

Invitation for Bids
Moving Equipment
Moultonborough, NH
March 18, 2010



Karel A. Crawford, Chairman
Board of Selectmen

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PLEASE POST

TOWN OF MOULTONBOROUGH

Invitation for Bids

Sealed bids for the provision of various items of motorized equipment/vehicles will be accepted until 4:00 p.m. on Thursday, March 18, 2010 in the Offices of the SelectBoard, 6 Holland Street, PO Box 139, Moultonborough, NH 03254. They will be opened and publicly read aloud at 7:00 p.m. that evening or as soon thereafter as the SelectBoard's agenda allows. You may bid one or more items.

Item 1: Wood Chipper w/12" jaws, Tier 3 Diesel Motor mounted on trailer frame

Item 2: 2010 Ford F550 cab & chassis w/dump body plow package and slide in sander

Item 3: 2010 Police Patrol Cruiser

Item 4: 2010 Rubber Tired Backhoe w/excavation/ditching/loader bucket(s) Tier 3 Diesel Motor

You will provide a quote for a trade-in allowance of certain equipment on each item. Items 1, 2, and 3 are an all cash purchase. Item 4 is to be provided under a lease/purchase agreement. A detailed package with information on the equipment to be delivered, the conditions thereof, and bid forms, is available at www.moultonboroughnh.gov (click on Paid, Volunteer and Contract Openings) or said offices during normal business hours.

The bid on each item is to be submitted in a separate sealed envelope marked, Bid for Motorized Equipment, March 18, 2010, and the item number you are submitting on. If mailed, each bid should be in a separate sealed envelope similarly marked to protect against the actual bid being opened in error. Any questions with respect to this invitation must be received, in writing by mail (above address), by email (cterenzini@moultonboroughnh.gov), or fax (603.476.5835) by Carter Terenzini, Town Administrator, no later than 4:00 p.m. on March 11, 2010. It is the bidder's responsibility to view and account for any addendums relating to this request. These will be posted on the Town web site no later than 4:00 p.m. on March 15, 2010.

The town reserves the right to reject any and all bids, and waive any minor or non-material informalities, if deemed to be in its best interests.

Karel A. Crawford, Chairman/s/
Board of Selectmen

Posted: Town Bulletin Boards (7)
SAU

Advertised: Meredith News & Carroll County Independent 02/25/10 & 03/04/10
Manchester Union Leader: Same Dates

Mailed: Vendors List

Web: Craigslist; winnipesaukee.com; NHLGC

Scope of Work or Specifications and Conditions

1.) General Description of the Project, Materials and Quantities

The Town will procure four pieces of motorized equipment:

Item 1: Wood Chipper w/12” jaws, Tier 3 Diesel Motor mounted on trailer frame

Item 2: 2010 Ford F550 cab & chassis w/dump body, plow package and slide in sander

Item 3: 2010 Police Patrol Cruiser

Item 4: 2010 Rubber Tired Backhoe w/excavation/ditching/loader bucket(s) Tier 3 Diesel Motor

You will provide a quote for a trade-in allowance of certain equipment on each item. Items 1, 2, and 3 are an all cash purchase. Item 4 is to be provided under a lease/purchase agreement.

Item 1 is a cash acquisition. You will quote on the equipment, as specified, with and without a trade in. The trade in is a 1989 Eager Beaver Chipper w/8” jaw & 4 cylinder diesel motor. It is currently in regular use.

Item 2 is a cash acquisition. You will quote on the vehicle, as specified, with and without a trade in. The trade in is a 1997 GMC 2500 ¾ ton 4x4 pick-up truck w/8’ Fisher plow (159K+/- miles) gas powered. It is currently in limited use

Item 3 is a cash acquisition. You will quote on the vehicle, as specified, with and without a one or two vehicles being traded in. The two trade ins are (a) a 2006 Ford Crown Victoria Police Interceptor (114k+/- miles) which is currently sidelined with a transmission problem. s) and (b) a 2005 Ford Crown Victoria Police Interceptor (113k+/- miles) which is currently in regular use.

Item 4 is a lease purchase. You are quoting the actual monthly lease payments on an even monthly amortization schedule over the five year term of the lease. The final purchase price is \$1. You will quote on the equipment, as specified, with and without a trade in. The trade in is a 1989 Case 580 Super L 4*4 backhoe w/thumb/wrist/ditching bucket (5k+/- hrs). It is currently in regular use.

The lease will have an annual “escape” clause in it in case the Town Meeting does not approve the annual funding. There is no known event of this happening in the past.

2.) Specifications & Certification

Item 1: See Attachment A

Item 2: See Attachment B

Item 3: See Attachment C

Item 4: See Attachment D

***Important Note:** If you are submitting a bid that varies in any of the equipment or accessories asked for, you must submit an explanation of this. Explain which Item # you vary on and why.

*** Important Note:** If the specification sheet calls for you to fill in the particulars on any of the equipment so that we may compare manufacturers, you must do so.

3.) Delivery Location and Timing

All items fully furnished and equipped as specified, are to be delivered to the Moultonborough Highway Garage off Moultonborough Neck Road.

You must specify the number of calendar days, from placement of our order, it will take you to deliver the time. Please note below if any equipment is to remain in continued use until the time it is traded in.

4.) Term of Contract

N/A

5.) General Conditions

a.) The Trade in against Item 1 will remain in continued, but limited, use until the date of delivery of the new equipment.

b.) The Trade in against Item 2 will be taken out of service until such time as we accept delivery of the new equipment.

c.) The Trade in against Item 3 will be taken out of service until such time as we accept delivery of the new equipment.

d.) The Trade in against Item 4 will remain in continued use until the date of delivery of the new equipment. If you cannot deliver the new Backhoe within sixty (60) days of an order being placed, you will be required to loan a Backhoe to us for our use that will perform within the same range as the one we are requesting.

e.) If you are in default of this contract you will be given ten (10) days notice to cure the default. You will have an additional ten (10) days to cure the default. If you do not do so we may cancel the contract.

f.) Any cash payment due to you will be paid upon delivery. Any lease payment due to you will be paid starting thirty (30) days **after the commencement of the lease**, and then every month thereafter.

g.) The term “days” shall mean calendar days.

h.) Bidders must include an amortization schedule showing the principal remaining after each lease payment. The Town reserves the right to pay the balance due at any time and terminate the remaining portion of the lease though completing the purchase.

i.) Reserved: ~~If the Town chooses to trade in one or both pieces of moving equipment against the new grader, the monthly lease payment will be reduced by the percentage of the dollar value of the piece(s) being traded in divided by the piece being acquired.~~

j.) Unless otherwise specified, you must provide the standard factory warranty as specified by the manufacturer.

j.) You must have a factory approved service facility within 50 miles of Moultonborough for Items 2, and 3 and within 75 miles for Items 1 & 4.

6.) Questions and Supplements

Any questions with respect to this invitation must be received, in writing by mail (above address), fax (603.476.5835) or email (cterenzini@moultonboroughnh.gov), by Carter Terenzini, Town Administrator, no later than 4:00 p.m. on March 11, 2010.

***Important Note:** The answers, and any other changes or supplements to this document, will be posted on the Town web site as an Addendum no later than 4:00 p.m. on Monday, March 15, 2010. It is the bidder’s responsibility to check and verify any such changes in order to account for them in their bid.

7.) Viewing of Trade-In(s)

You may view the Trade-Ins by making prior arrangements with Mr. Scott Kinmond, Road Agent/Director of Public Works. You may contact him by email at skinmond@moultonboroughnh.gov or by phone at 1.603.253.7445.

8.) Bid Due Date and Methods of Delivery

Bids will be accepted until 4:00 p.m. on Thursday, March 18, 2010 in the Offices of the SelectBoard, 6 Holland Street, PO Box 139, Moultonborough, NH 03254. They will be opened and publicly read aloud at 7:00 p.m. that evening or as soon thereafter as the SelectBoard’s agenda allows.

The bid on each item is to be submitted in a separate sealed envelope marked, Bid for Motorized Equipment, March 18, 2010, and the item number you are submitting on. If mailed, each bid should be in a separate sealed envelope marked, similarly marked to protect against the actual bid being opened in error.

Town of Moultonborough

Moving Equipment

Bid Form

(Please Print or Type)

Name of Bidder: _____

Address: _____

Contact Person: _____
Telephone _____ Fax _____
_____ Email _____

ATTENTION:

Ms. Karel A. Crawford, Chairman
Board of Selectmen
PO Box 139
Moultonborough, NH 03254

Dear Ms. Crawford:

Having examined the documentation provided with the subject Invitation for Bids the undersigned proposes to furnish all materials as requested in accordance with the subject documents.

The undersigned acknowledges Addenda # _____
(If none, write none).

If I am notified my proposal is accepted within forty five (45) days of the bids having been opened, I will execute a contract for the work within fourteen (14) days thereafter.

I propose to provide the following Items for the following unit pricing:

Important Note: If you are not bidding on one of the items write the words "No Bid" In each of the appropriate blank spaces.

Item

Price

1.) Wood Chipper w/12” jaws, Tier 3 Diesel Motor mounted on trailer frame

A. As specified \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

B. Trade in of 1989 Eager Beaver Chipper w/8” jaw & 4 cylinder diesel motor.

\$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

Time for Delivery: I will deliver this equipment within _____ days (In Figures) of your placement of your order.

2.) 2010 Ford F550 cab & chassis w/dump body, plow package and slide in sander

A. Ford F550 as specified \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

B. Trade in of 1997 GMC against A \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

Time for Delivery: I will deliver this equipment within _____ days (In Figures) of your placement of your order.

C. Ford F550 w/ Option #1 Package \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

D. Trade in of 1997 GMC against C \$ _____
(In Figures)

_____ Dollars and _____ Cents

(In Words)

Time for Delivery: I will deliver this equipment within _____ days (In Figures) of your placement of your order.

E. Ford F550 w/ Option #2 Package \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

F. Trade in of 1997 GMC against E \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

Time for Delivery: I will deliver this equipment within _____ days (In Figures) of your placement of your order.

3.) 2010 Police Interceptor

A. As specified \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

B. Trade in of 2006 Ford Crown Victoria against A

\$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

C. Trade in of 2005 Ford Crown Victoria against A

\$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

Time for Delivery: I will deliver this equipment within _____ days (In Figures) of your placement of your order.

4.) 2010 Rubber Tired Backhoe w/excavation/ditching/loader bucket(s) Tier 3 Diesel Motor

A. As specified \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

Important Note: This is a monthly lease price, including all principal and interest, for an even amortization on a five year lease.

B. Trade in of 1989 Case 580 Super L 4*4 backhoe against A.

\$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

Important Note: This is a monthly lease price, including all principal and interest, for an even amortization on a five year lease **if** we trade in the 1989 Case.

C. Quote the monthly amount Item A. is **reduced** for every \$1,000 that we apply in cash to reduce the amortized capital value of the equipment.

\$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

C. Quote the monthly amount Item B. is **reduced** for every \$1,000 that we apply in cash to reduce the amortized capital value of the equipment.

\$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

D. Trade in of 1997 GMC against C \$ _____
(In Figures)

_____ Dollars and _____ Cents
(In Words)

Time for Delivery: I will deliver this equipment within _____ days (In Figures) of your placement of your order.

I understand that the town reserves the right to reject any and all bids, and waive any minor or non-material informalities, if deemed to be in its best interests.

I understand that the Town may hold my bid for forty five (45) days prior to awarding a contract.

I certify, under the penalties of perjury, that (1) I have had an opportunity to view the full bid package and am aware it was my responsibility to perform my own due diligence appropriate to submitting this proposal, (2) I am fully authorized to submit this bid, (3) I have not engaged in discussions, negotiations, or collusion with any person to determine what my bid will be and (4) that I, to the best of my knowledge and belief, have paid all taxes, fees, assessments, betterments or other municipal charges that I owe to the Town of Moultonborough or have payment agreement in place or have filed an appeal over the same.

Signature of Bidder

Corporate
Seal

Title of Bidder

Signed this _____ day of _____, _____.

EXHIBIT A

The following specifications are designed to describe a hand fed pocket drum disc style chipper with hydraulic feed wheels, which is to be a heavy duty industrial grade machine. It shall produce dimensional, landscape quality chip with a 12” (31 cm) chipping capacity. The unit shall comply with applicable requirements of the vehicle code and OSHA. All visual warning devices and decals shall be applied.

I.	ENGINE	<u>Meets</u>	<u>Deviates</u>
	<ul style="list-style-type: none"> a. Tier III Diesel Engine b. Horsepower: Minimum of 80 hp c. Displacement: 4.5 liter or larger d. Alternator: 75 amp minimum e. Fuel Tank: 22 gallon minimum f. Engine warranty: Minimum of 5 yrs g. Air Cleaner indicator 		
II.	<p>DIMENSIONS</p> <ul style="list-style-type: none"> a. Length: 17' 7" maximum b. Height: 8'2" maximum c. Width: 6' d. Weight: 6,300 maximum 		
III.	<p>INSTRUMENT PANEL</p> <ul style="list-style-type: none"> a. Hour Meter b. Start switch, hand throttle c. Ammeter d. Electronic Fuel Gauge- Optional 		
IV.	<p>TRAILER:</p> <p>a. Frame</p> <ul style="list-style-type: none"> 1. Rectangular steel tubing 2' X 4"X 3/16" minimum or larger 2. Heavy duty center beam (4"x4") preferred 3. All welds continuous, both sides and top and bottom 4. Lockable tool box, mounted to frame 		
	<p>b. Tongue:</p> <ul style="list-style-type: none"> 1. 2 1/2 " Pintle hitch 2. Tongue jack with stationary foot pad 3. Telescoping tongue with minimum of 12" adjustment 4. Appropriate safety chains with tensile strength to meet GVW 		
	<p>c. Axle:</p> <ul style="list-style-type: none"> 1. Single axle: minimum of 6000 lb or GVW equivalent 2. Equipped with electric brakes and brake away actuator 		
	<p>d. Tires/Wheels:</p> <ul style="list-style-type: none"> 1. Minimum of: (2) 225/75R/15 with 6 bolt rims 2. Wheels protected by fenders and splash guards 3. Set of wheel chocks and chock holders 		
	<p>e. Electrical:</p> <ul style="list-style-type: none"> 1. Four Function LED Tail lights to meet ICC regulations, all wires protected 2. Amber flashing safety lights in addition to tail lights 3. 7-pin round electrical connector 		

		<u>Meets</u>	<u>Deviates</u>
	<ul style="list-style-type: none"> 4. Tail lights to be double insulated 5. Taillights to be sealed and protected inside steel housing. 6. 12 volt Minimum 1000 CCA battery, within accessible batter box. 		
V.	<p>CHIPPER ASSEMBLY</p> <ul style="list-style-type: none"> a. Chipper Drum: Minimum of 20" diameter or larger b. Knife pockets: 2 knife pocket- minimum of 7 1/4" knife c. Chipper knives (2): must be double edged, interchangeable & and constructed with A-8 steel. Knife must be minimum of 4 1/2" wide, with a thickness of 1/2" for durability. d. Drum Speed: _____ e. Chipper Housing: To assure containment of steel debris in wood waste the lower and upper housing must be constructed with 1/4" steel plates. Upper and lower pinned together for knife access. f. Chipper hood must be equipment with device to prevent engine from running while chipper is open. g. Drum must be capable of being securely pinned to prevent drum rotation while changing knives. 		
VI.	<p>DISCHARGE SYSTEM:</p> <ul style="list-style-type: none"> a. Chip discharge shall be accomplished by a combination of centrifugal force and air created by a separate impeller. b. Discharge to be equipped with a 345 degree (Min) manual cranking swivel at its base. Complete unit will rotate without use of tools. c. Hand adjust deflector at end of discharge. d. Discharge at 84" or more from ground level. e. Discharge attaches to chipper base with one hinge extending width of hood. Folds back for easy access to rear of chipper. f. Side clean out door on discharge chute. 		
VII.	<p>INFEED SYSTEM:</p> <p>a. Infeed Chute</p> <ul style="list-style-type: none"> 1. Opening at Outer edge of infeed to be a minimum of 48"wide X 29" high. Opening tat feed wheel to be a minimum of 15" wide x 12" high. 2. Constructed of 7 gauge steel, top sides, and bottom to feed wheel. 3. Length from feed wheel to ground level to exceed 85" 4. Dual safety pull cables in infeed. 		
	<p>b. Top Feed Wheel:</p> <ul style="list-style-type: none"> 1. Horizontal feed wheel designed to eliminate binding and vine wrapping. Feed wheel area equipped with serrated teeth and or knife bars for positive grabbing of large diameter logs and brushy material. 2. Mounted in a support to allow for entire assembly to travel up to 12" above the infeed bottom. 3. Top feed roller shall have a capacity to be hydraulically raised 	Meet	Deviates

	for access to the anvil by using valve provided. A locking pin shall be provided.		
	c. Bottom Feed Wheel: <ol style="list-style-type: none"> 1. Same as Tope Feed wheel design. 2. Bottom feed wheel shall be driven by a hydraulic motor solidly connected to the feed wheel shaft. The assembly shall be enclosed by metal guards. 		
VIII.	HYDRAULIC SYSTEM: <ol style="list-style-type: none"> a. Tank: Minimum 13 gallon with sight gauge, lockable cap, clean out port for maintenance. b. Hydraulic system filter spin on type. c. Hydraulic motors d. Hydraulic control valve for manual operation of infeed system. e. Safety bar: Feed bar at infeed chute with forward, neutral and reverse feed system positions. Safety bar has stops for forward and reverse positions to protect hydraulic valve spool. f. Unit equipped with a reversing automatic feed system. g. Unit shall be equipped with a heavy duty 3/16" cable winch. 		
IX.	COLOR <ol style="list-style-type: none"> a. Manufacture standard color 		
X.	Misc. <ol style="list-style-type: none"> a. Safety / operation manual or DVD disc. b. Service Manual c. Set-up and delivery to Moultonborough Public Works Facility. 		
	Please explain all deviations:		

EXHIBIT B

Yes	No	2010 Ford F-550 4X4 DRW Cab & Chassis
		141" Wheel base
		Forest Green metallic
		Vinyl bucket seats or 40/CNSL/40 (L)
		Preferred equipment package- (660A)
		XL Trim
		Air Condition
		AM/FM stereo- clock
		6.7L V8 Diesel
		6-speed auto transmission (W/PTO Option)
		225 Max Trac
		4:88 LTD Slip
		XL Décor Package
		Pwr equip group (90L)
		Front License plate bracket
		19500 GVWR Package
		Molded Black step
		Engine block heater
		50 state emission
		Jack
		Art Axle tank
		Dual Alternator
		Front Grille Cover
		Trailer / Snow Plow prep package
		Battery Upgrade (86H)
		Hydro Boost Brake
		Brake Controller
Yes	No	OPTION #1; Accessories
		“Air Flo” 9’ Dump body 3-4 yd , Stainless Steel sander body with ,
		24” cab protector w/ window screen
		34” Center conveyor w/ cover plate rear spreader
		Quick latch tailgate
		Mud flaps front and rear of rear tires
		Safety prop/back-up alarm
		ICC Lights and reflectors
		Body painted Gloss “Black”
		20 Ton Single cylinder hoist,
		Transmission PTO pump central hydraulics system to

		operate dump hoist, front plow, wing and functions; include sander control and plumbing to Spreader.
		Strobe/LED light package (front 360 degrees, 2-rear facing)
		Manual Crank & mesh net tarp
		½” Plate w/ combo receiver hitch, D-rings and trailer plug
		Front hitch with DA lift cylinder, Plow Lights
		Front wing post with slide and trip hinge. Rear-wing weldment.
		Sectional Valve for all functions, cab controls
		FTP108 Power Angle Plow
		HP108 Right hand wing with full trip arms
		2FFL12 sander controls.
Yes	No	OPTION #2; Accessories
		9’ Dump body 3-4 yd steel dump body
		24” cab protector w/ window screen
		Quick latch tailgate
		Mud flaps front and rear of rear tires
		Safety prop/back-up alarm
		ICC Lights and reflectors
		Body painted Gloss “Black”
		20 Ton Single cylinder hoist, Transmission PTO pump central hydraulics system to operate dump hoist, front plow, wing and functions; include sander control and plumbing to Spreader.
		Strobe/LED light package (front 360 degrees, 2-rear facing)
		Manual Crank & mesh net tarp
		½” Plate w/ combo receiver hitch, D-rings and trailer plug
		Front hitch with DA lift cylinder, Plow Lights
		Front wing post with slide and trip hinge. Rear-wing weldment.
		Sectional Valve for all functions, cab controls
		FTP108 Power Angle Plow
		HP108 Right hand wing with full trip arms
		2FFL12 sander controls.
		3-4 yd stainless steel hydraulic sander

EXHIBIT C

2010 Ford Crown Victoria Police Interceptor 3.27 Axle (720A)

Color: White

Cloth: Charcoal Black

Options

- 1) 478 Courtesy Lamp Disable
- 2) 525 Cruise Control
- 3) 45C Limited Slip Differential
- 4) 61K Heated Mirrors
- 5) 51A Drivers Side Spot Lamp
- 6) 96B Color Keyed Body Side Front Door Moldings Uninstalled shipped in trunk
- 7) 948 Rear Power Windows Delete-Driver's Switches only
- 8) 67BRear Door Handles-Inoperative
- 9) 21A Power Drivers Seat
- 10) 53M Radio Suppression Package
- 11) 432 Fleet Keyed Alike (Code 1284)
- 12) Extended 3 Year 1000,000 Mile base care Warranty \$50 Deductable

EXHIBIT D

Rubber Tire 4x4 Loader/Backhoe

MACHINE SPECIFICATIONS

The loader backhoe shall be equipped with the following features and/or specifications:

ENGINE	
Y__N__	4-cylinder, turbocharged diesel engine with a minimum 90 net horsepower at 2,000 RPM.
Y__N__	Engine displacement of 274 cubic inches or greater
Y__N__	Minimum SAE net torque rating of 280 ft-lbs at 1,400 RPM
Y__N__	Minimum torque rise at rated speed of 45%
Y__N__	Engine to be Tier III certified per Federal Emissions Standards
Y__N__	Direct high pressure common rail fuel injection
Y__N__	Internal oil cooler
Y__N__	Integral water pump
Y__N__	Engine shall be equipped with a suction fan
Y__N__	Aspirated dual-stage air cleaner
Y__N__	Cast iron oil pan design
Y__N__	Poly-V belt for fan and alternator
Y__N__	Automatic self-adjusting belt tensioner
Y__N__	Vertical spin-on engine oil filter
Y__N__	Cold weather starting aid Type: _____
Y__N__	110v Engine Coolant Heater (100 watts)
Y__N__	Liquid cooled engine
Y__N__	Equipped with cruise control
Y__N__	500-hour engine oil change interval
ELECTRICAL	
Y__N__	12-volt electrical system
Y__N__	Minimum 90-amp alternator
Y__N__	Cold weather grid heater with dual 12-volt _____ cold cranking amp batteries
FULLY SYNCHRONIZED TRANSMISSION	
Y__N__	Torque converter drive with a fully synchronized transmission
Y__N__	Four forward speeds
Y__N__	Four reverse speeds
Y__N__	Minimum forward travel speed of _____ with standard tires
Y__N__	Electric forward/reverse shuttle shift
Y__N__	Planetary transmission gears
Y__N__	Clutch disconnect button on shift lever
Y__N__	Clutch disconnect button on loader control lever
The powershift transmission shall provide the following:	
Y__N__	Minimum of four forward and three reverse speeds
Y__N__	Auto shift function for ease of operation

POWER TRAIN	
Y__N__	The loader backhoe power train shall be componentized.
Y__N__	Steering shall be hydrostatic
Y__N__	Heavy duty axles with brakes that can be serviced without removing the axle from the frame
Y__N__	On-the-go electro-hydraulic rear differential lock engagement
Y__N__	Lube-for-life drive shaft cross bearings
Y__N__	A single fill and check point for rear axle shall be standard equipment
Y__N__	Limited slip differentials in the front axle
Y__N__	Conventional differentials in the rear axle
Y__N__	Front axle with a minimum 77 inch fixed tread with 12.5 / 80 x 18 tires
Y__N__	On-the-go electrical four-wheel drive engagement
Y__N__	Front and rear axles with outboard planetaries
Y__N__	Single, double-rod steering cylinder
Y__N__	Steering cylinder located behind the axle
Y__N__	Lube-for-life drive shaft cross bearings
The axle load rating shall be:	
Y__N__	Front Axle (4wd) maximum static – 62,000 lbs minimum. Yours; _____
Y__N__	Rear Axle maximum static – 67,000 lbs minimum. Yours; _____
Y__N__	Front Axle (4wd) dynamic operating – 47,426 lbs minimum.. Yours; _____
Y__N__	Rear Axle dynamic operating – 49,494 lbs minimum. Yours; _____
Y__N__	Front Axle (4wd) static operating – 18,969 lbs minimum. Yours; _____
Y__N__	Rear Axle static operating – 19,798 lbs minimum. Yours; _____
BRAKES	
Y__N__	Fully hydraulic, multiple wet disk brakes
Y__N__	Low effort, power boosted, oil cooled brakes
Y__N__	Brakes operated by two, suspended brake pedals
Y__N__	Maintenance-free and self-adjusting
Y__N__	Spring applied, hydraulically released parking brake
LOADER AND LINKAGE FEATURES	
Y__N__	The loader arms shall be heavy duty and in-line, tool carrier design w/ 3 function hydraulics w/ aux plumbing to front
Y__N__	Arch design for short turning circle
Y__N__	Dual parallel lift cylinders
Y__N__	Cushioned loader cylinders
Y__N__	Ride control as standard equipment
The loader linkage shall have the following features:	
Y__N__	Dual parallel bucket cylinders
Y__N__	Single bucket cylinder
Y__N__	Cushioned bucket cylinders
Y__N__	Bucket cylinders with reverse linkage
Y__N__	Dual cast dump links to bucket
Y__N__	Full bucket rollover for dozing

Y ___ N ___	Full bucket rollover for stability in backhoe operation
Y ___ N ___	Automatic bucket self-leveling
Y ___ N ___	Return-to-dig
LOADER BUCKET	
Y ___ N ___	The loader bucket shall be a minimum of 92 inches wide with a 1.25 cubic yard minimum capacity., with bolt on cutting edge and skid plates
Y ___ N ___	Rear bucket rolled wrapper
Y ___ N ___	Pre-drilled edge
Y ___ N ___	Heavy duty lifting eyes
Y ___ N ___	Bucket position indicator
Y ___ N ___	Minimum SAE dump cylinder breakout force of 9,480 pounds force. Yours; _____
Y ___ N ___	Minimum SAE lift capacity to full height of 6,182 pounds. Yours; _____
Y ___ N ___	Minimum SAE dump clearance of 9 feet 2 inches at full height and 45 degree dump angle
Y ___ N ___	Minimum SAE dump reach of 30 inches at full height and 45 degree dump angle
Y ___ N ___	Minimum hinge pin height of 11 feet. Yours; _____
Y ___ N ___	Minimum dig depth below ground of 1.3 inches. Yours; _____
Y ___ N ___	Maximum loader lowering time (power down) of _____ seconds
Y ___ N ___	Maximum loader lowering time (return-to-dig) of _____ seconds
Y ___ N ___	Maximum bucket dumping time of _____ seconds
Y ___ N ___	Maximum bucket raising time to full height of _____ seconds
BACKHOE AND CONTROLS	
Y ___ N ___	The backhoe boom shall be cast and have a five-year warranty
Y ___ N ___	Grease pins in the swing tower to boom base
Y ___ N ___	Replaceable bushings in the swing tower to boom base mounting pins
Y ___ N ___	Boom width maximum of 11 inches
Y ___ N ___	Mechanical bucket coupler
Y ___ N ___	Extendible exterior dipper stick
Y ___ N ___	Extendible dipper stick can be pinned to prevent movement
Y ___ N ___	Internal bolt-on, replaceable wear strip for extendible dipper stick
Y ___ N ___	Minimum 900-pound front-mounted counterweight. Yours: _____
Y ___ N ___	Stabilizers fully retractable within the width of the tires
Y ___ N ___	Over-center backhoe design for improved balance during transport and roading
Y ___ N ___	Integrated hydraulic backhoe coupler with in-cab controls
Y ___ N ___	Pro Control system to provide precise control and eliminate over-swing
Y ___ N ___	Pilot Controls shall be standard equipment
Y ___ N ___	A control pattern change switch mounted on the pilot control column shall be included
Y ___ N ___	Pilot controls must have wrist, infinite distance adjustments with reach of the operator
Y ___ N ___	Pilot Controls shall be equipped with "auto up" stabilizers
BACKHOE BUCKET	
Y ___ N ___	The backhoe bucket shall be heavy duty
Y ___ N ___	24" Digging bucket quick attach
Y ___ N ___	36" Ditching/shaping bucket quick attach
Y ___ N ___	Will fit older model backhoes
Y ___ N ___	Pin-on teeth

OPERATING WEIGHTS	
Y__N__	Lightest configuration weight to equal _____ lbs - machine equipped with 4WD, ROPS canopy, vinyl air suspension seat, 92 inch general purpose loader bucket, 24 inch universal backhoe bucket, extendahoe dipperstick, _____ rear tires, 12.5 X 80/18 front tires, single battery, flip over stabilizer pads, _____ lb counterweight, no operator
Y__N__	Heaviest configuration weight to equal _____ lbs - machine equipped with 4WD, cab, cloth air suspension seat, 92 inch 4in1 loader bucket, 24 inch universal backhoe bucket, extendahoe dipperstick, _____ rear tires, dual batteries, flip over stabilizer pads, _____ lb counterweight, no operator
TRACTOR DIMENSIONS	
Y__N__	Maximum wheel base of 84.5 inches
Y__N__	Maximum transport height of 11 feet 4 inches
Y__N__	Maximum overall transport width of 7 feet 9 inches
Y__N__	Maximum height of 8 feet 11 inches to top of cab / 9 feet 2 inches to top of canopy
Y__N__	Maximum height to top of exhaust stack of 9 feet 2 inches
BACKHOE	
Y__N__	Minimum SAE dig depth with over-center backhoe for 24-inch flat bottom of 14 feet 8 inches (retracted). Yours; _____
Y__N__	Minimum SAE dig depth with over-center backhoe for 24-inch flat bottom of 18 feet 2 inches (extended) Yours; _____
Y__N__	Minimum digging force, bucket cylinder, 12,821 pounds force. Yours: _____
Y__N__	Minimum digging force, dipper cylinder 7,784 pounds force (retracted) / 5,635 (extended)
Y__N__	Maximum stabilizer spread in work position of 11 feet 4 inches
Y__N__	Minimum boom lift capacity at 10 feet of 2,700 lb (retracted) / 1,875 lb (extended). Yours: _____
Y__N__	Minimum boom lift capacity at 12 feet of 2,575 lb (retracted) / 1,850 lb (extended). Yours; _____
Y__N__	Minimum dipper lift capacity at 10 feet of 4,190 lb (retracted) / 2,700 lb (extended). Yours; _____
Y__N__	Minimum dipper lift capacity at 12 feet of 4,360 pounds (retracted) / 2,680 lb (extended). Yours; _____
OPERATOR ENVIRONMENT	
Y__N__	The loader backhoe shall have a cab with two doors
Y__N__	Minimum of four isolation mounts
Y__N__	Insulation for maximum temperature and sound control
Y__N__	Air Conditioning & Heat
Y__N__	Sun Visor shade
Y__N__	AM/FM/WB Stereo w/ digital clock
Y__N__	Sound level maximum of 72 dBa
Y__N__	Suspended brake pedals
Y__N__	Suspended accelerator
Y__N__	Electro-hydraulic differential lock

Y__N__	Transmission shift lever within easy reach of the operator and integrated clutch disconnect button
Y__N__	All glass surfaces free of rubber moldings
Y__N__	Front and rear windshield wipers
Y__N__	Interior dome light
Y__N__	Interior rear view mirror
Y__N__	2- external heated rear view mirrors
Y__N__	Retractable seat belt
Y__N__	Air Ride seat
Y__N__	Built-in molded cup holder
Y__N__	Front console storage area
Y__N__	Single handle loader control with top-mounted clutch cut-out button
Y__N__	Auxiliary loader hydraulic control built into the single handle loader control
Y__N__	Forward/reverse power shuttle lever mounted on the steering column
Y__N__	Parking brake switch located within easy reach to the right of the operator
Y__N__	Operator warning system that alerts the operator with an audible alarm when the parking brake is applied and the operator engages the forward/reverse lever
Y__N__	Instrumentation located to the right of the operator
Y__N__	Minimum of one accessory power plugs
The loader backhoe cab also shall have the following for backhoe operation:	
Y__N__	Easy-to-swing seat to access backhoe controls
Y__N__	Audible alarm to alert operator of transmission engagement when swinging seat
Y__N__	Rotary throttle control located within easy reach to the left of the operator
Y__N__	Auto-up stabilizer controls located together to permit one-hand operation
HYDRAULICS	
Y__N__	The loader backhoe hydraulics shall be closed center and allow for smooth loader and backhoe operation.
Y__N__	Variable volume, axial piston pump that is transmission mounted
Y__N__	Total pump flow to be _____GPM at _____ psi available to the loader valve and backhoe valve
Y__N__	Allows operation of optional hand-held hydraulic tools
Y__N__	Anti-cavitation valves in the dipper and loader circuit
Y__N__	Pilot-operated check valves for stabilizers
Y__N__	Anti-rebound valve for backhoe swing precision
Y__N__	Factory installed backhoe auxiliary hydraulics to be of a uni-direction or bi-direction design with adjustable flow control
SERVICEABILITY	
Y__N__	The loader backhoe shall be easy to service from ground level.
Y__N__	Tilt hood that permits access to the engine with the loader arms raised or lowered
Y__N__	Minimum 40-gallon side-mounted fuel tank
Y__N__	Minimum hydraulic system (total) fill of _____ gallons
Y__N__	Minimum transmission total system fill of _____ quarts (4WD)
Y__N__	Minimum engine oil fill (with filter) of _____ quarts
Y__N__	Minimum _____-gallon hydraulic reservoir (with filter)

Y__N__	Minimum window washer reservoir fill of _____ quarts
Y__N__	Lube for life drive line components
Y__N__	Remote front axle pivot lubrication fitting
Y__N__	_____ hour service interval for engine oil
WARRANTY	
Y__N__	Full machine warranty of 12 months, unlimited hours
Y__N__	48 month or 5,000 hrs extended warranty for Full Machine
Y__N__	36 months / 10,000 hrs extended warranty for Structure-All" Structure component coverage
ADDITIONAL OPTIONS	
Y__N__	Wain Roy Hydraulic Backhoe Wrist
Y__N__	Wain Roy Hydraulic Jaw bucket
Y__N__	Werk-Brau Multi-use hydraulic thumb for use w/ 24" bucket (Aux. elect over Hydraulic)
Y__N__	Quick detach front loader bucket w/aux hydraulics on loader arms for attachments
Y__N__	Total Machine Controls - Electric over hydraulic design
Y__N__	Pilot Controls
Y__N__	Front Fenders