



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
7011EC21

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
BUYER 33 304-558-2402

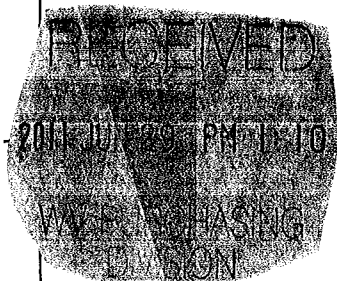
VENDOR
 *709035731 304-949-6400
 CECIL I WALKER MACHINERY COMPA
 PO BOX 2427
 CHARLESTON WV 25329

SHIP TO
 DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED 04/04/2011	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **06/01/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		975-66	\$68,969	\$68,969
<p>ALL WHEEL DRIVE LOADER WITH BACKHOE</p> <p>REQUEST FOR QUOTATION (RFQ) OPEN END CONTRACT</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR AN OPEN END CONTRACT TO PROVIDE ALL WHEEL DRIVE LOADER WITH BACKHOE WHEEL TYPE PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION WILL BE RECEIVED THROUGH THE CLOSE OF THE MANDATORY PRE-BID MEETING. TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO SHERI SLOANE WEST VIRGINIA STATE PURCHASING DIVISION. VENDORS MAY SUBMIT QUESTIONS PRIOR TO THE MANDATORY PRE-BID VIA MAIL AT THE ADDRESS LISTED IN THE BODY OF THIS RFQ, VIA FAX AT 305-558-4115, OR VIA EMAIL AT SHERI.D.SLOANE@WV.GOV. WRITTEN QUESTIONS WILL ALSO BE ACCEPTED DURING THE MANDATORY PRE-BID. DEADLINE FOR ALL TECHNICAL QUESTIONS IS THE CLOSE OF THE PRE-BID MEETING. NO ADDITIONAL QUESTIONS WILL BE ACCEPTED AFTER THE PRE-BID MEETING. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE MANDATORY PRE-BID MEETING. FOR YOUR CONVENIENCE A WORD DOCUMENT HAS BEEN ATTACHED FOR SUBMITTING TECHNICAL QUESTIONS.</p>						



SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE (304) 543-5406	DATE 4/29/11
TITLE Sales Representative	FEIN 55-0352647	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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04/04/2011				

BID OPENING DATE: **06/01/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
MANDATORY PRE-BID						
<p>A MANDATORY PRE-BID WILL BE HELD ON TUESDAY 05/17/2011 AT 10 AM, BRUSHY FORK RD IN BUCKHANNON, WV 26201. ALL INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING. FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.</p> <p>AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER-S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET.</p> <p>EXHIBIT 10</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>[Signature]</i>	TELEPHONE (304) 543-5406	DATE 6/29/11	
TITLE SALES REP.	FEIN 55-0352647	ADDRESS CHANGES TO BE NOTED ABOVE	

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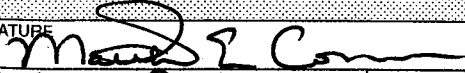
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
REQUISITION NO.: 7011EC21						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1 ✓						
NO. 2 ✓						
NO. 3 ✓						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						
VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.						
 SIGNATURE C. I. WALKER MACHINERY CO.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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COMPANY ..6/29/11..... DATE						
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID. REV. 09/21/2009 EXHIBIT 2 LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE. UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. I. Com</i>	TELEPHONE (304) 543-5406	DATE 6/29/11
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<p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FUTHER ORDER.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. I. C.</i>	TELEPHONE (304) 543-5406	DATE 6/29/11
TITLE Sales Rep.	FEIN 55-0352647	ADDRESS CHANGES TO BE NOTED ABOVE

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REV. 5/2009 EXHIBIT 4 LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER. REV. 3/88 NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
<i>[Signature]</i>	(304) 543-5406	6/29/11	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	
Sales Rep.	55-0352647		

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LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
SEALED BID						
BUYER:				SHERI SLONE - FILE 33		
RFQ. NO.:				7011EC21		
BID OPENING DATE:				06/01/2011		
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
----- (304) 759-6404 -----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
----- MATTHEW E CONNER -----						
***** THIS IS THE END OF RFQ 7011EC21 ***** TOTAL:						<u>\$68,969</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Matthew E Conner</i>	TELEPHONE (304) 543-5404	DATE 6/29/11
TITLE Sales Rep.	FEIN 55-0352647	ADDRESS CHANGES TO BE NOTED ABOVE

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 352-1-D

OPEN END CONTRACT
ALL WHEEL DRIVE LOADER WITH BACKHOE, WHEEL TYPE

1.0 PURPOSE

It is the purpose of these specifications to describe an All Wheel Drive Loader with Backhoe, Wheel Type (hereinafter referred to as a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. **Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail.** Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. **FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, WILL RESULT IN AUTOMATIC DISQUALIFICATION.**

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. **Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications".** The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall, will, and/or must" or are stated as a "minimum and/or maximum" are mandatory as stated in Purchasing Divisions Policies and Procedures. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section will also be grounds for immediate disqualification at the discretion of the State.

The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the previous pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid may be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendor's expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 120 calendar days after receipt of purchase agreement. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms

should be stated in the bid and the State reserves the right to accept or reject such terms. Failure to reach an agreement may result in rejection of the bid. **The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.**

A completed pilot model for inspection must be provided within 90 calendar days after receipt of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

- 5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. **The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.** DOH reserves the right to place multiple orders in any quantity.

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered

to be manufactured after January 1, 2011 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts or service manuals.

* NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. **In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract.** Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia 26201 prior to delivery of the pilot.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty. **The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.**

A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items is required for this unit.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

7.0 Unit to be of Manufacturers AWD design and shall provide engage and disengage selection accessible from operators station.

7.1 Engine:

7.1.1 Diesel fueled, water cooled.

7.1.2 **Number of cylinders: minimum four (4).**

7.1.3 **SAE Net Horsepower: 75 minimum.**

7.2 Transmission:

7.2.1 **Transmission speeds to be four (4) forward fully synchronized; four (4) reverse minimum.**

7.2.2 **Minimum top travel speed to 20 MPH.**

7.2.3 Foot operated automatic release, rear axle differential lock engageable under full engine RPM required.

7.3 Steering:

7.3.1 Full power steering with emergency dead engine steering capability.

7.4 Brakes:

- 7.4.1 **Service brakes to be 2-wheel minimum, wet disk type, sealed and fully enclosed to allow operating in water, mud, snow, and other adverse conditions without encountering brake loss or fade.**
- 7.4.2 Service brakes to be pressure lubricated and cooled.
- 7.4.3. Service brakes to be self adjusting type.
- 7.4.4 Service brakes to be self equalizing.
- 7.4.5 The parking/secondary brake system to be independent of service brakes and of sufficient design to hold weight of machine on incline.
- 7.4.6 The parking brake system to be equipped with a warning light and/or audible alarm.
- 7.4.7 **All brakes shall conform to or exceed Federal and State standards.**

7.5 Hydraulic System:

- 7.5.1 The hydraulic system to be the manufacturers standard. The system should incorporate a suction strainer and a replaceable return line filter.
- 7.5.2 **The system should provide a minimum flow of 34 GPM at approximately 2200 RPM to the backhoe and adequate cooling for hydraulic tools and attachments.**
- 7.5.3 Backhoe stabilizer hydraulic lock-outs should be provided in both the working and transport positions.
- 7.5.4 Auxiliary valve, with foot pedal control for efficient operation of motor driven attachments and machine mounted rock breakers.

7.6 Electrical System:

- 7.6.1 Manufacturers standard 12 volt electrical system.
- 7.6.2 Alternator approximately 78 AMPS.
- 7.6.3 Batteries to be maintenance free type and provide a cold crank amps of 1150 each at zero degrees.

7.7 Cooling System:

- 7.7.1 **The cooling system shall be capable of maintaining engine temperature within the manufacturers recommended range during continuous operation.**
- 7.7.2 The coolant system to incorporate a thermostat and by-pass for warm up.
- 7.7.3 The system to be filled with permanent extended life anti-freeze solution rated to a **minus 30 degrees F minimum.**

7.8 Operators Station:

- 7.8.1 Cab to be fully enclosed SAE ROPS/FOPS certified.
- 7.8.2 Cab to be isolation mounted.
- 7.8.3 Instrumentation vandal protection to be included on complete unit.
- 7.8.4 Air ride seat should be deluxe cushioned, swing around type operators seat. Fully adjustable, damped and to include manufacturer's seat belt with retractor feature.
- 7.8.5 **Tinted safety glass shall be provided at all locations.**
- 7.8.6 **Cab doors shall be lockable and keyed alike.**
- 7.8.7 Unit should provide front and rear windshield wipers with washers.
- 7.8.8 Manufacturers heaviest duty heater/defroster to be provided.
- 7.8.9 Unit to be equipped with manufacturer air conditioning.

7.9 Instruments: Unit to have lighted gauges and/or monitoring system to include:

- 7.9.1 Transmission temperature.
- 7.9.2 Engine coolant temperature.
- 7.9.3 Engine oil pressure.
- 7.9.4 Hydraulic filter restriction.
- 7.9.5 Air cleaner restriction.
- 7.9.6 Fuel gauge.

- 7.9.7 Volt/Amp gauge.
- 7.9.8 Hour meter (to be engine controlled, not key switch).
- 7.9.9 Engine coolant temperature and engine oil pressure and parking brake system to include audible or visual warning systems.
- 7.10 Accessories:
 - 7.10.1 Locking type toolbox to be large enough to store standard size hand operated grease gun and any special tools required by manufacturer.
 - 7.10.2 OSHA approved back up alarm.
 - 7.10.3 Horn.
 - 7.10.4 Hand and foot controlled throttle.
 - 7.10.5 Muffler with rain proof exhaust.
 - 7.10.6 Lockable engine service door and keyed same as cab door/s.
 - 7.10.7 SMV emblem.
 - 7.10.8 Non slip type mounting steps and safety handholds.
 - 7.10.9 Backhoe boom transport locks.
 - 7.10.10 One (1) complete set of filter elements for unit to be provided.
 - 7.10.11 Unit to have Class 1 LED low profile beacon
 - 7.10.12 Unit to have left and right side and inside rear view mirrors.
- 7.11 Lighting:
 - 7.11.1 **Unit to have a minimum of two (2) front halogen work/driving lights switched and identified at operator's station.**
 - 7.11.2 Two combination stop/tail lights.
 - 7.11.3 Two (2) rear halogen work lights to be switched and identified at operator station.
 - 7.11.4 Two (2) front and two (2) rear turn and flashing lights.

- 7.11.5 Cab dome light.
- 7.12 Tires:
 - 7.12.1 Tires to be manufacturers standard for model bid.
- 7.13 Vehicle Frame:
 - 7.13.1 Unit to feature a single piece weldment, full length unitized main frame.
- 7.14 Loader:
 - 7.14.1 Loader to be self-leveling.
 - 7.14.2 Unit to be equipped with automatic return-to-dig feature.
 - 7.14.3 Unit to provide a G.P. bucket rated at approximately 1.3. C.Y. SAE heaped capacity and a width of approximately 92 inches with bolt on cutting.
 - 7.14.4 Breakout force of approximately 9,500 pounds.
 - 7.14.5 Loader lift rating of approximately 6,500 pounds to full height required.
 - 7.14.6 Dumping clearance at full height and 40 degrees, 103 inches approximately.
 - 7.14.7 Bucket rollback at ground approximately 40 degrees.
- 7.15 Backhoe:
 - 7.15.1 Unit should have an approximate digging depth of a least 15 feet 4 inches.
 - 7.15.2 Backhoe lifting capacity of approximately 3,500 pounds to 12 foot lift height through the full 180 degrees swing arc.
 - 7.15.3 Backhoe bucket cylinder digging force of 11,500 pound approximately.
 - 7.15.4 Bucket to be manufacturers standard 24 inches with hardened/replaceable teeth.
 - 7.15.5 Bucket rotation 180 degrees.
 - 7.15.6 Provisions to be made for quick-coupling hydraulic tools, (i.e. road breakers, jack hammers, etc.) to the unit hydraulic system.

- 7.15.7 Unit to be capable of operating backhoe and hydraulic tools simultaneously.
- 7.15.8 **Unit shall be equipped with extend-a-hoe feature with approximate dig depth of 19 feet.**
- 7.16 Operating Weight:
 - 7.16.1 SAE operating weight of 16,000 pounds (approximately) exclusive of tire ballast and/or counterweights.
- 7.17 Paint:
 - 7.17.1 The loader is to be painted manufacturers standard.
- 7.18 **All units shall be delivered to WVDOH with all manufacturers recommended safety related decals and safety features intact.**
- 7.19 **Vendor must certify that unit offered will meet or exceed the "Occupational Safety and Health Act of 1970" or subsequent changes that are in effect at time of manufacture of the unit.**
- 7.20 **Advertising: Only one (1) manufacturer name plate, which must include model number, may appear on exterior of unit.** Logos created through the stamping or casting process of manufacturer are also acceptable. No logo will interfere with the Department's striping and logo.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 352-1-D

ALL WHEEL DRIVE LOADER WITH BACKHOE, WHEEL TYPE

NOTE TO BIDDER: Procurement Specification No. 352-1-D, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report.

FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 7011EC21

Bidder's Name: Cecil I. Walker Machinery Co.

Address: PO Box 2427, Charleston, WV 25329

Telephone Number: (304) 949-6400

Years Bidder has been registered to do business with the State of West Virginia: 50+ YRS.

Years Company has been an authorized dealer for proposed unit: 50+ YRS.

X3.2 Have you complied with all mandatory specifications? YES NO

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 120 Calendar Days After
Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 150 Calendar Days After Receipt of
Purchase Agreement

X5.0 AWARD CRITERIA;

X5.1 Price per unit:

___\$68,969___ per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

___Caterpillar, 416E, 2011 Model___

Is descriptive literature, fully describing proposed unit attached to your bid? YES NO

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units?

YES NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit?

YES NO

X6.2
2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION: _____ MAKE: _____

MODEL: _____ YEAR: _____ PURCHASE AMOUNT: _____

ENGINE: MAKE: _____ MODEL: _____ FUEL TYPE: _____

HORSEPOWER: _____ CYLINDER: _____ ENGINE SERIAL: _____

COOLING SYSTEM CAPACITY: _____

BELTS: DESCRIPTION: _____ PART NUMBERS: _____

GVW: _____ AXLE CAPACITY: FRONT: _____ REAR: _____

TIRES: FRONT MAKE & SIZE: _____

REAR MAKE & SIZE: _____

DIMENSIONS OF UNIT: LENGTH: _____ WIDTH: _____ LENGTH: _____

VENDOR CONTACT PERSON: _____ PHONE: _____

PARTS:

BATTERY MAKE: _____ MODEL: _____ CCA: _____

TOP OR SIDE POST: _____ DIMENSIONS: LENGTH _____ WIDTH _____ HEIGHT _____

SPARK PLUGS OR FUEL INJECTORS MAKE: _____ PART # _____

FUEL PUMP OR INJECTION PUMP MAKE: _____ MODEL: _____

ALTERNATOR MAKE: _____ PART #: _____

STARTER MAKE: _____ PART #: _____

TURBO CHARGER MAKE: _____ PART #: _____

TRANS. MAKE: _____ MODEL: _____ AUTO/MANUAL: _____

HYDRAULIC PUMP MAKE: _____ MODEL: _____

FILTERS	MAKE	PART NO.	LUBRICANT	MANUFACTURER TYPE
---------	------	----------	-----------	-------------------

OIL	_____	_____	ENGINE	_____
-----	-------	-------	--------	-------

AIR INNER	_____	_____	TRANSMISSION	_____
-----------	-------	-------	--------------	-------

AIR OUTER	_____	_____	POWER STEERING	_____
-----------	-------	-------	----------------	-------

FUEL PRIMARY	_____	_____	HYDRAULIC	_____
--------------	-------	-------	-----------	-------

FUEL SECONDARY	_____	_____	DIFFERENTIALS	_____
----------------	-------	-------	---------------	-------

COOLANT	_____	_____	BRAKE FLUID	_____
---------	-------	-------	-------------	-------

HYDRAULIC	_____	_____	COOLANT	_____
-----------	-------	-------	---------	-------

OTHER	_____	_____	OTHER	_____
-------	-------	-------	-------	-------

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training
 YES NO

Will you conduct training with each purchase order against this open end contract?
 YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order?
 YES NO

If NO, explain time frame _____

Will an Operator's Manual be furnished directly to Training Academy prior to the delivery of the pilot?
 YES NO

X6.4 **If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training?** YES NO

X6.4.1 **Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit?** YES NO
If NO, explain _____

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications
 YES NO

Is warranty literature attached? YES NO

Is a minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items included? YES NO

Describe:

____ Caterpillar 2 year Premiere ESC new machine warranty up to 5,000 hours _____

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.

(If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy)

Caterpillar 2 year Premiere ESC new machine warranty up to 5,000 hours

See Attached

2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative.

When warranty service is performed at DOH facilities, DOH is responsible for travel and mileage to and

from their facility. When warranty work is performed at Walker facilities, DOH is responsible for

round trip transportation cost to Walker. Service calls should be directed to Nitro,(304)755-2500.

3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known.

Walker Machinery Locations: Belle, Nitro, Huntington, Parkersburg, Beckley, Summersville,

Logan.

4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner.

A. Terms: Net 30 Manufacturer's published list price less: 0 % discount

B. Terms: Net 60 Manufacturer's published list price less: _____ % discount

C. Terms: Net 90 Manufacturer's published list price less: _____ % discount

5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? x YES NO

6. During the term of warranty, list the guaranteed rates charged for repair to the unit.

A. Shop Rate \$ 84 per mechanic hour

B. Travel Time Charge \$ 77 per mechanic hour
(Specify if one-way) _____ ; port to port _____

C. Mileage Charge \$ 3.35 per vehicle mile
(Specify if one-way) _____ ; port to port _____

D. Field Mechanic Rate \$ 88 per mechanic hour

E. Specify period of time that prices are in effect: Subject to change each January

F. Surcharge for miscellaneous items: 0 %

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry?

YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished?

YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included?

YES NO

SPECIFICATIONS OF THE QUOTED UNIT:

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. **The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specification.**

Manufacturer: Caterpillar Model: 416E

X7.0 Manufacturers AWD design with engage/disengage selection accessible operators station?

YES NO

X7.1 Engine:

X7.1.1 Diesel fueled, water cooled?

YES NO

X7.1.2 Number of Cylinders: Four

X7.1.3 SAE Net Horsepower: 87

X7.2 Transmission:

X7.2.1 Are there 4 forward fully synchronized speeds/ 4 reverse?

YES NO

X7.2.2 Minimum top travel speed: 25 MPH

X7.2.3 Foot operated automatic release, rear axle differential lock engageable under full engine RPM?

YES NO

- X7.3 Steering:
- X7.3.1 Does unit provide full power steering w/emergency dead engine steering capability? YES NO
- X7.4 Brakes:
- X7.4.1 **Are the service brakes 2 wheel minimum, wet disk type, sealed/fully enclosed to allow operation in water, mud, snow,/other adverse conditions without encountering brake loss or fade?** YES NO
- X7.4.2 Are the service brakes pressure lubricated and cooled? YES NO
- X7.4.3 Are the service brakes self adjusting type? YES NO
- X7.4.4 Are the service brakes self equalizing? YES NO
- X7.4.5 Is the parking/secondary brake system independent of the service brakes/of sufficient design to hold weight of machine on incline? YES NO
- X7.4.6 Is the parking brake system equipped w/warning light/or audible alarm? YES NO
- X7.4.7 **Do the brakes conform to or exceed Federal/State standards?** YES NO
- X7.5 Hydraulic System:
- X7.5.1 Is the system provided the manufacturers standard for the model bid/ incorporate a suction strainer/replaceable return line filter? YES NO
- X7.5.2 **Does the backhoe offered provide adequate cooling for hydraulic tools/attachments?** YES NO
Specify GPM 34.8 at 2,200 R.P.M.
- X7.5.3 Are backhoe stabilizer hydraulic lock-outs provided in both the working/transport positions? YES NO
- X7.5.4 Is foot pedal control provided for efficient operation of motor driven attachments/boom mounted rock breaker? YES NO
- X7.6 Electrical System:
- X7.6.1 Manufacturer's 12 volt electrical system provided? YES NO
- X7.6.2 Specify alternator capacity? 100 Ampere
- X7.6.3 Are batteries maintenance free type? YES NO
CCA: 880

- X7.7 Cooling System:
- X7.7.1 **Capable of maintaining engine temperature within the manufacturers recommended range during continuous operation?** YES NO
- X7.7.2 Coolant system incorporate a thermostat/by-pass for warm up? YES NO
- X7.7.3 Is the system filled w/permanent anti-freeze **solution rated to a minus 30°F or lower?** YES NO
- X7.8 Operators Station:
- X7.8.1 Is the cab fully enclosed SAE ROPS/FOPS certified? YES NO
- X7.8.2 Is the cab isolation mounted? YES NO
- X7.8.3 Is instrumentation vandalism protection included on complete unit? YES NO
- X7.8.4 Is the air ride seat deluxe cushioned, swing around type operators seat, fully adjustable, damped, And include manufacturers seat belt w/retractor feature? YES NO
- X7.8.5 **Is tinted safety glass provided in all locations?** YES NO
- X7.8.6 **Are the cab doors lockable/keyed alike?** YES NO
- X7.8.7 Are front/rear windshield wipers w/washers provided? YES NO
- X7.8.8 Is the heater/defroster manufacturers heaviest duty? YES NO
- X7.8.9 Is unit equipped with manufacturers air conditioning? YES NO
- X7.9 Instruments: Unit to have lighted gauges/or monitoring system to include:
- X7.9.1 Transmission temperature? YES NO
- X7.9.2 Engine coolant temperature? YES NO
- X7.9.3 Engine oil pressure? YES NO
- X7.9.4 Hydraulic filter restriction? YES NO
- X7.9.5 Air cleaner restriction? YES NO
- X7.9.6 Fuel gauge? YES NO
- X7.9.7 Volt/Amp gauge? YES NO

- X7.9.8 Hour meter (engine controlled, not key switch)? YES NO
- X7.9.9 Engine coolant temperature, engine oil pressure, parking brake system with audible or visual warning systems? YES NO
- X7.10 Accessories:
- X7.10.1 Locking type tool box large enough to store standard size hand operated grease gun/any special tools required by manufacturer? YES NO
- X7.10.2 OSHA approved back up alarm? YES NO
- X7.10.3 Horn? YES NO
- X7.10.4 Hand/foot controlled throttle? YES NO
- X7.10.5 Muffler with rain proof exhaust? YES NO
- X7.10.6 Lockable engine service door/keyed same as cab door/s? YES NO
- X7.10.7 SMV emblem YES NO
- X7.10.8 Non slip type mounting steps/safety hand holds? YES NO
- X7.10.9 Backhoe boom transport locks? YES NO
- X7.10.10 Is one (1) complete set of filter elements for unit? YES NO
- X7.10.11 Does unit have Class 1 LED low profile beacon? YES NO
- X7.10.11.1 Is provided strobe light in accordance w/radio interference specifications not generating more than 1.0 UV of interference on a radio receiver w/12db of quieting? YES NO
- X7.10.12 Are left/right side and inside rear view mirrors provided? YES NO
- X7.11 Lighting:
- X7.11.1 Number of front halogen work/driving lights: Two
- X7.11.1.1 Switched/identified at operator's station? YES NO
- X7.11.2 Number of combination stop/tail lights: Two
- X7.11.3 Number of rear halogen work lights switched/identified at operator stations: Two
- X7.11.4 Number of front/rear turn/flashing lights: Two front, Two rear
- X7.11.5 Does the cab have a dome light? YES NO

- X7.12 Tires:
X7.12.1 Front tires: 12.5/80-1810 PR I-3 Sure Grip Lug
Rear tires: 19.5L-24 12 PR R4 IT525
- X7.13 Vehicle Frame:
X7.13.1 Does the unit have a single piece weldment, full length unitized main frame? YES NO
- X7.14 Loader:
X7.14.1 Is the loader self leveling? YES NO
X7.14.2 Is the unit equipped with automatic return-to-dig feature? YES NO
X7.14.3 General purpose bucket size 1.25 C.Y. heaped capacity with bolt on cutting edge
 YES NO
- X7.14.3.1 Bucket width: 89 inches
X7.14.4 Breakout force: 10,036 lbs.
X7.14.5 Loader lift rating 6,180 lbs to full height.
X7.14.6 Dumping clearance at full height and 40° 104.
X7.14.7 Bucket rollback at ground 44 degrees
- X7.15 Backhoe:
X7.15.1 Unit digging depth: 14 ft, 4 inches
X7.15.2 Backhoe lifting capacity 4,539 lbs to 12 foot lift height through the full 180° swing arc.
X7.15.3 Backhoe bucket cylinder digging force 11,491 lbs.
X7.15.4 Bucket size: 24" w/hardened/replaceable teeth? YES NO
X7.15.5 Bucket rotation 205 degrees.
X7.15.6 Are provisions made for quick-coupling hyd tools to the unit hyd system? YES NO
X7.15.7 Is the unit capable of operating backhoe/hyd tools simultaneously? YES NO
X7.15.8 **Is the unit equipped with extend-a-hoe feature/approx. 19' dig depth?** YES NO
SEE ADDENDUM

X7.16 Operating Weight:

X7.16.1 SAE operating weight 14,881 lbs exclusive of tire ballast/or counterweights.

X7.16.2 List all other features considered as standard equipment but not specifically addressed:

See Spec Sheet Attached

X7.17 Paint:

Will loader be painted manufacturers standard color? YES NO

X7.18 **Will all units be delivered to WVDOH with all manufacturers recommended safety related decals/safety features intact?** YES NO

X7.19 **Does the proposed unit meet or exceed the "OSHA of 1970" and/or subsequent changes?** YES NO

X7.20 **Does the unit conform to the advertising guidelines?** YES NO

C.I. Walker Machinery Co.
Exceptions to RFQ 7011EC21

All exceptions are on non-mandatory specs (most are for clarification on "approximate" non-mandatory specs)

- X7.6.3 Batteries to be maintenance free type and provide a cold crank amps of 1150 each at zero degrees.
Batteries are 880 cold crank amps.
- X7.6.2 Alternator approximately 78 amps
Alternator is 100 amps
- X7.9.4 Hydraulic filter restriction
No hydraulic filter restriction indicator
- X7.14.3 Unit to provide a G.P. bucket rated at approximately 1.3 C.Y. SAE heaped capacity and a width of approximately 92 inches with bolt on cutting.
Bucket is a G.P. rated at 1.25 C.Y SAE heaped capacity and a width of 89 inches
- X7.14.4 Breakout force of approximately 9,500 lbs
Breakout force is 10,036 lbs.
- X7.14.5 Loader lift rating of approximately 6,500 pounds to full height required
Loader lift rating of 6,180 lbs.
- X7.14.6 Dumping clearance at full height and 40 degrees, 103 inches approximately
Dumping clearance at full height and 40 degrees is 104 inches
- X7.14.7 Bucket rollback at ground approximately 40 degrees
Bucket rollback at ground is 44 degrees
- X7.15.1 Unit should have an approximate digging depth of at least 15 feet 4 inches
Unit has a digging depth (without using e-stick) of 14 feet 4 inches

X7.15.2 Backhoe lifting capacity of approximately 3,500 pounds to 12 foot lift height through the full 180 degrees swing arc.

Backhoe lifting capacity is 4,539 pounds to 12 foot lift height through the full 180 degree swing arc.

X7.15.3 Backhoe bucket cylinder digging force of 11,500 pounds approximately

Backhoe bucket cylinder digging force of 11,491 pounds

X7.15.5 Bucket rotation 180 degrees

Bucket rotation is 205 degrees.

X7.16.1 SAE operating weight of 16,000 pounds (approximately) exclusive of tire ballast and/or counterweights.

SAE operating weight of 14,881 pounds



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 7011EC21

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 BUYER 33
 304-558-2402

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

BUYER

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/01/2011				

BID OPENING DATE: 06/15/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
BID OPENING DATE AND TIME CHANGED						
FROM: 06/01/11 @1:30 P.M						
TO: 06/15/11 @1:30 P.M.						
NO OTHER CHANGES						
0001	1	EA		975-66		
ALL WHEEL DRIVE LOADER WITH BACKHOE						
***** THIS IS THE END OF RFQ 7011EC21 ***** TOTAL:						<u>\$68,969</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. L. Com...</i>	TELEPHONE (304) 543-5406	DATE 6/29/11
TITLE SALES REPRESENTATIVE	FEIN 55-0352647	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**PRE-BID CONFERENCE
SIGN IN SHEET**

Request for Quotation Number: 7011EC21

Date: 5/17/2011 10:00

Project Description: All Wheel Drive Loader with Backhoe, Wheel Type

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	<u>MH EQUIPMENT JCB</u>
Firm Address:	<u>126 LAKEVIEW DRIVE CHARLESTON WV 25313</u>
Representative Attending:	<u>DES JARVIS</u>
Phone Number:	<u>304-741-8575</u>
Fax Number:	
Email Address:	<u>des.jarvis@jcb.com</u>

Firm Name:	<u>C.I. WALKER MACHINERY</u>
Firm Address:	<u>P.O. Box 2427 CHARLESTON, WV 25329</u>
Representative Attending:	<u>MATT CONNER</u>
Phone Number:	<u>(304) 543-5406</u>
Fax Number:	<u>(304) 759-6404</u>
Email Address:	<u>mconner@walkers-cat.com</u>

Firm Name:	<u>UNIVERSITY TOOL & EQUIPMENT CO INC</u>
Firm Address:	<u>2266 UNIVERSITY DRIVE LEWISTON PENNSYLVANIA 15456</u>
Representative Attending:	<u>MIKE CLOWER</u>
Phone Number:	<u>724-437-1578</u>
Fax Number:	<u>724-437-2098</u>
Email Address:	<u>MCLOWER@UEEC.COM</u>

Firm Name:	<u>Angie Moorman</u>
Firm Address:	<u>DOH</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>WEST VIRGINIA TRACTOR</u>
Firm Address:	<u>P.O. BOX 473 CHARLESTON, WV 25322</u>
Representative Attending:	<u>GARY W. GRADY</u>
Phone Number:	<u>304-346-5301</u>
Fax Number:	<u>304-346-5305</u>
Email Address:	<u>wtfractors@msa.com</u>

Firm Name:	<u>WVDOIT</u>
Firm Address:	
Representative Attending:	<u>Karen Cochran</u>
Phone Number:	
Fax Number:	
Email Address:	

**PRE-BID CONFERENCE
SIGN IN SHEET**

Request for Quotation Number:

7011EC21

Date:

5/17/2011 10:00

Project Description:

All Wheel Drive Loader with Backhoe, Wheel Type

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	WVDOOT - 0070
Firm Address:	
Representative Attending:	Debra Ferrell
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	STATE EQUIPMENT INC
Firm Address:	PO Box 3939
	CHARLESTON WVA
Representative Attending:	KANDY BELCASTRO
Phone Number:	304 592 0791
Fax Number:	304 592 0799
Email Address:	KANDY B @ STATE EQUIPMENT.COM

Firm Name:	WVDOOT - 0070
Firm Address:	
Representative Attending:	Tammy Clemenger
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	RISH EQUIPMENT COMPANY
Firm Address:	P.O. Box 906
	BRIDGEPORT, WV 26330
Representative Attending:	ANTONIO B. SELARIO
Phone Number:	304 - 842 - 3511
Fax Number:	304 - 842 - 1626
Email Address:	aselario@rish.com

Firm Name:	Lesha Equipment Company
Firm Address:	P.O. Box 299
	Norbin, WV 26285
Representative Attending:	David Gasenid
Phone Number:	(E) 304-672-9826 (W) 304-636-6721
Fax Number:	304-636-3516
Email Address:	Gaseniddavid@LEL3.com

Firm Name:	WVDA
Firm Address:	
Representative Attending:	Kevin Riley
Phone Number:	
Fax Number:	
Email Address:	



State of West Virginia
 Department of Administration
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Request for Quotation

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PAGE
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 TYPE NAME/ADDRESS HERE

VENDOR

BUYER

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/13/2011				

BID OPENING DATE: 06/29/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
BID OPENING DATE AND TIME CHANGED						
FROM: 06/15/2011 @1:30 P.M.						
TO: 06/29/2011 @1:30 P.M.						
NO OTHER CHANGES						
0001	1	EA		975-66		
ALL WHEEL DRIVE LOADER WITH BACKHOE						
***** THIS IS THE END OF RFQ 7011EC21 ***** TOTAL:						<u>\$68,969</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. S. C.</i>	TELEPHONE (304) 543-5406	DATE 6/29/11
TITLE SALES Rep.	FEIN 55-0352647	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
7011EC21

PAGE
1

ADDRESS CORRESPONDENCE TO (IF DIFFERENT)
 BUYER 33
 304-558-2402

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

BUYER

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/17/2011				

BID OPENING DATE: **06/29/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 3						
CHANGES TO THE SPECIFICATIONS PER THE ATTACHED.						
BID OPENING DATE AND TIME REMAINS 06/29/11 @1:30 P.M.						
NO OTHER CHANGES						
0001	1	EA		975-66		
ALL WHEEL DRIVE LOADER WITH BACKHOE						
***** THIS IS THE END OF RFQ 7011EC21 ***** TOTAL:						<u>\$68,969</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. J. C.</i>	TELEPHONE (304) 543-5406	DATE 6/29/11
TITLE Sales Rep.	FEIN 55-0352647	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**ADDENDUM #3
(ADDENDUM FROM PREBID MEETING)
7011EC21**

ALL WHEEL DRIVE LOADER WITH BACKHOE

CHANGES TO SPECIFICATIONS:

FROM:

**4.2 DELIVERY – 2nd Paragraph 2nd Sentence
Delivery is preferred within 120 calendar days after receipt of purchase agreement.**

TO:

**4.2 DELIVERY – 2nd Paragraph 2nd Sentence
Delivery is preferred within 150 calendar days after receipt of purchase agreement.**

FROM:

**4.2 DELIVERY - 3rd Paragraph
A completed pilot model for inspection must be provided within 90 calendar days after receipt of the purchase agreement by the successful vendor.**

TO:

**4.2 DELIVERY - 3rd Paragraph
A completed pilot model for inspection must be provided within 120 calendar days after receipt of the purchase agreement by the successful vendor.**

FROM:

7.15.8 Unit shall be equipped with extend-a-hoe feature with approximate dig depth of 19 feet.

TO:

7.15.8 Unit shall be equipped with extend-a-hoe feature with 17 feet dig depth minimum.

ADDENDUM #3
(ADDENDUM FROM PREBID MEETING)
7011EC21

ALL WHEEL DRIVE LOADER WITH BACKHOE

CHANGES TO BIDDER'S EVALUATION REPORT:

NO CHANGE REQUIRED ON BID OPENING DATE:

NO CHANGE REQUIRED

X4.2 DELIVERY

X4.2.1 Delivery date of completed representative unit: 120 Calendar Days After
Receipt of Purchase Agreement

X4.2 Delivery date of balance of completed units: 150 Calendar Days After Receipt of
Purchase Agreement

FROM:

X7.15.8 Is the unit equipped with extend-a-hoe feature/approx. 19' dig depth? YES NO

TO:

X7.15.8 Is unit equipped with extend-a-hoe feature YES NO

Extend-a-hoe digging depth: 17' 11" feet

416E

Backhoe Loader

CATERPILLAR®



Engine

Engine Model	Cat® C4.4 DITA	
Gross Power @ 2,200 rpm – SAE J1995	71 kW	96 hp
Net Power @ 2,200 rpm – SAE J1349	65 kW	87 hp
Net Peak Power @ 2,000 rpm – SAE J1349	66 kW	89 hp

Weights

Operating Weight – Nominal	6750 kg	14,881 lb
Operating Weight – Maximum	10 200 kg	22,466 lb

Backhoe

Dig Depth – Standard	4360 mm	14 ft 4 in
Dig Depth – Extended	5456 mm	17 ft 11 in

416E Features

World-Class Cab

Standard air suspension seat, ergonomic controls layout and more visibility make you feel comfortable – for a safer, more productive work day.

Load-Sensing Hydraulics

Variable displacement piston pump and flow sharing hydraulic valves provide smooth control and optimized fuel efficiency.

Improved Power Train

Top travel speed of 40 km/h/25 mph so you can get on and off the site faster.

Optional Features

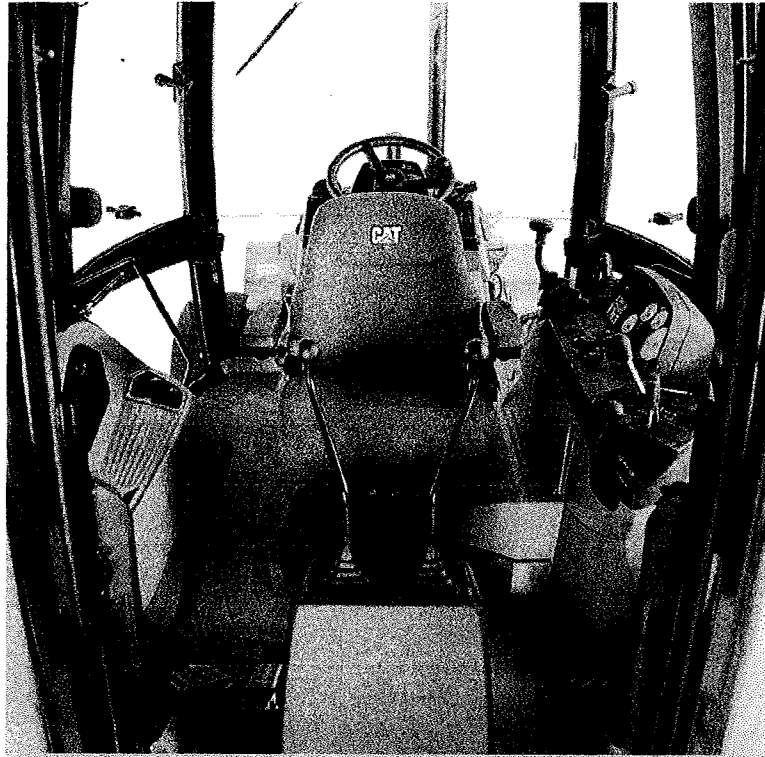
Ride Control and AccuGrade™ can improve operator comfort and productivity.



Contents

Operator Station.....	3
Hydraulics	4
Ride Control.....	4
Power Train.....	5
Backhoe.....	6
Loader.....	6
Technology Products.....	7
Work Tools.....	8
Serviceability.....	9
Customer Support.....	9
416E Backhoe Loader Specifications.....	10
416E Standard Equipment.....	18
416E Optional Equipment.....	19

The 416E lets you get more done with less effort in a more comfortable operator station, with a serviceable extendible stick design and increased performance.



Operator Station

Comfort, visibility and style.

Experience a whole new level of comfort with the spacious E-Series operator station. The ergonomic, automotive style enhances the operator environment. A narrow front dash provides excellent visibility to the front bucket. Reduced vibration keeps operator fatigue low. In-cab storage compartment and lockable tool and battery box provides ample space for tools and belongings. The operator station also features an easy-to-read gauge cluster.

Air Suspension Seat

The standard air suspension seat is adjustable for a greater operating range and more comfortable ride. A switch allows the seat to be tailored to support differing body weights. Adjustable seat height accommodates all operators.

Improved Air Conditioning

The improved air conditioning system features enhanced air distribution and performance for a more comfortable work environment. A nearly 20% increase in air flow over the D-Series combined with improved louver locations provide superior operator comfort.

Backhoe Controls

Two mechanical control patterns are available: two lever excavator, and two lever backhoe.

Configurations

The 416E operator station is available in 5 options – ROPS Canopy, ROPS Canopy Plus, Utility Cab, Utility Cab Plus and Utility Cab Plus with Air Conditioning. See Standard and Optional Equipment for details.

Hydraulics

Load-sensing system matches power to demand.



The 416E has a load-sensing, closed center hydraulic system, which closely matches power and flow to the demand needed by the implements. So whether you're in full trenching mode, or delicately digging around services, you are in control.

In applications such as production trenching, speed is important and the system will match the flow needed to get the job done quickly and efficiently. The load-sensing hydraulic system also delivers:

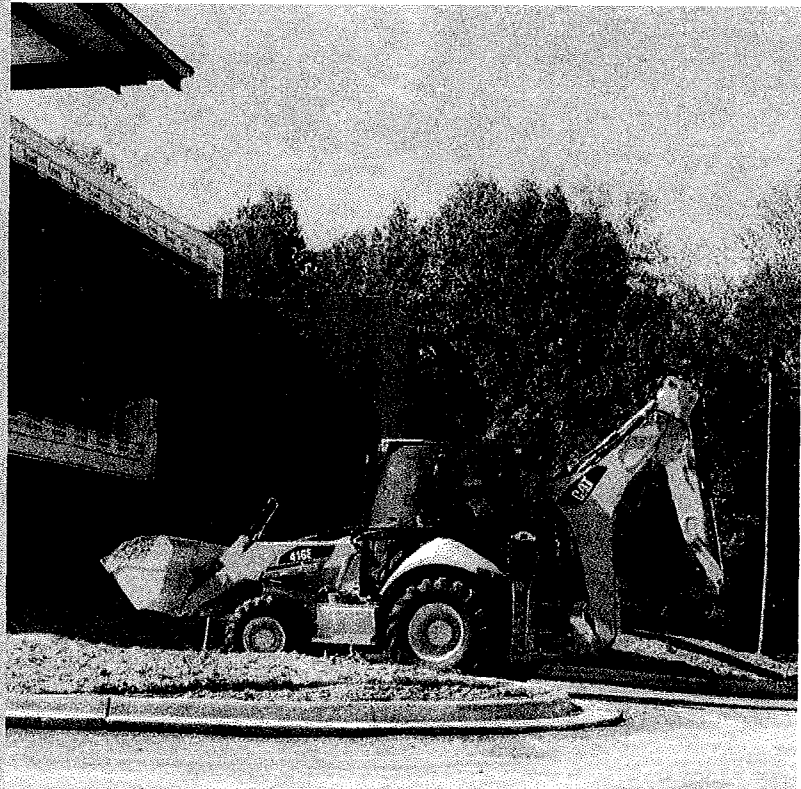
- A cooler hydraulic system
- Better fuel efficiency
- Quieter operation
- Reduced wear on components

Cat XT™-3 ES ToughGuard™ hoses combined with Cat couplings and O-ring face seal fittings provide a leak-free system. The 416E also features new flow-sharing hydraulic valves, ensuring proportional flow of oil to all hydraulic cylinders, providing greater control and improving multi-function performance.

Ride Control

Delivers even greater operator comfort.

The optional Ride Control System smoothes the ride in all conditions, including load and carry, highway roading, or simply moving around the job site. It reduces machine loping, providing a smooth and stable ride for increased operator comfort and reduced operator fatigue. The Ride Control option improves material retention in the loader bucket for increased productivity and a cleaner job site. The system is easily engaged by an On/Off switch on the front console.



Power Train

Built for performance, power, reliability and fuel efficiency.

Cat Engine

The 416E features the Cat® C4.4 DITA (Direct Injection Turbocharged Aftercooled) engine and meets all U.S. EPA Tier 3/EU Stage IIIa emissions requirements. Horsepower and torque rise deliver strong loading and roading performance.

- The water separator service indicator ensures the operator is alerted when service is necessary.
- Dry-type axial seal air cleaner with automatic, integrated dust ejection system for more efficient pre-separation. Both air cleaner and precleaner functions are incorporated into a single unit mounted under the hood.

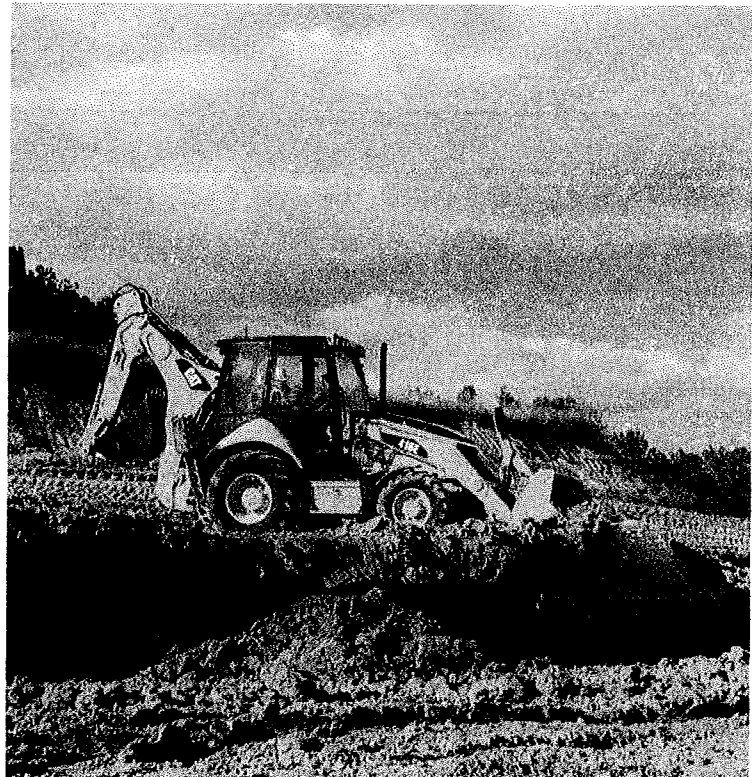
Transmission

The Cat standard power shuttle transmission provides four speeds forward and reverse. Hydraulically shifted clutches allow on-the-go direction and travel speed shifts.

- Hydraulic proportional control valves smooth speed and directional shifts.
- Four Wheel Drive (4WD) option improves mobility and loader performance in poor underfoot and can be activated on-the-go.
- Maximum roading speed of 40 km/h (25 mph) for faster travel between job sites.
- Cat Rear Axles are designed specifically for demanding backhoe loader applications. Axles feature outboard planetary gear sets for easy serviceability and brake design improvements for longer service life.

Brake Mode Selector

The brake mode selector switch has three positions: two wheel drive, two wheel drive with all wheel braking and four wheel drive. Two wheel drive with all wheel braking provides better tire life while roading and engages the front axle when brakes are applied for improved braking performance.



Backhoe

Designed for high performance and easy service.

The E-Series backhoe delivers industry-leading digging forces. Serrated edges on the stick provide improved material clamping for clearing and demolition applications. The single pin bucket linkage contributes to best-in-class rotation of 205 degrees for all applications.

E-Stick Design

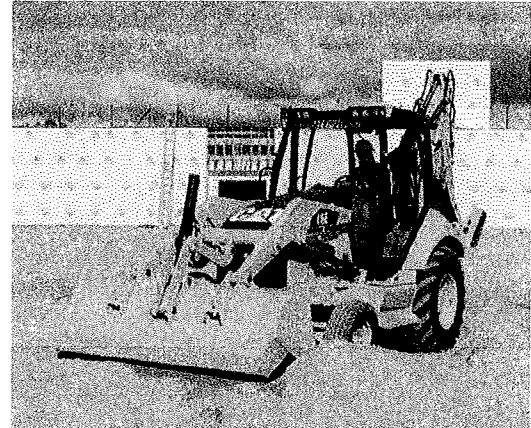
The optional extendible stick (E-stick) increases reach and dig depth by approximately 1.2 meters (4 feet). The new design delivers increased life and easy in-field adjustment with common hand tools.

Curved Boom

The excavator-style boom is built for optimum performance and durability. The curved design provides additional clearance over obstacles while digging a trench or truck loading. The narrow boom enhances the viewing area to the bucket and trench throughout the entire operating range.

Thumbs

Thumb mounting provisions are standard on every Cat Backhoe Loader for added machine versatility. Hydraulic thumbs are available factory-installed. Mechanical thumbs are available through your Cat Dealer.



Loader

Strong lift
and breakout.

Single Tilt

The standard single tilt loader linkage on the 416E features strong lift and breakout forces for solid performance in backfilling and truck loading applications. The 416E is equipped with either a general purpose or multi-purpose pin-on bucket to meet your specific needs.

Return-to-Dig

The return-to-dig system reduces loading cycle times by bringing the loader bucket back to the dig position with an easy pull of the lever. By the time the loader bucket is at ground level, the bucket is angled correctly for the next load or cut.



Technology Products

Advanced technologies improve productivity and simplify serviceability.

AccuGrade™ System

The AccuGrade system for backhoe loaders improves digging accuracy and site safety by eliminating the need for manual grade measuring. Both the Site and Laser Reference Systems save time and money in a variety of digging and trenching applications.

Site Reference System

The Site Reference System allows the operator to excavate to pre-determined coordinates. The intuitive software and controls allow the operator to set target grades.

An in-cab display allows the operator to enter slope and dig depth parameters. Easy to read grade indicator and elevation display delivers all system information to the cab for easy viewing by the operator. System includes rugged components built to withstand the harshest environments:

- In-cab display
- Cylinder position sensors
- Swing position sensor
- Inclinometer
- Wiring harnesses

Laser Reference System

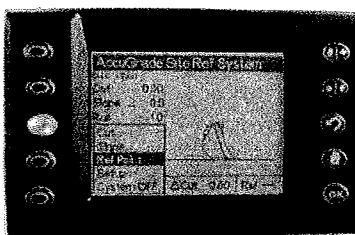
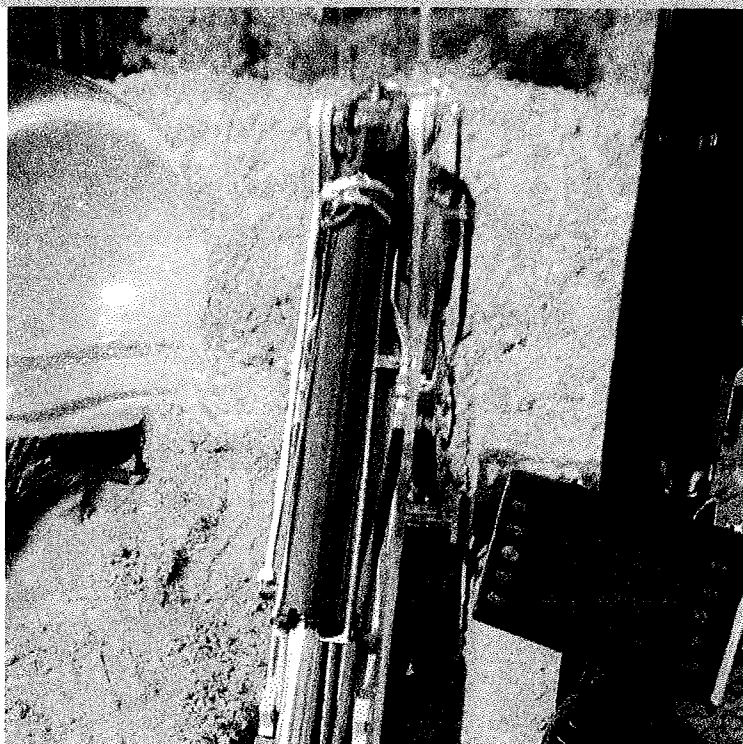
The Laser Reference System works with laser transmitters to accurately grade or excavate to a site plan without the use of grade stakes. The Laser System includes all the components of the Site Reference System with the addition of the following:

- Laser receiver
- Electric mast and mount
- Laser wiring harness

Note: Laser transmitter and tripod sold separately

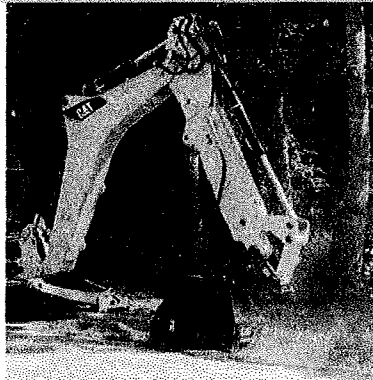
Product Link

Product Link uses GPS technology to provide machine data, including service hours, location, events and diagnostic information, to you through a web-based application or e-mail/pager notification.



Work Tools

Do more jobs with one machine.



Backhoe Work Tools

A large selection of backhoe tools – including a new hydraulic thumb – gives you the flexibility to serve more customers, more profitably.

- Standard Duty, Heavy Duty, Heavy Duty Rock, Pin Lock, Soil Excavation, Coral and Ditch Cleaning Buckets
- Cold Planer
- Hydraulic Hammer
- Auger
- Ripper
- Mechanical and Hydraulic Thumbs
- Quick Coupler
- Vibratory Plate Compactor

Loader Work Tools

The loader tool line includes the following:

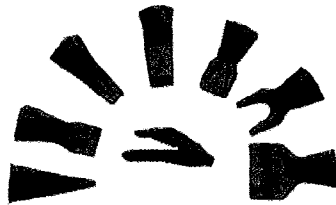
- General Purpose Bucket
- Multi Purpose Bucket
- Side Dump Bucket
- Light Material Bucket
- Loader Forks

The right bucket makes all the difference

To get top performance from your Cat backhoe loader, be sure your machine is equipped with the proper bucket and tips. The soil excavation bucket provides the best productivity in most conditions.

DRS 230 (Diagonal Retention System)

Heavy-duty bucket teeth are attached with diagonal pins rather than horizontal pins for easy exchange.



Serviceability

Easy access and minimal maintenance requirements maximize uptime.



Convenient service features make maintenance easy, reducing your downtime.

- Tilt-up hood provides convenient access to all engine check points.
- Fill caps are color-coded for quick identification.
- S•O•SSM, Coolant Sampling and Technical Analysis help you avoid unscheduled repairs.
- Caterpillar is committed to providing you with a safe work environment. For more information please visit SAFETY.CAT.COMTM.

Customer Support Makes the difference.

Your Cat dealer is ready to assist you with your purchase decision and everything after.

- Financing packages are flexible to meet your needs.
- Your Cat dealer can evaluate the cost to repair, rebuild and replace your machine, so you can make the right choice.
- Nearly all parts are available at your Cat dealer parts counter.
- See your dealer's website or www.cat.com to customize the machine that is right for you using the Build and Quote applications. Also find information on other Cat products, dealer services and industry solutions.



416E Backhoe Loader Specifications

Engine

Engine Model (Standard)	Cat® C4.4 DITA	
Gross Power – SAE J1995	71 kW	96 hp
Gross Power – ISO 14396	70 kW	94 hp
Net Power – SAE J1349	65 kW	87 hp
Net Power – ISO 9249	66 kW	88 hp
Net Power – EEC 80/1269	66 kW	88 hp
Net Peak Power @ 2,000 rpm – SAE J1349	66 kW	89 hp
Net Peak Power @ 2,000 rpm – ISO 9249	67 kW	90 hp
Net Peak Power @ 2,000 rpm – EEC 80/1269	67 kW	90 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 L	268 in ³
Net Torque Rise @ 1,400 rpm – Standard	35%	
Net Peak Torque @ 1,400 rpm – Standard – SAE J1349	384 N·m	283 lb ft

- Engine meets all U.S. EPA Tier 3/ EU Stage IIIa emissions requirements.
- The net power ratings apply at 2,200 rpm when tested under the specified conditions for the specified standard.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Based on standard air conditions of 25° C (77° F) and 99 kPa (29.32 in) in dry barometer.
- Used 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 BTU/lb) when used at 30° C (89° F) (reference a fuel density of 838.9 g/L [7.001 lb/gal]).
- No derating required up to 3000 m (9,843 ft).
- Net torque rise meets SAE J1349.
- Net peak power ratings apply at conditions specified above.

Weights

Operating Weight – Nominal	6750 kg	14,881 lb
Operating Weight – Maximum	10 200 kg	22,466 lb
Cab, ROPS/FOPS	260 kg	573 lb
Ride Control	25 kg	55 lb
Air Conditioning	39 kg	86 lb
Four Wheel Drive	155 kg	342 lb
Extendible Stick (no weights)	299 kg	659 lb
Counterweights (Option 1)	116 kg	255 lb
Counterweights (Option 2)	231 kg	510 lb
Counterweights (Option 3)	488 kg	1,075 lb

- Total gross machine weight not to exceed 10 200 kg (22,466 lb).

Backhoe

Dig Depth – Standard	4360 mm	14 ft 4 in
E-Stick Retracted	4402 mm	14 ft 5 in
E-Stick Extended	5456 mm	17 ft 11 in
Reach from Swing Pivot – Standard	5618 mm	18 ft 5 in
E-Stick Retracted	5657 mm	18 ft 7 in
E-Stick Extended	6666 mm	21 ft 10 in
Bucket Rotation	205 Degrees	
Bucket Dig Force – Standard	52.2 kN	11,749 lb
E-Stick Retracted	51.5 kN	11,491 lb
E-Stick Extended	51.5 kN	11,491 lb
Stick Dig Force – Standard	32 kN	7,200 lb
E-Stick Retracted	32 kN	7,200 lb
E-Stick Extended	23.5 kN	5,250 lb
Stick Lift @ 2440 mm (8 ft) – Standard	2275 kg	5,005 lb
E-Stick Retracted	2063 kg	4,539 lb
E-Stick Extended	1290 kg	2,839 lb
Loading Height – Standard	3643 mm	11 ft 11 in
E-Stick Retracted	3600 mm	11 ft 9 in
E-Stick Extended	4170 mm	13 ft 7 in
Loading Reach – Standard	1837 mm	6 ft 0 in
E-Stick Retracted	1923 mm	6 ft 2 in
E-Stick Extended	2836 mm	9 ft 1 in

Loader

Bucket Capacity – General Purpose	0.76 m ³	1 yd ³
Bucket Width – General Purpose	2262 mm	7 ft 5 in
Dump Height @ Max Angle – Single Tilt	2651 mm	8 ft 8 in
Dump Reach @ Max Angle – Single Tilt	772 mm	2 ft 6 in
Dig Depth – Single Tilt	106 mm	4 in
Lift Capacity @ Full Height – Single Tilt	2803 kg	6,180 lb
Bucket Breakout Force – Single Tilt	44.6 kN	10,036 lb

Hydraulic System

Circuit Type	Closed center, load sensing	
Pump Capacity (@ 2,200 rpm)	132 L/min	34.8 gal/min
System Pressure – Backhoe	22 700 kPa	3,300 psi
System Pressure – Loader	20 700 kPa	3,000 psi
Pump Type	Variable-flow, axial piston	
Steering Type	Front wheel	
Power Steering	Hydrostatic, HMU	
2WD Cylinder – Bore	65 mm	2.6 in
Stroke	120 mm	4.7 in
Rod Diameter	36 mm	1.4 in
4WD Cylinder – Bore	65 mm	2.6 in
Stroke	120 mm	4.7 in
Rod Diameter	36 mm	1.4 in
Brake System	Inboard, oil-immersed, multiple disc	

Power Train

Power-Shuttle, Forward 1st	6 km/h	3.7 mph
Forward 2nd	9.6 km/h	5.9 mph
Forward 3rd	20 km/h	12 mph
Forward 4th	40 km/h	25 mph
Power-Shuttle, Reverse 1st	6 km/h	3.7 mph
Reverse 2nd	9.6 km/h	5.9 mph
Reverse 3rd	20 km/h	12 mph
Reverse 4th	40 km/h	25 mph

- Conveniently placed, hand operated lever provides instant direction changes between forward and reverse through power hydraulic clutches.
- Torque converter free-wheel clutch allows the converter stator to free-wheel during high speed, low torque conditions such as roading.
- Single-stage, 2.63:1 stall ratio.
- Travel speeds of two wheel drive backhoe loader at full throttle when equipped with 19.5 × 24 rear tires.

Operating Specifications – Backhoe

Turning Circle: outside, front wheels	8.18 m	26 ft 10 in
Turning Circle: outside, widest loading bucket	10.97 m	36 ft

- ISO 5010.
- 2WD, 4WD (inner wheel not braked).

Service Refills

Cooling System	20.5 L	5.4 gal
Fuel Tank	170 L	45 gal
Engine Oil w/Filter	7.6 L	2 gal
Transmission-Torque Converter, 2WD, Power Shuttle	18.5 L	4.9 gal
Transmission-Torque Converter, 4WD, Power Shuttle	18.5 L	4.9 gal
Rear Axle	16.5 L	4.4 gal
Rear Axle, Planetaries	1.7 L	0.4 gal
Front Axle, 4WD	11 L	2.9 gal
Front Axle, Planetaries	0.7 L	0.2 gal
Hydraulic System	90 L	23.8 gal
Hydraulic Tank	38 L	10 gal

Standards

Brakes	SAE J/ISO 3450, ISO 3450 1996	
Cab – ROPS	SAE J1040 May 1994/ ISO 3741 1994	
Cab – FOPS	SAE J/ISO 3449 APR98 LEVEL II and ISO 3449: 1992 LEVEL II	
Cab – Sound	ANSI/SAE J1166 Oct 98 is 80 dB (A)	
Exterior Sound	SAE J88 JUN86 is 76 dB (A)	

416E Backhoe Loader Specifications

Axle Ratings

Front Axle, 2WD, Static	22 964 kg	50,582 lb
Dynamic	9186 kg	20,233 lb
Front Axle, 4WD, Static	22 964 kg	50,582 lb
Dynamic	9186 kg	20,233 lb
Rear Axle, Static	22 964 kg	50,582 lb
Dynamic	9186 kg	20,233 lb
Axle Oscillation	10 Degrees	

- 4WD and 2WD axles are pendulum mounted and permanently sealed and lubricated, requiring no daily maintenance. Also features double-acting steering cylinder with 52° steering angle for increased maneuverability.

Engine Features

- Three-ring pistons made of lightweight, silicon/aluminum alloy for strength and maximum thermal conductivity.
- Forged chrome/molybdenum-steel crankshaft with salt bath nitrocarburized pins and journals.
- Front and rear crankshaft oil seals are “lip” type Viton and PTFE designs featuring an integral dust lip.
- For durability, inlet valves are nitrided, martensitic chrome silicon steel, while exhaust valves are nitrided, austenitic chrome manganese-nickel steel.
- Cylinder block is high strength, cast iron alloy of deep skirt, monobloc design for increased strength and long life.
- Cylinder head is high strength, cast iron alloy construction with extra duty wall and deck thickness. Intake and exhaust ports are precision cast to promote optimum gas flow.
- Direct injection fuel system provides accurate fuel delivery and efficiency.
- Dry-type axial seal air cleaner with integral precleaner, automatic dust ejection system, and filter condition indicator.
- Direct electric, 12-volt starting and charging system with 880 CCA Group 31 maintenance free battery.
- Standard glow plug starting aid system for efficient cold weather starting.
- High contact ratio/gear train, peripheral fixed isolation top cover and open deck block design reduce bare engine noise.
- Higher low end torque for better engine/machine performance.

Tires

Choices listed as combination of front/rear tires:

- 11L-16 (12 ply) F-3/19.5L-24 (12 ply) R4 ATU
- 12.5/80-18 NHS (12 ply) 1-3 Super Traction/19.5L-24 (12 ply) R4 ATU
- 12.5/80-18 NHS (12 ply) 1-3 Super Traction/21L-24 (16 ply) R4 ATU
- 340/80R 18 XMCL/500/70R 24 XMCL
- 340/80R 18 XMCL/19.5L-R24 (12 ply) R4 ATU

Brakes

Features:

- Brakes meet the following standards: SAE J1473 and ISO 3450 requirements.
- Self-adjusting, completely enclosed and sealed.
- Foot operated brake pedals can be interlocked for roading.
- Parking/secondary brakes are independent of the service brake system. Parking brake is mechanically applied through an adjustable hand lever located on the right console.

Counterweights

Minimum Counterweight Recommendations

Standard Stick

Loader Bucket	Power Train	kg	lb
GP	2WD	231	510
GP	4WD	116	255
MP	2WD/4WD	no counterweight	

Extendible Stick

Loader Bucket	Power Train	kg	lb
GP	2WD/4WD	488	1,075
GP	2WD	231	510
MP	4WD	116	255

Backhoe Buckets

With weld on adapters and pin-on teeth

Standard Duty

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	78	2.8	97	213	3
457	18	118	4.2	115	253	4
610	24	175	6.2	132	290	5
762	30	233	8.2	147	323	5
914	36	292	10.3	165	363	6

Heavy Duty

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	78	2.8	105	231	3
406	16	105	3.7	128	282	3
457	18	118	4.2	129	284	4
610	24	175	6.2	151	332	5
762	30	233	8.2	167	367	5
914	36	292	10.3	189	416	6

Soil Excavation

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
457	18	181	6.4	153	336	4
610	24	241	8.5	179	395	5
762	30	320	11.3	197	434	5
914	36	380	13.4	223	491	6

Heavy Duty Rock

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	70	2.5	120	265	3
457	18	127	4.5	150	331	4
610	24	198	7.0	175	386	5
762	30	255	9.5	195	430	5
914	36	311	11.5	210	463	6

Coral

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	60	2.1	134	295	4
457	18	100	3.5	155	341	6
610	24	140	4.9	182	402	8
762	30	190	6.7	210	463	10

416E Backhoe Loader Specifications

Machine Dimensions

	Single-Tilt Loader					
	General Purpose (0.76 m ³ /1.0 yd ³)		General Purpose (0.96 m ³ /1.25 yd ³)		Multi Purpose (1.0 m ³ /1.3 yd ³)	
	mm	ft/in	mm	ft/in	mm	ft/in
(1) Overall transport length	7233	23 ft 9 in	7321	24 ft 0 in	7285	23 ft 11 in
Overall length (loader on ground)	7180	23 ft 7 in	7293	23 ft 11 in	7209	23 ft 8 in
(2) Overall transport height (standard stick)	3577	11 ft 9 in	3577	11 ft 9 in	3577	11 ft 9 in
Overall transport height (extendible stick)	3631	11 ft 11 in	3631	11 ft 11 in	3631	11 ft 11 in
Overall width	2322	7 ft 7 in	2322	7 ft 7 in	2322	7 ft 7 in
(3) Height to top of cab/canopy	2819	9 ft 3 in	2819	9 ft 3 in	2819	9 ft 3 in
(4) Height to top of exhaust stack	2754	9 ft 0 in	2754	9 ft 0 in	2754	9 ft 0 in
Height to loader hinge pin (transport)	365	1 ft 2 in	365	1 ft 2 in	417	1 ft 4 in
Ground clearance (minimum)	320	1 ft 1 in	320	1 ft 1 in	320	1 ft 1 in
(5) Rear axle centerline to front grill	2704	8 ft 10 in	2704	8 ft 10 in	2704	8 ft 10 in
Front wheel tread gauge	1880	6 ft 2 in	1880	6 ft 2 in	1880	6 ft 2 in
Rear wheel tread gauge	1727	5 ft 8 in	1727	5 ft 8 in	1727	5 ft 8 in
(6) Wheelbase 2WD/4WD	2200	7 ft 3 in	2200	7 ft 3 in	2200	7 ft 3 in

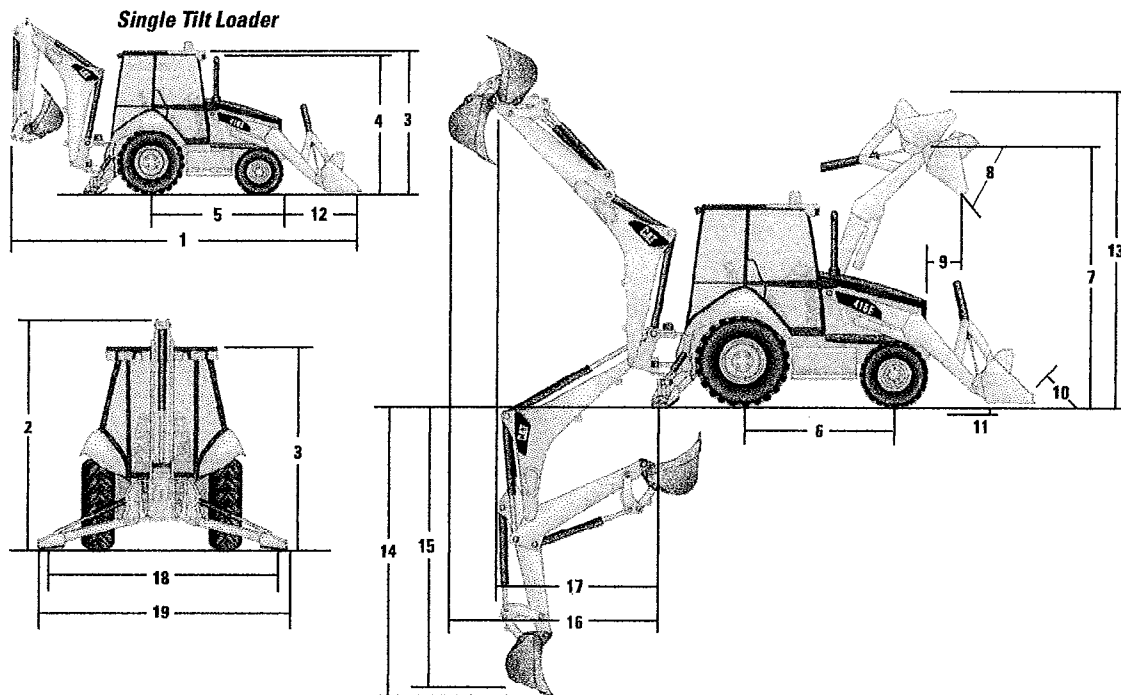
Loader Bucket Dimensions and Performance

	Single-Tilt Loader					
	General Purpose (0.76 m ³ /1.0 yd ³)		General Purpose (0.96 m ³ /1.25 yd ³)		Multi Purpose (1.0 m ³ /1.3 yd ³)	
	mm	ft/in	mm	ft/in	mm	ft/in
Capacity (SAE rated)	0.76 m ³	1.0 yd ³	0.96 m ³	1.25 yd ³	1.0 m ³	1.3 yd ³
Width	2262 mm	7 ft 5 in	2262 mm	7 ft 5 in	2279 mm	7 ft 6 in
Lift capacity at maximum height	2547 kg	5,615 lb	2427 kg	5,351 lb	2225 kg	4,905 lb
Breakout force	40.9 kN	9,185 lb	38.1 kN	8,565 lb	37.2 kN	8,363 lb
(7) Maximum hinge pin height	3296 mm	10 ft 10 in	3296 mm	10 ft 10 in	3296 mm	10 ft 10 in
(8) Dump angle at full height	44°		44°		44°	
Dump height at maximum angle	2651 mm	8 ft 8 in	2573 mm	8 ft 5 in	2624 mm	8 ft 7 in
(9) Dump reach at maximum angle	772 mm	2 ft 6 in	853 mm	2 ft 10 in	761 mm	2 ft 6 in
(10) Maximum bucket rollback at ground level	39°		39°		40°	
(11) Digging depth	106 mm	4 in	106 mm	4 in	133 mm	5 in
Maximum grading angle	110°		107°		110°	
Width of dozer cutting edge	N/A		N/A		2262 mm	7 ft 5 in
(12) Grill to bucket cutting edge, carry position	1428 mm	4 ft 8 in	1516 mm	5 ft 0 in	1480 mm	4 ft 10 in
(13) Maximum operating height	4063 mm	13 ft 4 in	4196 mm	13 ft 9 in	4244 mm	13 ft 11 in
Jaw opening maximum	N/A		N/A		790 mm	2 ft 7 in
Bucket jaw clamping force	N/A		N/A		50.6 kN	11,385 lb
Weight (does not include teeth or forks)	384 kg	847 lb	451 kg	994 lb	745 kg	1,642 lb

Backhoe Dimensions and Performance

	Standard Stick		Extendible Stick Retracted		Extendible Stick Extended	
(14) Digging depth, SAE (max.)	4360 mm	14 ft 4 in	4402 mm	14 ft 5 in	5456 mm	17 ft 11 in
(15) Digging depth, 610 mm (2 ft) flat bottom	4321 mm	14 ft 2 in	4363 mm	14 ft 4 in	5420 mm	17 ft 10 in
Reach from rear axle centerline at ground line	6721 mm	22 ft 1 in	6760 mm	22 ft 2 in	7769 mm	25 ft 6 in
(16) Reach from swing pivot at ground line	5618 mm	18 ft 5 in	5657 mm	18 ft 7 in	6666 mm	21 ft 10 in
Maximum operating height	5523 mm	18 ft 1 in	5555 mm	18 ft 3 in	6302 mm	20 ft 8 in
Loading height	3636 mm	11 ft 11 in	3577 mm	11 ft 9 in	4145 mm	13 ft 7 in
(17) Loading reach	1768 mm	5 ft 10 in	1868 mm	6 ft 2 in	2771 mm	9 ft 1 in
Swing arc	180°		180°		180°	
Bucket rotation	205°		205°		205°	
(18) Stabilizer spread, operating position (center)	3310 mm	10 ft 10 in	3310 mm	10 ft 10 in	3310 mm	10 ft 10 in
(19) Stabilizer spread, operating position (outside)	3770 mm	12 ft 4 in	3770 mm	12 ft 4 in	3770 mm	12 ft 4 in
Stabilizer spread, transport position	2322 mm	7 ft 7 in	2322 mm	7 ft 7 in	2322 mm	7 ft 7 in
Bucket dig force	51.8 kN	11,655 lb	51.1 kN	11,491 lb	51.1 kN	11,491 lb
Stick dig force	31.8 kN	7,151 lb	31.8 kN	7,151 lb	23.4 kN	5,250 lb

Dimensions and performance specifications shown are for machines equipped with 12.5/80-18 SGL front tires, 19.5L-24 IT525 rear tires, ROPS canopy, standard stick with 610 mm (24 inch) standard-duty bucket, and 0.76 m³ (1.0 yd³) loader bucket and standard equipment unless otherwise specified.

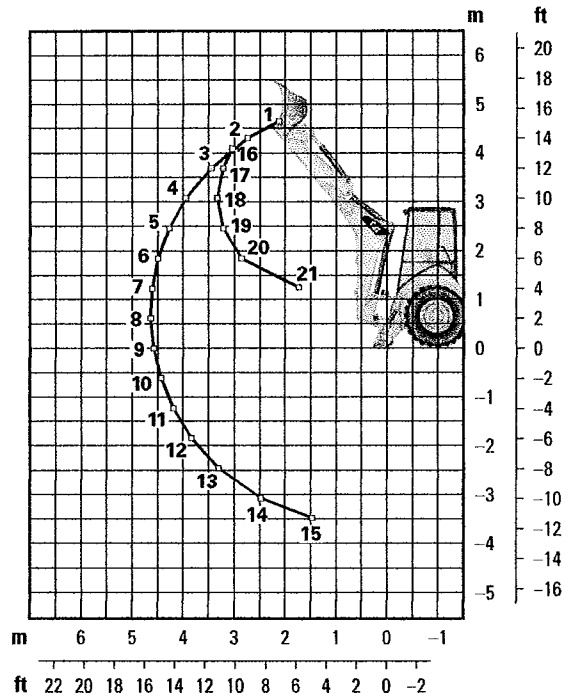


416E Backhoe Loader Specifications

Backhoe Lift Capacity

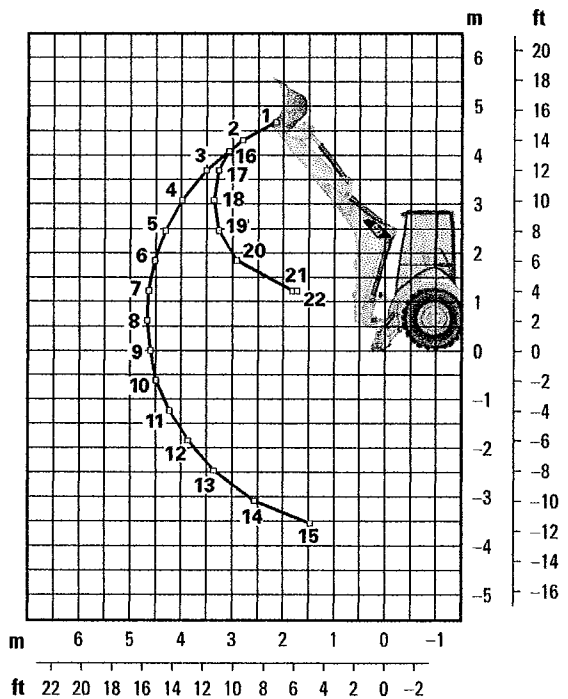
Cat 416E Standard Stick

Boom Lifting	kg	lb
1	1262	2,776
2	1378	3,031
3	1394	3,066
4	1356	2,984
5	1306	2,873
6	1253	2,757
7	1202	2,643
8	1153	2,536
9	1107	2,436
10	1065	2,344
11	1028	2,261
12	995	2,190
13	972	2,138
14	973	2,141
15	1081	2,377
Stick Lifting	kg	lb
16	1297	2,853
17	1827	4,020
18	2195	4,828
19	2275	5,005
20	2645	5,818
21	5285	11,627



Cat 416E Extendible Stick – Retracted

Boom Lifting	kg	lb
1	1084	2,385
2	1186	2,608
3	1190	2,618
4	1149	2,527
5	1096	2,412
6	1042	2,291
7	988	2,174
8	938	2,063
9	890	1,958
10	846	1,860
11	805	1,771
12	768	1,690
13	738	1,623
14	722	1,589
15	788	1,734
Stick Lifting	kg	lb
16	1155	2,541
17	1672	3,679
18	1992	4,382
19	2063	4,539
20	2395	5,269
21	4688	10,313
22	5059	11,129

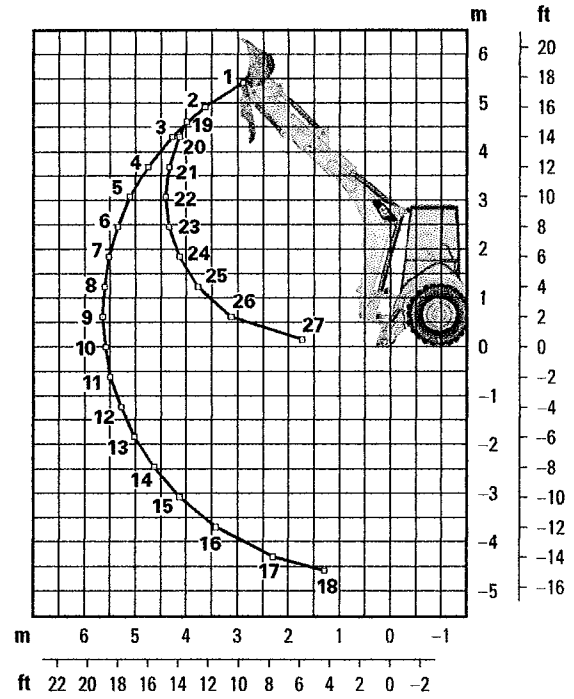


Lift capacities are over-end values. Machine equipped with 4WD, OROPS, 0.76 m³ (1.0 yd³) general purpose bucket, and 116 kg (255 lb) counterweight. Extendible stick includes 488 kg (1,075 lb) counterweight.

Backhoe Lift Capacity

Cat 416E Extendible Stick – Extended

Boom Lifting		
	kg	lb
1	597	1,313
2	729	1,605
3	780	1,715
4	725	1,596
5	681	1,498
6	659	1,449
7	653	1,437
8	663	1,458
9	687	1,512
10	672	1,478
11	651	1,432
12	632	1,390
13	616	1,354
14	604	1,328
15	600	1,319
16	613	1,348
17	704	1,550
18	1071	2,355
Stick Lifting		
	kg	lb
19	543	1,195
20	724	1,593
21	973	2,141
22	1146	2,522
23	1290	2,839
24	1442	3,172
25	1653	3,637
26	2160	4,751
27	5031	11,069



Lift capacities are over-end values. Machine equipped with 4WD, OROPS, 0.76 m³ (1.0 yd³) general purpose bucket, and 116 kg (255 lb) counterweight. Extendible stick includes 488 kg (1,075 lb) counterweight.

416E Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for details.

Air cleaner	Fast reversing shuttle, all gears	Mirror, rear view
Alarm, back-up	Fenders, rear	Open circuit breather
Backhoe position footrests	Filters, spin-on: fuel, engine oil, transmission oil, water separator, hydraulic fluid	Power receptacle, 12V, internal and external
Backhoe controls, 2-lever mechanical backhoe pattern	Flashing hazard/signal lights	Power steering, hydrostatic
Battery, maintenance-free, 880 CCA	Floor mat	Rubber impact strips on radiator guard
Battery disconnect switch	Gauges: coolant temperature, fuel level, tachometer, hour meter, torque converter oil temperature	Seat belt, retractable (51 mm/2 in)
Boom transport lock	Ground level fuel fill	Stabilizer shoes, grouser type
Brace, lift cylinder	High ambient cooling package	Seat, air suspension with armrest
Brake, secondary parking	Hydraulic hose, XT™-3 ES	Stabilizer controls, cable operated
Brakes, oil disc, dual pedals, interlocking	Hydraulic oil cooler	Starting system, glow plugs
Bucket level indicator	Indicators: air cleaner service, water separator service, brake on, engine coolant, hydraulic oil level sight gauge, oil pressure	Storage compartment, internal
Canopy, ROPS/FOPS	Instrument panel lights	Stop and tail lights
Coat hook	Key start/stop system	Swing transport lock
Coolant/Antifreeze, extended life	Lights, working (2 front, 2 rear)	Tilt steering wheel
Counterweight, bumper	Loader, self-leveling, return-to-dig and transmission disconnect switch	Tires, see page 12
Differential lock	Lunch box holder	Toolbox, external, lockable
Dome light (cab only)		Torque converter
Engine, Cat® C4.4 DITA (Direct Injection Turbocharged and Aftercooled)		Throttles, hand and foot
Engine enclosure		Transmission, four speed, syncromesh
Face seals, O-ring		Transmission neutralizer switch
Fan, suction and guard		Transport tie-downs
		Warning horn, electric

Optional equipment may vary. Consult your Caterpillar dealer for details.

	kg	lb		kg	lb		kg	lb
AccuGrade™ Site Reference System for Backhoe Loaders	19	42	Backhoe Controls			Hydraulic lines		
AccuGrade Laser Reference System for Backhoe Loaders	48	105	Excavator pattern	0	0	Combo, Std Stick	27	59
Attachments, backhoe			Battery, additional, 880 CCA	25	55	Combo, E-Stick	27	59
Mechanical Quick Coupler			Cab, utility	210	462	One-way, E-Stick	22	48
D and E-Series buckets	75	165	Cab, utility plus	220	484	Lights: Working, additional (2 front, 2 rear)	0	0
C-Series buckets	75	165	Cab, utility plus with A/C	258	568	Product Link	4	9
D, E and Deere buckets	75	165	Canopy Plus, ROPS	15	33	Ride Control	22	48
D, E and Case buckets	80	176	Coolant, additional protection, -50° C (-58° F)	0	0	Rotating beacon		
Hydraulic thumb	139-157	306-345	Counterweights			Magnetic mount	5	11
Attachments, front loader			116 kg (255 lb)	116	255	Seat belt, 75 mm (3 in)	0	0
General purpose buckets			231 kg (510 lb)	231	510	Stabilizers, available with guards		
0.76 m³ (1.0 yd³)	385	847	488 kg (1,075 lb)	488	1,075	Street	37	81
0.96 m³ (1.25 yd³)	452	994	Cutting edge, bolt-on, two piece	70	154	Reversible	38	84
Multi purpose buckets			Fenders, 4WD, front	12	26	Sticks		
1.0 m³ (1.3 yd³)	714	1,571	Fenders, rear extensions	1	2	Extendible	299	659
1.0 m³ (1.3 yd³) w/ forks	884	1,945	Guards			Teeth, loader bucket	45	99
Axle, front			Boom protection plate	18	39	Vandalism protection		
Four wheel drive with driveshaft guard	155	341	Stabilizer, rock	31	68	Gauge cover	1	2
			Hydraulic valves, loader (3rd valve for MP)	27	59	Padlocks	1	2
			Hydraulic valves, backhoe			Hood lock	0	0
			5th Function	5	11			
			6th Function	5	11			

416E Backhoe Loader

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

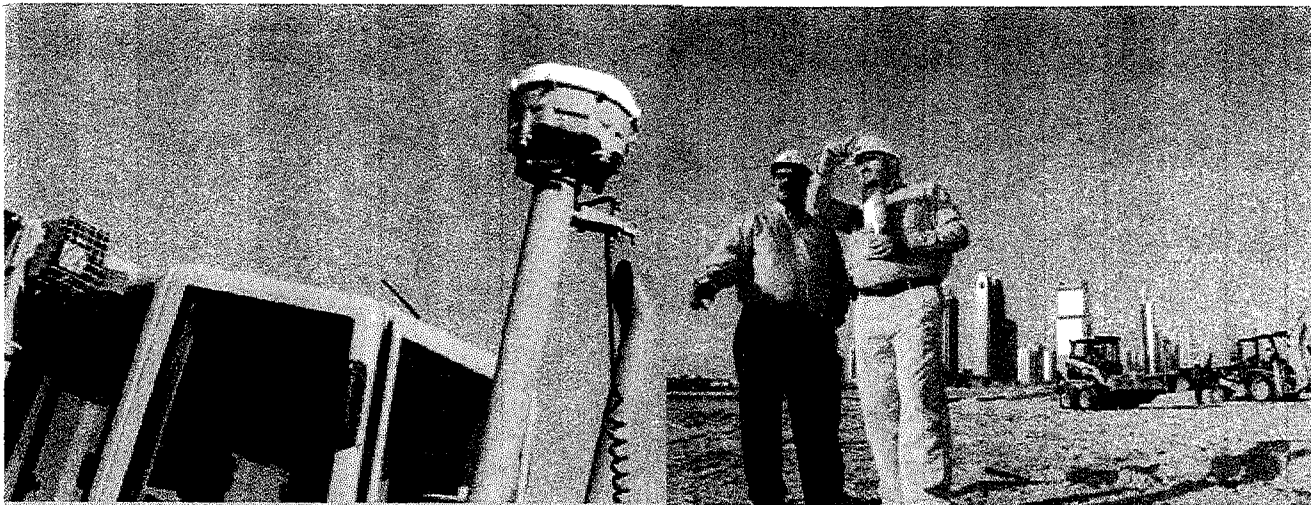
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AEHQ6025 (12-2008)
Replaces AEHQ5684-02

Materials and specifications are subject to change without notice. Featured machines in may include additional equipment. See your Caterpillar dealer for available options.

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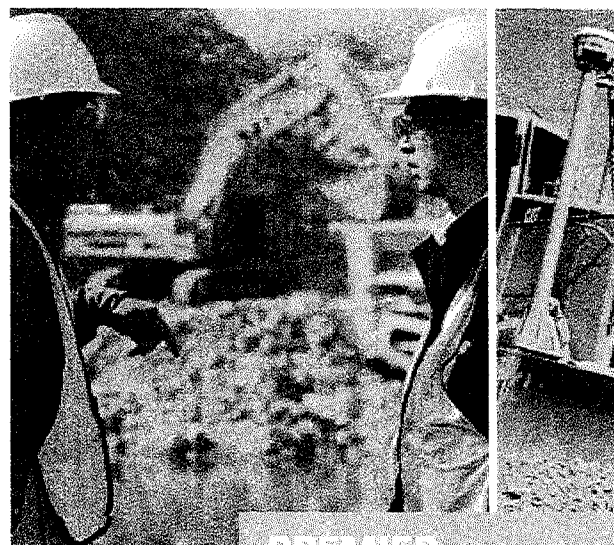
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THE RIGHT
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Cat® Equipment Protection Plan



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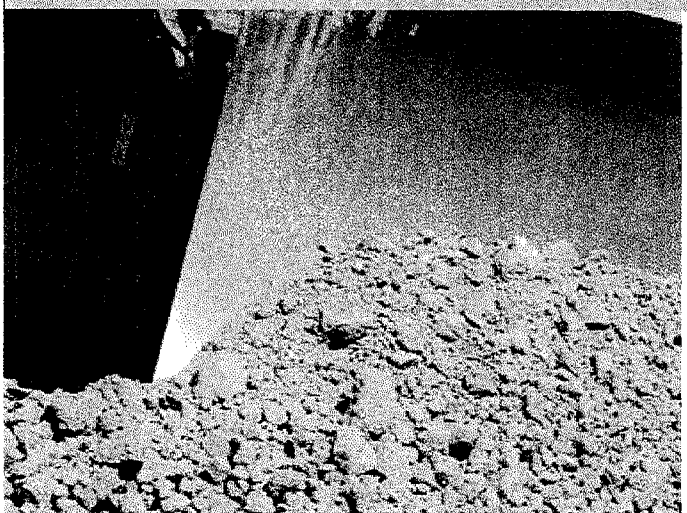
Our most comprehensive coverage includes powertrain and hydraulic components, as well as additional electrical and structural components. Powertrain components produce, transmit or control engine horsepower for moving the machine. Hydraulic components are associated with steering and implement control.

Learn more:

Contact your local Cat dealer today or visit

www.cat.com/epp

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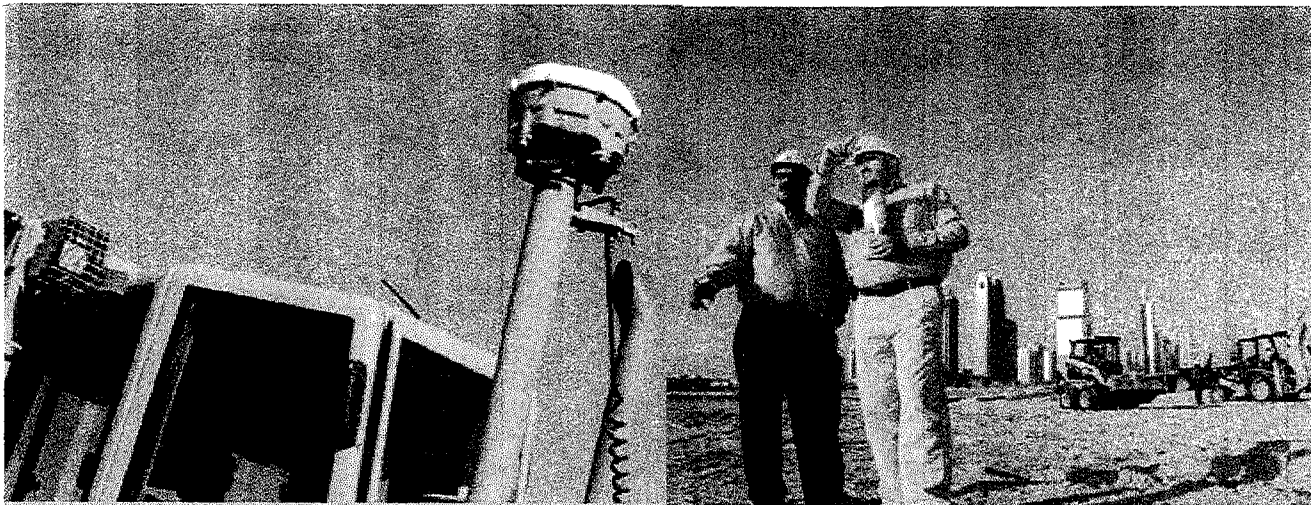
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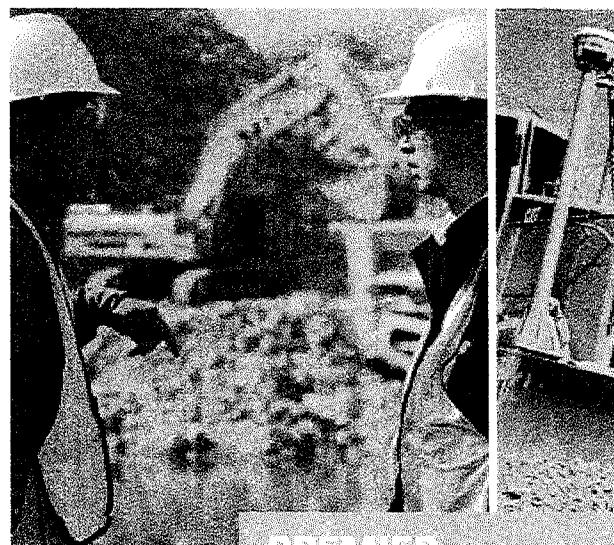
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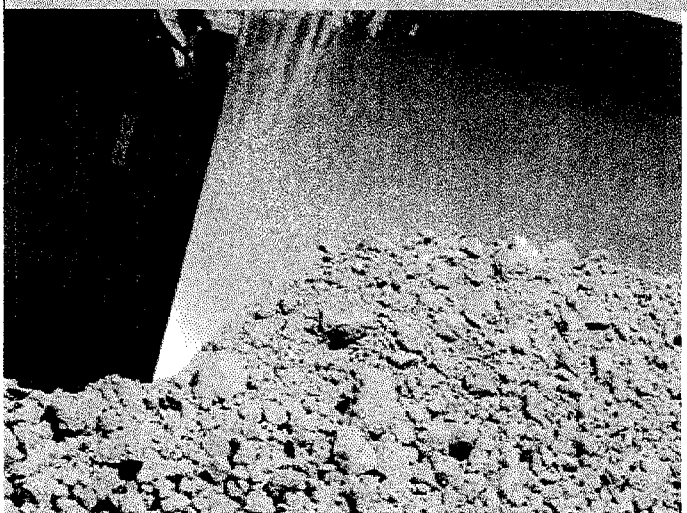
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CONTROL YOUR COSTS MINIMIZE YOUR RISKS

This plan safeguards your investments in new and Cat Certified Used* machines beyond the standard warranty period. It includes all parts and labor to protect you against failures caused by defects in materials and workmanship. With the Premier Equipment Protection Plan, you can increase the predictability of service and maintenance costs—and reduce unplanned downtime.

*Product availability varies by region.

WHAT WE DO

- Perform necessary inspections to confirm eligibility
- Install parts approved by Caterpillar on covered repairs
- Validate your enrollment in the program

WHAT YOU DO

- Operate equipment according to the Cat Operation & Maintenance Manual (OMM)
- Have recommended preventive maintenance performed at intervals specified in the OMM
- Upon request, provide proof of preventive maintenance compliance (receipts, copies of work orders, invoices)
- Promptly provide the machine for repair in the event of a covered failure

COVERED COMPONENTS

Engine - Internal Components
Oil Cooler
Radiator
Exhaust / Muffler
Manifolds
Fan Motor
Water Pump
Fuel Injection Pumps
Injectors
Lift / Transfer Pump
Senders / Solenoids / Sensors
Thermostat
Flywheel & Torque Converter
Engine Oil Filter Mount
Turbocharger
Starter
Alternator
AC Compressor / Condenser
Electronic Control Modules
Governor / Speed Controls & Linkages
Fuel Lines
Fuel Tank & Assoc. Parts
Water Piping
Oil Hoses / Lines (non-hydrostatic)
Cylinder Block
Piston
Piston Rings
Piston & Connecting Rod
Crankshaft, Main Bearings & Rod Bearings
Camshaft & Camshaft Bearings
Timing / Accessory Gears
Timing Chain / Belt
Inlet / Exhaust Valve
Valve Cover & Base
Valve Spring & Guide
Rocker Arm
Rocker Shaft Assembly
Push Rod

Balancer
Fuel Pump / Governor Drive
Oil Pump
Oil Pan Group
Fan & Fan Drive

Transmissions
Transmission Oil Lines
Hydraulic Controls
Transmission Oil Filter Base
Transmission Gears
Final Drives / Planetary
Drive Shafts
Transfer Case
Wet Brake Assemblies
Hydrostatic Pumps & Drive Motors
Linkage / lines Connected to Hystat Pump
Drive (pilot/eh) Control Valves
Senders / Sensors
Powertrain Transmission Lines / Hoses
Transmission Oil Tank
Drive Train Oil Lines
Bevel and Transfer Case

Final Drive & Axle
Axles
Axle Seals
Final Drive & Wheel
Final Drive Case / Bore
Final Drive Chain
Final Drive Gears
Axle Shaft
Drive Axle Oil Pump
Universal Joint
Countershaft Transmission

Steering

Steering Clutch
Steering Clutch & Brake Control Valve
Steering Gear & Valve
Power Steering Logic Module
Steering Linkage
Steering Column
Steering Console
Tie Rod

Hydraulic Systems

Hydraulic / Steering Hoses & Lines
Hydraulic Cylinders
Hydraulic Valves & Controls
Hydraulic Accumulators
Hydraulic Oil Coolers
Hoses and Lines
Hydraulic Quick Couplers & Swivels
Hydraulic Oil Filter Mount
Hydraulic Oil Temperature Sensor
Hydraulic Oil Filter Base
Hydraulic Tanks

Suspension

Automatic Grade Control
Axle Spring
Bogie Suspension
Equalizer Bar
Equalizer Bar Center Pin Support
Equalizer Bar Support
Stabilizer
Suspension Control
Suspension Control Valve
Suspension Cylinder

Brake Systems

Brake Master Cylinder
Vacuum Pump
Wheel Cylinder
Brake Caliper, Head Assembly
Control Valves
Brake Lines
Accumulator

Generator & Alternator

Gauges / Indicators / Instruments
Wiring harnesses
Switches
Relays / Circuit breakers
Generator
Alternator / Generator
Battery Charger
Main Power Relay
Start Switch
Fuse / Circuit Breaker Panel
Circuit Board

Chassis & Frame

Chassis / Implement Frames
Weldment
Carbody
Main Frame

Undercarriage

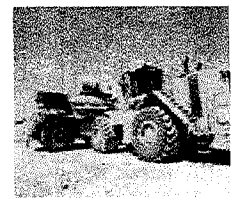
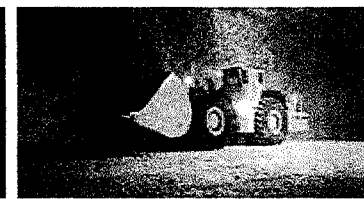
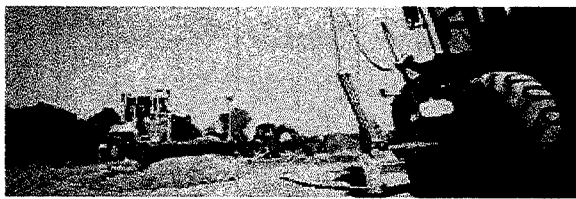
Track Roller Frame
Track Adjuster
Recoil Spring

EXCLUSIONS

If a component is not listed, it may not be included in the plan. Other exclusions include:

- > Improper or abusive use of the machine
- > Lubricating oil, antifreeze, filters, consumables and other maintenance items replaced during the covered component repair, unless such items are rendered unusable by a covered component failure
- > Failures caused by normal wear-out
- > Freight charges for parts shipments
- > Travel time and mileage involved in getting to a job site
- > Hauling costs and / or retrieval costs
- > Overtime labor costs
- > Repair costs resulting from the failure of any non-covered components
- > Downtime loss
- > Equipment rental charges
- > Any incidental / consequential damages or costs incurred as a result of a covered component failure.
- > Modifications unless approved by Caterpillar

Examples of covered and excluded components or items are listed here. The actual dealer contract will govern. For a complete list of included components and more information on Cat Equipment Protection Plans, contact your local Cat dealer.



CONTROL YOUR COSTS MINIMIZE YOUR RISKS

This plan safeguards your investments in new and Cat Certified Used* machines beyond the standard warranty period. It includes all parts and labor to protect you against failures caused by defects in materials and workmanship. With the Premier Equipment Protection Plan, you can increase the predictability of service and maintenance costs—and reduce unplanned downtime.

*Product availability varies by region.

WHAT WE DO

- Perform necessary inspections to confirm eligibility
- Install parts approved by Caterpillar on covered repairs
- Validate your enrollment in the program

WHAT YOU DO

- Operate equipment according to the Cat Operation & Maintenance Manual (OMM)
- Have recommended preventive maintenance performed at intervals specified in the OMM
- Upon request, provide proof of preventive maintenance compliance (receipts, copies of work orders, invoices)
- Promptly provide the machine for repair in the event of a covered failure

COVERED COMPONENTS

Engine - Internal Components
Oil Cooler
Radiator
Exhaust / Muffler
Manifolds
Fan Motor
Water Pump
Fuel Injection Pumps
Injectors
Lift / Transfer Pump
Senders / Solenoids / Sensors
Thermostat
Flywheel & Torque Converter
Engine Oil Filter Mount
Turbocharger
Starter
Alternator
AC Compressor / Condenser
Electronic Control Modules
Governor / Speed Controls & Linkages
Fuel Lines
Fuel Tank & Assoc. Parts
Water Piping
Oil Hoses / Lines (non-hydrostatic)
Cylinder Block
Piston
Piston Rings
Piston & Connecting Rod
Crankshaft, Main Bearings & Rod Bearings
Camshaft & Camshaft Bearings
Timing / Accessory Gears
Timing Chain / Belt
Inlet / Exhaust Valve
Valve Cover & Base
Valve Spring & Guide
Rocker Arm
Rocker Shaft Assembly
Push Rod

Balancer
Fuel Pump / Governor Drive
Oil Pump
Oil Pan Group
Fan & Fan Drive

Transmissions
Transmission Oil Lines
Hydraulic Controls
Transmission Oil Filter Base
Transmission Gears
Final Drives / Planetary
Drive Shafts
Transfer Case
Wet Brake Assemblies
Hydrostatic Pumps & Drive Motors
Linkage / lines Connected to Hystat Pump
Drive (pilot/eh) Control Valves
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Powertrain Transmission Lines / Hoses
Transmission Oil Tank
Drive Train Oil Lines
Bevel and Transfer Case

Drive Train Drive Axles
Axles
Axle Seals
Final Drive & Wheel
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Axle Spring
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Equalizer Bar
Equalizer Bar Center Pin Support
Equalizer Bar Support
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Suspension Control Valve
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Brake Caliper, Head Assembly
Control Valves
Brake Lines
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Generator & Alternator

Gauges / Indicators / Instruments
Wiring harnesses
Switches
Relays / Circuit breakers
Generator
Alternator / Generator
Battery Charger
Main Power Relay
Start Switch
Fuse / Circuit Breaker Panel
Circuit Board

Chassis & Frames

Chassis / Implement Frames
Weldment
Carbody
Main Frame

Undercarriage

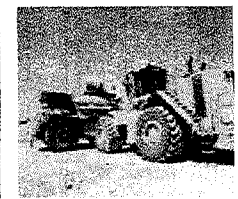
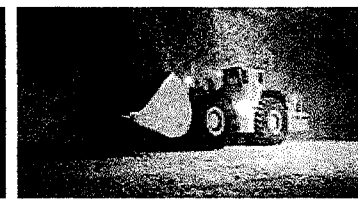
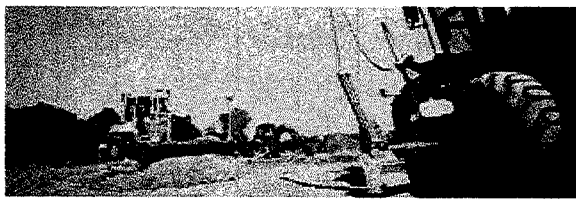
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State of West Virginia **VENDOR PREFERENCE CERTIFICATE**

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. Application is made for 2.5% resident vendor preference for the reason checked:

- Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
- Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
- Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,

2. Application is made for 2.5% resident vendor preference for the reason checked:

- Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,

3. Application is made for 2.5% resident vendor preference for the reason checked:

- Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,

4. Application is made for 5% resident vendor preference for the reason checked:

- Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,

5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,

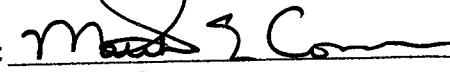
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: C.I. WALKER MACHINERY Co. Signed: 

Date: 6/29/11 Title: SALES REPRESENTATIVE

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. 7011 ECA1

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Cecil J. Walker Machinery Co.

Authorized Signature: [Signature] Date: 6/29/11

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 29 day of June, 2011.

My Commission expires August 8, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]

