

RESOLUTION NO. _____

A RESOLUTION calling for sealed bids on behalf of Roads and Transportation Services, to supply (1) one new Backhoe Loader.

WHEREAS, it has been demonstrated to the Board of Thurston County Commissioners that it is necessary and appropriate and in the best interests of Thurston County for the Board of County Commissioners to advertise and call for sealed bids for the above-described matter;

NOW, THEREFORE, the Board of County Commissioners of Thurston County, State of Washington, does resolve as follows:

Section 1. The Board of County Commissioners hereby calls for and will receive sealed bids to supply one (1) new Backhoe Loader.

Section 2. The day for opening said bids shall be set for September 2, 2008 at 9:30 a.m. in the Thurston County Courthouse, Room 280, Building 1, 2000 Lakeridge Drive SW, Olympia, Washington.

Section 3. The bid invitations and specifications shall be placed on file in the Roads and Transportation Services Dept., 9605 Tilley Road S, Olympia, Washington and can be viewed on the Builder’s Exchange of Washington website at www.bxwa.com under “Goods and Services”.

Section 4. Awards shall be made to the lowest responsible bidder; however, any or all bids may be rejected for good cause.

Section 5. The Clerk of the Board is hereby instructed to advertise the call for such sealed bids, by publication in the official County paper and also in one trade paper of general circulation in the County, in one issue of each paper at least thirteen days prior to the date upon which bids will be received, and noting that Thurston County is an equal opportunity employer as required by the Equal Employment Opportunity Act (Public Law 92.261).

ADOPTED: _____

BOARD OF COUNTY COMMISSIONERS
Thurston County, Washington

ATTEST:

Clerk of the Board

Chairman

APPROVED AS TO FORM:

EDWARD G. HOLM
PROSECUTING ATTORNEY

Vice-Chairman

By: _____
Deputy Prosecuting Attorney

Commissioner

CALL FOR SEALED BIDS

1. NOTICE TO BIDDERS: Sealed bids will be received at the Reception Desk of the Board of Thurston County Commissioners, 2000 Lakeridge Drive SW, Building 1, Room 269, Olympia, Washington 98502, only until 9:30 a.m., September 2, 2008 for the following:

Supply (1) one new Backhoe Loader

Sealed bids must be clearly marked with the bid opening date and time. Such bids will be publicly opened and read at 9:30 a.m., September 2, 2008, in the Thurston County Courthouse, Room 280, Building 1, 2000 Lakeridge Drive SW, Olympia, Washington.

2. BIDDING DOCUMENTS: The bid invitations and specifications shall be placed on file in the Roads and Transportation Services Dept., 9605 Tilley Road SW, Olympia, Washington and can be viewed on the Builder’s Exchange of Washington website at www.bxwa.com under “Goods and Services”.

3. AWARD AND REJECTION OF BIDS: The bid award shall be made to the lowest responsible bidder. The Board of Thurston County Commissioners may reject any or all bids for good cause.

4. TITLE VI STATEMENT TO PUBLIC: Thurston County Roads & Transportation Services ensures full compliance with Title VI of the Civil Rights Act of 1964 by prohibiting discrimination against any person on the basis of race, color, national origin or sex in the provision of benefits and services resulting from its federally assisted programs and activities. For questions regarding our Title VI Program, you may contact Ted Saylor, Title VI Coordinator at (360) 754-3355 ext 7826.

DATED: _____

BOARD OF COUNTY COMMISSIONERS
Thurston County, Washington

ATTEST:

Clerk of the Board

Chairman

APPROVED AS TO FORM:

EDWARD G. HOLM
PROSECUTING ATTORNEY

Vice-Chairman

By: _____
Deputy Prosecuting Attorney

Commissioner

Publish: **The Nisqually Valley News-August 15, 2008**
Daily Journal of Commerce-August 15, 2008

**INVITATION FOR BID (IFB)
THURSTON COUNTY, WASHINGTON**

Equipment Proposal Form

Sealed bids will be received at the Reception Desk of the Thurston County Commissioners, Thurston County Courthouse, 2000 Lakeridge Dr. SW, Building 1, Room 269, Olympia WA. 98502-6045 until 9:30 a.m. on Tuesday, September 2, 2008, to supply (1) one new Backhoe Loader. Such bids will then be publicly opened and read. The equipment shall include all items necessary for efficient operation whether or not specifically mentioned in these specifications.

BIDDER'S AUTHORIZED OFFER:

1. **MAKE AND MODEL** of **Backhoe Loader**

Price F.O.B. 9605 Tilley Road SW, Olympia WA 98512 \$ _____

2. Trade-in of 2001 Cat Grader model 140-H and
1997 Cat Backhoe Loader model 426. (**Deduct**) \$ _____

3. **NET PRICE F.O.B** 9605 Tilley Road SW, Olympia WA 98512 \$ _____

The Bidder is not to include in its Bid Washington State Sales Tax (WSST). Thurston County will add WSST to the purchase order.

4. The authorized signatory below acknowledges having read and understood the entire IFB and agrees to comply with the terms and conditions of the IFB in submitting and fulfilling the offer made in its Bid.

5. By submitting this Bid, Bidder hereby offers to furnish equipment in compliance with all terms, conditions, and specifications contained in this IFB

The signatory below represents that he/she has the authority to bind the company named below to the Bid submitted and any purchase order that may be issued as a result of this IFB. This Bid is a firm offer for a period of 365 days following the due date specified in the IFB, and it may be accepted by Thurston County at any time within the 90 days.

Company Name Phone (_____) _____

Street / P.O. Box Bidder Authorized Signature

City State Zip Title

Date: _____

BID REQUIREMENTS

NAME OF BIDDER _____

1. **INSTRUCTIONS TO BIDDERS**

The documents that make up this IFB are the Equipment Proposal Form, the Bid Requirements, and the Minimum Specifications.

1.1. **INTENT OF BID**

Furnish and deliver to Thurston County a Backhoe Loader meeting or exceeding the minimum specifications. Bid price to include the cost of the new unit less the trade-in value for the specified County equipment. Only new models in current production and in common usage will be considered in the award.

1.2 **THURSTON COUNTY COORDINATOR**

The Thurston County coordinator is the sole point of contact in Thurston County for this procurement. All communication between the bidder and Thurston County upon release of this bid proposal shall be with the Thurston County coordinator as follows:

Name: Richard E. Hardy

E-mail Address: hardyr@co.thurston.wa.us

Mailing Address: 9605 Tilley Road S. Olympia, WA. 98512

Physical Address: 9605 Tilley Road S. Olympia, WA. 98512

Phone Number: 360-786-5496

Fax Number: 360-709-3046

Any other communication will be considered unofficial and non-binding on Thurston County. Bidders are to rely on written statements issued by the Thurston County coordinator. Communication directed to parties other than the Thurston County coordinator may result in disqualification of the bidder.

1.3 **BASIS OF AWARD**

a. Award of a contract by Thurston County will be to the lowest responsible and responsive bidder submitting a bid in accordance with this IFB. The lowest bid shall be based on the total price for the specified equipment less any trade-in value. WSST shall not be included in bid pricing submitted. No charge by bidder shall be made for federal excises taxes.

b. The equipment must be available for delivery to Thurston County Roads and Transportation Services Department, 9605 Tilley Road S.W., Olympia, WA. 98512 (hereinafter “Tilley Road Shop”) within 90-120 days after the date the purchase order is issued by Thurston County.

c. The Board of Thurston County Commissioners reserves the right to reject any or all bids for good cause and in particular to reject a bid not accompanied by bid security or data required by the IFB or a bid in any way materially incomplete or irregular. Thurston County reserves the right at its sole discretion to waive minor administrative irregularities.

1.4 **WITHDRAWAL OR MODIFICATION OF BID OR PROPOSAL**

Bidders are liable for all errors or omissions contained in their bids.

a. **After Bid submittal but prior to Bid opening:** The bidder may modify or withdraw his/her bid at any time prior to the due date and time set for bid opening by providing a written request to the Thurston County Coordinator from an authorized representative of the bidder.

b. **After Bid opening:** No bid shall be altered or amended. Thurston County may allow a bid to be withdrawn if the bidder demonstrates that the prices were miscalculated. A low bidder, who claims error and fails to enter into a contract with Thurston County, may not participate in bidding on the same equipment if the IFB is subsequently reissued by Thurston County.

Thurston County reserves the right to contact bidder for clarification of bid contents.

1.5 **BID SECURITY**

a. All bids shall be accompanied by a Bid Security deposit in the form of a certified check, cashier’s check or surety bond in the amount equal to five percent (5%) of the amount of such bid.

b. Bid Security will be returned via certified mail to all unsuccessful bidders after award of contract and upon issuance of a purchase order to the Successful Bidder.

c. Failure to accept an award will result in forfeiture of the Bid Security and such funds will be deposited into the County treasury as liquidated damages.

d. The Successful Bidder’s Bid Security will be returned upon issuance of a purchase order.

2. **GENERAL REQUIREMENTS**

2.1 **CONTRACT FORMATION**

A bid submitted in response to this IFB is an offer to contract with Thurston County. A bid becomes a contract only when legally awarded and accepted in writing by Thurston County. This IFB does not obligate Thurston County to contract for the purchase of equipment specified herein.

2.2 **INCORPORATION OF DOCUMENTS**

This IFB and the Successful Bidder’s bid will be incorporated into the resulting purchase order.

2.3 **RIGHT TO CANCEL**

Thurston County reserves the right to cancel or to reissue all or part of this IFB at any time without obligation or liability.

2.4 **REVISIONS TO THE IFB**

In the event it becomes necessary to revise any part of this IFB, addenda will be provided via e-mail to all individuals who have made the Thurston County coordinator aware of their interest. Addenda will also be published on the Thurston County website at www.bxwa.com.

3. **BIDDER QUALIFICATIONS**

3.1 **MANUFACTURER'S SPECIFICATIONS**

Bidder shall submit with bid a complete set of manufacturer's specifications and illustrated descriptions. Failure to submit may render the bid non-responsive and cause the bid to be rejected.

3.2 **BIDDER SERVICE FACILITIES**

a. *Service Capability:*

Bidder, if other than the manufacturer, must be an authorized distributor, dealer or service representative and is authorized to sell the manufacturer's products and have facilities, skilled personnel, and parts available to completely service, maintain, overhaul and repair the equipment set out in this IFB within the local area (150 mile radius of the Tilley Road Shop).

b. *Parts Availability:*

Bidder shall maintain an adequate stock of normal replacement parts and shall make deliveries within 24 hours when requested. Toll free telephone number or telephone where collect calls will be accepted to order parts : _____ .

c. *Pricing:*

Bidder shall guarantee that parts prices will be as low as such parts that are sold to any other user. If at any time the prices are increased or decreased to the general trade it is understood that Thurston County shall not pay a higher price than any other user, effective with the date of such price increase or decrease to the general trade.

3.3 **EQUIPMENT SERVICE TRAINING**

Bidder shall provide manufacturer's service training for 6 Thurston County employees at the Tilley Road Shop, to assure efficient and economical performance and maintenance of the equipment to be purchased. Said training shall consist of manufacturer's standard program designed for authorized service centers and/or pre-qualified staff. The training fee shall cover all costs of training and shall be included in the bid price. Thurston County shall not be responsible for any additional manufacturer's costs for training required pursuant to this section.

3.4 **TRADE-IN(S)**

- a. The trade-in is sold in “as is” condition and no warranties of any kind accompany the trade-in including but not limited to warranty of merchantability and warranty of fitness. The bidder assumes all risk associated with the trade-in. Trade-in will not be released until the equipment set out in this IFB is accepted by Thurston County.
- b. Trade-in may be inspected by scheduling an appointment with a Thurston County Heavy Equipment Representative (Dick Weston or Rick Hardy) at (360) 786-5496 between 9:00 a.m. and 4:00 p.m., Monday through Thursday.

4. SUCCESSFUL BIDDER RESPONSIBILITIES

4.1. WARRANTY

- a. The Successful Bidder shall warrant that for a period of 3 year(s) from the date of final acceptance, or 5000 hours, whichever occurs first, the Successful Bidder will, at his/her own expense and without cost to Thurston County, replace all defective parts and make any repairs that may be required or made necessary by reason of defective material or workmanship.
- b. The Successful Bidder warrants that all equipment provided under this IFB shall be fit for the purpose(s) for which intended, for merchantability, and shall conform to the requirements and specifications herein. Acceptance of any equipment and inspection incidental thereto by Thurston County shall not alter or affect the obligations of the Successful Bidder or the rights of Thurston County.
- c. Thurston County will make a reasonable attempt to deliver the equipment to the Successful Bidder’s service facility for warranty repairs or bear cost of transportation of parts and servicemen to the machine’s location. However, if Thurston County is unable to deliver the equipment, the Successful Bidder shall come to the location of the equipment to perform the warranty repairs.

4.2 DELIVERY

Delivery of the equipment shall be made during Tilley Road Shop normal work hours. Thurston County reserves the right to refuse shipment when delivered after normal working hours. Equipment is to be shipped FOB Tilley Road Shop freight prepaid and included in price. In no case shall Successful Bidder initiate performance prior to receipt of written or verbal authorization from the Thurston County Coordinator. Expenses incurred otherwise shall be borne solely by the Successful Bidder.

4.3 INSPECTION AND REJECTION

Thurston County’s inspection of all equipment upon delivery is for the sole purpose of identification. Such inspection shall not be construed as final acceptance, or as acceptance of the equipment, if equipment does not conform to the requirements set forth in this IFB. If there are any apparent defects in the equipment at the time of delivery, Thurston County will promptly notify the Successful Bidder. Without limiting any other rights, Thurston County may require the Successful Bidder to:

- a. Repair or replace, at Successful Bidder’s expense, any or all of the damaged equipment, or
- b. Refund the price of any or all of the damaged equipment, or
- c. Accept the return of any or all of the damaged equipment.

4.4 **TITLE AND RISK OF LOSS**

Regardless of FOB point, Successful Bidder agrees to bear all risks of loss, injury, or destruction of equipment ordered herein which occur prior to delivery and acceptance. Such loss, injury, or destruction shall not release the Successful Bidder from any obligation hereunder.

4.5 **STATEMENT OF ORIGIN**

Equipment shall be delivered with a Statement of Origin and title application completely filled out.

5. **GENERAL PROVISIONS**

5.1 **PAYMENT**

Thurston County will make payment within thirty (30) days after the final acceptance of the equipment.

5.2 **COOPERATIVE PURCHASES**

Pursuant to the Washington State Interlocal Cooperative Act, RCW 39.34, other governmental agencies may purchase equipment on this solicitation or contract in accordance with the terms and prices indicated therein if all parties are willing.

MINIMUM SPECIFICATIONS

ONE (1) BACKHOE LOADER

The intent of this specification is to describe Backhoe Loader.

Only new current standard production models built for the U.S. market will be considered acceptable. Printed literature and specifications describing the equipment offered must be included with the bid proposal. Any recent changes to standard features and/or changes required for the intended use will be supplied. All accessories required by these specifications shall be identical in quality and design to those normally supplied for sale through regular commercial channels.

NOTE: To be eligible for award, bidder must indicate whether the equipment being bid meets, exceeds, or deviates from the specifications. Bidder shall use the “check if as specified” column or explain any deviations fully. Use an additional sheet if necessary.

Make and Model Bid _____

Backhoe Loader

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

General Description

The minimum requirement for a heavy duty rubber tire backhoe loader with 4 in 1 front bucket, extendable jib and with hydraulic thumb from the OEM.

Basic Specifications:

The backhoe shall have a minimum digging depth of 15’3” with a standard stick and 19’6” with a extendable stick.

Turbocharged engine net flywheel horsepower shall be at least 97 HP according to SAE J1349.

Multi-purpose loader bucket SAE heaped rating shall be a minimum of 1.4 cubic yards.

The machine shall have a maximum height to the top of the canopy of 9’3” with standard tires.

The machine shall have a minimum wheelbase of 7’3”

The machine shall have a maximum overall transport height of 12’9” with standard tires.

The machine maximum overall transport length shall be 24’2”

The machine shall have a maximum width of 8’0” with a multi purpose bucket.

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The machine maximum operating weight shall be 23,570 lbs.

Engine:

The machine shall be Tier III compliant.

The engine shall be protected to a minimum -34 degrees F with extended life antifreeze that needs not be replaced for 5 years.

The engine cooling fan shall have a heavy-duty guard that fully prevents human contact while in operation.

Coolant circulation shall be provided by a gear-driven water pump, not solely belt driven.

The engine shall be equipped with an alternator that has a charging capacity of minimum of 120 amps.

The engine shall be equipped with two maintenance-free 880 CCA batteries group 31.

The engine shall be equipped with a 12-volt direct-electric starting and charging system.

The engine shall have an internally-mounted, dry type, radial-seal, combined replaceable air cleaner and precleaner unit with an air service indicator to monitor air filter condition.

The engine air filter shall have an automatic integrated dust ejection system that prevents more than 95% of the contaminants from embedding in the filter media.

The engine shall have a water/sediment bowl and spin-on type replaceable filter in the fuel system, with water separator service indicator light.

The engine shall have variable-speed, hand and foot governor controls.

The engine shall have a full flow spin-on type oil filter that is vertically mounted below the crankshaft centerline.

The engine shall replaceable valve guides and valve seats for extended service life.

The engine shall come standard with glow plug starting aid for cold weather operation with-out using ether.

The engines Net peak torque at 1400 rpm shall be not less than 299 ft-lb.

The unit shall be equipped with a turbocharged, four cylinder, direct injection diesel engine with high strength, cast iron alloy single block design for high strength and long life.

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The cooling system shall be a high ambient cooling package.

Powertrain/Transmission:

The Transmission, Differentials, and Hydraulics shall have separate fluid reservoirs.

The units 4WD shall be pendulum mounted, grease-free with sealed for life time kingpins, able to be engaged “on-the-go” while under load or any operating condition.

The 4WD guard shall be made by the OEM and provide full coverage between the frame rails to protect the front drive shaft.

The machine shall be able to change direction and travel speed on-the-go

The machine Forward/Reverse shuttle shall be a contact-less unit for reliability.

The machine shall be equipped with a transmission disconnect button on the gear shifter and loader control to allow for full engine power to the loader.

The transmission shall be made, serviced and supported by the machine manufacturer.

The transmission shall have an electric, neutral lock switch on the front console.

The transmission shall have a spin-on type oil filter vertically mounted.

The automatically shifting transmission shall have a manual override switch to allow the operator full control over the gear selection.

The unit shall have a single stage torque converter of on less than 2.63:1 stall ratio.

The unit shall have a high gear speed of on less than 25 mph.

The machine shall have 4 forward gears, 4 reverse gears, and fully synchronized Power-Shuttle transmission couple with electro-hydraulically shifted forward and reverse shuttle clutches.

Steering:

The machine oscillation shall be on less than 0 degrees each side direction from centerline.

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The machine shall have hydrostatic steering.

The steering cylinder shall be double acting with a 52 degree steering angle.

The machine shall have a minimum 4WD cylinder size of 2.56” bore, 8.3” stroke, and 1.42” rod diameter.

Brakes:

Brake mode selector switch shall allow 2WD travel with 4WD automatically engaged for braking.

The parking/secondary brakes shall be independent of the service brake system, allow operator complete control for a modulated stop, and shall be mechanically applied and adjusted from the cab without the need for tools.

The foot-operated brake pedals shall be able to be interlocked for roading.

The service brakes shall be boosted for low pedal efforts.

The service brake shall be completely enclosed and sealed using Kevlar as brake pad media.

The brakes shall be inboard oil-immersed, hydraulically-actuated, multiple discs on final drive input drive shaft.

The service brakes shall be fully self-adjusting.

Hydraulic System:

The hydraulic system shall include high pressure hoses XT-3ES consisting of 4 overlapping insulated spiral wires on all high pressure lines.

The machine shall be able to reach maximum lift capacity at any engine speed.

The machine maximum hydraulic pump pressure shall be at least 3,600 psi for both backhoe and loader.

The hydraulic system shall have a replaceable 5 micron vertically mounted, spin-on filter that is accessible from under the main frame. The system must have an oil cooler.

The hydraulic pump shall be rated at 43 gpm at 2,200 rpm.

The machine shall have a variable displacement load sensing, axial piston pump for low idle lifting .

The hose fitting shall have O-ring face seal connections for maximum seal reliability.

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The hydraulic tank shall be mounted toward the rear of the engine above the pump, enabling the hood of the machine to slope downward for visibility and to keep positive pressure into the pump supply hose.

The supply hose to the pump shall be protected high within the chassis and not vulnerable to puncture.

The backhoe hydraulic lines shall be fastened and constrained from hanging low within the chassis, preventing hose from damage.

All hydraulic hoses restrained by the rubber grommets and steel band clamps shall have full protective coverage by the rubber grommet, preventing cuts and chaffing by the band clamps.

All hose routing shall be in such a way that no chafing protection material is needed around the hoses in any area.

Axles:

Automatic four-wheel braking shall be standard on 4WD unit, enabled by a switch on the console.

The rear axle shall have differential lock with “on-the-go” engagement.

The 4WD front axle shall have a minimum static load rating of 50,582 lbs.

The rear axle shall have a minimum static load rating of 50,582 lbs.

The heavy-duty rear axle shall be semi-floating with self-adjusting inboard brakes.

Wheels:

The machine shall be 4 wheel drive.

The standard tires shall be no less than 12.5/80-18 10PR (front) and 19.5 x 24 12 PR (rear) with radial tires.

The front tires shall ride inside loader bucket cutting width.

Operators Station:

The cab shall be equipped with air conditioning that provides the operator with the choice of fresh outside air drawn through filters or recirculating cab air.

The operator shall have complete control to disable, or lock, the backhoe Pilot Controls with a single switch on the console.

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The backhoe Pilot Controls locking switch shall always indicate the correct state of the Controls, "lock" or "unlocked" and to be lighted when "locked" .

The Pilot Controls for the backhoe shall store away from the operator with a single lever action.

The cab shall be equipped with two doors and five opening windows and flood mat.

The machine shall come standard with horn, audible back-up alarm and electric fuel system shut off.

The operator's compartment shall feature laminated safety glass on the front windshield and tempered glass on all other windows.

The governor pedal shall be hinged and mounted to the floor for maximum pedal positioning control.

The cab shall include factory-installed heater/defroster with multiple speed blower with the control in reach from the front and rear of the machine.

The heating system shall have a minimum rated capacity of 39,920 BTU and be equipped with a 500 cfm fan.

The side instrument panel shall include tachometer, fuel gauge, transmission/converter oil temperature gauge and coolant temperature gauge.

The unit shall have a lighted instrument panel located on the right side of the cab so that it is visible from both loader and backhoe operating positions.

The unit shall include two front and two rear work lights.

The machine shall have stop and turn signals with flashing hazard lamps visible from front and rear.

In addition to head and tail lights, the machine shall include two front and two rear halogen work lights actuated by separate switch.

The electric auxiliary socket shall be available on the roof for connection to items such as a rotating beacon.

A switch, accessible to the operator from the seat, shall control the auxiliary socket, primarily used for beacon operation.

OSHA approved ROPS/FOPS shall be integral with the cab.

The air-suspension seat shall come with a vertical adjustment

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

and adjustable flip-up armrests.

The Operator's compartment shall come equipped with a standard air suspension seat that can be adjusted in the fore/aft position and has a lever that controls the release for rotation at 180 degree swivel from anywhere on a sliding track mechanism.

The standard seat shall be available with cloth covering.

The machine equipped with a standard steering wheel, the seat shall be able to swivel 180 degrees in a single motion contacting the steering wheel or pilot control pods.

The hour meter shall be visible from the ground level.

With doors and windows closed, the unit shall have a maximum operator sound exposure Leq of 78.5 dB (A) According to SAE J1166.

The stabilizer controls shall be pilot operated and conveniently located to the operator's left side/hand.

The steering wheel shall be a tilt steering wheel for operator comfort.

The steering wheel shall come with a standard spinner knob for turning ease.

The machine shall a lockable, vandalism cover will be available which protects the instrument gauge, key switch and electrical switches on the right console.

All rear window sections shall stow over-head, inside the cab for maximum visibility, ventilation and operator comfort.

All rear window sections shall open up-ward and store over-head with outside portion facing up-ward to keep water drop-lets and dirt from falling on operator.

Each side of the cab shall have two windows sharing a common hinge that are of approximately equal size, can be fastened together, then swung to either a front or rear securing point to maximize cross flow ventilation.

The unit equipped with an enclosed cab, front and rear windshield wipers/washers shall be standard.

The machine shall have a AM/FM-CD player.

Loader and Backhoe:

The maximum boom width shall be no wider than 10 ins..

The backhoe shall come standard with a curved boom for its

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The backhoe shall be equipped with a boom lock that can be controlled from the seat.

The Pattern changer shall be available for switching Backhoe and Excavator control patterns with an electric switch, located within the operator's station, and positioned at least 12" away from exterior surfaces.

The backhoe controls shall be available as pilot operated joystick controls with a standard pattern changer for SAE excavator or IOS backhoe control patterns.

The machine shall have switch/harness that gives constant flow to tools such as a broom.

The Integrated Tool-carrier loader shall be controlled by pilot operated controller.

The MP bucket shall be controlled by a purpose designed electro-hydraulic controller.

The machine shall have parallel lift for better load retention and improved material handling.

The loader parallelism must be accomplished mechanically for reliability. Controlling the tilt cylinder for parallelism is not acceptable.

The loader frame/linage shall be of a tool-carrier design including a hydraulic quick coupler actuated from the cab.

Loader shall be equipped with a return-to-dig mechanism.

The operator shall be able to easily remove the loader bucket attachment and quickly couple a fork carriage, material handling arm, broom, or other various attachments without leaving the cab except to connect hydraulic lines.

The loader shall have positive down pressure sufficient to lift the tractor front end off level ground.

The loaders break-out force shall be no less than 10,670 lbs. for a loader equipped with an integral quick coupler for any OEM bucket offered.

The loaders equipped with a quick coupler shall have a lift capacity of no less than 6,418 lbs. at full height with a MP bucket.

The bucket rollback at ground shall be a minimum of 40 degrees.

The bucket dump angle shall be a minimum of 43 degrees.

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The loader shall be equipped with a lift cylinder brace to mechanically hold the loader arms in the raised position.

The loader shall incorporate a steel bumper system between the loader arms and chassis to absorb side loading and reduce pin joint stress in the loader tower.

The loader arm torque tube shall be constructed such that it is welded to each side of each loader arm section, providing maximum strength with minimal weld stress.

The loaders linkage shall incorporate a single, full width main tower pin for maximum strength and load distribution.

The loader arms shall be divergent, widening toward the bucket.

The loader bucket shall be suitable for Multi-purpose with heavy-duty characteristics including high strength wear material.

The loader bucket shall have a two piece bolt-on cutting edge for serviceability.

The loader bucket shall be self-leveling for truck loading spoil and equipped with a bucket tilt indicator.

The machine shall have Auto-up stabilizer controls.

The stabilizer shall be pilot operated for low efforts and located on the side console for easy access whether facing front or rear.

The backhoe shall have stabilizer lock valves as standard equipment.

The flip over stabilizer pads shall have a dirt grouser.

The stabilizer spread in the operating position to the center of the pad shall be at least 10'7'.

The stabilizer shall be able to lift the machine high enough to clear tires, on concrete with street pads.

The swing trunnion shall be supported on each side by three bolts loaded in shear.

Work Tool Options:

The OEM shall offer bucket in 12" and 24" and 40" clean-out bucket.

All buckets shall be equipped with pin-on tooth tips that are exchanged where-by the pin retainers are diagonal or vertical, allowing them to be extracted or inserted with a hammer and punch only.

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The backhoe thumb shall from the factory, with parts and service support from the OEM.

The unit shall come with a Mechanical Quick Coupler for all bucket and other tools.

The machine shall have Transport Tie-Downs.

Serviceability:

All engine oil, transmission oil, hydraulic oil, brake fluid, washer fluid, coolant, engine air filter, and engine monitor shall all be consolidated service points, accessible under the hood with loader arms down.

The water and sediment shall be drained from the fuel/water filter without raising the hood or opening an access panel.

Minimum Service Fill Capacities:

The standard A/C cooling system capacity shall not be less than 4.2 Gallons.

The standard front axle capacity (4 WD) shall not be less than 2 gallons with planetary capacity no less than .2 gals.

The standard rear axle capacity shall not be less than 4.4 gallons.

The standard high-ambient cooling system capacity shall not be less than 4.4 gallons.

The standard engine oil with filter capacity shall be not less than 2 gallons.

The standard fuel tank capacity shall not be less than 34 gallons, providing 10 hours of continuous work at 70% load factor with-out refueling.

The standard hydraulic system capacity shall not be less than 21 gallons.

The standard hydraulic tank capacity shall not be less than 10 gallons.

The standard transmission (4 WD, power shuttle) capacity shall not be less than 4 gallons.

The engine shall have 500 hour oil change interval for lowering operating maintenance cost.

Additional Features:

Minimum Specifications Called For

Check If As Specified

Describe Fully If Not as Specified

The machine shall have Ride-Control, to smooth the ride under all operating conditions.

The machine shall have a on-board system for Site Reference System, along with a Laser Reference System that is programmable to assisting operators.

Manuals:

One fully illustrated service Manual per unit.

One fully illustrated parts manual per unit.

Color to be standard.
