



COUNTY OF EL DORADO
Procurement & Contracts

ATTN: Purchasing Agent
330 Fair Lane
Placerville, CA 95667

INVITATION TO BID & BID #09-760-024
DUE: 3:00 PM - July 22, 2008

Sealed Bids must be clearly marked on the outside
of the package with:
"BID #09-760-024, MAILROOM DO NOT OPEN"

(A)

Bonnie D. Rich
Purchasing Agent

ALL BIDS SUBJECT TO GENERAL CONDITIONS

PAVEMENT PROFILER (ASPHALT MILLING MACHINE)

General: The El Dorado County Procurement & Contracts Division is requesting bids for the purchase of one (1) Pavement Profiler (Asphalt Milling Machine) for use by the Department of Transportation. The County intends to finance the purchase of equipment specified in this Invitation to Bid and will, separately solicit the financing upon the award of this Invitation to Bid & Bid #09-760-024.

Requirement: Bidders failing to comply with any single requirement will not be considered for the evaluation and award process.

1. Bidders must complete the Specification Schedules on Pages seven (7) through twenty-four (24) to be considered for bid evaluation and award. All items on the specification schedules must have a check mark indicating Yes or No. All marks on the "NO" column shall be fully explained in detail on page twenty-five (25) labeled "Exceptions to Bid Specifications."
2. The Quotation Schedule on page twenty-six (26) must include the manufacturer and model number of the equipment being bid.
3. Complete delivery of the unit(s) bid must be completed within 120 days of date of order. Bidder guarantees that delivery will be made within 120 days of order.

ALL BIDS SHALL BE QUOTED FREIGHT PREPAID FOB DESTINATION

Prior to preparing your bid submittal, please note the General Conditions, Instructions to Bidders, item #3 which states:

Erasures, overwrites, and the use of correction fluid/tape are NOT acceptable.

PROMPT PAYMENT DISCOUNT TERMS: NET Percent 30 Days (less than 20 days considered net)
Delivery: 120-180 Days ARO (after receipt of order)

Nixon-Egli Equipment Co.
 Firm Name
 800 E. Grant Line Rd.
 Mailing Address
 Tracy, CA 95304
 City State Zip
 209-830-8600
 Phone

Carl Bahnsen
 Signature of Authorized Agent
 Carl Bahnsen, Vice President
 Print Name & Title of Authorized Agent
 July 22, 2008
 Date
 209-830-8884
 Fax

carl.bahnsen@nixon-egli.com
E-Mail Address

Specifications: The specifications on the following pages are the minimum qualifying requirements. Minor deviations from these specifications may be accepted at the sole discretion of the County. Major exceptions, which, in the opinion of the County, affect the function of the, asphalt milling machine will not be accepted.

Information: For additional information, contact Dan Lynch, Sr. Department Analyst, at (530) 621-5180 (*email:daniel.lynch@edcgov.us*). Bidders are cautioned that they are not to rely upon any oral statements that they may have obtained. Bidders shall direct all inquiries to the County Procurement and Contracts Division Purchasing Agent and shall not contact the requesting department directly regarding any matter related to this Invitation to Bid.

California Sales & Use Tax Requirement: Any bidders located outside of the State of California selling goods to the County must possess a valid and current California Seller's Permit at the time of bidding and maintain such permit in good standing throughout the awarded period.

Provide California Seller's Permit Number: SYAA-17-647005

Delivery: Product shall be delivered F.O.B. destination, freight prepaid, on ground or inside delivery, to the following location:

Department of Transportation
2441 Headington Road
Placerville, CA 95667

Incomplete and Altered Bids: Incomplete or altered bids, and bids containing items not called for in the bid may be rejected. Bids submitted on forms other than those furnished by the County will not be considered.

Terms and Conditions: The County will not consider any terms and conditions other than the terms and conditions contained in the subject bid. Bidders submitting their own terms and conditions will not be considered and will be rejected. Any bid response containing alterations to the General Terms and Conditions or terms and conditions contained in the subject bid, will not be considered and will be rejected.

Merchantability: There shall be an implied warranty of merchantability and fitness of an intended use. Any bid submittals taking exception to this requirement may, at the County's option, be considered non-responsive.

County's Rights: The Purchasing Agent reserves the right to not enter into any agreement, cancel this process at any time, amend this process at any time, or to award more than one contract to the lowest, responsive, responsible bidders if it is in the best interest of the County

Returns: The County reserves the right to return product within thirty (30) days of receipt by the County for credit or refund without a shipping or restocking fee. Product returned shall be in good condition and in the original package (if applicable). Defective product or product under warranty may not always be returned in the original package.

Federal, State, and Local Laws: The successful bidder must operate in conformity with all applicable, federal, state, and local laws. It is the responsibility of the awarded bidder to ensure that all permits and/or licenses required for operation are valid and current. Failure to comply with this provision may be cause to cancel any contract awarded, and award will be made to the next lowest, responsive, responsible bidder.

Business License: It is unlawful for any person to furnish supplies or services, or transact any kind of business in the unincorporated territory of El Dorado County without possessing a County business license unless exempt under County Code Section 5.08.070. Contact the Tax Collector's Office at 360 Fair Lane, Placerville, CA 95667, or phone (530)621-5800, for further information. El Dorado County is an equal opportunity employer (EOE). Minorities, females, and handicapped are encouraged to participate (M/F/H).

It is not a requirement to possess a County business license at the time of bid submittal. Successful bidders may be required to possess a County business license to award bid.

Local Vendor Preference: In accordance with Board of Supervisor's Policy C-17 section 5.7.1 a local preference credit of 5% for El Dorado County businesses will be permitted when evaluating bids for supplies and equipment that are not part of a public project.

In order to qualify for the local preference authorized by this section, the vendor seeking such preference shall be required to submit with its bid a statement containing relevant information which demonstrates compliance with the provisions of this section. The statement shall be on a form provided by the Purchasing Agent and shall be signed under penalty of perjury. Any person, firm, corporation or entity intentionally submitting false information to the County in an attempt to qualify for local preference may be prohibited from bidding on El Dorado County products and services for a period of one (1) year from the date of the false submittal. Bidders claiming local vendor preference must submit the affidavit of eligibility with their bid response. The Affidavit may be downloaded by clicking on the following link: <http://www.co.el-dorado.ca.us/Contracts/pdf/LocalVendorPreferenceForm.pdf>

Where state sales tax will be paid for the purchase, the local business must possess a valid resale license from the State Board of Equalization showing evidence of a local business address within El Dorado County. If the local business has more than one office in the State of California, the office located in El Dorado County shall be the point of sale credit for the purpose of sales tax calculation.

Compliance: Late, incomplete, incorrect deliveries or excessive backorders will be documented, and performance evaluated when considering contract continuation or extension. Inaccurate or erroneous billing will also be documented and monitored for the purpose of evaluating performance when considering continuation or extension of contract. Failure to meet quoted delivery timeframes, or inaccurate or erroneous invoices (as determined by the Purchasing Agent) may be cause for the County to cancel the balance of the awarded blanket purchase order and award will be made to the next lowest bidder. Failure to receive County concurrence for substitutions or alternates will be documented and considered when evaluating continuation or extension of contract.

Invoices and Payment Terms: Invoices are to be mailed to the County department(s) specified on the resulting purchase order, blanket purchase order or contract. All invoices must include the purchase order number, blanket purchase order number, or contract number, County stock numbers when applicable, product description and reference to back ordered items. Invoices must be exclusive of product other than bid items. Failure to comply may result in delayed payments.

The County will make payment on a Net 30-day basis unless a cash discount of one-half percent (1/2%) or greater, which amounts to \$2.50 or more, is allowed for payment within not less than twenty (20) days. The payment term shall begin on the date the merchandise is inspected, delivered and accepted by the County, or on the date a correct invoice is received in the office specified in the order, whichever is later. Prompt payment discounts shall be considered earned if payment is postmarked or personally delivered within the prescribed term. The beginning date described above shall be considered day zero for the purposes of counting days in the prescribed term.

El Dorado County Web Site Requirements: It is the bidder's responsibility to monitor the County's website for possible addenda to this bid to inform him/herself of the most current specifications, terms, and conditions, and to submit his/her bid in accordance with the original bid requirements and all addenda. All available bids and related addenda can be found at:

<http://www.co.el-dorado.ca.us/Contracts/invite.asp>

Failure of bidder to obtain this information shall not relieve him/her of the requirements contained therein. Those bidders not acknowledging and returning Addenda as required will not be considered and will be rejected as "non-responsive."

Public Agency: It is intended that other public agencies (i.e., city, special district, public authority, public agency and other political subdivisions of the State of California) shall have the option to participate in any agreement created as a result of this Invitation to Bid with the same terms and conditions specified there in, including pricing. The County shall incur no financial responsibility in connection with a purchase order from another public agency. The public agency shall accept sole responsibility for placing orders and making payment to the vendor.

Addenda: Addenda to this bid are valid only if in writing and issued by the Procurement & Contracts Division and are required to be acknowledged and returned by participating bidders in order for the bidder to be considered further in the evaluation process. Unless otherwise indicated, those bidders not acknowledging and returning Addenda as required will not be considered and will be rejected as "non-responsive."

Non-Collusion: The bidder certifies that this bid response is made without any previous understanding, agreement or connection with any person, firm or corporation making a bid for the same project, and is in all respects fair, without outside control, collusion, fraud or otherwise illegal action.

Conflict of Interest: Bidder states that no County officer or employee, nor any business entity in which they have an interest, has an interest in the bid award been employed or retained to solicit or aid in the procuring of the resulting contract, nor that any such person will be employed in the performance of such contract.

Evaluation: Bids will be evaluated based on meeting or exceeding minimum specifications. Bids submitted on the basis of "All or Nothing" may be rejected. Bid evaluation shall include applicable prompt payment terms discount. If payment cannot be made within the discount period, payment terms shall revert to Net 30 days.

Award: The bid may be awarded by grand total to the lowest responsible and responsive bidder complying with the provisions of the Invitation to Bid. In determining whether a bid is lowest and responsive, and the bidder is responsible, the following may be considered by the County: a) ability to perform the service required within the specified time; b) Reputation, judgment and experience; c) The quality of performance in previous contracts; d) Previous compliance with laws as well as employment practices; e) Financial ability to perform the contract; f) The quality, availability and adaptability of the supplies or the contractual services to the particular use required; g) Ability to provide maintenance and service; h) Whether the bidder is in arrears to the County, in debt on contract, is a defaulter on surety to the County or whether the bidder's taxes or assessments are delinquent; i) The resale value and life cycle costs of the items; j) Such other information as identified in the Purchasing Ordinance having bearing on the decision to make the award. The decision of the County Board of Supervisors shall be final in determining the successful bidder.

Additional Purchases: Following the bid award, the Purchasing Agent may dispense with separate bidding for additional purchases of the same item(s) from the successful bidder within a twelve (12) month period from the initial purchase date provided that the vendor agrees to provide the item(s) at the same price and under the same terms and conditions as the previous award.

Bid Results: The Procurement and Contracts Division does not mail out hard copy letters advising participating bidders of the bid results. For bid results, please visit our website at

<http://www.co.el-dorado.ca.us/Contracts/bidresults.asp>

Bid results will be posted approximately ten to fourteen business days after the bid opening deadline date or when the evaluation is complete.

Bid Submittal: *All bidders are advised to read the General Conditions contained on the last page of this Invitation to Bid prior to submitting a bid.*

Bids must be submitted in a sealed container or envelope clearly marked on the outside: "**BID #09-760-024, MAILROOM DO NOT OPEN**". Bids will be accepted Monday through Friday from 8:00 a.m. to 12:00 p.m. and 1:00 p.m. to 5:00 p.m. **The office is closed between the hours of 12:00 p.m. and 1:00 p.m.**

Bids must be received in the Procurement & Contracts Division by **3:00 p.m., July 22, 2008:**

Mailing/Physical (Fed Ex, UPS etc)
EL DORADO COUNTY
PROCUREMENT & CONTRACTS (PURCHASING)
330 FAIR LANE
PLACERVILLE, CA 95667

It is the responsibility of the bidder to assure that the bid is received in the Procurement & Contracts Division prior to the bid opening deadline date and time. Bids received beyond the bid opening deadline will not be accepted and will be returned unopened. The time stamp clock located in the office of the Procurement and Contracts Division will serve as the official time clock.

Late bids, unsealed bids, unlabeled bids, incomplete bids, or bids otherwise not in compliance with the General Conditions of this Invitation to Bid, will be rejected.

By submitting a response, bidder acknowledges and accepts the General Conditions and all terms and conditions contained in this Invitation to Bid.

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SPECIFICATIONS

GENERAL:

It is the intent of these specifications to describe the minimum requirements for one (1) front loading Pavement Profiler, mounted on four crawler tracks. It shall be complete with all standard equipment as described in the manufacturers published literature and manuals as well as special accessories described herein. The Profiler shall be completely serviced and ready for use prior to inspection and delivery. The model bid shall be a current production machine and there shall be units operating successfully in North America for reference.

YES **NO**

DIMENSIONS AND CAPACITY:

- A) Overall Length (transport) shall be 44'0" (max)
- B) Height (transport) shall be 9'10" (max)
- C) Width (operating) shall be 9'1" (max)
- D) Width (transport) shall be 7'9" (max)
- E) Weight (shipping) shall be 44,313 lbs (min)
- F) Weight (operating, CE) shall be 46,518 lbs (min)
- G) Weight (operating maximum) shall be 48,722 lbs

MILLING DRUM DIMENSIONS:

- A) Diameter at cutting bit (tip to tip) shall be 39" (min)
- B) Cutting width shall be 51" (min)
- C) Cut depth range (single pass) shall be 0" – 12.5"
- D) Number of teeth per inch of drum length shall be 2.5 (min)
- E) Maximum cross slope angle shall be 10 degrees (min)

CONVEYORS DIMENSIONS:

- A) Swing angle (from center) shall be 36 degrees left, 36 degrees right (min)
- B) Width (pickup) shall be 25.6" (min)
- C) Width (load out) shall be 24" (min)
- D) Length (horizontal from pivot) shall be 25'9" (min)
- E) Loading height (ground to bottom of conveyor) shall be 16'5" (min)

YES NO

TRAVEL SPEED:

- X ___ A) Self transport (maximum) shall be 3.3 MPH
- X ___ B) Milling range shall be 0-105 FPM
- X ___ C) Inside turning radius shall be 75" (max)

TANK CAPACITIES:

- X ___ A) Fuel shall be full at delivery – 164 US gal (min)
- X ___ B) Water shall be 370 US gal (min)
- X ___ C) Hydraulic oil shall be 34 US gal (min)

NOISE:

- X ___ A) Noise emitted by unit delivered in compliance with these specifications shall comply with all California and Federal laws or regulations pertaining to maximum allowable emission of noise at the operator's station.
- X ___ B) In no event shall the noise emitted be greater than 90 dB(A).
- X ___ C) The vendor may submit documentation to demonstrate compliance with this requirement.
- X ___ D) Sound level reading:
 - X ___ 1) Will be taken with the equipment unit stationary after the unit has been warmed up for 15 minutes.
 - X ___ 2) Will be taken with the engine operating at full governed RPM, one (1) man in the operator's seat with the meter about twelve (12) inches from the operator's ear.
 - X ___ 3) All non-propulsion operating controls may be randomly actuated throughout the test.

ENGINE:

- X ___ A) Water cooled diesel, "Cummins", QSC 8.3, 304 SAE Net HP (min), at 1900 RPM, 506 CID (min), 1000 ft/lbs torque (min), at 1500 RPM
 - X ___ 1) shall be a non-road Tier III or greater;
 - X ___ a) emission levels must be achieved by engine design and not attained by any type of exhaust after treatment.
 - X ___ 2) shall be capable of achieving maximum level of emission control standards available at the time of manufacture.

YES NO

ENGINE (Continued)

- | | | | |
|----------|-------------|----|---|
| <u>X</u> | <u> </u> | 3) | shall conform to 2008 or newer U.S. EPA regulations for large non-road compression-ignition engines, and California Air Resources Board regulations for heavy duty off-road diesel engines. |
| <u>X</u> | <u> </u> | B) | Engine shall be elastically mounted in the chassis to reduce vibration and noise levels. |
| | | C) | The following items shall be furnished and installed: |
| <u>X</u> | <u> </u> | 1) | Dry type air cleaner with service indicator. |
| <u>X</u> | <u> </u> | 2) | Fuel/water separators and filters shall be provided in accordance with engine manufacturer's recommendations. |
| <u>X</u> | <u> </u> | 3) | Visual and audible warning devices for high coolant temperature and low oil pressure. |
| <u>X</u> | <u> </u> | 4) | Visual warning shall have a light for temperature and low oil pressure warning. |
| <u>X</u> | <u> </u> | 5) | Lube oil filters in accordance with engine manufacturer's recommendations. |
| <u>X</u> | <u> </u> | 6) | The engine shall be equipped with an "environmental drain" arrangement for oil and coolant to prevent spillage when draining for service. |
| <u>X</u> | <u> </u> | 7) | Engine power to ground drive system shall be hydrostatic drive, provided by a single variable displacement pump. |
| <u>X</u> | <u> </u> | 8) | Fuel tank to include a clean-out access cover. |
| <u>X</u> | <u> </u> | 9) | Automatic Throttle Control: |
| <u>X</u> | <u> </u> | a) | Control raises the engine to maximum throttle when milling begins. |
| <u>X</u> | <u> </u> | b) | Control lowers the throttle to idle when milling is stopped. |
| <u>X</u> | <u> </u> | c) | When in travel mode the automatic throttle will adjust engine speed variably, dependant on the position of the travel drive lever and ground speed requirement. |

YES NO

CHASSIS:

- X A) Chassis shall be designed for heavy use and be capable of withstanding all forces and loads developed in pavement milling operations without permanent deformation or cracking.
- X B) Chassis or accessories shall provide at least one completely unobstructed side for flush curbside cuts.
- C) Chassis shall include the following items or accessories:
- X 1) Work platform for operator(s)
- X a) with adequate, supported access ladders and hand railing.
- X b) access ladder shall be positioned at the rear of the machine to allow the operator to mount and dismount without exposing himself to traffic passing the sides of the machine.
- X 2) Toolbox and/or locking compartments.
- X 3) Hydraulic oil tank with an integral cleanout/inspection cover.
- X 4) Water tank with an integral cleanout/inspection cover.
- X 5) Operators control station with fully adjustable seat and steering column.
- X 6) Hard roof canopy to provide shade and weather protection for the operator station shall be included.
- X a) Roof shall be hydraulically adjustable.
- X b) Roof shall be capable of being lowered to the seat for transport.
- X 7) Water spray system for milling drum.
- X 8) Hydraulic ground drive.
- X 9) Milling drum shall be positioned in the rear of the machine, between and on a direct line axis with the rear tracks to provide for maximum weight transfer to the milling drum.
- X 10) Milling drum shall not be located in front of any drive or steering tracks.
- X 11) Operator platform shall be directly positioned over the drum to allow for maximum control and visibility.

YES NO

CHASSIS (Continued)

- X 12) Front tracks shall be fitted to individually suspended support legs with a minimum diameter of 7.0 inches.
- X 13) Each front support leg shall utilize hydraulic cylinders, which can be simultaneously actuated to adjust the height of the front of the machine.
- X 14) Front leg cylinder hydraulic system shall be constructed so that both tracks remain in contact with the ground on uneven surfaces or when making a partial cut.
- X 15) All steering linkages for the front tracks shall be mounted from directly under the machine frame and attached to collars on the front legs where they enter the leg support barrels for improved ground clearance.
- X 16) Front track tie rod shall be mounted between the two leg collars to maintain front track alignment and reduce track assembly wear.
(Tie rods connected to the track frames are not acceptable.)
- X 17) Rear tracks shall be fitted to individually suspended support legs with a minimum diameter of 8.0 inches.
- X 18) Rear support legs shall utilize hydraulic cylinders, which can be individually or simultaneously actuated to adjust the milling depth and angle.
- X 19) Track and support leg at the right rear shall pivot 180 degrees, hydraulically, without the need for hand tools to be used in the operation, to increase the side clearance and allow for flush cutting next to the curb.

INSTRUMENTS AND CONTROLS:

- X A) All electric gauges shall be illuminated and have a vandalism protection cover over the operators panel with a lockable hasp.
- X 1) Cover shall be removable or hinged and shall not hinder the operator's view.
- X B) All instruments and controls shall be fully labeled.
- X C) All labels shall be of the international symbol type.

YES NO

INSTRUMENTS AND CONTROLS (Continued)

D) The following instruments shall be provided in a centrally located operator's control station:

- X 1) Hour meter
- X 2) Engine oil pressure gauge with low engine oil pressure warning light and horn
- X 3) Coolant temperature gauge with high engine temperature warning light and horn
- X 4) Low coolant level indicator with light and warning horn
- X 5) Fuel level gauge

E) The following controls shall be provided at the operator's control station:

- X 1) Profiler directional controls (steering wheel type).
- X 2) Illuminated cutting drum operating controls (start/stop), with automatic safety circuit to prevent damage to the drum drive by clutch engagement at other than engine idle speed.
- X 3) Ground speed control with incorporated brake on/off control.
- X 4) Conveyor system controls (elevation, swing, on/off and speed control).
- X 5) Illuminated water spray system controls (on/off).
- X 6) Moldboard controls, lift, lower, float and lock. The moldboard pressure shall be adjustable from the operators console and include a gauge to indicate moldboard "down" pressure.
- X 7) Full automatic grade controls, with manual override, 1/8 inch tolerance (min).
- X 8) Machine elevation manual controls for front and rear legs.
- X 9) Emergency engine stop switch(s), mounted at the operator's control panel(s), easily accessible and operable by an operator wearing work gloves.

YES NO

INSTRUMENTS AND CONTROLS (Continued)

- X ___ 10) An additional emergency stop switch shall be located at ground level at the front left side of the machine.
- X ___ 11) Multi-position ignition (off, on and work light position).
- X ___ 12) Control for flow divider (off, on and momentary on).
- X ___ 13) Adjustment control for automatic performance regulator engine RPM range.
- X ___ 14) There shall be an automatic "in motion" circuit when in the milling mode. When the travel drive lever is moved from neutral, the throttle will increase to maximum, the water spray and the conveyor drive will actuate. Returning the travel lever to neutral shall lower the throttle to idle and stop the water spray and conveyor.
- X ___ 15) Control for two (2) audible horns to alert trucks.
- X ___ a) One horn shall be located at the front of the chassis.
- X ___ b) One horn shall be located at the end of the conveyor.

ELECTRICAL SYSTEM:

- X ___ A) Shall be 24 volt, direct current, negative ground.
- X ___ B) All electrical circuits shall be protected by reset-able circuit breakers.
- X ___ C) Alternator, regulator, starter, battery shall have a disconnect switch.

HYDRAULIC SYSTEM:

- A) Hydraulic pumps shall be
 - X ___ 1) driven by a pressure lubricated mechanical gearbox
 - X ___ 2) powered by, but separate from the diesel engine, to eliminate the possibility of a leaking pump seal causing contamination of the engine oil.
- B) Pump drive gearbox shall
 - X ___ 1) have an "environmental drain" arrangement to prevent oil spillage when draining the gearbox for service. **(NOTE - **Belt driven hydraulic pumps are not acceptable.)**

YES NO

HYDRAULIC SYSTEM (Continued)

2) provide hydraulic power to the following systems:

- | | | |
|--|----|---|
| <u> </u> <u>X</u> <u> </u> <u> </u> | a) | Ground drive (For ease of service, hydraulic hoses to drive motors shall pass through bulkhead fittings before entering the machine frame |
| <u> </u> <u>X</u> <u> </u> <u> </u> | b) | Steering |
| <u> </u> <u>X</u> <u> </u> <u> </u> | c) | Chassis lift |
| <u> </u> <u>X</u> <u> </u> <u> </u> | d) | Moldboard |
| <u> </u> <u>X</u> <u> </u> <u> </u> | e) | Conveyor and conveyor lift |
| <u> </u> <u>X</u> <u> </u> <u> </u> | f) | Hydraulic side plate lifters |
| <u> </u> <u>X</u> <u> </u> <u> </u> | g) | Thermostatically controlled, hydraulically driven, variable speed, engine cooling fan |
| <u> </u> <u>X</u> <u> </u> <u> </u> | h) | 150 micron oil strainer(s) |
| <u> </u> <u>X</u> <u> </u> <u> </u> | i) | 10 micron return line filter(s) |
| <u> </u> <u>X</u> <u> </u> <u> </u> | j) | 10 micron suction filter(s) |
| <u> </u> <u>X</u> <u> </u> <u> </u> | k) | Forced air hydraulic oil cooler with low temperature bypass and thermostatically controlled cooling fan |
| <u> </u> <u>X</u> <u> </u> <u> </u> | l) | All fittings shall be in accordance with recommended practices. NOTE - **Black iron piping is not acceptable. |
| <u> </u> <u>X</u> <u> </u> <u> </u> | m) | Hydraulic tank shall have shut-off valves or other means to change filters without loss of hydraulic fluid. The reservoir shall have a filter breather/filler cap and an "environmental drain" arrangement to prevent oil spillage when draining hydraulic oil. |

YES NO

GROUND DRIVE:

- X A) Ground drive shall have four (4), minimum 10" wide by 52" long, hydraulically driven tracks at the front and rear of the machine.
- X 1) Track assemblies shall have a minimum of three bottom support rollers.
- X 2) Track assemblies shall have automatic, hydraulic track tensioning system.
- X 3) Track assemblies shall have bolt-on polyurethane track pads and shall be easily replaceable without disassembly of the crawler tracks.
- X 4) No part of the track drive planetaries shall protrude beyond the outer edge of the track grousers.
- X 5) The right rear track shall be steerable to enhance the machines maneuverability.
- X B) Full hydraulic (hydrostatic) proportional balanced drive, infinitely variable throughout the travel and milling speed ranges.
- X C) Hydrostatic drive type brakes, providing dynamic braking.
- X D) Over-pressure bypass valve, over-pressure cut-off valve to prevent excessive temperatures in the pump.
- X E) Parking brake, spring applied, hydraulically released disc type on all four tracks.
- X F) Hydraulic flow divider to ensure consistent tractive effort and to prevent track slippage. Shall be switchable by operator (off, on and momentary on).
- X G) An emergency tow valve shall allow the machine to be towed in case of engine power loss. The tow package shall release the parking brake system without the need of external engine or hydraulic power and create a by-pass in the hydraulic ground drive system so that the machine may be towed for short distances.
- X H) Machine shall have a load sensing function. In hard milling situations the computer will sense a load on the engine and lower engine RPMs, slowing the travel of the machine to get through the hard surface.

YES NO

MILLING DRUM SYSTEM:

A) DEPTH OF CUT:

- X 1) Milling drum shall be capable of cutting from 0 to 12.5 inches below grade, without removing or modifying side plates or moldboard door.
- X 2) Milling drum must be capable of cutting different depths from one side of the drum to the other within the maximum cross slope specifications of the milling machine.

B) DRIVE:

- X 1) Engine power to milling drum shall
- a) be via a dry friction clutch.
 - b) be heavy-duty.
 - c) have a minimum 10 rib drive belts with automatic tensioner.
 - d) have two reversible sheaves to provide two milling drum speeds.
 - e) have a planetary reduction gearbox inside the drum.
- X 2) Drum drive system must automatically disengage upon engine start-up and shut-down. **NOTE - **Countershaft style drum drive transmissions are not acceptable. ** A hydraulic drum drive system via a combination of hydraulic pumps and motors is not acceptable.**
- X 3) Drum drive clutch shall be a hydraulically engaged, dry, multi-disc style clutch.
- X 4) Belt drive automatic hydraulic belt tensioner shall include a nitrogen accumulator to protect the drive system from shock damage.

YES NO

MILLING DRUM SYSTEM (Continued)

C) DRUM, BITS, FLIGHTING:

- 1) Drum shall have
 - X a) bolt-on tool holder system, "Quick Change" type with a single bolt per holder, allowing easy field replacement without the need for a welder, using only common hand tools.
 - X b) holder system to ensure precise alignment of holder geometry to maintain high tooth endurance. **NOTE - **Tool holders retained by a wedge or interference fit only, are not acceptable.**
 - X c) To increase the life of the tool holders, they shall have a face diameter of at least 44mm (1.73") in order to accept milling bits with 44mm washers or wear shoulders.
- 2) Bits shall be industry standard type with a 0.765 inch shank diameter.
- 3) Drum shall be equipped with manganese faced, bolt-on material removal paddles.
- 4) Automatic disengagement of the drum drive when the access door is open.
- 5) The support bearing on the opposite end of the drum from the gearbox shall be a heavy duty, long life, cylindrical roller bearing using oil bath lubrication.
- 6) Hydraulic side plate lifters to enhance curb cutting capability:
 - X a) Side plate lift shall be via hydraulic cylinders attached directly to the side plates. **NOTE - **A cable and pulley lift system is not acceptable.**
 - X b) Side plates shall lower automatically when the operating switch is released.
 - X c) Side plates shall be capable of being locked in the **up** position **only** when drum access door is open for service for safety and serviceability.

YES NO

MILLING DRUM SYSTEM (Continued)

D) **MOLDBOARD:**

- X 1) Moldboard shall have segmented, replaceable, abrasion resistant carbide steel scraper blade wear edges, across the full width.
- X 2) Hydraulic lift cylinder(s) with positive up/down controls and a "float" mode.
- X 3) There shall be a moldboard pressure adjustment at the operators station with a gauge showing the moldboard 'down' pressure.
- X 4) Moldboard shall have a positive mechanical lock to keep the back door up if the hydraulic suspension should fail.

AUTOMATIC GRADE PROFILING CONTROLS:

- X A) An automatic, electronic grade control system, using proportional hydraulic control valves shall be provided.
- X B) System shall be capable of maintaining cut depth within +/- 1/8-inch tolerance.
- X C) Grade sensors shall be mounted to the machine frame out of the way of hazards, and shall reference from the drum housing side plates for normal milling operations.
- X D) Automatic, electronic cross slope control shall be included with the grade control system.
- X 1) Cross slope shall be operated using the same control unit as the depth control.
- X 2) Control units shall be capable of switching between depth function and slope function without the necessity of stopping the machine.
- X 3) Grade/slope mode switches shall be positioned at the machine operator's station.
- X 4) There shall be a continuous readout of the operating slope angle whether in the depth or slope mode.

YES NO

AUTOMATIC GRADE PROFILING CONTROLS (Continued)

- X 5) There shall be two grade system controls, one for each side of the machine.
- X a) Each system controller shall have a keyboard to control all grade functions.
- X b) Each system controller shall have two digital readouts:
- X (1) One readout shall indicate the current command for either depth of cut, or cross slope in percent.
- X (2) Second readout shall indicate the measured depth of cut, or cross slope in percent.
- X c) Depth controls shall be capable of operating in either inch or centimeter measurements, and shall be easily changed from one to the other by the grade control operator.
- X E) Grade controls for both machine sides shall be mounted at, and operated from the machine operator's station.

CONVEYOR SYSTEM

- X A) shall be capable of both discharging into a truck bed and windrowing onto pavement.
- X B) shall be capable of loading tandem-axle trucks from the rear or side.
- X C) shall be capable of loading semi trailer from the side.
- X D) Discharge of the conveyor must extend twenty five (25) feet from the front of the machine frame.
- X E) Conveyor system shall have the capability to be folded back onto the machine for road travel and transport.
- X F) Conveyor shall have a rubber / fabric cover the full length to minimize throw-off of the material.
- X G) Conveyor system shall be of the manufacturer's make and design.

YES NO

COMPONENTS:

- | | | |
|--------------------------|-----|--|
| <u> X </u> <u> </u> | A) | Hydrostatically powered conveyor, two pieces. |
| <u> X </u> <u> </u> | 1) | Conveyor belt speed shall be infinitely adjustable, from zero to maximum speed. |
| <u> X </u> <u> </u> | 2) | Conveyor belt shall be equipped with load sensing system, which maintains conveyor speed when engine speed drops, under load, to less than full load, maximum RPMs. |
| <u> X </u> <u> </u> | 3) | Left and right swing at least 36 degrees each direction from center. |
| <u> X </u> <u> </u> | 4) | Single assembly conveyor carrier and bottom support rollers. |
| <u> X </u> <u> </u> | 5) | Conveyor frame shall be of tubular, lattice style construction for light weight, stiffness and ease of belt replacement. |
| <u> X </u> <u> </u> | 6) | Drive pulley tension must be adjustable. |
| <u> X </u> <u> </u> | 7) | Drive pulley and return pulley tracking must be adjustable. |
| <u> X </u> <u> </u> | 8) | Permanent pressure lubrication fittings on all idlers, or alternately, the idler bearings shall be sealed and permanently lubricated. |
| <u> X </u> <u> </u> | 9) | Primary and secondary belts shall be heavy duty, three-ply with 1.25 inch tall cleats. |
| <u> X </u> <u> </u> | 10) | Conveyor shall have a discharge capacity to handle all material milled by the drum within the operating speed and dept specifications. |
| <u> X </u> <u> </u> | 11) | Loading conveyor must be easily and quickly detachable by one man, without the need for hand tools. |
| <u> X </u> <u> </u> | 12) | Machine must be capable of rear flush cutting to allow for milling out of corners and flush cutting to barriers. |
| <u> X </u> <u> </u> | 13) | Primary conveyor shall be easily removable from the machine for service. |
| <u> X </u> <u> </u> | 14) | Primary conveyor shall be attached at the drum end to a front moldboard / gradation beam assembly. |
| <u> X </u> <u> </u> | a) | This assembly shall be hydraulically adjustable for height above grade, or to allow the gradation beam to contact grade, to minimize the slabbing of broken asphalt. |

YES NO

WATER SPRAY SYSTEM:

- X A) Main water tank, 370 gallon capacity:
- X 1) Tank shall be corrosion protected.
- X 2) Nozzles shall be of the quick removal, twist-off design, and easily accessible for service
- X 3) Spray bar shall be located at the top rear of the drum housing and be constructed of stainless steel.
- X B) Water filter, in-line between tank and pump:
- X 1) Filter shall be rated for system water flow rate and pressure with 80 mesh nominal filtration and basket type construction.
- X C) Water system shall have a non-gravity-drip solenoid to keep water from draining out of the tank when the pump is shut off.
- X D) Water pump:
- X 1) shall be connected for, and be capable of loading the machines main water tank from a separate reservoir.
- X 2) shall be a high capacity, self priming, centrifugal type to ensure lowest possible milling bit temperature.
- X 3) shall start and stop automatically with the machine travel when in the milling mode.
- X 4) shall have a manual over ride for the water pump control.
- X E) There shall be a hydrant style filling connection at ground level on the left side of the machine – Twenty five (25) feet of four (4) inch hydrant filling hose shall be included.
- X 1) Hydrant fill shall be equipped with an anti-siphon device.
- X a) Device shall have an air gap 1.5 times the diameter of the fill pipe.
- X b) Device shall comply with regulations for anti-siphon devices by local water districts. (South Tahoe Public Utility District, El Dorado Irrigation District, and Georgetown Public Utility District.)

YES NO

WATER SPRAY SYSTEM (Continued)

- X ___ F) There shall be a filler opening in the top of the water tank.
- X ___ G) Pressure washing circuit with quick disconnect located near cutter drum.
- X ___ 1) A low pressure washdown hose and nozzle shall be included.

ADDITIONAL EQUIPMENT:

- X ___ A) Electric backup alarm, steam cleanable, minimum 95 DBA.
- X ___ B) Exhaust stack with rain cap and heat shield.
- X ___ C) All deck walking areas shall be either diamond plate decking, grating or non-skid coated plate type decking.
- X ___ D) Operator's platform shall have conveniently located controls and provide excellent visibility forward and backward.

LIGHTING:

- A) The following lights shall be furnished and installed.
 - X ___ 1) Two easily removable halogen work lights on the front of the machine.
 - X ___ 2) One easily removable, halogen work light on right side of the machine to illuminate the drum working area.
 - X ___ 3) Two easily removable, halogen work lights at the loading end of the secondary conveyor.
 - X ___ 4) One easily removable amber warning light, halogen, with on/off switch at the operators panel.

PAINT:

- X ___ Shall be manufacturer's standard.

WORKMANSHIP:

- X ___ The equipment and any accessories shall be a product of good workmanship and shall be free from any defects that will affect their appearance or serviceability.

YES NO

GENERAL:

- X A) This unit and any accessory shall be delivered completely assembled and ready to operate.
- ~~X~~ B) The component parts of the unit shall be new and of proper size and design to safely withstand the maximum stresses imposed.
- ~~X~~ C) All equipment and accessories catalogued as standard unless superseded by these specifications, are to be furnished and included in the purchase price of this unit.
- X D) All equipment / options are to be factory installed.

TRAINING:

- X A) One (1) day of technical training will be provided upon delivery of the completed equipment by a factory trained technician.
- X B) Training will cover proper operation and maintenance of the unit.
- X C) Training will be conducted at the El Dorado County D.O.T. yard.

MANUALS TO BE SUPPLIED WITH COMPLETED UNIT UPON DELIVERY:

- X A) Four (4) operation
- X B) Two (2) repair / service, including Cummins Engine
- X C) Two (2) parts manual, including Cummins Engine

MISCELLANEOUS:

- X Complete list with part numbers of all filters, belts, and any other routinely consumed parts.

DELIVERY:

- X A) Shall be F.O.B. - El Dorado County D.O.T., 2441 Headington Rd., Placerville, CA 95667.
- X B) Unit shall be delivered in a "ready to work" condition.
- X C) Completed unit shall be delivered within one hundred twenty (120) days of order being placed.

YES NO

WARRANTY:

See options on
exception sheet

See options on
exception sheet

___ ___

X ___

X

X ___

X ___

- A) Warranty on parts and workmanship shall be for two (2) years / 1,000 hour from the in-service date.
- B) This warranty shall be a "bumper to bumper" complete machine warranty. Engine shall have a two (2) year / 1000 hour warranty.
- C) Repairs:
 - 1) All warranty repair work shall be performed at the El Dorado County D.O.T. yard at 2441 Headington Rd, Placerville, CA 95667; or within a fifty (50) mile radius of yard at the jobsite at no cost to the County.
 - 2) All warranty repairs shall be performed within eight (8) hours of vendor being notified.
- D) Awarded vendor shall include all inspection coupons, certicards, or warranty identification cards furnished to the general trade and be honored by all franchised dealers of that make.
- E) Should the manufacturer standard warranty exceed the above specifications, that warranty shall apply.

Exceptions to specifications

The fact that a manufacturer chooses not to produce equipment or material to meet these specifications will not be considered sufficient cause to adjudge these specifications as restrictive. Bidders shall offer the equipment, or material, which comes closest to meeting, or exceeding, these specifications. Where deviations from the specifications contained herein are necessary, the bidder shall note such deviations. Bidders shall state why, in their opinion, the equipment or materials they offer will render equivalent reliability, coverage, and performance. Failure to detail any and all such deviations will compromise sufficient grounds for rejection of the entire proposal.

**Erasures, overwrites, and the use of correction fluid/tape are NOT acceptable.
Refer to #3 of the General Conditions for specific instructions**

QUOTATION SCHEDULE

One (1) Pavement Profiler (Asphalt Milling Machine):

Bid Price \$ 390,613.00 plus sales tax

Manufacturer Wirtgen

Model: W130FT

**Erasures, overwrites, and the use of correction fluid/tape are NOT acceptable.
Refer to #3 of the General Conditions for specific instructions**

(Note: Any purchases under this solicitation are contingent upon available funding. El Dorado County reserves the right to cancel this request, increase or decrease quantities, without prejudice, should funding not be available.)

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STATEMENT OF NO RESPONSE

If Vendor is not submitting a response to this BID, RFP, RFI, RFQ, etc, please complete and return this form to: El Dorado County Procurement and Contracts, 330 Fair Lane, Placerville, CA 95667, or fax to (530) 295-2537. Failure to respond to a BID, RFP, RFI, RFQ, etc, or submit a 'Statement of No Response' three (3) times in succession will result in removal from the County's bidders list.

Board of Supervisors Procurement Policy C17, Section 8.2:

Removal of a vendor from the bidders list may be for:

- (a) Failure to respond to more than three (3) consecutive formal invitations to bid; or*
- (b) Failure to respond responsibly to more than three (3) notices to bid; or*
- (c) Failure to perform after an award of a bid; or*
- (d) Other reasons that show the bidder to be a non-responsive or non-responsible bidder.*

The Purchasing Agent must review and approve the removal of a vendor from the bidders list. The Purchasing Agent shall notify the vendor in writing that said vendor has been removed from the bidders list. Vendors removed from the bidders list shall have an opportunity to request reinstatement at any time, and may submit a bid notwithstanding if they have been removed from the list. The request for reinstatement must be submitted to the Purchasing Agent on such forms as provided by the Purchasing Agent

Invitation # (BID, RFP, RFI, RFQ, etc.): _____

Name of Firm: _____

Address: _____

Signature: _____

Telephone Number: _____ Date: _____

The above has declined to submit a bid response for the following reason(s) (please check all that apply):

- We do not offer this commodity and/or service or an equivalent.
- Insufficient time to respond to the RFP.
- Our schedule would not permit us to perform.

Remarks:

GENERAL CONDITIONS

(April 2, 2007)

Instructions to Bidders:

- (1) Bidders are responsible to see that the bid is received in the Procurement & Contracts Division prior to the bid opening deadline. Late bids will be returned unopened.
- (2) All bids must be submitted in ink on the bid form. Cover letters, additional sheets, etc. may be included. The total bid excluding sales tax must appear on the bid form as indicated.
- (3) Erasures, overwrites and use of correction fluid or tape are NOT acceptable. All changes (price, model numbers, part numbers, etc.) must be lined out and corrections inserted adjacent to and initialed by the bidder's authorized representative.
- (4) Vendor is required to quote "NEW" equipment, material or product. Recycled, remanufactured, or previously owned product will not be accepted unless otherwise stated in the Invitation to Bid.
- (5) All bids must include the company name and address and must be signed by an authorized representative of the company; signature must be an original signature, or an original signature stamp, on the County Bid Form.
- (6) Alternate or incomplete bids will NOT be accepted.
- (7) The County, at its sole option, may correct arithmetic or extension errors, and obtain clarification, if necessary.
- (8) If no terms discount is to be offered, the terms portion of the bid form shall state "NET".
- (9) If delivery specified is impossible, bidder must state best delivery available on the bid form. Number of days shall mean calendar days After Receipt of Order (ARO). Bids quoting delivery beyond the requirement may be rejected.
- (10) Bid modifications, corrections, or additions received beyond the bid deadline will NOT be considered.
- (11) Telephone or facsimile bids will NOT be accepted.
- (12) Bid prices shall be firm for a minimum of sixty (60) calendar days from the bid opening unless otherwise indicated on the bid form.
- (13) By submitting a response to this Invitation to Bid, Bidder acknowledges and accepts the County's standard terms and conditions.
- (14) Any alteration to the Invitation to Bid must be added in addenda form, and must be issued by the County Purchasing Agent.
- (15) Protest Procedure: Award of bid will be published on the County's website: www.co.el-dorado.ca.us/Contracts/BidResults.asp. Bidders have ten (10) business days from the date of the posting to submit a letter of protest to the Purchasing Agent. Letter must be signed by an authorized representative stating specific reason(s) for the protest including all relevant facts (law, rule, regulation, criteria).

Brands:

- (1) The use of brand and/or manufacturer names in the bid specification is for descriptive purposes only. Unless otherwise specified, products of comparable quality and performance will be considered.
- (2) Bidders offering other than the referenced brands are to note their brand name and catalog model number on the bid form.

Guarantees:

- (1) All items purchased shall be guaranteed against defects when used for the purposes for which they were designed for.

Taxes:

- (1) Bidders shall NOT include Federal Excise Taxes. An exemption certificate will be furnished to the successful bidder upon request.
- (2) Applicable sales taxes will be added when the purchase order is issued.

Samples:

- (1) Samples of items, when required, must be furnished to the County at the bidder's expense. If possible, samples will be returned upon request and at the bidder's expense. Samples of selected items may be retained for comparison.

Bonds:

- (1) The County reserves the right to require the successful bidder to provide a performance bond in an amount determined by the County. Unless specifically required on the bid form, a performance bond will NOT be required.
- (2) Certification of the performance bond shall be required following bid award and prior to the release of a purchase order.
- (3) Unless specifically required on the form, bidder's bonds will NOT be required.

Award:

- (1) Regardless of amount, unless specifically approved by the County Board of Supervisors, award shall be made to the lowest responsive, responsible qualified bidder.
- (2) In determining the successful bidder, consideration will be given to quality, delivery, warranty, compatibility with existing equipment, and any other information considered to be in the best interests of the County.
- (3) It is unlawful for any person to furnish supplies or services or transact any kind of business in the unincorporated territory of EL Dorado County without possessing a County business license unless exempt under County Code Section 5.08.070. Contact Tax Collector's Office, 360 Fair Lane, Placerville, CA 95667, telephone (530) 621-5800, for further information.
- (4) In accordance with Board Policy, 5.7.1, effective October 11, 2006, the local vendor preference is 5%. Vendor shall have established a place of business within El Dorado County prior to publication of the call for bids.
- (5) The County of El Dorado is an equal opportunity employer (EOE). Minorities, Females and Handicapped are encouraged to participate (M/F/H).
- (6) If the bid is on an "All or Nothing" basis, bidder shall so state. The County reserves the right to make awards on individual items of a multiple item bid if deemed to be in the best interest of the County.
- (7) The County reserves the right to reject any and all bids, or to waive any informality or nonsubstantial irregularity in any bid.
- (8) The County reserves the right to purchase quantities by necessity only regardless of approximate quantities indicated on the bid form. Bidder shall also have the right to refuse sale in reduced quantities; in such instances, the award shall go to the next lowest qualified bidder.
- (9) In case of default by vendor, the County may procure the articles or service from other source and may recover the loss occasioned thereby from any unpaid balance due the vendor or by proceeding against performance bond of vendor, if any, or by legal process against vendor. The prices paid by County shall be considered the prevailing market price at the time such purchase is made.