

**VILLAGE OF CHATHAM, ILLINOIS**

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**ORDINANCE NO. 05 - 14**

**AN ORDINANCE APPROVING A  
BID FOR A TRACK LOADER**

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**ADOPTED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE  
VILLAGE OF CHATHAM, ILLINOIS THIS 12<sup>TH</sup> DAY OF APRIL, 2005**

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Published in pamphlet form by the authority of the President and Board of Trustees of the Village of Chatham, Sangamon County, Illinois, this 12<sup>TH</sup> day of April 2005.

ORDINANCE NO. 05-14

AN ORDINANCE APPROVING A BID FOR A TRACK LOADER

WHEREAS, the Village of Chatham Electric Department notified manufacturers and advertised in a newspaper of local circulation for two consecutive weeks to obtain bids for a Track Loader; and

WHEREAS, on April 12, 2005 at 1:00 p.m. the attached bids were opened and the lowest responsible bidder identified; attached Bid Summary; and

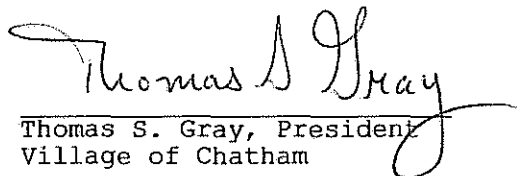
WHEREAS, the staff as reviewed the bids in detail and is recommending the lowest bid from Altorfer, Inc. The purchase was budgeted for the current fiscal year in line 600-101-445-03.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF CHATHAM, ILLINOIS, AS FOLLOWS:

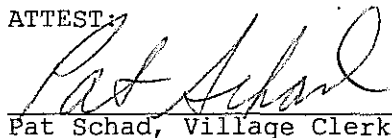
SECTION 1: That the bid from Altorfer, Inc. for \$43,394 is hereby approved.

SECTION 2: This Ordinance is effective upon its passage and approval.

PASSED THIS 12<sup>th</sup> DAY OF APRIL, 2005.

  
Thomas S. Gray, President  
Village of Chatham

ATTEST:

  
Pat Schad, Village Clerk

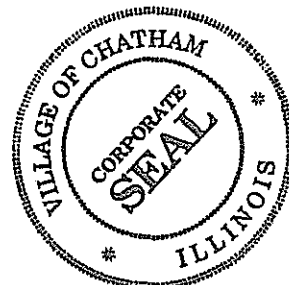
AYES: 5 HERR, McADAMS, BUCKLE, Mc CARTHY, KAUNANAH

NAYS: 0

ABSENT: 1 McFRATH

PASSED: 4-12-05

APPROVED: 4-12-05



**ORDINANCE CERTIFICATE**

STATE OF ILLINOIS     )  
                                  )  SS.  
COUNTY OF SANGAMON   )

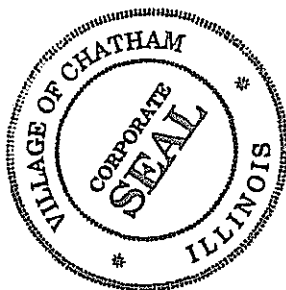
I, the undersigned, do hereby certify that I am the duly qualified and acting Village Clerk of the Village of Chatham, Sangamon County, Illinois.

I do further certify that the Ordinance attached hereto is a full, true, and exact copy of Ordinance No. 05-14, adopted by the President and Board of Trustees of said Village on the 12<sup>th</sup> day of April, 2005, said Ordinance being entitled:

**AN ORDINANCE APROVING ABID FOR A TRACK LOADER**

I do further certify that prior to the making of this certificate, the said Ordinance was spread at length upon the permanent records of said Village, where it now appears and remains.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of said Village this 12<sup>th</sup> day of April, 2005.



*Pat Schad*  
Pat Schad, Village Clerk

<u>Dealer</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Bid Price</u>
Altorfer	Caterpillar	287B	\$43,394.00
Martin Equipment	Takeuchi	TL140	\$44,795.00
Vermeer	ASV	RC-100	\$50,720.00
Vermeer	ASV	RCV	\$52,740.00

**ALTORFER**



**Altorfer Inc.**  
4200 Rodger Street  
Springfield, Illinois 62703

217.529.5541  
fax 217.529.0020  
www.altorfer.com

Village of Chatham  
116 E. Mulberry  
Chatham, Il 62629

Attn: Shane Hill

Sealed Bid, Track Loader

**BID**

One new Caterpillar Model 287B Multi Terrain Loader with the following optional equipment:

Hydraulics, On/Off - Deluxe  
Control, 1 spd, horn, wt, deluxe  
Quick Coupler, Hydraulic  
Belt, Seat, 2" Suspension  
Door, Cab, Polycarbonate  
Self Leveling Feature  
78" Bucket  
48" Forks

Includes freight, service manuals and a Total machine warranty for 12 months/1500 hours. This warranty does not include travel time and mileage.

**TOTAL BID PRICE \$43,394**

## RUBBER TRACK MULTI SURFACE LOADER

Mark an X if you meet specification and N if you do not.

### ENGINE

- Y  N  Engine shall be designed and built by the machine manufacturer.
- Y  N  Engine shall be direct fuel injected, turbocharged, liquid cooled and shall have four cylinders.
- Y  N  Engine shall have a total displacement of not less than 3.3 L (201 in<sup>3</sup>).
- Y  N  Engine net flywheel power shall be at least 58 kW (78 hp) according to SAE J1349.
- Y  N  The engine shall be equipped with an alternator that has a charging capacity of at least 90 amperes.
- Y  N  Glow plugs shall be provided for improved starting in cold weather (not ether starting aid).
- Y  N  Air filtration shall be accomplished via a radial seal air cleaner with a secondary backup. The air intake system shall include a pre-cleaner, as well as a convenient in-cab air flow restriction indicator.
- Y  N  The radiator must not have any other cooler or condenser mounted on top or below, restricting cooling capability.
- Y  N  The engine and hydraulic oil coolers shall have an ambient temperature cooling capacity of 43° C (109° F).
- Y  N  The cooling fan and radiator shall be able to tilt-up via a gas strut, allowing easy access to the engine.
- Y  N  The cooling system shall pull air in from both sides of the machine, directing it away from the operator and site bystanders.
- Y  N  The cooling fan shall not be belt driven, but should be powered by a hydraulic motor that maintains constant airflow and fan speed, regardless of engine speed.
- Y  N  The machine shall have a speed-sensing valve that automatically de-strokes the hystat pump to reduce the chance of stalling the engine during lugging.

### DRIVE TRAIN / UNDERCARRIAGE

- Y  N  Two hydrostatic axial piston drive pumps shall be splined directly to the engine via a flexible coupling for maximum efficiency, reliability and serviceability.
- Y  N  Hydrostatic drive pumps shall be contained in a mono-block housing for maximum reliability and durability.
- Y  N  The track shall consist of molded rubber with composite reinforcement and shall contain no steel, in order to eliminate the possibility of corrosion-based failures.
- Y  N  The undercarriage shall not be directly mounted to the machine frame, but shall instead be suspended on a torsion axle suspension system in order to minimize machine stresses and maximize traction.
- Y  N  The drive system shall be of an internal positive drive type, designed to eliminate the steel on steel contact of tooth and sprocket engagement, and shall instead consist of a system in which stationary inner pins with external roller sleeves drive molded composite rubber lugs internal to the track.
- Y  N  Machine shall have a minimum ground clearance of no less than 283 mm (11 in).
- Y  N  Machine ground pressure shall not exceed 26 kPa (3.8 psi).
- Y  N  Machine weight shall be evenly distributed across the entire width and length of the track via multiple sets of rollers to disperse pressure and maximize traction and flotation.
- Y  N  Machine shall have a spring applied, hydraulically released parking brake that shall automatically engage when arm bar is raised, and shall be designed to hold machine static at any point on a 2 to 1 slope.
- Y  N  Undercarriage shall consist of an open design that allows easy cleaning of components.

## ELECTRICAL SYSTEMS

- Y  N The machine shall have braided, color-coded and numbered wiring harness for easy diagnostics.
- Y  N The machine shall have sealed pin connectors to prevent dirt and moisture infiltration.
- Y  N The machine shall be equipped with a battery that has at least 12 volts and 650 CCA for cold start capabilities in 0° C (32° F) climate.
- Y  N The machine shall have a main system relay with 105 amp circuit breaker protection to prevent fires.

## HYDRAULIC SYSTEMS

- Y  N The machine shall be equipped with a single, hydraulically operated joystick that controls the lift, lower and tilt functions.
- Y  N The machine shall be equipped with a single, hydraulically operated joystick that controls the forward/reverse and steering directions.
- Y  N The pump flow of the machine shall be at least 83 L/min (22 gal/min).
- Y  N The hydraulic pressure of the machine shall be at least 23,000 kPa (3,335 psi).
- Y  N The hydraulic horsepower of the machine shall be at least 31.9 kW (42.8 hp).
- Y  N Machine shall be equipped with auxiliary hydraulics activated by a thumb switch located on the right joystick.
- Y  N The machine shall have a hydraulic oil tank capacity of at least 35 L (9.2 gal).
- Y  N The machine shall be equipped with a hydraulic tank that has an anti-cavitation loop.
- Y  N The machine shall be equipped with a hydraulically driven fan, eliminating maintenance costs and friction losses associated with a belt.
- Y  N The machine shall be equipped with hydraulic pressure hoses that must have four steel spiral wraps with burst protection of at least 27,560 kPa (4,000 psi).
- Y  N The hydraulic hoses shall be protected with anti-chaff material and shall be secured to the machine frame.

## OPERATOR STATION

- Y  N The machine shall be equipped with deep skid-resistant, self-cleaning steps.
- Y  N The machine shall have no foot controls used to operate loader arm, tilt function or auxiliary hydraulics.
- Y  N The machine shall be equipped with both a hand and foot throttle.
- Y  N The machine shall have a retractable seat belt.
- Y  N The machine shall come standard with an arm bar for added operator comfort and safety.
- Y  N The machine shall be equipped with ROPS/FOPS protective structures rated to at least 5600 kg (12,345 lb).
- Y  N The machine shall have a heater capacity of at least 3528 kcal (14,000 Btu).
- Y  N Heater shall be equipped with an integrated shutoff valve for summer operation.
- Y  N The machine shall have audible warning alarms for engine coolant temperature, engine oil pressure and hydraulic oil temperature.
- Y  N Machines equipped with a door shall be equipped with a hydraulic lockout mechanism that prevents loader arm movement with door in open position.
- Y  N Machine shall be equipped with a convex, rearview mirror for superior visibility to the rear and sides of the machine.
- Y  N Machine shall be equipped with a standard 12V electrical socket.

## LOADER LINKAGES / STRUCTURES

- Y  N Loader linkage shall be of a vertical lift style.
- Y  N Loader linkage shall be equipped with a split style D-ring for simple auxiliary hose securing.
- Y  N The pins shall have countersunk grease fittings to protect them from damage.

- Y  N  The machine shall be equipped with two tilt cylinders, protected by a heavy-duty torque tube.
- Y  N  The machine shall have an operating weight of at least 4660 kg (10,275 lb).
- Y  N  The machine shall have a tipping capacity of at least 3265 kg (7,200 lb).
- Y  N  The machine shall have a dump angle of at least 51° for superior bucket cleanout.
- Y  N  The machine shall have an arched transition to the coupler for increased dump clearance.
- Y  N  Cantilevered pins in the loader linkage shall be forged and induction hardened, and shall be the same diameter all the way through, using a flagged end to secure them to one side allowing them to rotate in the corresponding bore.
- Y  N  The vertical lift linkage shall provide a consistent and uniform lift path for maximum reach throughout the entire lift cycle.
- Y  N  The machine shall have a maximum hinge pin height of at least 3250 mm (128 in).
- Y  N  At maximum height the machine shall have a maximum reach of at least 837 mm (33 in).

#### SERVICEABILITY

- Y  N  The drive and implement hydraulic pumps shall be actuated via low-pressure pilot hydraulic oil flow and may not be actuated via any mechanical linkages.
- Y  N  The machine shall be equipped with grouped, spin-on, fuel/water separator, engine oil and hydraulic oil filters, none of which are horizontally mounted.
- Y  N  The engine shall be mounted lengthwise for better accessibility.
- Y  N  The radiator, hydraulic oil cooler and grill shall be protected by a guard, and shall tilt up via a gas-assisted strut to gain access to the engine.
- Y  N  The machine shall be equipped with sight gauges on the hydraulic tank and the radiator.
- Y  N  The machine shall be equipped with standard system pressure and fluid analysis test ports.
- Y  N  The machine shall have an electronic port allowing electronic machine diagnostics.
- Y  N  The machine shall have a cab that tilts to the rear exposing all pumps, motors, valves and lines.
- Y  N  The machine shall not have any required maintenance points that require lifting of the cab structure.
- Y  N  Machine shall have a solid steel door, with a bumper that slightly protrudes beyond the door, in order to prevent damage to engine compartment components.



OPTIONAL EQUIPMENT

- Y  N  120 VOLT ENGINE COOLANT HEATER
- Y  N  HEAVY DUTY DEEP CYCLE GEL CELL BATTERY (min. cranking amps 1000)
- Y  N  HALOGEN LIGHTING FRONT AND REAR (min. 4 front 2 rear)
- Y  N  SOUND REDUCTION INSULATED CAB WITH SLIDING SIDE WINDOWS
- Y  N  CAB DOOR POLYCARBONATE (with concealed latch cover, and concealed door shock)
- Y  N  HEATER /DEFROSTER
- Y  N  HEADLINER
- Y  N  VINYL SUSPENSION SEAT
- Y  N  78" TOOTH BUCKET MIN. (NOT PIN ON TEETH)
- Y  N  48" FORKS WITH CARRIAGE
- Y  N  HYDRAULIC QUICK ATTACH (for bucket and forks)
- Y  N  ALARM BACK UP
- Y  N  YELLOW STROBE LIGHT (top mount)
- Y  N  HORN
- Y  N  SELF LEVELING
- Y  N  VERTICAL LIFT
- Y  N  FLOORMAT
- Y  N  WINDOWS TOP AND REAR
- Y  N  (ADDITION TO DRIVE TRAIN) SELF CLEANING, INTERNAL DRIVE SPROCKET
- Y  N  HITCH 2" RECEIVER TYPE, REAR MOUNTED
- Y  N  1 PARTS AND 1 SERVICE MANUAL

Y  N  PARTS AND SERVICE WARRANTY ( PLEASE SPECIFY)

12 month / 1500 Hours Labor only Total  
Machine

Y  N  DELIVERY WITHIN 10 BUSSINESS DAYS FROM DATE OF ACCEPTENCE

ALL BIDS MUST BE SEALED AND TURNED IN NO LATER THAN 1:00PM APRIL 12, 2005. ANY BID NOT RECEIVED BY THE ALLOTTED TIME WILL BE REFUSED.

SEND ALL SEALED BIDS TO:

VILLAGE OF CHATHAM  
116, E. MULBERRY  
CHATHAM IL. 62629  
ATTN: SHANE HILL  
SEALED BID, TRACK LOADER

THE VILLAGE OF CHATHAM RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND OR ALL PARTS OF THE BID BASED ON COMPLIANCE AND PRICE.

**ALTORFER**



**Altorfer Inc.**  
4200 Rodger Street  
Springfield, Illinois 62703

217.529.5541  
fax 217.529.0020  
www.althorfer.com

**VILLAGE OF CHATHAM  
% BID SPECIFICATION FOR MULTI-TERRAIN LOADER**

**EXCEPTION TO BID:**

**NO - HEAVY DUTY DEEP CYCLE GEL CELL BATTERY**

**I TALKED WITH MIKE GORSICH REGARDING THIS SPECIFICATION. HE  
INFORMED ME NOT TO WORRY ABOUT THIS SPECIFICATION THIS IS  
SOMETHING HE CAN LOOK INTO AT A LATER DATE:**

**THANK YOU FOR THE OPPORTUNITY,**

**STEVE SPRAGUE**

**ALTORFER INC.**

# MARTIN TRI-STATE

Equipment CONSTRUCTION EQUIPMENT CO.

## QUOTATION FROM SPRINGFIELD

<b>GOODFIELD, IL</b> Jct. I-74 & Rt 117 Phone: (309) 965-2502 Fax: (309) 965-2711	<b>ROCK ISLAND, IL</b> 3720 - 85th Ave. West Phone: (309) 787-6108 Fax: (309) 787-1983	<b>TOLONO, IL</b> 887 U.S. Rt. 45 Phone: (217) 485-6755 Fax: (217) 485-5795	<b>SPRINGFIELD IL</b> 2384 J. David Jones Pkwy. Phone: (217) 528-4347 Fax: (217) 525-0519	<b>PERU, IL</b> Terminal Road, Box 141 Phone: (815) 224-4711 Fax: (815) 224-4681
<b>CEDAR RAPIDS, IA</b> 2900 6th St., S.W. Phone: (309) 365-0515 Fax (309) 366-7545	<b>DUBUQUE, IA</b> Tamarack Business Park Phone: (319) 588-1950 Fax: (319) 588-3685	<b>ASHLAND, MO</b> R.R. #2 Hwy. 63 & Y (573) 657-2154 (573) 657-1012	<b>PALMYRA, MO</b> Route #1- US. 61 & 24 North Phone: (573) 769-2274 Fax: (573) 789-3880	<b>ROCKFORD, IL</b> 5280 11th St. Phone: (815) 874-2458 Fax: (815) 874-2445

TO: VILLAGE OF CHATHAM  
116 E. MULBERRY  
CHATHAM, IL 62629

QUOTE REF #: 1001001 SLS #: 210  
 TERMS: \_\_\_\_\_ DATE: April 12, 2005  
 DELIVERY: \_\_\_\_\_  
 F.O.B.: \_\_\_\_\_

QTY	DESCRIPTION	COST EA.	TOTAL
1	2005 TAKE TL140CR #T1402191 CAB,A/C,76"TOOTH CAB,A/C,76"TOOTH 76" TOOTH BKT	\$44,795.00	44,795.00
Issued By : AARON RUDE Expire Date : 30 DAYS Branch Office : Springfield, IL (217) 528-4347 E-Mail Address : <a href="mailto:AARON@MEOI.COM">AARON@MEOI.COM</a>		Subtotal Tax Freight Total	44,795.00 EXEMPT INCLUDED 44,795.00

All quotations contingent upon strikes, delays, and conditions beyond our control. Prices subject to change with or without notice.

## RUBBER TRACK MULTI SURFACE LOADER

Mark an X if you meet specification and N if you do not.

## ENGINE

- ENGINE ISO 200 81HP*
- T setup*
- AT setup*
- Y    N X Engine shall be designed and built by the machine manufacturer.
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ELECTRICAL SYSTEMS

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- Y  N  The machine shall have a hydraulic oil tank capacity of at least 35 L (9.2 gal).
- Y  N  The machine shall be equipped with a hydraulic tank that has an anti-cavitation loop.
- Y  N  The machine shall be equipped with a hydraulically driven fan, eliminating maintenance costs and friction losses associated with a belt.
- 2-WRAP Y  N  The machine shall be equipped with hydraulic pressure hoses that must have four steel spiral wraps with burst protection of at least 27,560 kPa (4,000 psi).
- Y  N  The hydraulic hoses shall be protected with anti-chaff material and shall be secured to the machine frame.

OPERATOR STATION

- Y  N  The machine shall be equipped with deep skid-resistant, self-cleaning steps.
- Y  N  The machine shall have no foot controls used to operate loader arm, tilt function or auxiliary hydraulics.
- Y  N  The machine shall be equipped with both a hand and foot throttle.
- Y  N  The machine shall have a retractable seat belt.
- Y  N  The machine shall come standard with an arm bar for added operator comfort and safety.
- Y  N  The machine shall be equipped with ROPS/FOPS protective structures rated to at least 5600 kg (12,345 lb).
- Y  N  The machine shall have a heater capacity of at least 3528 kcal (14,000 Btu).
- EXCLUSIVE G/AUTO SHUT DOWN Y  N  Heater shall be equipped with an integrated shutoff valve for summer operation.
- Y  N  The machine shall have audible warning alarms for engine coolant temperature, engine oil pressure and hydraulic oil temperature.
- Y  N  Machines equipped with a door shall be equipped with a hydraulic lockout mechanism that prevents loader arm movement with door in open position.
- OR Slides up not out Y  N  Machine shall be equipped with a convex, rearview mirror for superior visibility to the rear and sides of the machine.
- 2 Y  N  Machine shall be equipped with a standard 12V electrical socket.

LOADER LINKAGES / STRUCTURES

- Y  N  Loader linkage shall be of a vertical lift style.
- Y  N  Loader linkage shall be equipped with a split style D-ring for simple auxiliary hose securing.
- Y  N  The pins shall have countersunk grease fittings to protect them from damage.

- 9590 lbs Y  N  The machine shall be equipped with two tilt cylinders, protected by a heavy-duty torque tube.
- 5952 lbs Y  N  The machine shall have an operating weight of at least 4660 kg (10,275 lb).
- Y  N  The machine shall have a tipping capacity of at least 3265 kg (7,200 lb).
- Y  N  The machine shall have a dump angle of at least 51° for superior bucket cleanout.
- Y  N  The machine shall have an arched transition to the coupler for increased dump clearance.
- N/A Y  N  Cantilevered pins in the loader linkage shall be forged and induction hardened, and shall be the same diameter all the way through, using a flagged end to secure them to one side allowing them to rotate in the corresponding bore.
- N/A Y  N  The vertical lift linkage shall provide a consistent and uniform lift path for maximum reach throughout the entire lift cycle.
- 122.9 Y  N  The machine shall have a maximum hinge pin height of at least 3250 mm (128 in).
- 34.4 Y  N  At maximum height the machine shall have a maximum reach of at least 837 mm (33 in).

SERVICEABILITY

NOT TRUE  
FF  
5-UP

- Y  N  The drive and implement hydraulic pumps shall be actuated via low-pressure pilot hydraulic oil flow and may not be actuated via any mechanical linkages.
- Y  N  The machine shall be equipped with grouped, spin-on, fuel/water separator, engine oil and hydraulic oil filters, none of which are horizontally mounted.
- Y  N  The engine shall be mounted lengthwise for better accessibility.
- Y  N  The radiator, hydraulic oil cooler and grill shall be protected by a guard, and shall tilt up via a gas-assisted strut to gain access to the engine.
- Y  N  The machine shall be equipped with sight gauges on the hydraulic tank and the radiator.
- Y  N  The machine shall be equipped with standard system pressure and fluid analysis test ports.
- Y  N  The machine shall have an electronic port allowing electronic machine diagnostics.
- Y  N  The machine shall have a cab that tilts to the rear exposing all pumps, motors, valves and lines.
- Y  N  The machine shall not have any required maintenance points that require lifting of the cab structure.
- Y  N  Machine shall have a solid steel door, with a bumper that slightly protrudes beyond the door, in order to prevent damage to engine compartment components.

OPTIONAL EQUIPMENT

not gel  
 2 REAR  
 CAT set up  
 150 lbs A/C  
 76"  
 CAT set up

- Y  N  120 VOLT ENGINE COOLANT HEATER
- Y  N  HEAVY DUTY DEEP CYCLE GEL CELL BATTERY (min. cranking amps 1000)
- Y  N  HALOGEN LIGHTING FRONT AND REAR (min. 4 front 2 rear)
- Y  N  SOUND REDUCTION INSULATED CAB WITH SLIDING SIDE WINDOWS
- Y  N  CAB DOOR POLYCARBONATE (with concealed latch cover, and concealed door shock)
- Y  N  HEATER /DEFROSTER *Machine Has A/C Also*
- Y  N  HEADLINER
- Y  N  VINYL SUSPENSION SEAT
- Y  N  78" TOOTH BUCKET MIN. (NOT PIN ON TEETH)
- Y  N  48" FORKS WITH CARRIAGE
- Y  N  HYDRAULIC QUICK ATTACH (for bucket and forks)
- Y  N  ALARM BACK UP
- Y  N  YELLOW STROBE LIGHT (top mount)
- Y  N  HORN
- Y  N  SELF LEVELING
- Y  N  VERTICAL LIFT
- Y  N  FLOORMAT
- Y  N  WINDOWS TOP AND REAR
- Y  N  (ADDITION TO DRIVE TRAIN) SELF CLEANING, INTERNAL DRIVE SPROCKET
- Y  N  HITCH 2" RECEIVER TYPE, REAR MOUNTED
- Y  N  1 PARTS AND 1 SERVICE MANUAL
- Y  N  PARTS AND SERVICE WARRANTY ( PLEASE SPECIFY)

2 yr unlimited hour warranty on full machine

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Y  N  DELIVERY WITHIN 10 BUSSINESS DAYS FROM DATE OF ACCEPTENCE  
*Depending on Date of Acceptence*

ALL BIDS MUST BE SEALED AND TURNED IN NO LATER THAN 1:00PM APRIL 12, 2005. ANY BID NOT RECEIVED BY THE ALLOTTED TIME WILL BE REFUSED.  
 SEND ALL SEALED BIDS TO:

VILLAGE OF CHATHAM  
 116, E. MULBERRY  
 CHATHAM IL. 62629  
 ATTN: SHANE HILL  
 SEALED BID, TRACK LOADER

THE VILLAGE OF CHATHAM RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND OR ALL PARTS OF THE BID BASED ON COMPLIANCE AND PRICE.

VERMEER

RC-100

RUBBER TRACK MULTI SURFACE LOADER

\$ 50,720

Mark an X if you meet specification and N if you do not.

ENGINE

- Y \_\_\_ N X Engine shall be designed and built by the machine manufacturer. **CAT / PERKINS OEM CERTIFIED**
- Y X N \_\_\_ Engine shall be direct fuel injected, turbocharged, liquid cooled and shall have four cylinders.
- Y X N \_\_\_ Engine shall have a total displacement of not less than 3.3 L (201 in<sup>3</sup>).
- Y X N \_\_\_ Engine net flywheel power shall be at least 58 kW (78 hp) according to SAE J1349.
- Y X N \_\_\_ The engine shall be equipped with an alternator that has a charging capacity of at least 90 amperes.
- Y X N \_\_\_ Glow plugs shall be provided for improved starting in cold weather (not ether starting aid).
- Y X N \_\_\_ Air filtration shall be accomplished via a radial seal air cleaner with a secondary backup. The air intake system shall include a pre-cleaner, as well as a convenient in-cab air flow restriction indicator.
- Y X N \_\_\_ The radiator must not have any other cooler or condenser mounted on top or below, restricting cooling capability.
- Y X N \_\_\_ The engine and hydraulic oil coolers shall have an ambient temperature cooling capacity of 43° C (109° F).
- Y \_\_\_ N X The cooling fan and radiator shall be able to tilt-up via a gas strut, allowing easy access to the engine. **TILT UP HOOD, EASY ACCESS**
- Y X N \_\_\_ The cooling system shall pull air in from both sides of the machine, directing it away from the operator and site bystanders.
- Y \_\_\_ N X The cooling fan shall not be belt driven, but should be powered by a hydraulic motor that maintains constant airflow and fan speed, regardless of engine speed. **LESS HP TO RUN, COOLS MORE**
- Y X N \_\_\_ The machine shall have a speed-sensing valve that automatically de-strokes the hystat pump **EFFICIENTLY** to reduce the chance of stalling the engine during lugging.

DRIVE TRAIN / UNDERCARRIAGE

- Y \_\_\_ X N \_\_\_ Two hydrostatic axial piston drive pumps shall be splined directly to the engine via a flexible coupling for maximum efficiency, reliability and serviceability.
- Y X N \_\_\_ Hydrostatic drive pumps shall be contained in a mono-block housing for maximum reliability and durability.
- Y X N \_\_\_ The track shall consist of molded rubber with composite reinforcement and shall contain no steel, in order to eliminate the possibility of corrosion-based failures.
- Y X N \_\_\_ The undercarriage shall not be directly mounted to the machine frame, but shall instead be suspended on a torsion axle suspension system in order to minimize machine stresses and maximize traction.
- Y X N \_\_\_ The drive system shall be of an internal positive drive type, designed to eliminate the steel on steel contact of tooth and sprocket engagement, and shall instead consist of a system in which stationary inner pins with external roller sleeves drive molded composite rubber lugs internal to the track.
- Y X N \_\_\_ Machine shall have a minimum ground clearance of no less than 283 mm (11 in).
- Y X N \_\_\_ Machine ground pressure shall not exceed 26 kPa (3.8 psi).
- Y X N \_\_\_ Machine weight shall be evenly distributed across the entire width and length of the track via multiple sets of rollers to disperse pressure and maximize traction and flotation.
- Y X N \_\_\_ Machine shall have a spring applied, hydraulically released parking brake that shall automatically engage when arm bar is raised, and shall be designed to hold machine static at any point on a 2 to 1 slope.
- Y X N \_\_\_ Undercarriage shall consist of an open design that allows easy cleaning of components.



#### ELECTRICAL SYSTEMS

- Y  N  The machine shall have braided, color-coded and numbered wiring harness for easy diagnostics.
- Y  N  The machine shall have sealed pin connectors to prevent dirt and moisture infiltration.
- Y  N  The machine shall be equipped with a battery that has at least 12 volts and 650 CCA for cold start capabilities in 0° C (32° F) climate.
- Y  N  The machine shall have a main system relay with 105 amp circuit breaker protection to prevent fires.

#### HYDRAULIC SYSTEMS

- Y  N  The machine shall be equipped with a single, hydraulically operated joystick that controls the lift, lower and tilt functions.
- Y  N  The machine shall be equipped with a single, hydraulically operated joystick that controls the forward/reverse and steering directions.
- Y  N  The pump flow of the machine shall be at least 83 L/min (22 gal/min).
- Y  N  The hydraulic pressure of the machine shall be at least 23,000 kPa (3,335 psi).
- Y  N  The hydraulic horsepower of the machine shall be at least 31.9 kW (42.8 hp).
- Y  N  Machine shall be equipped with auxiliary hydraulics activated by a thumb switch located on the right joystick.
- Y  N  The machine shall have a hydraulic oil tank capacity of at least 35 L (9.2 gal).
- Y  N  The machine shall be equipped with a hydraulic tank that has an anti-cavitation loop.
- Y  N  The machine shall be equipped with a hydraulically driven fan, eliminating maintenance costs and friction losses associated with a belt. **BELT TAKES LESS HP TO RUN, COOLS MORE EFFICIENTLY**
- Y  N  The machine shall be equipped with hydraulic pressure hoses that must have four steel spiral wraps with burst protection of at least 27,560 kPa (4,000 psi).
- Y  N  The hydraulic hoses shall be protected with anti-chaff material and shall be secured to the machine frame.

#### OPERATOR STATION

- Y  N  The machine shall be equipped with deep skid-resistant, self-cleaning steps.
- Y  N  The machine shall have no foot controls used to operate loader arm, tilt function or auxiliary hydraulics.
- Y  N  The machine shall be equipped with both a hand and foot throttle.
- Y  N  The machine shall have a retractable seat belt.
- Y  N  The machine shall come standard with an arm bar for added operator comfort and safety.
- Y  N  The machine shall be equipped with ROPS/FOPS protective structures rated to at least 5600 kg (12,345 lb).
- Y  N  The machine shall have a heater capacity of at least 3528 kcal (14,000 Btu).
- Y  N  Heater shall be equipped with an integrated shutoff valve for summer operation.
- Y  N  The machine shall have audible warning alarms for engine coolant temperature, engine oil pressure and hydraulic oil temperature. **MACHINE WILL SHUT DOWN FOR SAFETY**
- Y  N  Machines equipped with a door shall be equipped with a hydraulic lockout mechanism that prevents loader arm movement with door in open position.
- Y  N  Machine shall be equipped with a convex, rearview mirror for superior visibility to the rear and sides of the machine.
- Y  N  Machine shall be equipped with a standard 12V electrical socket.

#### LOADER LINKAGES / STRUCTURES

- Y  N  Loader linkage shall be of a vertical lift style. **RADIAL STYLE**
- Y  N  Loader linkage shall be equipped with a split style D-ring for simple auxiliary hose securing.
- Y  N  The pins shall have countersunk grease fittings to protect them from damage.

- Y  N  The machine shall be equipped with two tilt cylinders, protected by a heavy-duty torque tube.
- Y  N  The machine shall have an operating weight of at least 4660 kg (10,275 lb).
- Y  N  The machine shall have a tipping capacity of at least 3265 kg (7,200 lb).
- Y  N  The machine shall have a dump angle of at least 51° for superior bucket cleanout.
- Y  N  The machine shall have an arched transition to the coupler for increased dump clearance.
- Y  N  Cantilevered pins in the loader linkage shall be forged and induction hardened, and shall be the same diameter all the way through, using a flagged end to secure them to one side allowing them to rotate in the corresponding bore.
- Y  N  The vertical lift linkage shall provide a consistent and uniform lift path for maximum reach **RADIAL STYLE** throughout the entire lift cycle.
- Y  N  The machine shall have a maximum hinge pin height of at least 3250 mm (128 in). **125 INCHES**
- Y  N  At maximum height the machine shall have a maximum reach of at least 837 mm (33 in).

#### SERVICEABILITY

- Y  N  The drive and implement hydraulic pumps shall be actuated via low-pressure pilot hydraulic oil flow and may not be actuated via any mechanical linkages.
- Y  N  The machine shall be equipped with grouped, spin-on, fuel/water separator, engine oil and hydraulic oil filters, none of which are horizontally mounted.
- Y  N  The engine shall be mounted lengthwise for better accessibility.
- Y  N  The radiator, hydraulic oil cooler and grill shall be protected by a guard, and shall tilt up via a gas-assisted strut to gain access to the engine.
- Y  N  The machine shall be equipped with sight gauges on the hydraulic tank and the radiator.
- Y  N  The machine shall be equipped with standard system pressure and fluid analysis test ports.
- Y  N  The machine shall have an electronic port allowing electronic machine diagnostics.
- Y  N  The machine shall have a cab that tilts to the rear exposing all pumps, motors, valves and lines.
- Y  N  The machine shall not have any required maintenance points that require lifting of the cab structure.
- Y  N  Machine shall have a solid steel door, with a bumper that slightly protrudes beyond the door, in order to prevent damage to engine compartment components.

OPTIONAL EQUIPMENT

- N  120 VOLT ENGINE COOLANT HEATER  
  N  HEAVY DUTY DEEP CYCLE GEL CELL BATTERY (min. cranking amps 1000)  
  N  HALOGEN LIGHTING FRONT AND REAR (min. 4 front 2 rear)  
  N  SOUND REDUCTION INSULATED CAB WITH SLIDING SIDE WINDOWS  
  N  CAB DOOR POLYCARBONATE (with concealed latch cover, and concealed door shock) LATCH NOT CONCEALED  
  N  HEATER /DEFROSTER  
  N  HEADLINER  
  N  VINYL SUSPENSION SEAT  
  N  78" TOOTH BUCKET MIN. (NOT PIN ON TEETH) 72" - 1 1/2" PAST TRACKS ON BOTH SIDES  
  N  48" FORKS WITH CARRIAGE  
  N  HYDRAULIC QUICK ATTACH (for bucket and forks)  
  N  ALARM BACK UP  
  N  YELLOW STROBE LIGHT (top mount)  
  N  HORN  
  N  SELF LEVELING  
  N  VERTICAL LIFT RADIAL STYLE  
  N  FLOORMAT  
  N  WINDOWS TOP AND REAR  
  N  (ADDITION TO DRIVE TRAIN) SELF CLEANING, INTERNAL DRIVE SPROCKET  
  N  HITCH 2" RECEIVER TYPE, REAR MOUNTED  
  N  1 PARTS AND 1 SERVICE MANUAL  
  N  PARTS AND SERVICE WARRANTY ( PLEASE SPECIFY )

**STANDARD WARRANTY - 1 YEAR PARTS & LABOR, FREE LOANER IF UNIT IS DOWN 2 WORKING DAYS**  
**OUTRIGHT PURCHASE PRICE: \$50,720.00**  
**OPTION 1: 2 YEAR ADDITIONAL POWER TRAIN WARRANTY (3 YEAR TOTAL) \$1,490.00**  
**OPTION 2: 2 YEAR ADDITIONAL BUMPER TO BUMPER WARR. (3 YEAR TOTAL) \$4,400.00**  
**OPTION 3: FOUR IN ONE BUCKET: \$2,872.00**

- N  DELIVERY WITHIN 10 BUSSINESS DAYS FROM DATE OF ACCEPTENCE  
 LOANER PROVIDED UNTIL DELIVERY AND  
 VERMEER WILL INVOICE IMMEDIATELY

ALL BIDS MUST BE SEALED AND TURNED IN NO LATER THAN 1:00PM APRIL 12, 2005. ANY BID NOT RECEIVED BY THE ALLOTTED TIME WILL BE REFUSED.

SEND ALL SEALED BIDS TO:

VILLAGE OF CHATHAM  
 116, E. MULBERRY  
 CHATHAM IL. 62629  
 ATTN: SHANE HILL  
 SEALED BID, TRACK LOADER

THE VILLAGE OF CHATHAM RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND OR ALL PARTS OF THE BID BASED ON COMPLIANCE AND PRICE.

VERMEER

RCV

52,740

RUBBER TRACK MULTI SURFACE LOADER

Mark an X if you meet specification and N if you do not.

ENGINE

- Y  N  Engine shall be designed and built by the machine manufacturer. **CAT/PERKINS OEM CERTIFIED**
- Y  N  Engine shall be direct fuel injected, turbocharged, liquid cooled and shall have four cylinders. **NO TURBO - 86 HP**
- Y  N  Engine shall have a total displacement of not less than 3.3 L (201 in<sup>3</sup>). **HP**
- Y  N  Engine net flywheel power shall be at least 58 kW (78 hp) according to SAE J1349. **86 HP**
- Y  N  The engine shall be equipped with an alternator that has a charging capacity of at least 90 amperes.
- Y  N  Glow plugs shall be provided for improved starting in cold weather (not ether starting aid).
- Y  N  Air filtration shall be accomplished via a radial seal air cleaner with a secondary backup. The air intake system shall include a pre-cleaner, as well as a convenient in-cab air flow restriction indicator.
- Y  N  The radiator must not have any other cooler or condenser mounted on top or below, restricting cooling capability.
- Y  N  The engine and hydraulic oil coolers shall have an ambient temperature cooling capacity of 43° C (109° F).
- Y  N  The cooling fan and radiator shall be able to tilt-up via a gas strut, allowing easy access to the engine. **TILT UP HOOD - EASY ACCESS**
- Y  N  The cooling system shall pull air in from both sides of the machine, directing it away from the operator and site bystanders.
- Y  N  The cooling fan shall not be belt driven, but should be powered by a hydraulic motor that maintains constant airflow and fan speed, regardless of engine speed. **LESS HP TO RUN, COOLS MORE EFFICIENTLY**
- Y  N  The machine shall have a speed-sensing valve that automatically de-strokes the hystat pump to reduce the chance of stalling the engine during lugging.

DRIVE TRAIN / UNDERCARRIAGE

- Y  N  Two hydrostatic axial piston drive pumps shall be splined directly to the engine via a flexible coupling for maximum efficiency, reliability and serviceability.
- Y  N  Hydrostatic drive pumps shall be contained in a mono-block housing for maximum reliability and durability.
- Y  N  The track shall consist of molded rubber with composite reinforcement and shall contain no steel, in order to eliminate the possibility of corrosion-based failures.
- Y  N  The undercarriage shall not be directly mounted to the machine frame, but shall instead be suspended on a torsion axle suspension system in order to minimize machine stresses and maximize traction.
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- Y  N  Machine shall have a minimum ground clearance of no less than 283 mm (11 in).
- Y  N  Machine ground pressure shall not exceed 26 kPa (3.8 psi).
- Y  N  Machine weight shall be evenly distributed across the entire width and length of the track via multiple sets of rollers to disperse pressure and maximize traction and flotation.
- Y  N  Machine shall have a spring applied, hydraulically released parking brake that shall automatically engage when arm bar is raised, and shall be designed to hold machine static at any point on a 2 to 1 slope.
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- Y  N  The hydraulic horsepower of the machine shall be at least 31.9 kW (42.8 hp).
- Y  N  Machine shall be equipped with auxiliary hydraulics activated by a thumb switch located on the right joystick.
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- Y  N  Loader linkage shall be equipped with a split style D-ring for simple auxiliary hose securing.
- Y  N  The pins shall have countersunk grease fittings to protect them from damage.

- Y  N  The machine shall be equipped with two tilt cylinders, protected by a heavy-duty torque tube.
- Y  N  The machine shall have an operating weight of at least 4660 kg (10,275 lb).
- Y  N  The machine shall have a tipping capacity of at least 3265 kg (7,200 lb). **8,000 LBS.**
- Y  N  The machine shall have a dump angle of at least 51° for superior bucket cleanout.
- Y  N  The machine shall have an arched transition to the coupler for increased dump clearance.
- Y  N  Cantilevered pins in the loader linkage shall be forged and induction hardened, and shall be the same diameter all the way through, using a flagged end to secure them to one side allowing them to rotate in the corresponding bore.
- Y  N  The vertical lift linkage shall provide a consistent and uniform lift path for maximum reach throughout the entire lift cycle.
- Y  N  The machine shall have a maximum hinge pin height of at least 3250 mm (128 in). **131 INCHES**
- Y  N  At maximum height the machine shall have a maximum reach of at least 837 mm (33 in). **34 INCHES**

#### SERVICEABILITY

- Y  N  The drive and implement hydraulic pumps shall be actuated via low-pressure pilot hydraulic oil flow and may not be actuated via any mechanical linkages.
- Y  N  The machine shall be equipped with grouped, spin-on, fuel/water separator, engine oil and hydraulic oil filters, none of which are horizontally mounted.
- Y  N  The engine shall be mounted lengthwise for better accessibility.
- Y  N  The radiator, hydraulic oil cooler and grill shall be protected by a guard, and shall tilt up via a gas-assisted strut to gain access to the engine.
- Y  N  The machine shall be equipped with sight gauges on the hydraulic tank and the radiator.
- Y  N  The machine shall be equipped with standard system pressure and fluid analysis test ports.
- Y  N  The machine shall have an electronic port allowing electronic machine diagnostics.
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- Y  N  Machine shall have a solid steel door, with a bumper that slightly protrudes beyond the door, in order to prevent damage to engine compartment components.

OPTIONAL EQUIPMENT

- N  120 VOLT ENGINE COOLANT HEATER  
  N  HEAVY DUTY DEEP CYCLE GEL CELL BATTERY (min. cranking amps 1000)  
  N  HALOGEN LIGHTING FRONT AND REAR (min. 4 front 2 rear)  
  N  SOUND REDUCTION INSULATED CAB WITH SLIDING SIDE WINDOWS  
  N  CAB DOOR POLYCARBONATE (with concealed latch cover, and concealed door LATCH NOT CONCEALED shock)  
  N  HEATER /DEFROSTER  
  N  HEADLINER  
  N  VINYL SUSPENSION SEAT  
  N  78" TOOTH BUCKET MIN. (NOT PIN ON TEETH) 72" WIDE, OUTSIDE OF TRACKS 1.5" ON BOTH SIDES  
  N  48" FORKS WITH CARRIAGE  
  N  HYDRAULIC QUICK ATTACH (for bucket and forks)  
  N  ALARM BACK UP  
  N  YELLOW STROBE LIGHT (top mount)  
  N  HORN  
  N  SELF LEVELING  
  N  VERTICAL LIFT  
  N  FLOORMAT  
  N  WINDOWS TOP AND REAR  
  N  (ADDITION TO DRIVE TRAIN) SELF CLEANING, INTERNAL DRIVE SPROCKET  
  N  HITCH 2" RECEIVER TYPE, REAR MOUNTED  
  N  1 PARTS AND 1 SERVICE MANUAL

N  PARTS AND SERVICE WARRANTY ( PLEASE SPECIFY)

**STANDARD WARRANTY - 1 YEAR PARTS AND LABOR, FREE LOANER IF UNIT IS DOWN 2 WORKING DAYS**  
**OUTRIGHT PURCHASE PRICE: \$52,740.00**  
**OPTION 1: 2 YEAR ADDITIONAL POWER TRAIN WARRANTY (3 YEAR TOTAL) \$1,490.00**  
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VILLAGE OF CHATHAM  
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