

CITY OF NIAGARA FALLS, NEW YORK

REQUEST FOR BIDS

BID #5-09

Bids on items as specified herein will be accepted at City Hall until 11:00 A.M., and opened at 11:00 A.M. on February 9, 2009.

Bidders must state when delivery can be made.

All bids are subject to delivery as stated herein.

If a bid is submitted on an article intended as a substitute for a grade or brand specified, the bidder must state the grade or brand of the substitution, otherwise it will be assumed that the bid is based on the grade or brand specified.

The City reserves the right to accept this bid by items, or as a whole, or to reject any or all bids or waive informalities.

Bids are to be shown NET. Cash discounts are to be stated, if any.

All bids must be accompanied by the requisite bid bond IF SO STATED IN THE SPECIFICATIONS.

Provision of any required performance bond is the responsibility of the bidder.

Prices must be filled in with typewriter or ink on this form.

THE ENVELOPE CONTAINING THE BID MUST BE SEALED AND CLEARLY MARKED WITH THE BID NUMBER.

Any and all bids and contracts made or awarded by the City of Niagara Falls or any department, agency or official thereof for work or services performed or to be performed, or goods purchased or sold or to be purchased or sold are made subject to the provisions of Chapter 861 of the Laws of New York, 1953, as amended by Chapter 751 of the Laws of New York, and as now contained or as may hereafter be amended. The provisions of the New York State General Municipal Law and 103a and 103b are applicable to this bid.

BIDDER'S ATTENTION IS REQUESTED REGARDING THE FOLLOWING CONDITIONS AND REGULATIONS. BIDS NOT IN COMPLIANCE WITH THE FOREGOING CONDITIONS AND REGULATIONS WILL NOT BE CONSIDERED.

NON-COLLUSIVE BIDDING CERTIFICATION (PURSUANT TO CHAPTER 751 OF LAWS OF NEW YORK, 1965)

By submission of this bid or proposal, the bidder certifies that:

- a) This bid or proposal has been independently arrived at without collusion with any other bidder or with any competitor or potential competitor;
- b) This bid or proposal has not been knowingly disclosed and will not be knowingly disclosed, prior to the opening of bids or proposals for this project, to any other bidder, competitor or potential competitor;
- c) No attempt has been or will be made to induce any other person, partnership or corporation to submit or not to submit a bid or proposal;
- d) The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidders as well as to the person signing on it's behalf;
- e) That attached hereto (if a corporate bidder) is a certified copy or resolution authorizing the execution of this certificate by the signature of this bid or proposal on behalf of the corporate bidder.

(see reverse side for additional information)

COMPANY NAME:

ADDRESS:

TOTAL NET PRICE	DELIVERY PROMISED
CONTACT PERSON FOR QUESTIONS REGARDING BID	TELEPHONE NUMBER
AUTHORIZED SIGNATURE	DATE

TITLE

MAIL BIDS TO:
CITY OF NIAGARA FALLS
PURCHASING DIVISION ROOM 14-B
PO BOX 69
NIAGARA FALLS, NY 14302-0069

DELIVER BIDS TO:
CITY OF NIAGARA FALLS
CITY HALL ROOM 14-B
745 MAIN STREET
NIAGARA FALLS, NY 14302-0069

BIDS SUBMITTED BY FACSIMILE ARE UNACCEPTABLE

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CITY OF NIAGARA FALLS DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS

NEW UNUSED 2009 MODEL YEAR WHEEL LOADER

Please indicate "YES" or "NO" if the equipment being bid complies with each specification. If "NO", please describe variance in the exception column. If the item being bid exceeds any specification, check "NO" and describe the variance in the exception column.

GENERAL:	YES	NO	EXCEPTION
1. It is the intent of this specification to describe the purchase of one new unused three cubic yard wheel loader.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Machine modifications to meet operational and capacity requirements of this specification shall be limited to the manufacturer's published standard and optional equipment. All operating specifications are based on current SAE standards and shall be the basis for determining compliance with specified requirement. The loader shall meet all OSHA and Tier III EPA requirements in effect on the date of bid opening.	<input type="checkbox"/>	<input type="checkbox"/>	
3. All parts not specifically mentioned which are necessary to provide a complete and operational unit, ready for use upon delivery, shall be included in the bid and shall conform in strength and quality of material and workmanship to what is provided to the trade in general.	<input type="checkbox"/>	<input type="checkbox"/>	
DELIVERY:	YES	NO	EXCEPTION
1. The City of Niagara Falls requires delivery of this equipment as soon as possible but not later than 90 days after receipt of purchase order. At time of delivery to the City, the successful bidder shall make, at his own expense, any adjustments or alterations that may be required by the City of Niagara Falls to conform to these specifications as a result of the operation test. The complete unit shall be delivered FOB City of Niagara Falls, to its facility located at 1785 New Road, Niagara Falls, NY 14304. There will be a \$100.00 per day penalty for each past day.	<input type="checkbox"/>	<input type="checkbox"/>	
INFORMATION TO BE FURNISHED:	YES	NO	EXCEPTION
1. Bidder shall submit with his bid, detailed specifications and/or drawings, along with complete description, including pictures and all other pertinent data on the equipment he proposes to furnish.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Bids offered without said data may be considered "informal." The City, however, reserves the right to request additional information deemed necessary for proper evaluation of bids.	<input type="checkbox"/>	<input type="checkbox"/>	

SERVICING:	YES	NO	EXCEPTION
1. Unit shall be delivered completely serviced, which shall include not less than the following: lubrication, all fluid levels, conditioning and all other checks and adjustments required for proper, complete servicing of new equipment. It shall be the successful bidder's responsibility to ensure at that time that all components and accessories have been properly installed and that the unit is complete and operational.	<input type="checkbox"/>	<input type="checkbox"/>	
GUARANTEES AND WARRANTY:	YES	NO	EXCEPTION
1. The manufacturer hereby warrants and guarantees for a period of six (6) months from the date of final acceptance, he will at his own expense and without any cost to the City, replace all defective parts and make any repairs that may be required or made necessary by reason of deflection design, material, workmanship, or by reason of non-compliance with these specifications. Any warranty offered by the manufacturer, over and above this six (6) month minimum warranty, shall be deemed part and parcel of these specifications. Warranty shall be non-declining type. Bidder shall provide 60 month or 5,000 hour power train and hydraulic coverage.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Bidders shall furnish a copy of the standard warranty, with their proposal.	<input type="checkbox"/>	<input type="checkbox"/>	
3. If the successful bidder's facility is located more than ten (10) road miles from the City of Niagara Falls Central Garage, he will assume, at his own expense, all transportation costs in moving the equipment supplied under this proposal, to and from his facility, where warranty and/or repair work is to be performed.	<input type="checkbox"/>	<input type="checkbox"/>	
ENGINE:	YES	NO	EXCEPTION
1. 6 Cylinder.	<input type="checkbox"/>	<input type="checkbox"/>	
2. 6.8 L.	<input type="checkbox"/>	<input type="checkbox"/>	
3. 617 LB-FT net peak torque at 1,600 RPM 198 HP SAE net peak at 1,800 RPM.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Turbocharged torque rise of 55%.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Automatic glow plugs.	<input type="checkbox"/>	<input type="checkbox"/>	
6. Air cleaner, dry dual safety element dry type with restriction indicator and centrifugal Pre Cleaner.	<input type="checkbox"/>	<input type="checkbox"/>	
7. 500 hour full flow spin on oil filter.	<input type="checkbox"/>	<input type="checkbox"/>	
8. Electronically controlled fuel system.	<input type="checkbox"/>	<input type="checkbox"/>	
9. Under hood prescreened air intake.	<input type="checkbox"/>	<input type="checkbox"/>	
10. Under hood muffler with curved exhaust stack.	<input type="checkbox"/>	<input type="checkbox"/>	
11. Dual stage fuel filter & water separator - 10 Micron.	<input type="checkbox"/>	<input type="checkbox"/>	
12. Heavy duty cooling, trash resistant high ambient cooling, integral engine oil cooler with hydraulic oil cooler (oil to air.)	<input type="checkbox"/>	<input type="checkbox"/>	
13. Transmission oil cooler (oil to air.)	<input type="checkbox"/>	<input type="checkbox"/>	

ENGINE - CONTINUED:	YES	NO	EXCEPTION
14. Inter cooler (air to air.)	<input type="checkbox"/>	<input type="checkbox"/>	
15. Coolant recovery tank.	<input type="checkbox"/>	<input type="checkbox"/>	
16. Hydraulically driven automatic reversing fan drive with manual over-ride, swing out fan.	<input type="checkbox"/>	<input type="checkbox"/>	
17. Enclosed fan safety guard.	<input type="checkbox"/>	<input type="checkbox"/>	
POWER TRAIN:	YES	NO	EXCEPTION
1. Torque converter - power shift type transmission, four speed forward, three speed reverse, electronically controlled adaptive loader and speed dependent shift modulation.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Electronic quick shift button with two selectable modes.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Automatic transmission shift feature with two selectable modes.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Transmission clutch disconnect feature with three selectable settings.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Front hydraulically locking differential axles inboard mounted HD planetary gears.	<input type="checkbox"/>	<input type="checkbox"/>	
6. Front and rear brakes self adjusting HD wet disk oil bathed, inboard-mounted, hydraulically actuated power brakes.	<input type="checkbox"/>	<input type="checkbox"/>	
7. Parking brake is automatic spring applied hydraulically released wet disc switch operated.	<input type="checkbox"/>	<input type="checkbox"/>	
8. Integral transmission sight gauge and fill tube.	<input type="checkbox"/>	<input type="checkbox"/>	
9. 2,000 hour transmission filter.	<input type="checkbox"/>	<input type="checkbox"/>	
10. Forward max speed 24.5 MPH.	<input type="checkbox"/>	<input type="checkbox"/>	
HYDRAULICS:	YES	NO	EXCEPTION
1. Pressure compensating load sensing hydraulic system.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Automatic return to dig control for bucket.	<input type="checkbox"/>	<input type="checkbox"/>	
3. In cab adjustable automatic boom height kickout-return to carry.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Hydraulic implement lever lock-out.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Hydraulic reservoir with sight gauge, vertical spin on main filter.	<input type="checkbox"/>	<input type="checkbox"/>	
6. Power steering (two cylinders) and .40 degree articulation to each side, rubber cushion stops on frame.	<input type="checkbox"/>	<input type="checkbox"/>	
7. Maximum flow @ 2,350 RPM 59 GPM @ 1,000 PSI.	<input type="checkbox"/>	<input type="checkbox"/>	
8. Loader & steering relief pressure 3,600 PSI.	<input type="checkbox"/>	<input type="checkbox"/>	
9. Articulation angle 80 degree arc (40 degrees each direction.)	<input type="checkbox"/>	<input type="checkbox"/>	
10. Hydraulic cycle times. Raise 5.9 sec., dump 1.3 sec., lower 2.7 sec., total 9.9 sec.	<input type="checkbox"/>	<input type="checkbox"/>	
11. Maximum lift capacity with 3.0 cubic yard bucket lift at ground level 30,958 LB lift at maximum height 17,305 LB.	<input type="checkbox"/>	<input type="checkbox"/>	
12. Turning radius 17' 4".	<input type="checkbox"/>	<input type="checkbox"/>	
13. Ride Control System.	<input type="checkbox"/>	<input type="checkbox"/>	
14. Shall have joystick controls, one lever controlling clam bucket open/close and bucket roll back/dump. Second joystick control, controls raise & lower boom.	<input type="checkbox"/>	<input type="checkbox"/>	

ELECTRICAL:	YES	NO	EXCEPTION
1. 24 Volt electrical system.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Solid state electrical power distribution system.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Alternator 80 amp.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Two heavy duty batteries, 950 cold cranking amps, 200 minute reserve each.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Master electric disconnect switch.	<input type="checkbox"/>	<input type="checkbox"/>	
6. Battery terminal safety covers.	<input type="checkbox"/>	<input type="checkbox"/>	
7. By pass start safety cover at starter.	<input type="checkbox"/>	<input type="checkbox"/>	
8. Starting switch with electric fuel shut off.	<input type="checkbox"/>	<input type="checkbox"/>	
9. Two front and two rear work lights with guards.	<input type="checkbox"/>	<input type="checkbox"/>	
10. Heavy duty rear LED lights, stop, tail, turn & flashers.	<input type="checkbox"/>	<input type="checkbox"/>	
11. Amber strobe double flashing two forward facing two rear facing.	<input type="checkbox"/>	<input type="checkbox"/>	
12. Electric horn.	<input type="checkbox"/>	<input type="checkbox"/>	
13. Reverse warning alarm.	<input type="checkbox"/>	<input type="checkbox"/>	
14. Engine block heater.	<input type="checkbox"/>	<input type="checkbox"/>	
15. 10 amp converter with 12 Volt power port.	<input type="checkbox"/>	<input type="checkbox"/>	
16. Computerized multi-function monitor.	<input type="checkbox"/>	<input type="checkbox"/>	
17. Hydraulic oil temperature gauge.	<input type="checkbox"/>	<input type="checkbox"/>	
18. Engine coolant temperature gauge.	<input type="checkbox"/>	<input type="checkbox"/>	
19. Transmission oil temperature gauge.	<input type="checkbox"/>	<input type="checkbox"/>	
20. Engine oil pressure gauge.	<input type="checkbox"/>	<input type="checkbox"/>	
21. Fuel level gauge.	<input type="checkbox"/>	<input type="checkbox"/>	
ELECTRICAL - DIGITAL INSTRUMENTS:	YES	NO	EXCEPTION
1. Engine RPM.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Transmission gear indicator.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Hour meter.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Speedometer.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Odometer.	<input type="checkbox"/>	<input type="checkbox"/>	
ELECTRICAL - OPERATOR WARNING LIGHTS:	YES	NO	EXCEPTION
1. Check engine.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Engine oil pressure.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Engine air filter restriction.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Battery voltage.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Transmission oil filter restriction.	<input type="checkbox"/>	<input type="checkbox"/>	

ELECTRICAL - OPERATOR WARNING LIGHTS - CONTINUED:	YES	NO	EXCEPTION
6. Transmission fault.	<input type="checkbox"/>	<input type="checkbox"/>	
7. Brake pressure.	<input type="checkbox"/>	<input type="checkbox"/>	
8. Hydraulic oil temperature.	<input type="checkbox"/>	<input type="checkbox"/>	
9. Hydraulic oil filter restriction.	<input type="checkbox"/>	<input type="checkbox"/>	
10. Built in diagnostics.	<input type="checkbox"/>	<input type="checkbox"/>	
DIMENSIONS & CAPACITIES:	YES	NO	EXCEPTION
1. Full turn (40 degree) tipping load of 23,700 lb.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Straight tipping load of at least 27,500 lb.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Clearance circle of no greater than 40 feet 7 inches.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Minimum ground clearance of 15 inches.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Height to hinge pin of at least 13 feet.	<input type="checkbox"/>	<input type="checkbox"/>	
6. Minimum operating weight as equipped of 34,000 lb.	<input type="checkbox"/>	<input type="checkbox"/>	
ROPS QUIET CAB:	YES	NO	EXCEPTION
1. Heat.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Air conditioner.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Defroster and pressurizer.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Deluxe seat, cloth covered, high back, air suspension, adjustable for weight-height, fore-aft position, backrest tilt, and arm-rest angle.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Front and rear intermittent windshield wipers and washers.	<input type="checkbox"/>	<input type="checkbox"/>	
6. One inside and two outside rear view mirrors.	<input type="checkbox"/>	<input type="checkbox"/>	
7. Left and right rear side window open for ventilation.	<input type="checkbox"/>	<input type="checkbox"/>	
8. AM/FM WB radio with speakers & antenna.	<input type="checkbox"/>	<input type="checkbox"/>	
9. Cab sun visor.	<input type="checkbox"/>	<input type="checkbox"/>	
10. Tinted safety glass.	<input type="checkbox"/>	<input type="checkbox"/>	
11. Rubber floor mat.	<input type="checkbox"/>	<input type="checkbox"/>	
12. Operator's manual and storage compartment.	<input type="checkbox"/>	<input type="checkbox"/>	
13. Ash tray.	<input type="checkbox"/>	<input type="checkbox"/>	
14. Dome light.	<input type="checkbox"/>	<input type="checkbox"/>	
15. Tilt steering column.	<input type="checkbox"/>	<input type="checkbox"/>	
16. Slip resistant step and ergonomically located handholds.	<input type="checkbox"/>	<input type="checkbox"/>	
17. Steering wheel with spinner knob.	<input type="checkbox"/>	<input type="checkbox"/>	
18. License plate bracket and light.	<input type="checkbox"/>	<input type="checkbox"/>	
19. Joystick wrist armrest.	<input type="checkbox"/>	<input type="checkbox"/>	

TIRES:	YES	NO	EXCEPTION
1. Front: 20.5 R25 radial.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Rear: 20.5 R25 radial.	<input type="checkbox"/>	<input type="checkbox"/>	
FUEL CAPACITY:	YES	NO	EXCEPTION
1. Fuel capacity: 90 gallons.	<input type="checkbox"/>	<input type="checkbox"/>	
COLOR:	YES	NO	EXCEPTION
1. Yellow.	<input type="checkbox"/>	<input type="checkbox"/>	
ATTACHMENTS:	YES	NO	EXCEPTION
1. All buckets, forks and plows to be equipped with a JRB or equal quick coupler.	<input type="checkbox"/>	<input type="checkbox"/>	
2. One JRB or equal multi-purpose four in one bucket shall be all welded steel construction for heavy duty service, which has four functions (dig/load, scrape, bulldoze & clam/grab - 3 rd function) predrilled/punched for cutting edge with replaceable edge, 2.5 yard capacity.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Hydraulic control system for quick coupler locking pins, includes all controls in cab, lines and valves.	<input type="checkbox"/>	<input type="checkbox"/>	
4. 60" coupler fork frame carriage with 60" tines.	<input type="checkbox"/>	<input type="checkbox"/>	
MULTI SECTION PLOW - MF 3.4: Plows offered must be the manufacturer's current model and conform to the following specifications. Prototype or experimental models will not be considered. Production units of the same model must have been sold in substantial quantities for a minimum of two years prior to the bid opening date. Complete descriptive literature and the attached questionnaire completed must be returned with the bid. Successful bidder must have a service facility within 75 miles of the City of Niagara Falls, NY. Plow must come equipped with quick coupler for easy changing of attachment.			
MOLDBOARD:	YES	NO	EXCEPTION
1. The plow shall consist of four (4) independent moldboard sections.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Independently spring loaded to the ground.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Enabling the plow to negotiate varying ground obstacles by guiding the individual moldboard sections upward without tilting forward.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Design shall be such that the shock of impact is absorbed by the individual section and that blade section only.	<input type="checkbox"/>	<input type="checkbox"/>	
5. The shock of the moldboard raising shall be absorbed by two (2) "Vulcolan" shock absorbing bumpers mounted to the central frame behind each moldboard section.	<input type="checkbox"/>	<input type="checkbox"/>	
6. After clearing the obstacle, the cutting edge shall immediately move back into clearing position, and the affected section shall be pushed against the surface of the roadway.	<input type="checkbox"/>	<input type="checkbox"/>	
7. The highest obstacle height able to be negotiated shall be six (6) inches.	<input type="checkbox"/>	<input type="checkbox"/>	
8. Upon encountering obstacles up to this height, the snow plow shall still clear close to the ground over its entire length, and only the affected section will respond to the obstacle.	<input type="checkbox"/>	<input type="checkbox"/>	

MOLDBOARD - CONTINUED:	YES	NO	EXCEPTION
9. The plow shall include means for stabilizing the operational height when body sections are deflected until the section again returns to normal position and takes over control.	<input type="checkbox"/>	<input type="checkbox"/>	
10. The plow shall have "weld on" curb protection shoes on left and right for protection when bumping curbs, sidewalks, and other high borders which are difficult to locate under the snow.	<input type="checkbox"/>	<input type="checkbox"/>	
11. The plow shall be equipped with four (4) replaceable ¾" x 6" cutting edge sections (one per moldboard section) that are heat treated to 57-67 Rockwell "C", and that in the plowing position operate at 25 degrees from the vertical.	<input type="checkbox"/>	<input type="checkbox"/>	
12. There shall be four (4) holes in each cutting edge spaced 1" from the top and 7 7/8" apart.	<input type="checkbox"/>	<input type="checkbox"/>	
13. The moldboard material shall be 50,000 PSI yield 10 gauge minimum.	<input type="checkbox"/>	<input type="checkbox"/>	
14. Each section of moldboard shall be 31.5" long.	<input type="checkbox"/>	<input type="checkbox"/>	
15. Each moldboard section shall have four (4) vertical ribs made of 50,000 PSI yield, 5/16" thick material.	<input type="checkbox"/>	<input type="checkbox"/>	
16. Each moldboard section shall also have one horizontal rib of 2-1/2" x 2-1/2" x ¼" x 34-7/8" steel angle, and shall have an angle of 2-1/2" x 3" x 3/8" steel where the cutting edge shock absorbing plate is attached.	<input type="checkbox"/>	<input type="checkbox"/>	
17. The cutting edge shall not be attached to the moldboard directly. It shall be attached to the bottom of the moldboard through a shock absorbing plate made of "Vulcolan" material. This Vulcolan material shall be 1-1/8" thick by 5" wide by 30.25" long, shall be one piece per moldboard section, and shall allow the cutting edge to trip without the moldboard laying forward.	<input type="checkbox"/>	<input type="checkbox"/>	
18. The moldboard sections shall pivot on a parallelogram linkage during tripping on four (4) 303 stainless steel pins of .787 diameter. The parallelograms shall consist of glass reinforced nylon links (two per section with molded in nylon bushings) on the top, and die cast aluminum links (two per section with molded in steel inserts) on the bottom.	<input type="checkbox"/>	<input type="checkbox"/>	
19. The lower aluminum links shall have replaceable non-lubricated nylon bushings at the pivot points. This parallelogram linkage system shall be capable of heavy snow plowing under severe conditions.	<input type="checkbox"/>	<input type="checkbox"/>	
20. The moldboard sections of the plow shall be not less than 41" high.	<input type="checkbox"/>	<input type="checkbox"/>	
21. The moldboard sections shall have a continuous steel snow deflector that has a minimum overhang of the cutting edge of 13" when the plow is at the proper plowing position.	<input type="checkbox"/>	<input type="checkbox"/>	
22. The length of the plow shall be 10' 6".	<input type="checkbox"/>	<input type="checkbox"/>	
RETURN SPRING:	YES	NO	EXCEPTION
1. Each moldboard section shall be equipped with two (2) 2.7" diameter x 14" long extension springs made of .354" diameter wire that will exert the proper downward pressure of the moldboard sections to the ground assuring maximum adaptation to the road surface.	<input type="checkbox"/>	<input type="checkbox"/>	

HYDRAULIC REVERSING:	YES	NO	EXCEPTION
1. The plow shall be equipped with telescoping type hydraulic cylinders enabling the plow to be angled either left, right, or straight ahead.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Maximum angle to the left or right shall be 32 degrees.	<input type="checkbox"/>	<input type="checkbox"/>	
3. The hydraulic cylinders shall have hard chrome plated rods with .0014" per side of chrome.	<input type="checkbox"/>	<input type="checkbox"/>	
4. The cylinders shall be 19.29" long from center mounting hole to center of mounting hole when retracted and shall have a stroke of 19.68".	<input type="checkbox"/>	<input type="checkbox"/>	
5. The cylinders shall be heavy duty to allow for heavy snow plowing under severe conditions and shall be equipped with a hydraulic cushion valve mounted on the plow to protect the cylinders from damage.	<input type="checkbox"/>	<input type="checkbox"/>	
6. The cylinder mounting holes shall be 1" diameter for use with 63/66" diameter pins.	<input type="checkbox"/>	<input type="checkbox"/>	
7. The hydraulic port in the angling cylinders shall be 3/4-16 standard straight 'a' ring thread.	<input type="checkbox"/>	<input type="checkbox"/>	
8. The hoses used shall be standard 1/2" SAE 100R2 rated.	<input type="checkbox"/>	<input type="checkbox"/>	
9. Hydraulic hoses from plow to the wheel loader shall be standard 1/2" SAE 100R2 rated, with Aeroquip quick disconnect couplings for easy connecting and disconnecting.	<input type="checkbox"/>	<input type="checkbox"/>	
TIRES:	YES	NO	EXCEPTION
1. Tires: The plow shall have operational pneumatic caster wheels which may be vertically adjusted by means of a 1-1/8"-5 acme screw. Each of the caster wheels shall be mounted with two (2) 63/63" diameter by 6-7/8" long pins.			
ACCESSORIES:	YES	NO	EXCEPTION
1. 5 LB fire extinguisher mounted outside cab, left side, with weather protection cover.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Full set of parts manuals.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Full set of operator's manuals.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Full set of repair manuals.	<input type="checkbox"/>	<input type="checkbox"/>	
5. Kenwood Model TK762G two-way radio installed.	<input type="checkbox"/>	<input type="checkbox"/>	
TRADE IN:			PRICE:
The City intends to trade in two used wheel loaders, a 1986 Caterpillar Model 936 wheel loader, VIN #33Z01689 (in AS IS condition,) a 1985 Caterpillar Model 936 wheel loader, VIN #33Z01412 (in AS IS condition.)			