

BIDDER'S SUBMITTAL



**1306 N. MAIN
PRINEVILLE, OREGON 97754**

PROJECT NAME: Heavy Truck Chassis & Dump Bed Procurement

BID DUE: October 13, 2020 at 3 p.m.

BID OPENING: October 13, 2020 at 3:05 p.m.

AWARD DATE & TIME: October 21, 2020 at approx. 9 a.m.

BID PACKET INFORMATION

Heavy Truck Chassis and Dump Bed Procurement Crook County, Oregon

PROJECT INFORMATION

<u>Project Name:</u>	Purchase of heavy truck chassis and dump bed
<u>Date of Issue:</u>	Wednesday, September 30, 2020
<u>Project Owner:</u>	Crook County, Oregon
<u>Department:</u>	Crook County Road Department

PROCUREMENT TIMETABLE

- A. Procurement documents for bidding will be available: Wednesday, September 30, 2020, at 11:00 a.m.
- B. Bid closing date and time: **Tuesday, October 13, 2020 at 3:00 p.m.** local time as determined by the official clock located in the Crook County Administration office.
- C. Bid opening date, time and location: Bids will be publicly opened and read aloud on **Tuesday, October 13, 2020 at 3:05 p.m.** local time at the Crook County Administrative Office. All bids will be announced at that time.
- D. Contract Award: Final award will be announced during County Court on **Wednesday, October 21, 2020 (estimated time 9:00 a.m.)**
- E. The County reserves the right to change this schedule or terminate the entire procurement process at any time.

PROCUREMENT DOCUMENTS

Availability of Documents: Bid packets are available at <https://co.crook.or.us/Crook-County/County-Administration/Bid-Information> or by contacting Crook County Administration Office, 203 NE Court Street, Prineville, Oregon 97754 (541) 447-6555.

BIDDER'S REPRESENTATIONS

The bidder by making a bid represents that:

- A. The bidder has read and understands the bidding documents and contract documents. The bidder has asked the County all questions necessary to clarify any ambiguity, vagueness, or inconsistency it perceives may exist in the bidding documents or contract documents.
 - A. The proposal is made in compliance with the documents.
 - B. The bid is based upon the materials, equipment, and systems required by the bidding documents without exception.
 - C. Bidder has used complete sets of bidding documents in preparing bids; County does not assume responsibility for errors or misinterpretations resulting from the use of incomplete sets of bidding documents.

ADDENDA

This Bidder's Packet may be changed only by a written addendum issued by the County. When an addendum is issued, it shall be posted to the County's website at <https://co.crook.or.us/Crook-County/County-Administration/Bid-Information>

Addenda shall be posted on the Crook County website under "Bid Information" not later than five (5) calendar days prior to the date fixed for the closing of bids on **Tuesday, October 13, 2020, at 3:00 p.m.** Failure of a prospective bidder to respond to timely-noticed addenda in his/her proposal may cause a bid to be rejected as non-responsive. Prior to submitting a bid, each bidder shall ascertain that the bidder has received all addenda issued.

BIDDING PROCEDURES; PREPARATION OF BIDS

A. Bidding documents are to be addressed to: **Crook County Judge Seth Crawford**, and received at the Crook County Administration office no later than **Tuesday, October 13, 2020, at 3:00 p.m.**, via hand delivery to 203 NE Court Street, or by mail to 300 NE Third Street, Prineville, Oregon. Bids will be opened at the Crook County Administration office on **Tuesday, October 13, 2020, at 3:05 p.m.**

B. **Bidding documents must be** submitted in a sealed envelope and plainly marked on the outside showing:

- the name of the bidder,
- name of the project,
- the word "BID," and
- addressed to the attention of: Crook County Judge Seth Crawford.

Any proposals received after **3:00 p.m. on October 13, 2020**, will not be considered unless no other proposals are received. Postmarks will not be used as a basis for determining timely delivery. Faxed or emailed submittals will not be accepted.

RIGHTS RESERVED BY THE COUNTY

The County reserves the right, in its sole discretion, to pursue any or all of the following actions in regard to this Bidder's Packet:

- A. Issue addenda.
- B. Request additional information and/or clarification from bidder(s).
- C. Permit the timely correction of errors and waive minor deviations.
- D. Issue subsequent proposals based on refinements of concepts proposed in response to the bid invitation.
- E. Withdraw the request for bids.
- F. Extend the time for submittal of bids.

- G. Select the bidder that, in the judgment of the County and any evaluation process notwithstanding, is most likely to succeed in delivering the goods and services desired by the County.
- H. Take whatever other action it deems best in its interest.
- I. The County reserves the right to conduct interviews with bidders to further facilitate ranking pursuant to the criteria.
- J. To reject any and all proposals not in compliance with all prescribed public contracting procedures and requirements, reject for good cause any proposals upon the finding that it is in the public interest to do so, and waive any and all informalities.
- K. The request for bids does not obligate the County to accept any proposal, negotiate with any bidder, award a contract, or proceed with the development of any project described in response to this invitation.
- L. All proposals and bids shall become the property of the County and will not be returned to the bidder.
- M. This invitation does not and shall not commit the County or any of its agents to enter into any agreement, pay any costs incurred in the preparation of any response, or procure or contract for any services or supplies. The County reserves the right to accept or reject any or all responses to the invitation, to request proposals from any, all or none of the applicants or any other individual, or to delay or cancel the request for bids, in part or in its entirety, if it is in the best interests of the County to do so. Responses to this invitation are entirely voluntary and made with this knowledge.
- N. It is the policy of Crook County to provide equal employment opportunity for all persons in compliance with federal and state laws without regard to race, color, religion, sex, age, national origin, and physical or mental disability.

PROJECT COORDINATOR POINT OF CONTACT

Questions should be directed to Robert E. O’Neal, Crook County Road Master, 1306 N. Main Street, Prineville, Oregon 97754; Telephone: (541) 447-4644 or Cell (541) 480-1365.

PREVAILING WAGE RATE

This is **not** a public work contract subject to State Prevailing Wage Rate or the Federal Prevailing Rate of Wage required under the Davis-Bacon Act (40 USC § 3141 et seq.).

SUBMISSION OF BIDS

A successful bid shall provide the minimum information requirements as follows:

- A. Contractor agrees that all of the applicable provisions of Oregon law relating to public contracts are, by this reference, incorporated in and made a part of this Bidder’s Packet.
- B. A statement identifying whether or not the bidder is "resident bidder" as defined in ORS 279A.120(1).

- C. Contractor's certification of non-discrimination in obtaining required subcontractors in accordance with ORS 279A.110(4).
- D. The bidder shall provide **complete answers** to the proposal by completing the **Bidder's Submittal (Attachments 1 and 2)** attached hereto and incorporated herein by reference.

COMPLIANCE WITH APPLICABLE LAWS

By submitting a proposal, bidder certifies conformance with all federal, state and local laws, regulations, executive orders and ordinances applicable to the work under this agreement, including without limitation:

- (I) Titles VI and VII of the Civil Rights Act of 1964 as amended;
- (II) Title V and Section 503 and 504 of the Rehabilitation Act of 1973 as amended;
- (III) The Americans and Disabilities Act of 1990 as amended by ORS 659.425;
- (IV) The Health Insurance Portability & Accountability Act of 1996;
- (V) The Age Discrimination in Employment Act of 1967, as amended, and the Age Discrimination Act of 1975, as amended;
- (VI) The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended;
- (VII) All federal and state laws and regulations concerning Affirmative Action toward equal employment opportunities;
- (VIII) All regulations and administrative rules established pursuant to the foregoing laws; and
- (IX) All other applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations.

These laws, regulations, and executive orders are incorporated by reference herein to the extent that they are applicable to this agreement and required by law to be so incorporated.

HOLD HARMLESS

The bidder agrees to indemnify, defend and hold the County, its elected officials, agents, officers, and employees, harmless and defend all damages, losses and expenses included, and to defend all claims, proceedings, lawsuits and judgments arising out of or relating from the fault of the bidder, the bidder's agents, representatives or subcontractors in the performance or failure to perform in accordance with instructions to bidders. However, the bidder shall not be required to indemnify any indemnitee to the extent the damage, loss or expense is caused by the indemnitee's negligence.

The bidder shall not permit any lien or claim to be filed or prosecuted against the County in connection with this contract and agrees to assume responsibility should lien or claim be filed.

BID SECURITY

No bid security is required for this solicitation.

EVALUATION AND ACCEPTANCE OF BID (AWARD)

It is the intent of the County to award a contract to the best qualified bidder, provided the bid has been submitted in accordance with the requirements of the bidding documents, is judged to be reasonable, and does not exceed the funds available. Each proposal will be evaluated on a points-based system. A selection committee or designated staff member will review proposals focusing on the criteria described

below. The responses from the bidders will be used to calculate individual weighted scores. The maximum number of points possible for each proposal is 50, calculated as follows:

- Up to 15 points: How closely the proposal matches the specifications described in Attachment 2.
- Up to 15 points: Reasonableness of the proposed total price.
- Up to 10 points: How soon the truck and dump bed can be delivered.
- Up to 10 points: Clarity of Bidders Submittal form.

The County reserves the right to utilize additional factors in compiling a tie breaker, which may include but not be limited to a bidder's sales history, indications of good faith, depth and breadth of priced options, et cetera. The County further reserves the right to exercise its judgment and determine the relative value of each bidder's proposal, including each individual entry thereon, and to award points based upon that determination.

The County reserves the right to reject a proposal for non-compliance with the requirements for this request for proposals.

Any protest of award must be filed with the County within two (2) calendar days of the bid opening. Before commencing work, the successful bidder shall be required to execute a Goods & Services Contract, using substantially the form attached hereto as **Exhibit A**, and incorporated herein by reference.

NOTICE OF INTENT TO AWARD

A notice of intent to award will be posted on the Crook County website at <https://co.crook.or.us/Crook-County/County-Administration/Bid-Information> ("Public Notices/Bid Information").

EXHIBIT LIST

- A. Goods & Services Contract with Attachments
 - Attachment 1: Bidder's Submittal
 - Attachment 2: Specifications and Details

9. **TAX DUTIES AND LIABILITIES:** Neither federal, nor state, nor local income tax or payroll tax of any kind will be withheld or paid by **COUNTY**. **CONTRACTOR** is responsible to pay, according to law, **CONTRACTOR**'s income tax and self-employment tax, if applicable.
10. **CONFIDENTIALITY:** During the course of supplying of goods under this Agreement, **CONTRACTOR** may receive information regarding organizations and **COUNTY**'s business practices, employees, clients, etc. **CONTRACTOR** agrees to maintain the confidentiality of such information and to safeguard such information against loss, theft or other inadvertent disclosure.
11. **AUTHORIZED SIGNATURES REQUIRED:** Only those persons authorized by the Crook County Purchasing Rules and Procedures may enter into a binding agreement or contract, including a purchase order, for the purchase or sale of goods or services on the part of the County. All persons doing business with the **COUNTY** shall be responsible for being familiar with the Crook County Purchasing Rules and Procedures and for ensuring that the person purporting to act for the **COUNTY** has been duly authorized.
12. **PAYMENT BY COUNTY:** **COUNTY** will pay invoices on the 10th or 25th days of the month based upon date the invoice is received.
13. **INDEMNIFICATION:** **CONTRACTOR** shall defend, indemnify and hold harmless **COUNTY**, its agents, servants and employees, respectively, against all claims, demands and judgments (including attorney fees) made or recovered against them for damages to real or personal property or for bodily injury or death to any person, arising out of, or in connection with this Agreement, to the extent such damage, injury or death, is caused by the negligence or intentional wrongful act of **CONTRACTOR**, its employees, servants or agents.
14. **COMPLIANCE WITH THE LAWS:** **CONTRACTOR** agrees to comply with the provisions of this Agreement, Title VI of the Civil Rights Act of 1964, and with all applicable federal, state, county, and local statutes and rules.
15. **PROTECTION OF PERSONAL INFORMATION:** If **CONTRACTOR** obtains any personal information as defined in ORS 646A.602(11) related to this Agreement or concerning any County employee, **CONTRACTOR** agrees to provide appropriate safeguards to protect the security of this information. **CONTRACTOR** shall have provided appropriate safeguards by meeting or exceeding the requirements stated in ORS 646A.622.
16. **CONDITIONS CONCERNING PAYMENT, CONTRIBUTIONS, LIENS, WITHHOLDING:** Pursuant to ORS 279B.220, **CONTRACTOR** shall:
 - (a) Make payment promptly, as due, to all persons supplying to the **CONTRACTOR** labor or material for the performance of the work provided for in the Agreement;
 - (b) Pay all contributions or amounts due the Industrial Accident Fund from the **CONTRACTOR** or subcontractor incurred in the performance of the Agreement;
 - (c) Not permit any lien or claim to be filed or prosecuted against the state or a county, school district, municipality, municipal corporation, or subdivision thereof, on account of any labor or material furnished; and
 - (d) Pay to the Department of Revenue all sums withheld from employees under ORS 316.167.

17. **CONDITIONS CONCERNING PAYMENT FOR MEDICAL CARE AND PROVIDING WORKERS' COMPENSATION:** Pursuant to ORS 279B.230, **CONTRACTOR** shall:
 - (a) Promptly, as due, make payment to any person, copartnership, association, or corporation furnishing medical, surgical, and hospital care services or other needed care and attention, incident to sickness or injury, to the employees of **CONTRACTOR**, of all sums that **CONTRACTOR** agrees to pay for the services and all monies and sums that **CONTRACTOR** collected or deducted from the wages of employees under any law, contract, or agreement for the purpose of providing or paying for the services; and
 - (b) Comply with ORS 656.017 or if not exempt under ORS 656.126.
18. **ENTIRE AGREEMENT:** This Agreement signed by both parties is the final and entire agreement and supersedes all prior and contemporaneous oral or written communications between the parties, their agents, and representatives.
19. **AMENDMENTS:** This Agreement may be supplemented, amended, or revised only in writing signed by both parties.
20. **ASSIGNMENT:** **CONTRACTOR** may not assign this Agreement, in whole or in part, without the prior written consent of **COUNTY**.
21. **SUB-AGREEMENTS:** If this project is funded in whole or in part with grant funds received by **COUNTY**, **CONTRACTOR**, as a sub-recipient of those funds, shall fully comply with all applicable terms, conditions, and requirements of the Grant Agreement, including but not limited to procurement regulations, property and equipment management and records, indemnity, and insurance provisions.
22. **EQUIPMENT, TOOLS, MATERIALS, AND/OR SUPPLIES:** **CONTRACTOR** will provide all equipment, tools, materials or supplies necessary to fulfill **CONTRACTOR**'s obligations under the terms of this agreement.
23. **TERMINATION:**
 - (a) With reasonable cause, either party may terminate this Agreement effective immediately after giving written notice of termination for cause. Reasonable cause shall include material violation of this Agreement or any act exposing the other party to liability to others for personal injury or property damage;
 - (b) Notwithstanding any other provision of this Agreement, **COUNTY** shall not be obligated for the **CONTRACTOR**'s performance hereunder or by any provision of this Agreement during any of **COUNTY**'s future fiscal years unless and until the Crook County Court appropriates funds for this Agreement in **COUNTY**'s budget for such future fiscal year.

In the event that funds are not appropriated for this Agreement, then this Agreement shall terminate as of June 30 of the last fiscal year for which funds were appropriated.

24. **NO AUTHORITY TO BIND CROOK COUNTY:** **CONTRACTOR** has no authority to enter into contracts on behalf of **COUNTY**. This Agreement does not create a partnership between the parties.

25. **HOW NOTICES SHALL BE GIVEN:** Any notice given in connection with this Agreement must be in writing and be delivered either by hand to the party or by certified mail, return receipt requested, to the party at the party's address as stated in this Bidder's Proposal.
26. **GOVERNING LAW AND VENUE:** Any dispute under this Agreement shall be governed by Oregon law with venue being located in Crook County, Oregon.
27. **SEVERABILITY:** If any part of this Agreement shall be held unenforceable, the rest of this Agreement will remain in full force and effect.
28. **ATTORNEY FEES:** In the event an action, lawsuit, or proceeding, including appeal therefrom, is brought for failure to observe any of the terms of this Agreement, each party shall bear its own attorney fees, expenses, costs, and disbursements for said action, lawsuit, proceeding, or appeal.
29. **WAIVER:** The failure of either party at any time or from time to time to enforce any of the terms of this Agreement shall not be construed to be a waiver of such term or of such party's right to thereafter enforce each and every provision of the Agreement.
30. **COUNTERPARTS:** This Goods and Services Contract may be executed in one or more counterparts, including electronically transmitted counterparts, which when taken together shall constitute one in the same instrument. Facsimiles and electronic transmittals of the signed document shall be binding as though they were an original of such signed document.

CONTRACTOR and COUNTY acknowledge that they are in agreement with the terms and conditions set forth in this Goods and Services Contract.

ACCEPTED FOR CONTRACTOR

ACCEPTED FOR CROOK COUNTY

*

[SAMPLE – DO NOT SIGN] _____

Seth Crawford, Judge

Date: _____

(printed name)

Title: _____

Jerry Brummer, Commissioner

Date: _____

Date: _____

Brian Barney, Commissioner

Date: _____

BIDDER’S SUBMITTAL

Instructions: Be certain to sign this Submittal where indicated. This Bidder’s Submittal serves as **Attachment 1** to the Contract. Failure to complete the Submittal will be grounds to determine that the bid is non-compliant and may be rejected.

Review the specifications contained in Attachment 2, and certify that this bid meets those specifications by checking where indicated below. Then, answer the questions that follow by marking the appropriate answer on the Bidder Submittal.

The specifications describe two components: (1) a heavy truck chassis, and (2) a dump bed. The two components must be fully assembled prior to delivery to the County.

Component 1: Truck Chassis

Truck Manufacturer: _____

Truck Model: _____

Truck Year: _____

Please certify by checking that each of the specifications described have been met.

- If the specifications are exactly met, mark the square with an “X” or a “☑.”
- If the specifications can nearly be met, mark the square with an “A” and *clearly* explain the differences on a separate page.
- If the specification cannot be met, leave the square blank.

Application	
Mission	
Dimension	
Engine	
Transmission	
Clutch	
Axle, Front	
Axle, Rear	
Cab	
Gauge cluster	
Tire, front	
Tire, rear	
Suspension	
Paint	
Brake Systems	

Trailer connections	
Air tank drain valve	
Heater	
Slack adjusters	
Air compressor	
Steering column	
Steering wheel	
Steering gear	
Exhaust System	
Electrical System	
Air source	
Power source	
Alternator	
Battery system	
Radio	

Antenna base	
Auxiliary harness	
Horn	
Battery box	
Jump Start stud	
Headlights	
Starting motor	
Battery disconnect	
Circuit breakers	
Emissions	
Fuel/Water separ.	
Seats	
Mirrors	
Windows	
Windshields	

Price for Component 1: \$ _____

Component 2: Dump Bed

Bed Manufacturer: _____

Model No. (if applicable): _____

Please certify by checking that each of the specifications described have been met:

- If the specifications are exactly met, mark the square with an “X” or a “☑.”
- If the specifications can nearly be met, mark the square with an “A” and *clearly* describe the differences on a separate page.
- If the specification cannot be met, leave the square blank.

Dump body floor and under structure	
Body sidewalls corner posts and dash panel	
Tailgate	
Tailgate trip and latch	
Cab guard	
Hoist cylinder and mounting	
Truck chassis hitch	
Plow bumper	
Plow light package	
Air System Installation	
Body Lights & Reflectors	
Safety Prop, Flaps, & Misc	
Electrical	
Hydraulics	
Welding	
Paint	
Manuals	

Price for Component 2: \$ _____

TOTAL PRICE: \$ _____

Date of Delivery: _____

(fully assembled components)

SPECIFICATIONS AND DETAILS
Purchase of Heavy Truck Chassis and Dump Bed
Crook County, Oregon

Attachment 2

Contractor's offer consists of two components: (1) a heavy truck chassis; and (2) a dump bed. The specifications for each component are described separately below. Both items to be delivered FOB 1306 N. Main Street, Prineville, OR 97754.

Note: Any brand names mentioned herein are meant as examples of the standard of quality, performance, functionality and other characteristics of the product needed; Contractor may submit a proposal using a product that is equal or superior to the product specified.

Component 1: Heavy Truck Chassis:

- Application: Front plow with spreader.
- GVWR: 58,000. Calc. 64,740.
- Dimensions:
 - Wheelbase 219.00
 - CA 129.00
 - Axle to Frame: 63.00
- Engine x15 Cummins 15 liter
 - Diesel fuel.
 - 100-gallon fuel tank.
 - Horsepower: 450 at 1,800 RPM
 - 1,750-lb-ft Torque at 1,000 RPM
 - 461 or better peak Horsepower
- Transmission:
 - 18-speed Manual.
 - Double-overdrive.
 - Double-Lo.
 - Air shift.
 - Internal lube oil pump.
- Clutch:
 - Self-adjusting, two-plate, cast angle spring.
 - Ceramic, 15.5" Diameter, 7-Spring coaxial VCT Plus PD Damper (Soft Rate) Mechanical Pull-Type Control, 4-Button Disc, 1,750 lb-ft Torque Capacity.
- Axle, Front:
 - Non-Driving.
 - Wide Track, I-Beam Type, 20,000-lb. capacity.
- Axle, Rear, Tandem:
 - Single Reduction, Standard Width, 46,000-lb. capacity, with lube oil pump.
 - Driver controlled locking differential in Forward-Rear and Rear-Rear Axle.
 - 200 Wheel Ends Gear Ratio: 4.56.
- Cab: Conventional, Day Cab.
 - Clearance/marker lights (5) LED roof mounted.
 - Coat hook.
 - Console, center: includes two cup holders with ash cup and one additional storage area.
 - Glass, all windows intent.
 - Grab handle, cab interior (2) one each side.
 - Grab handle, exterior (2) mounted behind driver and passenger doors.
 - Speakers in cab (4) two located in B-Pillar, two located overhead on driver and passenger sides.
 - Step (4) two steps per door.

- Console, overhead: three storage pockets, one with Velcro strap for CB radio mounting, two with netting.
- Dome light, cab (2) rectangular, door activated; above door mounted, one each side.
- Floor covering rubber, black.
- Sun visor (2) with toll ticket strap.
- Cab doors: power locks.
- Gauge cluster: English with English electronic speedometer.
 - Gauge, oil temp, rear axle.
 - Gauge, air application.
 - Gauge, air cleaner restriction, mounted in instrument panel.
- Tire, Front:
 - (2) 425/65R22.5 Load Range J XZY-3 (Michelin), 491 rev/mile, 65 MPH, All-Position.
- Tire, Rear:
 - (8) 11R22.5 Load Range H XDN2 (Michelin), 497 rev/mile, 75 MPH, drive.
- Suspension, Rear, Tandem:
 - Walking Beam, 46,000-lb. Capacity, 54" Axle Spacing, Multileaf Springs, with Bronze Center Bushings.
- Paint Color: Green.
- Brake System: Air Dual System for straight truck applications, including:
 - (2) Air pressure gauges, located in instrument cluster.
 - Parking brake control, located on instrument panel.
 - Parking break valve for truck.
 - Quick release valve on rear axles for spring break release: 1 for 4x2, 2 for 6x4.
 - Slack adjusters, front automatic (with Air Cam brakes).
 - Slack adjusters, rear automatic (with Air Cam brakes).
 - Spring brake modulator valve SR-7 with relay valve for 6x4/8x6.
 - Front brakes, Air Cam 16.5" x 6", includes 24 SqIn long stroke brake chambers.
 - Brake chambers, rear axle: 30/30 spring brake.
 - Brake chambers, front axle: 24 sq in.
 - Air brake ABS: full vehicle wheel control system (4-Channel) with Automatic Traction Control.
 - Spring adjusted parking brake.
 - Brake chambers must meet asphalt spreader/paver clearance requirements.
- Trailer Connections:
 - Four-wheel, with hand control valve and tractor protection valve, for straight truck.
 - Socket: 7-way, mounted at rear of frame.
- Drain valve for air tank: pull chain.
- Air dryer with heater.
 - Heater, enhanced circulation control, for extreme cold weather climates.
- Slack adjusters: automatic for both front and rear.
- Air compressor: 18.7 CFM.
- Steering column: Tilting and telescoping.
- Steering wheel: 18 inch diameter, 4-spoke.
- Steering gear: dual power.
- Exhaust system: single, horizontal after-treatment device, frame mounted right side under cab, for single vertical tail pipe, cab-mounted right side. Exhaust height: 10 inches.
- Electrical system: 12-volt. To include:
 - Hazard switch.
 - Headlight dimmer switch.
 - Parking light.
 - Start switch electric, key operated.
 - Stop, turn, tail, and back-up lights: dual, rear, combination with reflector.
 - Turn signal switch: manual canceling with lane change feature.
 - Turn signals, front: Includes integral reflectors and side marker lights; fender mounted.
 - Windshield wiper switch 2-speed with wash and intermittent feature.
 - Chassis wiring: color coded and continuously numbered.
- Air horns (2): single bell, with snow shields.
- Power source: cigar type receptacle without plug and cord.

- Terminal type 2-post.
- Alternator: Brush type; 12 volt 160 Amp capacity, pad mount.
- Battery system: maintenance free, (3) 12-volt 1980CCA total, top threaded stud.
- Radio:
 - AM/FM/WB.
 - Clock.
 - Bluetooth/USB Input.
 - 3MM Auxiliary input.
 - MP3.
 - With multiple speakers.
- Antenna Base (2) single unction, (1) for CB and (1) for entertainment radio, without splitter, separate lead-ins, with CB antenna mounted on left mirror and AM/FM antenna mounted on right mirror.
- Auxiliary harness: 5.0' for auxiliary front head lights and turn signals for front plow applications.
- Horn: electric disc style.
- Battery box: aluminum, with plastic cover, 18" wide, 2-4 battery capacity, mounted right side back of cab.
- Jump start stud: remote mounted.
- Headlights:
 - Running light (2) daytime.
 - Headlights on with wipers: headlights will automatically turn on if windshield wipers are turned on.
 - Headlights: halogen, composite combination.
- Starting motor: 12-volt, gear reduced, with thermal over-crank protection.
- Battery disconnect switch: for cab power disconnect switch, lever operated, does not disconnect charging circuits, cab mounted.
- Circuit breakers: manual-reset (main panel) SAE type III with trip indicators, replaces all fuses.
- Toggle switch, auxiliary (2) with two 20-amp fuses/circuit breakers.
- Block heater, engine: 120V/1500W.
- Emissions: EPA, OBD and GHG certified for Calendar Year 2019.
 - Low NOx Idle Engine, complies with California Clean Air Regulations; includes "Certified Clean Idle" decal located on driver door.
- Fuel/Water separator: 12 VDC electric heater, includes pre-heater, includes water-in-fuel sensor.
- Fuel heater: plumbing for thermal recirculation valve (TRV) mounted to engines; thermostatically controlled.
- Seat, driver: air suspension, hi back, 2 arm rests, insulator, 7" adjuster, 3 chamber lumbar, 6 way front cushion adjust, 3 position rear cushion. 2-15 degree back angle adjust, adj side bolster, bellows, heat.
- Seat, passenger: non suspension, high back, 1 arm rest, 11 degree back angle adjust, map pocket.
- Mirror, convex, look down, right side, 6" x 10 ¼".
- Mirror, convex, hood mounted, right side, 7.48" x 6.77" convex glass, black.
- Mirrors (2) power adjust, thermostatically controlled heated heads, LED clearance lights, black heads, buckets and arms, 7.55" x 14.1" flat glass, 7.48" x 6.77" convex glass, Both Sides
- Window, rear 52.25" wide.
- Window, power (2) in left and right doors.
- Windshield, single piece.
 - Windshield wipers: snow type blades.

Component 2: Dump Bed:

- Dump body floor and under-structure:
 - The dump body floor shall be formed from one piece of 3/16-inch AR400 floor with 4-inch radius corners.
 - Long members shall be 12" x 4" x 0.188" A500 grade B rectangular tube with ½" vulcanized rubber frame buffer pad.
 - Approximate floor height shall be 54" from ground.
 - Rear cross member shall be formed from ¼ inch A572-50 high tensile steel and interlock with rear corner posts.
 - Front cross member shall be 4-inch by 5.4 lb structural channel and full width of dump body.
 - Sideboard pockets shall accept 3" x 5" steel side boards.

- Steel 3” x 5” steel sideboards with a deflector angles shall be provided.
- Floor cross supports between the front and rear cross-members are unacceptable.
- Body sidewalls corner posts and dash panel:
 - Sides shall be double wall design with a 3/4 –inch minimum space between the inner and outer walls.
 - The inner wall shall be one-piece 10 ga A607-10 formed top and bottom rails with two horizontal corrugations.
 - Inner walls will interlock with front and rear corner posts.
 - The outer walls shall be 12 ga A607-50 rolled concave.
 - Five 1/4” inverted keyholes shall be mounted below top rail on both sides of the body.
 - Walk rails shall be constructed of 3/4" rebar and installed on both sides of the dump body .
 - Rear corner posts shall be 3/16-inch A572-50 high tensile steel.
 - Rear corner posts shall interlock with sidewalls and rear cross member.
 - Rear corner posts shall each have two stop tail turn lights.
 - Rear post shall have spreader apron tabs.
 - Front corner posts shall be 10 ga A607-50 high tensile steel with side marker lights.
 - Front corner posts shall interlock with sidewalls and dash panel.
 - Dash panel shall be 3/16 A572-50 high tensile steel with a formed top channel.
 - The dash panel shall have four reinforcement angles equally spaced across its width.
 - The body shall have a dog house type hoist shell.
 - Inside body steps shall be installed on both sides of the dump body.
- The tailgate shall be double wall design
 - The tailgate shall be double wall design.
 - The inner panel shall be 3/16-inch AR400.
 - The tailgate shall be framed with 4"x 4"x.120" A500 grade B tubing.
 - The tailgate shall have an angle welded on the top tube to prevent material build up.
 - The tailgate shall have one center lift eye.
 - The outer panel of the tailgate shall be double a concave.
 - The outer panel shall be fabricated from 12 ga A607-50 high tensile steel.
 - The latch pins shall be 1-inch cold drawn AISI 1018 minimum.
 - The tailgate shall have two double key plates and 3/8-inch proof coil spreader chains with storage hooks.
 - The hinges arms shall be plasma cut 1-inch A514 (T1) steel plate.
 - The hinge blocks shall be plasma cut 1/2-inch A514 (T1) steel plate.
 - The hinge pins shall be 1-inch round cold drawn AISI 1018.
 - The hinge arms shall rest on top of the hinge blocks when the tailgate is latched.
- Tailgate trip and latch
 - The latch hooks shall be plasma cut 1/2-inch A572-50 high tensile steel.
 - The tailgate trip rod shall be 1-inch cold drawn AISI 1018.
 - The trip rod will be supported by four 3/4-inch grease type bearing blocks.
 - The trip rod bearing blocks shall not be attached to the dump body floor and have 1-1/4-inch minimum clearance.
 - The trip rod shall have an over center lock with adjustable linkage assemblies for both latch hooks.
 - The air trip cylinder shall be MGM model R4 number 5004013 (air open spring close)
- Cab guard
 - The cab guard shall be fabricated from 10 ga A607-50 high tensile steel with 3116-inch A572-50 high tensile steel support arms.
 - The cab guard will provide approximately 20-inches of cab coverage no wider than the truck cab.
 - The cab guard shall be designed to accept a tarp assembly install without modification
 - Beacon wiring to center of cab guard (beacon not included).

- Hoist cylinder and mounting
 - The hoist cylinder shall be a twin under body hoist cylinders model
 - Hoist cylinder lift capacity combined shall be a minimum lift of 75,000 LB'S @ 2000 PSI on the first stage.
 - The hoist under body mount
 - The lower pin shall be 3-inch AISI 1018.
 - The upper hoists mounting pin shall be 1-1/4-inch AISI 4140 turned, ground, and polished.
- Truck chassis hitch
 - The hitch package shall match the Crook County current hitch design.
 - The trapezoidal hitch plates shall be formed 1/2-inch A572-50 minimum.
 - The bulkhead plate shall be 3/4-inch A572-50.
 - The air pintle hitch shall be Premier model 580.
 - Two safety D-rings shall be 1-inch and mounted near hitch.
 - Glad-hands and electrical connections shall be routed to hitch area and recessed to prevent damage.
 - The body hinges shall be greaseless design.
 - The hinge pins shall be 1-7/8-inch (CAT D7E).
 - The hinge bushing shall be wrapped to with 1/4" x 3" flat bar and welded 100% to base.
 - The hinge bearing blocks shall be 1-inch A572-50 high tensile steel.
 - One license plate light, stop/ tail/ tum lights, and one back up light shall be installed in the hitch area.
- Plow bumper
 - Plow bumper shall be built and installed as per ODOT 2002 specifications drawing number SB-120H.
 - A removable expanded metal pump cover shall be install and able to support 300 lbs.
 - Plow hoist hydraulic coupler shall be plumbed and have a cover.
 - Crook County shall approve coupler location.
- Plow light package
 - Plow lights shall be Truck-Lite number 80880 or county approved equal.
 - Plow lights shall be mounted on brackets above headlights at approximately 72" from the ground.
 - A toggle switch shall be installed to select headlights or plow lights.
 - The high low function shall be selected by the standard truck dimmer system.
- Air system installation
 - All air hoses shall be DOT approved.
 - The bend radius of airlines shall be not less than the manufacturer's recommended minimum.
 - Air lines shall not come in contact with moving parts.
 - Air lines shall not be routed through holes or across sharp edges without protection from being chafed or cut.
 - Air lines shall be adequately clamped or tied to supporting structures.
 - Air lines routing shall be so that low points are minimized.
 - Hoses shall be of sufficient length to prevent stretching, distortion, or disconnecting.
 - The tailgate circuit shall have a straight air trip switch, Humphrey #125V31020 or Mac valve
 - Glad-hand shall be installed for trailer brakes.
- Body lights and reflectors
 - Truck-Lite 60 series sealed beam stop) tail, and turn recessed legal lights.
 - Truck-Lite super 10 series marker lights.
 - Truck-Lite 50 series sealed wire harness system.
 - Grote steel backed reflectors shall be install at the rear and sides of the dump body.
- Safety prop, flaps, and miscellaneous
 - Body Safety Prop shall be mounted on the left side of chassis.

- Mud flaps shall be black and mounted ahead and behind drive tires.
- One inverted shovel holder shall be installed.
- All frame attachments shall be made with grade eight flange bolts and nuts minimum
- Pull Tarp system S9-A2
- Electrical
 - Isolate all electrical circuits installed by body builder from truck chassis with a continual duty solenoid and six-section fuse block
 - Truck-Lite 50 series sealed wire harness lighting system
 - Back up alarm to be 102-db
 - Wiring shall be stranded copper with cross-linked polyethylene insulation
 - Aluminum wire is not acceptable
 - Wire shall be sized so that the voltage drop for the wire run is less than 5 percent.
 - Wiring for lighting on the truck bed shall be no smaller than 14 gauge
 - Wiring shall be routed to minimize exposure to tire throw-off
 - Wires shall not be routed closer than 6 inches from heat sources
 - Wires shall not come in contact with moving parts
 - Wires shall be protected from sharp edges
 - Self-stripping wiring connectors (scotch locks) shall not be used
 - Lighting and reflectors shall comply with FMVSS 108
 - 7-way trailer connector to be wired as per SAE J560B
 - Beacon wiring to center of cab guard (beacon not included)
- Hydraulics
 - The hydraulic system shall operate the; body hoist, plow hoist, plow angle, sander spinner, and sander auger
 - The PTO shall be front mount crank driven
 - The hydraulic pump shall be Parker P50A342BEAL20-11 with 0-Ring ports
 - The driveline shall be a Spicer 1310 series turned and balanced to 3,000 rpm
 - The hydraulic control valve shall be a stackable Parker model DVA35-AA880-SB8-SB8 SV8- TR99 with 0-Ring ports
 - The valve section that controls the truck hoist shall have an adjustable stop rod to prevent hoist overrun
 - The electric SSC3100 force America sander control shall be mounted on the dash panel in cab
 - The cab controls shall be Felsted hoist lever cable operated & duel axis Del Joystick for plow
 - The sander control shall have an on/off toggle switch
 - The hydraulic tank shall be steel 35-gallon back of cab over frame mounted
 - The hydraulic oil shall an AW-32 rating
 - The hydraulic system shall include a return line filter (25 micron) rate @ 75 gpm
 - The hydraulic system will operate@ 2,350 PSI
 - The hydraulic pressure hoses shall be rated@ 2,350 PSI minimum
 - Hydraulic pressure fittings shall be JIC 37 degree and 0-ring boss
 - The suction line shall be 1 1/2-inch with a full flow ball valve shut off
 - The body hoist and the sander return hoses shall be # 16
 - The plow hoist and spinner hoses shall be # 8
 - The auger hose shall be# 12
 - Quick couplers with covers shall be provided for plow and sander operation
- Welding
 - Excessive distortion of assembled parts in not acceptable
 - The dump body and other fabricated components shall have good welds. A good weld will have proper penetration and be relatively uniform in appearance
 - All welds shall conform to or exceed American Welding Society Standards and shall provide a metal to metal bond, with adequate penetration using proper flux and or welding materials

- Down hand welds are not recommended for ten gauges or thicker material, If down hand welds are used they shall have proper penetration
- Some characteristics of an unacceptable weld are the following: cracks, undercut, overlap, excessive splatter, slag entrapment, inadequate penetration, excessive distortion, blowholes, and inclusions, excessive porosity, concave or convex
- Paint
 - All metal surfaces shall be free of contaminates that may cause loss of adhesion (Grease, oil, etc.)
 - The first primer undercoat shall be a metal-etching primer (DuPont Met-o-loc)
 - The second primer undercoat shall be epoxy base, lead and chromate free
 - The second primer undercoat shall have a film thickness of three to five mils or greater when dry using DuPont (#934) low VOC high solids epoxy primer
 - Topcoat shall be DuPont Axalta lead free paint, low VOC, high solids acrylic urethane
 - Topcoat shall have a film thickness of three to five mils
 - The body topcoat shall match the truck cab
 - Frame components shall be black
 - Substrates must be between 50 and 110 degrees in a controlled environment during the primer and paint application
 - Compressed air supply must not exceed 20% humidity during the spray process
- Manuals
 - Body builder/installer shall supply one owner's manual with each dump body
 - The manual shall include information about the safe operation of the dump body
 - The manual shall also include parts information and electrical and hydraulic schematics of the equipment installed on the chassis