### **Compliance**

The circuits shall be fused or circuit breaker protected	yes_____	no_____
The battery shall have a positive battery cover	yes_____	no_____
Two 12 volt batteries shall be provided with 180 minute reserve capacity	yes_____	no_____
All wire harnesses shall be encased in nylon mesh bindings	yes_____	no_____
The electrical system shall be 24 volt with 50 amp alternator or greater	yes_____	no_____
A 24 to 12 volt D.C. radio converter	yes_____	no_____
Prewired for 2-way radio connection and antenna	yes_____	no_____
Wireless communication system with 5 years of service for service information	yes_____	no_____
Master electrical disconnect switch shall be standard and accessible from the ground	yes_____	no_____

### **Operator Station**

### **Compliance**

The operator station shall be mounted on cab mounts to reduce noise, vibration and operator fatigue	yes_____	no_____
Cab shall be ISO ROPS certified	yes_____	no_____
Cab shall have a 12 volt port provided	yes_____	no_____
Seat shall be deluxe AIR suspension, high-back armchair with lumbar support and with 4 inch adjustable arm rests	yes_____	no_____
The seat can be adjusted independently or together with the control console to accommodate any size operator	yes_____	no_____
The steering column has to be tiltable for easy entry, exit and comfortable operating	yes_____	no_____
The monitor shall provide indicators for air filter restrictions, alternator charge, engine oil pressure, engine overheat and including service due for oil interval	yes_____	no_____

System shall retain and display fault codes and incidents related to machine operating outside of the specified parameter	yes_____	no_____
The horn shall be operable while the machine is moving forward or in reverse	yes_____	no_____
The cab shall be pressurized with heater and A/C	yes_____	no_____
The A/C filters shall be easy to replace with no special tools required and shall have extended replacement intervals up to 500 hours	yes_____	no_____
Cab shall have a large beverage holder, place for a lunch box and a hot/cold beverage box, installed at factory	yes_____	no_____
Engine air cleaner restriction light shall be standard on the monitor	yes_____	no_____
An AM/FM radio with auto tuning shall be standard, installed from factory	yes_____	no_____
The cab shall have auto climate control to maintain a comfortable, programmable temperature for AC and heat	yes_____	no_____
The windshield washer/wiper will have constant and intermittent speed	yes_____	no_____
The glass in the cab shall be tinted for operator comfort	yes_____	no_____
Excavator shall have a travel alarm with the muting option accessible from the operator's control panel	yes_____	no_____
Rear-view and right side camera with object detection if available	yes_____	no_____

### **Wheels and Undercarriage**

### **Compliance**

Dual traction-type tires, 10.00-20, with spacer{rock guard} shall be standard on the machine	yes_____	no_____
Excavator shall be equipped with two (2) outriggers and blade	yes_____	no_____
The outriggers shall be activated together, in pairs or independently for ease of leveling	yes_____	no_____
A tool box shall be provided on the chassis	yes_____	no_____
Outrigger activation shall be displayed on the monitor	yes_____	no_____
Minimum ground undercarriage clearance shall be 1 ft	yes_____	no_____
Provide one spare tire with rim for the excavator	yes_____	no_____

### **Upperstructure**

### **Compliance**

Variable Geometry Boom (2 piece)	yes_____	no_____
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Grease manifolds for easy maintenance	yes_____	no_____
The cab door, fuel cap and service doors shall be lockable	yes_____	no_____
Right and left hand mirrors with convex style mirrors	yes_____	no_____
Centralized lube banks shall be provided for the front end and for the swing bearing to make greasing easier and less time consuming	yes_____	no_____

### **Overall Machine Specs**

### **Compliance**

Overall height to top of cab and travel height shall be no more than 10 ft 8 in	yes_____	no_____
Machine travel length shall be no more than 28 ft	yes_____	no_____
All bucket pins will be protected by dirt seals	yes_____	no_____
Vandal locks shall be provided for the cab door, service doors and fuel cap	yes_____	no_____

### **Operating Specifications**

### **Compliance**

The arm force shall be no less than 17,000 lb	yes_____	no_____
Bucket digging force shall be no less than 20,000 lb	yes_____	no_____
Lifting capacity over front @ ground level 15 ft reach shall be no less than 13,000 lbs	yes_____	no_____
Maximum digging depth with two piece boom shall be not less than 16 ft	yes_____	no_____

### **Lights**

### **Compliance**

The excavator shall be equipped with two LED headlights, four LED work lights on the top of the cab, one work light on the rear of the cab and four lights on the boom	yes_____	no_____
Turn signals and hazard lights shall be standard	yes_____	no_____
Brake lights shall be standard	yes_____	no_____
Side marker lights shall be standard	yes_____	no_____
2 amber LED strobe lights shall be included in quote and mounting location to be approved by the City.	yes_____	no_____

### **Capacities**

### **Compliance**

Fuel tank shall hold a minimum of 52 gallons	yes_____	no_____
Fuel tank shall have a ventilation filter with anti-leakage valve in case of machine rollover	yes_____	no_____

**Warranty**

**Compliance**

60 months

yes\_\_\_ no\_\_\_

3,000 hours

yes\_\_\_ no\_\_\_

Full machine

yes\_\_\_ no\_\_\_

**Options Included in Quote**

**Compliance**

Geith or equal hydraulically operated quick coupler to couple the excavator to various attachments. Attach spec sheet of coupler with model quoted

yes\_\_\_ no\_\_\_

One (1) 30" General Purpose Bucket

yes\_\_\_ no\_\_\_

Main pin hydraulic progressive thumb attachment

yes\_\_\_ no\_\_\_

Boom float

yes\_\_\_ no\_\_\_

One (1) 36" Ditching bucket

yes\_\_\_ no\_\_\_

One (1) 36" Tilting ditching bucket

yes\_\_\_ no\_\_\_

**Other Options/ Price costs (Not in above specification)**

(Please attach literature with model of unit being quoted)

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

**If your company provides or manufactures any of the above type of attachments please included literature and pricing for that equipment below.**

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_



**SPECIFICATION SHEET – WHEEL EXCAVATOR**

Excavator Make: \_\_\_\_\_ Model: \_\_\_\_\_

**ENGINE**

Make: \_\_\_\_\_ Cubic In. Displacement: \_\_\_\_\_ Cubic Inch

Gross HP: \_\_\_\_\_ Net SAE HP: \_\_\_\_\_ @ \_\_\_\_\_ RPM

**TRANSMISSION**

Make: \_\_\_\_\_ Type: \_\_\_\_\_ MPH: Forward: \_\_\_\_\_ Reverse \_\_\_\_\_

**HYDRAULICS**

Pump: Make: \_\_\_\_\_ Type: \_\_\_\_\_

Capacity: \_\_\_\_\_ GPM Operating Pressure \_\_\_\_\_ PSI

Quantity of Pre-set tool parameters: \_\_\_\_\_

**ELECTRICAL**

Alternator: \_\_\_\_\_ AMPS Battery: \_\_\_\_\_ CCA Heater: \_\_\_\_\_ BTU's

**TIRES**

Front size and type: \_\_\_\_\_ Rear size and type: \_\_\_\_\_

**OVERALL MACHINE SPEC'S**

Weight: \_\_\_\_\_ lbs. Does rear view camera have object detection? Yes / No

**DIMENSIONAL DATA**

In travel position, overall length \_\_\_\_\_ ft /in overall height \_\_\_\_\_ ft/in

Overall width with outriggers up: \_\_\_\_\_

Wheel base front to rear: \_\_\_\_\_ Turning radius outside: \_\_\_\_\_

Bucket width: \_\_\_\_\_ Bucket capacity: \_\_\_\_\_ cu/yd

Digging reach: \_\_\_\_\_ Digging depth: \_\_\_\_\_

Digging height: \_\_\_\_\_ Dumping height: \_\_\_\_\_

Eight foot level bottom of trench, depth: \_\_\_\_\_

Lift capacities @ 10 ft from center \_\_\_\_\_ lbs, max reach \_\_\_\_\_ lbs. @ \_\_\_\_\_ ft.

**WARRANTY**

Full machine warranty: \_\_\_\_\_ Years – enclose breakdown of warranty coverage's

Structural warranty: \_\_\_\_\_ Years – what is covered?

# BID FORM

**Supply One (1) Wheel Excavator** equipped per these specifications, f.o.b., Public Works Street Department, 1020 W. Pierce Ave, Antigo, WI, less state and federal taxes.

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Base Cost-----\$ \_\_\_\_\_

Geith or equal hydraulically operated quick coupler to couple the excavator to various attachments.

Cost-----\$(+) \_\_\_\_\_

One(1) 30” General Purpose Bucket – Cost-----\$(+) \_\_\_\_\_

Main pin hydraulic progressive thumb attachment \$(+) \_\_\_\_\_

Boom Float Cost-----\$(+) \_\_\_\_\_

One (1) 36” Ditching bucket Cost-----\$(+) \_\_\_\_\_

One (1) 48” Tilting ditching bucket – Cost-----\$(+) \_\_\_\_\_

Total Cost with attachments -----\$ \_\_\_\_\_

\*Value of Trade – W5 2009 New Holland Backhoe \$(-) \_\_\_\_\_

Net Cost w/ Trade -----\$ \_\_\_\_\_

\*The City of Antigo has recently updated its equipment/vehicle trade procedures. We are asking for a trade-in value, but will also be auctioning the equipment/vehicles. The City of Antigo will either accept the trade or sell on the auction based on whichever price is higher.

Delivery Date: \_\_\_\_\_

Name of Supplier: \_\_\_\_\_

Signature of Authorized Person: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Today’s date: \_\_\_\_\_