



SOLICITATION# BCFY21-0030

ONE (1), 20,700LB EXCAVATOR: TRI-COUNTY SOLICITATION

ACCEPTANCE DATE: **January 26, 2021, 2:10 pm “local time”**

ACCEPTANCE PLACE Boone County Fiscal Court – *Negometrix Platform*
<https://app.negometrix.com/buyer/839>.
Opening will be virtual:
Tri-County 20,700LB Excavator Bid Opening
Time: Jan 26, 2021 02:10 PM Eastern Time (US and Canada)
Join Zoom Meeting
<https://us02web.zoom.us/j/83088196241?pwd=dm1aNUV4OWRqZThNTElOSUplRW5jZz09>
+1 312 626 6799 US (Chicago)
+1 646 558 8656 US (New York)
Meeting ID: 830 8819 6241
Passcode: 938146
Find your local number: <https://us02web.zoom.us/u/kDuaUjvne>

Requests for information related to this Invitation should be directed to *Billy Angel, Project Sponsor* through the Negometrix platform.

Issue Date: January 5, 2021

IF YOU NEED ANY REASONABLE ACCOMMODATION FOR ANY TYPE OF DISABILITY IN ORDER TO PARTICIPATE IN THIS PROCUREMENT, PLEASE CONTACT OUR OFFICE AS SOON AS POSSIBLE.

NOTICE

The Boone County Fiscal Court will receive sealed bids through the Negometrix Solicitation platform, 41005, until **2:10 pm “local time”** on **January 26, 2021** for **One (1), 20,700LB EXCAVATOR: Tri-County Solicitation**. Bids will be publicly presented in a virtual format at the date and time listed above.

Specifications may be obtained at www.boonecountyky.org/publicnotices or <https://app.negometrix.com/buyer/839>.

Each County represented in this solicitation reserves the right to reject any and all Bids, to waive any informalities and to negotiate for the modifications of any bid or to accept that Bid which is deemed the most desirable and advantageous from the standpoint of customer value and service and concept of operations, even though such bid may not, on its face, appear to be the lowest and best price. No bid may be withdrawn for a period of thirty (30) days after scheduled time of receipt of bid.

KEY DATES

Activity	Location	Date	Time
Invitation to Bid Issued	Online	January 5, 2021	N/A
Bid Opening	Online	January 26, 2021	2:10 PM “Local Time”

INTENT

It should be noted that the inclusion of the any plans, drawings or brand names mentioned in this solicitation are provided for reference purposes only. The Boone County “**One (1), 20,700LB EXCAVATOR: Tri-County Solicitation Review Committee**” shall be the sole judge of whether a bid meets the intent of these specifications.

NATIONAL/STATE BIDS

All three counties involved in this solicitation belong to many national purchase cooperatives and have access to state contracts for the purchase of goods and services. One of the primary groups is Sourcewell, formally NJPA.

County	Sourcewell Contract No.
Boone County Fiscal Court	60989
Campbell County Fiscal Court	84754
Kenton County Fiscal Court	79027

KENTUCKY PREFERENCE LAW

The scoring of bid is subject to Reciprocal preference for Kentucky resident bidders and Preferences for a Qualified Bidder or the Department of Corrections, Division of Prison Industries. *Vendors not claiming resident bidder or qualified bidder status need not submit the corresponding affidavit.

SPECIFICATIONS

1. GENERAL INFORMATION

Boone, Campbell & Kenton County, Kentucky, herein referred to as the “**County**”, invites the submittal of sealed bids from qualified companies that can deliver **three (3) 20,700LB Excavators** meeting the specifications, found here within this solicitation, in 180 days or less from the date of award. **One (1) 20,700LB Excavator** is to be delivered to each of the three counties participating in this solicitation.

Excavator #1	Excavator #2	Excavator #3
Boone County Public Works	Campbell County Road Department	Kenton County Public Works
5645 Idlewild Road	1175 Race Track Road	420 Independence Station Road
Burlington, KY 41005	Alexandria, KY 4107	Independence, KY 41051
859-334-3600	859-635-9100	859-392-1630

The services desired are set forth in this BID Solicitation. Representatives of the County will review the submitted bids of each party. The County reserves the right to amend the specifications. Addenda will be available on the County website www.boonecountky.org/publicnotices. Obtaining addenda is the responsibility of the offering party, not the County.

2. NOTICE

Pursuant to the provisions of KRS 45A.343, the contractor or vendor is required to reveal to the County any final determination of a violation of KRS Chapters 136, 139, 141, 337, 338 and 342 by the contractor or vendor within the previous five (5) years; and further that said contractor or vendor has been and is in continuous compliance with the provisions of KRS Chapters 136, 139, 141, 337, 341, and 342 for the duration of the contract. The failure of a contractor or vendor to reveal a final determination of a violation to a local government, or to comply with the statutory requirements, is considered grounds for cancellation of a contract and disqualification of the contractor or vendor from eligibility for any County contracts for a period of two (2) years.

The Boone County Fiscal Court, Campbell County Fiscal Court and/or Kenton County Fiscal Court reserves the right to reject any and all submissions, to waive informalities and to negotiate for the modifications of any bid or to accept the bid which is deemed the most advantageous from the standpoint of customer value, service, and concept of operations, even though such bid may not, on its face, appear to be the lowest and best price.

3. QUALIFICATIONS

All interested parties must possess all federal, state and/or local qualifications/licenses to provide products or services in Boone, Kenton, Campbell County and the Commonwealth of Kentucky.

4. SCOPE OF WORK

- I. The County seeks bids from qualified companies to establish term pricing for **20,700LB Excavators** in accordance with the bid specifications, terms and conditions. The bidder must complete the “**Attachment 1-15**”. Additional descriptive information and literature providing clarity on options in which the bid was based is requested. Wherever the bidder takes exception to the specifications, such exceptions must be listed on Attachment 16 “Exception Sheet”.
 - a. All sheets requesting a signature, must be signed by the bidder.

- II. **Contract Duration:** The term of this contract shall be for one calendar year from the date of the bid opening. All prices contained herein will be firm and fixed for the term of the contract.
- III. **Unit pricing:** Unit pricing should include:
 - a. All charges related to the acquisition, build-out and delivery of each unit to each of the county entity addresses provided in this solicitation.
- IV. **Purchase Orders:** A purchase order will be issued by each of the county entities represented in this solicitation after all contract document terms are met and voted upon by their respective fiscal courts.
- V. **Delivery Schedule:**
 - a. **Hours:** Deliveries can be made at each county facility on Monday-through-Friday, between the hours of 8:00 A.M. and 2:30 P.M. “Local Time”.
 - b. **Delivery timing:** Delivery of each completed unit is to be made by the number of days indicated on the bid form from the date of receipt of a purchase order from each of the county entities represented in this solicitation.
 - c. **Late Delivery:** In the situation that delivery dates exceed total number of days, as indicated on the bid form, from the date of purchase order, the awarded vendor will be subject to a one-hundred dollar (\$100.00) per day penalty until the completed unit is delivered. In addition, the awarded vendor may be deemed non-responsible on future solicitations until it is been deemed, by the County, that the vendor has cured all issues related to providing goods or services in a timeframe satisfactory to the County.
 - d. **Rejection:** Each unit must be one-hundred percent complete, as provided within these specifications, before it can be considered delivered. A unit that is not complete and ready to put into service, as provided within these specification, will be rejected by the County. The vendor may cure any outstanding issues and attempt re-delivery of the unit at a later date, still subject to the any penalties accruing if the delivery date exceeds the total number of days indicated on the bid form.
- VI. **Subcontractors:** The bidder is responsible for the completion of the unit whether or not the bidder choses to subcontract any portion of the build-out of the unit. The County will not be responsible for coordinating the build or delivery with subcontractors.
- VII. **Product Specifications:** All parts not specifically mentioned or requested, which are necessary to provide a complete unit or normally furnished as standard equipment shall be furnished. The parts furnished shall conform in strength, quality of material and workmanship to what is normally provided in the industry.
 - a. The equipment furnished must meet all Federal and state regulations.
 - b. Bidders shall submit the latest literature that fully describes the units being bid on in this specification, including the production history of the engine and exhaust combination.

5. SOLICITATION SCHEDULE

- I. Solicitation issue date: January 5, 2021
- II. Virtual Public Bid Opening: January 26, 2021, 2:10 p.m. “Local Time”
- III. Bid document review: January 26, 2021 through February 12, 2021
- IV. Award Recommendation to Fiscal Court: **To be determined after review period**

6. BID REVIEW CRITERIA

- I. The Tri-County Solicitation Review Committee will be making an award recommendation based upon the following criteria:
 - a. Adherence to all conditions and requirements listed in the bid specifications
 - b. Price
 - c. Qualifications of the bidder, including past performance, finance responsibility, general reputation, experience, service capabilities
 - d. Bid Delivery Date
 - e. Maintenance costs and warranty provisions
 - f. Resale value

7. SPECIFICATIONS FOR ONE (1), 20,700LB EXCAVATOR FOR THREE (3) COUNTIES INCLUDED IN THIS SOLICITATION

The specifications can be found in Attachments 1-15. Review each attachment and reply to the questions as part of your bid packet that shall be submitted by the solicitation due date listed.

BID TERMS AND SIGNATURE

In compliance with this Bid and subject to all conditions thereof, the undersigned offers and agrees to furnish any or all items and/or services upon which prices are quoted, at the price quoted as specified.

My signature certifies that the accompanying bid is not the result of or affected by, any act of collusion with another person or company engaged in the same line of business or commerce, or any act of fraud. I hereby certify that I am authorized to sign this on behalf of the bidding organization.

ONE (1), 20,700LB EXCAVATOR		Make & Model	Model Year	Color	Stock (Y/N)
<i>PRICE:</i>	\$				
NUMBER OF DAYS TO DELIVER:					
<i>SIGNATURE:</i>					
<i>DATE:</i>					

COUNTY REP ACCEPTANCE: _____ DATE: _____

KENTUCKY PREFERENCE LAWS

The scoring of bids is subject to Reciprocal preference for Kentucky resident bidders and Preferences for a Qualified Bidder or the Department of Corrections, Division of Prison Industries. ***Vendors not claiming resident bidder or qualified bidder status need not submit the corresponding affidavit.**
Reciprocal preference for Kentucky resident bidders

KRS 45A.490 Definitions for KRS 45A.490 to 45A.494.

As used in KRS 45A.490 to 45A.494:

- (1) "Contract" means any agreement of a public agency, including grants and orders, for the purchase or disposal of supplies, services, construction, or any other item; and
- (2) "Public agency" has the same meaning as in KRS 61.805.

KRS 45A.492 Legislative declarations.

The General Assembly declares:

- (1) A public purpose of the Commonwealth is served by providing preference to Kentucky residents in contracts by public agencies; and
- (2) Providing preference to Kentucky residents equalizes the competition with other states that provide preference to their residents.

KRS 45A.494 Reciprocal preference to be given by public agencies to resident bidders -- List of states -- Administrative regulations.

- (1) Prior to a contract being awarded to the lowest responsible and responsive bidder on a contract by a public agency, a resident bidder of the Commonwealth shall be given a preference against a nonresident bidder registered in any state that gives or requires a preference to bidders from that state. The preference shall be equal to the preference given or required by the state of the nonresident bidder.
- (2) A resident bidder is an individual, partnership, association, corporation, or other business entity that, on the date the contract is first advertised or announced as available for bidding:
 - (a) Is authorized to transact business in the Commonwealth; and
 - (b) Has for one (1) year prior to and through the date of the advertisement, filed Kentucky corporate income taxes, made payments to the Kentucky unemployment insurance fund established in KRS 341.490, and maintained a Kentucky workers' compensation policy in effect.
- (3) A nonresident bidder is an individual, partnership, association, corporation, or other business entity that does not meet the requirements of subsection (2) of this section.
- (4) If a procurement determination results in a tie between a resident bidder and a nonresident bidder, preference shall be given to the resident bidder.
- (5) This section shall apply to all contracts funded or controlled in whole or in part by a public agency.
- (6) The Finance and Administration Cabinet shall maintain a list of states that give to or require a preference for their own resident bidders, including details of the preference given to such bidders, to be used by public agencies in determining resident bidder preferences. The cabinet shall also promulgate administrative regulations in accordance with KRS Chapter 13A establishing the procedure by which the preferences required by this section shall be given.
- (7) The preference for resident bidders shall not be given if the preference conflicts with federal law.
- (8) Any public agency soliciting or advertising for bids for contracts shall make KRS 45A.490 to 45A.494 part of the solicitation or advertisement for bids.

The reciprocal preference as described in KRS 45A.490-494 above shall be applied in accordance with 200 KAR 5:400.

Determining the residency of a bidder for purposes of applying a reciprocal preference

Any individual, partnership, association, corporation, or other business entity claiming resident bidder status shall submit along with its response the attached Required Affidavit for Bidders, Offerors, and Contractors Claiming Resident Bidder Status. The BIDDING AGENCY reserves the right to request documentation supporting a proposer's claim of resident bidder status. Failure to provide such documentation upon request shall result in disqualification of the bidder or contract termination.

A nonresident bidder shall submit, along with its response, its certificate of authority to transact business in the Commonwealth as filed with the Commonwealth of Kentucky, Secretary of State. The location of the principal office identified therein shall be deemed the state of residency for that bidder. If the bidder is not required by law to obtain said certificate, the state of residency for that bidder shall be deemed to be that which is identified in its mailing address as provided in its bid.

Preferences for a Qualified Bidder or the Department of Corrections, Division of Prison Industries.

Pursuant to 200 KAR 5:410, and KRS 45A.470, Kentucky Correctional Industries will receive a preference equal to twenty (20) percent of the maximum points awarded to a bidder in a solicitation. In addition, the following "qualified bidders" will receive a preference equal to fifteen (15) percent of the maximum points awarded to a bidder in a solicitation: Kentucky Industries for the Blind, any nonprofit corporation that furthers the purposes of KRS Chapter 163 and any qualified nonprofit agencies for individuals with severe disabilities as defined in KRS 45A.465(3). Other than Kentucky Industries for the Blind, a bidder claiming "qualified bidder" status shall submit along with its response to the solicitation a notarized affidavit which affirms that it meets the requirements to be considered a qualified bidder-affidavit form included. If requested, failure to provide documentation to a public agency proving qualified bidder status may result in disqualification of the bidder or contract termination.

REQUIRED AFFIDAVIT FOR BIDDERS, OFFERORS AND CONTRACTORS CLAIMING RESIDENT BIDDER STATUS (Not required unless claiming Resident Bidder Status)

FOR BIDS AND CONTRACTS IN GENERAL:

The bidder or offeror hereby swears and affirms under penalty of perjury that, in accordance with KRS 45A.494(2), the entity bidding is an individual, partnership, association, corporation, or other business entity that, on the date the contract is first advertised or announced as available for bidding:

- Is authorized to transact business in the Commonwealth;
- Has for one year prior to and through the date of advertisement
- Filed Kentucky income taxes;
- Made payments to the Kentucky unemployment insurance fund established in KRS 341.49; and
- Maintained a Kentucky workers' compensation policy in effect.

The BIDDING AGENCY reserves the right to request documentation supporting a proposer's claim of resident bidder status. Failure to provide such documentation upon request shall result in disqualification of the bidder or contract termination.

Signature	Printed Name
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Title	Date
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Company Name _____

Address _____

Subscribed and sworn to before me by _____

(Affiant) (Title)

of _____ this _____ day of _____, 20____.

(Company Name)

Notary Public

[seal of notary] My commission expires: _____

REQUIRED AFFIDAVIT FOR BIDDERS, OFFERORS AND CONTRACTORS CLAIMING QUALIFIED BIDDER STATUS

(Not Required Unless Claiming Qualified Bidder Status)

FOR BIDS AND CONTRACTS IN GENERAL:

I. The bidder or offeror swears and affirms under penalty of perjury that the entity bidding, and all subcontractors therein, meets the requirements to be considered a "qualified bidder" in accordance with [200 KAR 5:410\(3\)](#); and will continue to comply with such requirements for the duration of any contract awarded. Please identify below the particular "qualified bidder" status claimed by the bidding entity.

_____ A nonprofit corporation that furthers the purposes of KRS Chapter 163

_____ Per KRS 45A.465(3), a "Qualified nonprofit agency for individuals with severe disabilities" means an organization that:

- (a) Is organized and operated in the interest of individuals with severe disabilities; and
- (b) Complies with any applicable occupational health and safety law of the United States and the Commonwealth; and
- (c) In the manufacture or provision of products or services listed or purchased under KRS 45A.470, during the fiscal year employs individuals with severe disabilities for not less than seventy-five percent (75%) of the man hours of direct labor required for the manufacture or provision of the products or services; and
- (d) Is registered and in good standing as a nonprofit organization with the Secretary of State.

The BIDDING AGENCY reserves the right to request documentation supporting a proposer's claim of qualified bidder status. Failure to provide such documentation upon request may result in disqualification of the bidder or contract termination.

Signature

Printed Name

Title

Date

Company Name _____

Address _____

Subscribed and sworn to before me by _____
(Affiant) (Title)

of _____ this ____ day of _____, 20__.
(Company Name)

Notary Public

[seal of notary]

My commission expires: _____

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 1			
No.	YES	NO	BASIC SPECIFICATIONS
1.1			Net horsepower at 2200 rpm shall be at least 70.3hp (52.4 kW) according to ISO 9249
1.2			SAE rated gross horsepower at 2200 rpm shall be at least 74.3 hp (55.4 kW) according to ISO 14396
1.3			The machine must be CR (Compact Radius) with a maximum of 12" of overhang over the side of the tracks in the standard configuration
1.4			Operating weight with the cab option shall be at least 20,731 lb (9403 kg)
1.5			Lift capacity without bucket fitted, blade down, and std stick shall be no less than 7,376 lb (3455 kg) at 14'8" (4.5 m) over the front and no less than 3,660 lb (1660 kg) at 14'8" (4.5 m) over the side
1.6			Maximum digging depth with a long stick shall be at least 15'3" (4650 mm)
1.7			Maximum digging height with a long stick shall be at least 23'1" (7032 mm)
1.8			Maximum reach with a long stick shall be at least 25'1" (7637 mm)
1.9			Height to top of cab shall be 8'2" (2514 mm)
1.10			Ground clearance shall be not less than 13.5" (343 mm)
1.11			Transport width shall be 8' 1" (2470 mm) with 18" (450 mm) tracks
1.12			Maximum vertical wall shall be no less than 11'2" (3411mm) with a long stick
1.13			Manufacturer must offer an optional counterweight on the back of the machine for additional stability in extreme applications

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 2			
No.	YES	NO	ENGINE
2.1			Engine shall be US EPA Tier 4 Final compliant
2.2			Machine shall be a Turbo Charged, Water-cooled, 4 stroke, 4 cylinder diesel engine
2.3			Engine bore shall be 3.7" (94 mm) and stroke shall be 4.7" (120 mm)
2.4			Engine displacement shall not be less than 203.2 cubic inches (3.33L)
2.5			Engine shall have automatic engine idle that automatically lowers engine revolutions when machine is not in use to save fuel
2.6			Machine shall maintain full engine power up to 8,200' (2,500 m) above sea level
2.7			Electrical system voltage shall be 12 volt
2.8			Machine shall have a 850 CCA maintenance free battery
2.9			Alternator shall not be rated at less than 60 amps
2.10			The machine's electrical system shall incorporate a resettable 'circuit breaker' switch
2.11			All wire harnesses shall be encased in nylon mesh bindings
2.12			Machine shall have sealed electrical connectors
2.13			All wiring shall utilize color coded wires
2.14			The cooling system fan shall incorporate a guard
2.15			Water separator in fuel line shall be factory installed standard equipment
2.16			A factory installed high-ambient temperature cooling package capable of working conditions up to 126° F (52° C) shall be standard
2.17			The air cleaner shall incorporate both primary and safety elements
2.18			Machine shall have adjustable automatic engine shutdown
2.19			Machine shall have automatic swing break
2.20			Machine shall be equipped with battery disconnect standard
2.21			Engine shall be equipped with a standard ecology drain

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 3			
No.	YES	NO	POWER TRAIN/TRANSMISSION
3.1			Travel speed shall be at least 1.6 mph (2.6 km/h) in low and 3.1 mph (4.9 km/h) in high
3.2			Traction force shall be at least 19,064 lbf (84.8 kN) in low and 6,497 lbf (28.9 kN) in high
3.3			Factory installed, standard auto two speed which provides better fuel efficiency since the machine will automatically go into higher power/torque only when the system senses that it is required while dozing, counter rotating, and uphill travel

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 4			
No.	YES	NO	HYDRAULIC SYSTEM
4.1			Machine shall have one variable displacement piston pumps with an output of 62 gal/m (233 L/m) at 2400 rpm, designated for travel, boom, stick and bucket. Designated auxiliary pump for running hydromechanical attachments
4.2			2nd auxiliary hydraulic lines with case drain shall be standard from factory
4.3			Equipment operating pressure shall be at least 4,134 psi (285 bar)
4.4			Travel operating pressure shall be at least 4,134 psi (285 bar)
4.5			Operating swing pressure shall be at least 3,626 psi (250 bar)
4.6			Primary auxiliary circuit shall have an output of at least 37 gal/min (140 LPM)
4.7			Secondary auxiliary circuit shall have an output of at least 9 gal/min (33 LPM)
4.8			An accumulator shall be provided to allow the boom and stick to be lowered to the ground in the case of a dead engine. Also to allow depressurization of hydraulic system in ordered to attach work tools
4.9			All fittings shall be of the O Ring Face Seal type for superior sealing against leaks
4.10			The boom cylinder circuit shall come standard with zero leak boom section valve for zero boom drift
4.11			Factory installed combined function (one-way/two-way) auxiliary high pressure hydraulic circuit shall be standard
4.12			Factory installed hydraulics to operate a hydraulic quick coupler shall be available
4.13			The bucket service shall have a relief valve fitted to protect the cylinder against shock loading
4.14			Machine shall come standard with a trim feature that can be adjusted. This allows to correct machine travel if there is abnormal wear of tracks or other components
4.15			The machines travel and throttle functions shall be electro over hydraulic controlled to maintain modulation throughout the machines life
4.16			End damping on both Boom and Stick cylinders shall help avoid spoil loss when loading at height and reduce shock loading in the machines structures
4.17			Machine shall have a load sensing, flow sharing, variable margin displacement piston pump system
4.18			Auxiliary hydraulic valve shall be standard with standard hydraulic quick disconnects on the stick
4.19			Machine is shall be equipped with smart tech electronic pump that monitors Hydraulic flows, pressure, temperature and ambient temperature to keep machine operating at maximum efficiency

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 5			
No.	YES	NO	UNDERCARRIAGE
5.1			Track length shall be 10' 5" (3200 mm)
5.2			Machine shall have 18" (450 mm) triple grouser shoes with additional holes that allow mounting of rubber street pads
5.3			Factory installed long undercarriage in either steel track or steel track with rubber pad shall be available
5.4			Track shoe width shall be 18" (450 mm) Available in either Steel Track or Steel Track with Rubber Pads
5.5			Factory installed 24" (600 mm) triple grouser track shall be available
5.6			An idler guard shall be provided to maintain track alignment while traveling or working on slopes
5.7			Ground pressure with 18" (450 mm) steel tracks shall be no more than 6 psi (38 kPa)

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 6			
No.	YES	NO	OPERATORS STATION
6.1			A color LCD monitor system which includes...As standard - Fuel level and coolant temperature gauges, maintenance and machine monitoring, performance and machine adjustments, numeric security code, multiple languages, camera ready, hour meter with wake up switch, and jog dial control with interface
6.2			Next Generation Stick Steer comes standard
6.3			The cab shall be sealed and pressurized to maximize operator comfort
6.4			Adjustable travel cruise control when in Stick Steer mode shall be standard
6.5			Continuous flow must be able to be activated with flow in either direction and at any flow rate
6.6			An integrated rear camera shall be available from the factory
6.7			Machine must have adjustable auxiliary flow control for better controllability of attachments
6.8			Pump flow shall decrease (auto-idle) when controls are in neutral for reduced fuel consumption and sound
6.9			Machine must be equipped with a standard Power on Demand offering over 10% fuel savings
6.10			A pattern control changer between ISO and SAE shall be standard within the LCD monitor
6.11			Proportional auxiliary control and proportional boom swing control shall be on the joystick
6.12			Joystick mounted controls give fine control at the operators finger tips and eliminate foot pedals from the floor which gives greater operator legroom
6.13			The throttle shall be easily adjustable by means of a dial
6.14			All controls shall be isolated when the control consoles are raised for entrance or exit of the operator station
6.15			The machine shall not be able to start when any of the controls are 'live'
6.16			The upper body swing lock shall be automatically applied upon travel or lowering the arm bar
6.17			Operator's manual for the machine shall be permanently attached to the machine and stored in a lockable container
6.18			Machine shall have the windshield wiper mounted in such a way that the wires do not have to be disconnected
6.19			The rear window shall be able to be removed for escape in case of emergency
6.20			Lower front window shall be able to be removed and secured within the cab
6.21			The cab door will be a hinged door design. The door has a mechanism that will lock the door in the open position
6.22			The cab shall have a polycarbonate skylight for visibility when loading at height
6.23			Travel pedals shall be available and removable for ease of operation
6.24			A four-way adjustable air suspension as standard
6.25			Operator sound pressure level shall be 72 dB(A) for cab builds when measured per ISO 6396 (dynamic)
6.26			Travel alarm shall be standard

6.27		HVAC shall be standard with automatic temperature control with sealed and pressurized cab
6.28		Heat and Air conditioning shall be standard with variable temperature control settings with sealed and pressurized cab
6.29		Heater shall have variable heat settings with sealed and pressurized cab
6.30		Machine shall have multi-function capability of boom swing and upper body swing for extra machine versatility in tight areas
6.31		Air conditioning shall be standard on cab units with sealed and pressurized cab
6.31		Boom swing and upper body swing shall be able to be operated at the same time to maximize machine versatility and productivity
6.32		Cab air conditioner shall have a primary filter that can be removed for inspection without any tools
6.33		Factory installed AM/FM stereo radio shall be standard includes use of Bluetooth®, USB, auxiliary, and microphone devices
6.34		Machine shall have a 3" (76 mm) wide florescent retractable seat belt as standard
6.35		Cab shall have a beverage holder capable of holding a standard 12 oz (340 g) soft drink can
6.36		A 12 volt, 5 amp power supply with a cigar lighter type outlet shall be available for use of cell phones and two-way radios
6.37		Customizable operator settings including speed and response of boom, bucket and stick to adjust per operator preference
6.38		Machine shall have adjustable armrests that can be adjusted without tools
6.39		Customizable security system shall come standard
6.40		Adjustable courtesy lighting shall come standard
6.41		Machine shall come standard with removable washable floor mat with molded foot rests
6.42		Machine shall come standard with coat hook
6.43		Machine shall have optional rain visor from factory

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 7			
No.	YES	NO	BOOM AND STICK
7.1			The ability to order the machine with standard or long stick option shall be available
7.2			Machine shall come standard with a swing boom
7.3			Machine equipped with a variable angle boom will be available from factory
7.4			This stick will be fitted with a dedicated 8818 lb (4000 kg), rated lifting eye for safe craning
7.5			A dual lock coupler shall be standard on mechanical or hydraulic quick couplers for added safety
7.6			Digging force with a standard stick shall be at least 9500 lb (42.3 kN)
7.7			Digging force with a long stick shall be at least 8,023 lb (35.7 kN)
7.8			Bucket digging force shall be at least 13,943 lb (62.0 kN)
7.9			Bucket rotation angle shall be 180 degrees
7.10			Machine shall come thumb ready from factory
7.11			Machine shall have one piece boom 133.9" (3400 mm)

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 8			
No.	YES	NO	BLADE
8.1			Blade width shall be at least 97" (2470 mm) for std track machines and 104" (2640 mm) for wide track machines
8.2			Blade on standard track machines shall have blade extensions available from the factory
8.3			Blade height shall be at least 17" (431 mm)
8.4			Blade dig depth shall be at least 26.9" (684 mm)
8.5			Blade lift height shall be at least 13.5" (342 mm)
8.6			Dozer float shall be standard to give easy and fast site clear up and leveling
8.7			Blade shall come standard with bolt-on reversible wear edge

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 9			
No.	YES	NO	SWING SYSTEM
9.1			Swing speed shall be 10.6 rpm
9.2			Left swing without stop shall be at least 80 degrees
9.3			Left swing with stop shall be at least 60 degrees
9.4			Right swing shall be at least 50 degrees
9.5			Machine shall have a spring applied, hydraulic release automatic swing break

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 10			
No.	YES	NO	WORK TOOL OPTIONS
10.1			A quick coupler system shall be available (mechanical and hydraulic), which will pick up the 'direct mounted' work tools
10.2			The hydraulic quick coupler option shall have the lines available to be installed from the factory
10.3			Coupler must offer the option to turn the bucket around in front shovel positioning providing the advantage of digging under obstacles

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 11			
No.	YES	NO	SERVICEABILITY
11.1			All daily maintenance areas shall be situated where they can be easily reached from ground level
11.2			Fuse box shall be open able without tools
11.3			Track rollers and carrier rollers shall be lifetime lubricated for increased service life
11.4			Grease lubricated track shall be provided as standard equipment for increased service life
11.5			Track shall have a split-pin type master pin that makes track attachment and removal easier
11.6			Scheduled oil sampling port for the main hydraulic system shall be provided for hydraulic oil to simplify sampling
11.7			An engine coolant sampling port shall be provided to allow engine coolant to be tested for antifreeze and additive strengths
11.8			Radial seal air filter with double layered filter core shall be provided for better filtration
11.9			One maintenance-free battery shall be provided
11.10			Hydraulic system pressure taps shall be included for quick, easy, efficient, system diagnostics
11.11			The engine fan guard shall fully enclose (360°) the engine fan
11.12			An electronic priming fuel pump shall be standard
11.13			Machine shall come standard with an onboard remote monitoring and management system (Product Link) that supplies data including but not limited to hours of use, idle time, fuel consumption, load factors, GPS coordinates of location, and allow remote diagnostics and maintenance reviews to be performed

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 12			
No.	YES	NO	MINIMUM SERVICE FILL CAPACITIES
12.1			Fuel tank capacity shall not be less than 39 gal (147 L)
12.2			Cooling system shall not hold less than 2.6 gal (10 L)
12.3			Engine oil shall not hold less than 3.0 gal (11.2 L)
12.4			Each final drive shall have a capacity of 0.26 gal (1L)
12.5			Hydraulic tank shall not hold less than 14 gal (53 L) of hydraulic oil
12.6			Hydraulic system shall not hold less than 28 gal (107 L)

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 13			
No.	YES	NO	OWNING AND OPERATING COSTS
13.1			Factory-fill extended-life coolant with a minimum life of 6,000 hours or three years, rated to -35° F (-37° C), shall be standard. Factory fill extended-life coolant with a minimum life of 6,000 hours or three years, rated to -58° F (-50° C) shall be optional
13.2			Engine oil and filter shall have a recommended change interval of 500 hours
13.3			Hydraulic system oil shall have a recommended change interval of 6000 hours

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 14			
No.	YES	NO	ADDITIONAL FEATURES
14.1			Factory installed extra counterweight optional
14.2			Counterweight shall have threaded lifting eyes
14.3			A factory installed swivel guard shall be available
14.4			An integrated rear camera shall be available from the factory
14.5			Push to Start shall be an option with Bluetooth® key or operator code options available
14.6			An advanced touch screen monitor shall be available
14.7			Boom and stick hose burst check valves shall be available from factory
14.8			Water jacket heater shall be available from factory
14.9			Refueling pump shall be available from factory
14.10			Air suspension heated seat shall be available from factory
14.11			Cab guarding shall be available from factory
14.12			A rotating beacon shall be available from factory
14.13			Computer based operator training shall be available from the manufacturer in both English and Spanish

Answer the questions in this attachment. If you have exceptions to any of the items, add the exceptions to Attachment #16 on page 26.

ATTACHEMENT # 15				
No.	YES	NO	OPTIONS	PRICING
15.1			48" Mulcher	\$
15.2			Hydraulic hammer with Moil bit	\$
15.3			12" Digging/General purpose bucket with teeth and pins	\$
15.4			16" Digging/General purpose bucket with teeth and pins	\$
15.5			18" Digging/General purpose bucket with teeth and pins	\$
15.6			20" Digging/General purpose bucket with teeth and pins	\$
15.7			24" Digging/General purpose bucket with teeth and pins	\$
15.8			47" Grading/Mud Bucket with pins	\$
15.9			Thumb Hydraulic	\$
15.10			SSL TO MHE Adapter	\$
15.11			Hydraulic Auger with pins	\$
15.12			6" AUGER BITS - BOLT-ON ROCK HEAD	\$
15.13			9" AUGER BITS - BOLT-ON ROCK HEAD	\$
15.14			12" AUGER BITS - BOLT-ON ROCK HEAD	\$
15.15			15" AUGER BITS - BOLT-ON ROCK HEAD	\$
15.16			18" AUGER BITS - BOLT-ON ROCK HEAD	\$
15.17			24" AUGER BITS - BOLT-ON ROCK HEAD	\$
15.18			6 ft Auger bit Extension	\$
15.19			27" Ripper with pins	

