

City of Columbus RFQ032977
Department of Public Service/Division of Infrastructure Management
Tandem Axle Hook Lift Truck
BIDDER GUIDE

The following information is provided by the City of Columbus to assist you in navigating the formal bid procedures. This information is not to supersede or replace any of the actual bid specifications or requirements; its sole purpose is to provide information on the process. If you have any questions regarding the process, please contact the appropriate City of Columbus representative listed on the bid solicitation (for specification questions see instructions below).

Any addenda issued by the City of Columbus will be posted on this site. The City of Columbus will send notification of addenda to Bidders that have an active login id and password with Columbus Vendor Services and are registered for the commodity code(s) associated with this solicitation.

Though the notification methods above will be utilized to notify bidders of addenda it is ultimately the Bidder's responsibility to check this site for verification of any issued addenda.

IN ORDER FOR YOUR BID TO BE CONSIDERED:

X **Pricing** is to be entered into the corresponding lines in the body of the RFQ

AND

The following documents must be completed and attached to your response. *Complete this checklist to confirm the items required in your bid. Failure to submit the listed documents may be cause for rejection of your bid:*

_____ Completed Product Bid details (pages 7 - 27)

_____ Reference Pages

_____ Subcontractor Information

_____ Experience Documentation

_____ Literature

_____ Warranty

Please refer to the Vendor Services User Guide for guidance using the Attachment feature to attach references, literature, warranty information and any other documentation as needed. **ALL ATTACHMENTS MUST BE IN PDF FORMAT TO ATTACH.**

PLEASE NOTE – Per ORC Chapter 1703, to be awarded this bid you must show proof your company is registered and in good standing to do business in the State of Ohio through the Secretary of State, or provide a certified statement that your company falls within one of the exemptions in the Ohio Revised Code Chapter 1703.02. To register or check the status of your company go to <https://www.ohiosos.gov/businesses/>

EQUAL OPPORTUNITY CLAUSE

The Contractor will not unlawfully discriminate against any employee or applicant for employment because of race, sex, sexual orientation, gender identity or expression, color, religion, ancestry, national origin, age, disability, familial status or military status. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, sex, sexual orientation, gender identity or expression, color, religion, ancestry, national origin, age, disability, familial status or military status. Such action shall include, but not be limited to, the following: employment up-grading, demotion, or termination; rates of pay or other forms of compensation; and selection for training. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices summarizing the provisions of this Equal Opportunity Clause.

The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that the Contractor is an equal opportunity employer.

It is the policy of the City of Columbus that program members as defined in section 3901.01 of the Columbus City Codes shall have the maximum practicable opportunity to participate in the performance of contracts awarded by the City.

The Contractor shall permit access to any relevant and pertinent reports and documents by the Office of Diversity and Inclusion Director for the sole purpose of verifying compliance with Title 39 of the Columbus City Codes, and with the Office of Diversity and Inclusion regulations. All such materials provided to the Office of Diversity and Inclusion Director by the Contractor shall be considered confidential.

The Contractor will not obstruct or hinder the Office of Diversity and Inclusion Director or his/her deputies, staff and assistants in the fulfillment of the duties and responsibilities imposed by Title 39 of the Columbus City Codes.

The Contractor and each subcontractor will include a summary of this Equal Opportunity Clause in every subcontract. The Contractor will take such action with respect to any subcontractor as is necessary as a means of enforcing the provisions of the Equal Opportunity Clause.

The Contractor agrees to refrain from subcontracting any part of this Contract or contract modification thereto to a contractor not holding a valid certification number as provided for in Title 39 of the Columbus City Codes.

Failure or refusal of a Contractor or subcontractor to comply with the provisions of Title 39 of the Columbus City Codes may result in cancellation of this contract.

INFORMATION FOR BIDDERS

SPECIAL CONDITIONS

Special conditions included in the specifications, if inconsistent with provisions included in "Information for Bidders", shall take precedence over any provisions in "Information for Bidders" to the extent inconsistent.

SUBMISSION OF PROPOSAL

Responses must be entered and submitted electronically in the body of the RFQ. Some RFQs require pricing lists or additional documents to be attached to the RFQ response electronically. In rare instances documents require submission via regular mail delivery. Refer to the "Proposal Information" section of the specifications for instructions for submission. Any unauthorized conditions, limitations or provisions attached to the proposal may render the bid nonresponsive and result in its rejection.

ACCEPTANCE AND REJECTION

This proposal submitted by the bidder to the City of Columbus will be accepted or rejected within a period of 180 days from bid opening date. The City reserves the right to waive technicalities, and to request a rebid on the required material. If more than one item, prices shall be quoted on the units requested. However, each item shall be considered a separate bid and the City reserves the right to award a contract on each item separately or on all items as a whole or any combination thereof. Bidders whose proposal is made on an "All or None" basis must clearly state such fact in the proposals.

Each RFQ issued by the City shall state that the RFQ may be cancelled and that any RFQ response may be rejected in whole or in part when it is for good cause and in the best interests of the City.

WITHDRAWAL OF PROPOSALS

Bidders may withdraw their RFQ response at any time prior to the time specified in the advertisement as the closing time for the receipt of bids. However, no bidder shall withdraw or cancel his response for a period of 180 calendar days after said advertised closing time for the receipt of proposals.

DEFAULT PROVISION

In case of default by the bidder or the contractor, the City of Columbus may terminate and may procure the articles or services from other sources and hold the bidder or contractor responsible for any excess costs occasioned or incurred thereby.

SIGNATURE REQUIRED

By submitting this response electronically, bidder/proposer is affixing an electronic signature as defined by the Ohio Uniform Transactions Act. Said signature represents that he/she has the authority to bind the entity to the terms and conditions contained herein.

APPLICABLE LAWS

The Revised Code of the State of Ohio, the Charter of the City of Columbus, and all City ordinances insofar as they apply to the laws of competitive bidding, contracts, and purchases, and wage theft prevention, are made a part hereof.

PRICING

Bidders are to quote firm or fixed prices for the duration of any contract which may be a result of this proposal unless otherwise noted in the specifications. In case of discrepancy in computing the amount of the bid, the **UNIT PRICE** quoted will govern.

Quotations are requested F.O.B. destination. If quoted F.O.B. Shipping Point include freight estimate and full value insurance cost.

CONTRACT AND BOND

The bidder to whom an award is made will be required to execute a written contract with the City of Columbus, Ohio within ten days after receiving such contract for execution, and if specified in the legal notice, furnish a good and approved bond conditioned upon the faithful performance of the same. The proposal, contract, proposal bond, (if applicable), and performance bond (if applicable) shall be in the form herein specified.

If, at any time during the continuance of the Contract, any surety shall, in the opinion of the Finance & Management Director, become irresponsible, then said Director shall have the right to require additional and sufficient surety or sureties. The Contractor shall furnish the surety

or sureties to the satisfaction of the said Director, within ten (10) days after notice. In default thereof the default provision herein shall apply.

LIABILITY, INSURANCE, LICENSES AND PERMITS

Where bidders are required to enter or go onto City of Columbus property to deliver materials or perform work or services as a result of bid award, the bidder will assume full duty, obligation and expense of obtaining all necessary licenses, permits, and insurance when required. The bidder shall be liable for any damages or loss to the City occasioned by negligence of the bidder (or his agent) or any person the bidder has designated in the completion of his contract as a result of his bid.

Particular attention is directed to the statutory requirements of the State of Ohio relative to the licensing of corporation organized under the Laws of any other State.

TAXES

Federal and/or State Taxes are not to be included in prices quoted. The successful bidder will be furnished an exemption certificate if needed.

SAMPLES

Samples, when requested, must be furnished free of expense to the City and if not destroyed, will upon request be returned at the bidder's expense.

DELIVERY

Time will be of the essence for any orders placed as a result of this bid. Purchaser reserves the right to cancel such orders or any part thereof, without obligations if delivery is not made within the time(s) specified. Delivery shall be made during normal working hours and to the destination shown on the proposal.

QUALITY

Unless otherwise stated by the bidder, the RFQ response will be considered as being in strict accordance with the specifications outlined in the Bid Document.

References to a particular trade, manufacturer's catalog or model number are made for descriptive purposes to guide the bidder in interpreting the requirements of the City. They should not be construed as excluding proposals on other types of materials, equipment and supplies. However, the bidder, if awarded the contract, will be required to furnish the particular item referred to in the specifications or description unless a departure or substitution is clearly noted and described in the proposal.

CHANGES AND ADDENDA TO BID DOCUMENTS

Each change or addenda issued in relation to this bid document will be published on the City's Vendor Services website no less than five (5) working days prior to the scheduled bid opening date. In addition, to the extent possible, notice will be e-mailed to each person registered as having interest in the commodities selected for this bid. Total bid inquiry or specific item cancellations may be issued later than that time specified above.

WITHHOLDING OF INCOME TAX

All bidders are advised that in order for a contract to bind the City, each contract must contain the provisions found in Chapter 362 C.C.C. with regard to income taxes due or payable to the City of Columbus for wages, salaries and commissions paid to the contractor's employees as well as requiring those contractors to ensure that subcontractors withhold in a like manner.

CAMPAIGN CONTRIBUTIONS

Contractor hereby certifies the following: that it is familiar with Ohio Revised Code ("O.R.C.") Section 3517.13; that all applicable parties listed in Subsection (I) or (J) of O.R.C. Section 3517.13 are in full compliance with Subsection (I) and (J) of that Section; that it is eligible for this contract under the law and will remain in compliance with O.R.C. Section 3517.13 for the duration of this contract and for one year thereafter.

PUBLIC RECORDS REQUESTS

The City of Columbus, as a political subdivision of the State of Ohio, is subject to Ohio Revised Code Chapter 149, known as the Ohio Public Records Law. Consequently, the Offeror understands that ALL documents submitted in response to this solicitation are considered public records and WILL be released when a public records request is

INFORMATION FOR BIDDERS

made by news media, competitors, or other interested parties, in accordance with the law. If you contend that certain CLEARLY MARKED portions of your response constitute an exception to Ohio's public records law, you MUST submit your legal basis in support of that assertion with your response.

If a public records request is made for any portion of the documents that you have submitted and you have NOT clearly marked such documents as information constituting an exception to Ohio's public records law, your information will be released immediately.

If a public records request is made for such information and you HAVE clearly marked portions of your response as information constituting an exception to Ohio's public records law, AND you have submitted the legal basis supporting such claim, the City will release a redacted version of your information to the requestor and notify you that a request was made and that a redacted version of your response was released. Should the requestor indicate that the redacted version is not sufficient for their purposes, you then will be IMMEDIATELY responsible for obtaining an order from a Court of competent jurisdiction in Franklin County, Ohio enjoining release of your clearly marked information constituting an exception to Ohio's public records law.

If a public records request is made for such information and you HAVE clearly marked portions of your response as information constituting an exception to Ohio's public records law, but you have NOT submitted the legal basis supporting such claim, the City WILL RELEASE your information to the requestor and notify you that a request was made and that your response was released.

DO NOT mark your entire response/submittal as information constituting an exception to Ohio's public records law. If your entire response/submittal is so marked, the City of Columbus will not consider your offer.

INFORMATION FOR BIDDERS (Continued)

IN THE EVENT OF A CONTRACT

1. Where applicable according to the specifications successful seller shall transfer and deliver to City goods which conform to the specifications.
2. The City shall accept from seller goods that conform to the specifications, and shall pay for the goods in accordance with the terms of an agreement, which may result from this proposal.
3. The risk of loss from any causality to the goods regardless of the cause of the casualty shall be on seller until the goods have been delivered at the address designated in the order and are approved after inspection by the City.
4. Seller warrants and represents that seller has absolute and good title to and full right to dispose of the goods, and that there are no liens, claims, or encumbrances of any kind against the goods, and at the time of delivery shall be free from any security interests or other lien or encumbrance.
5. If there is a breach by seller of the warranty against encumbrances granted by seller in an agreement, which may result from this proposal, the City shall have the option to cancel an agreement, which may result from this proposal.
6. Seller shall defend any action brought against the City so far as the action is based on a claim that the goods, or any part of the goods, furnished under an agreement which may result from this proposal constitutes an infringement of any patent of the United States or a trademark. Seller shall be notified promptly in writing of the action and be given authority, information, and assistance, at the expense of seller, for the defense of the action. Seller shall pay all damages and costs awarded in the action. In case the goods or a part thereof are held to constitute infringement and the use of the goods or part thereof is enjoined, seller shall, at the expense of the seller, either procure for the City the rights to continue using the goods, replace the goods or a part hereof with non-infringing goods of equal or better quality, modify the goods so that the goods become non-infringing while continuing to meet or exceed the original specifications, or retake the goods and refund the purchase prices and the transportation and installation costs of the goods at the option of the City.
7. Seller warrants that (1) the goods to be supplied pursuant to an agreement which result from this proposal are fit and sufficient for the purpose intended, (2) the goods are merchantable, of a good quality, and free from defects, whether patent or latent, in material or workmanship and (3) the goods sold to the City pursuant to an agreement which may result from this proposal conform to the specifications. The particular purpose of which the goods are required may be set forth in the specifications.
8. The benefit of any warranty made in an agreement which may result from this proposal by seller shall extend to the City and to the employees of the City, any employee of the City may bring an action directly against seller for damages or injuries sustained by the employee resulting from any breach of warranty by seller.
9. All goods ordered shall be subject to final inspection and approval at the facility of the City designated for delivery. Any goods, which do not conform to the order of the City, may be rejected by the City. The City may hold any goods rejected pending instructions from the seller or the City may return goods to seller at seller's expense.
10. If any tender or delivery by seller is rejected by the City for nonconformity, no notice of intention to cure can be effective unless it is received by the City agency within five (5) days after notice of rejection is sent to seller.
11. The liability of the City for either non-acceptance of conforming goods or repudiation of the agreement which might result from this proposal shall be limited to the difference between the market price at the time and place for tender of the goods and the unpaid sales price together with any incidental damages, but less expenses paid in consequence of the breach by the City.
12. An agreement which may result from this proposal shall not be modified or altered by any subsequent course of performance between parties or by additional terms contained in any subsequent documents unless said additional or differing terms are incorporated by contract modification authorized to be entered into by ordinance.
13. Contractor shall protect, indemnify and save the City harmless from and against any damage, cost, or liability, including reasonable attorneys' fees, resulting from claims for any or all injuries to persons or damage to property arising from intentional,

willful or negligent acts or omissions of Contractor, its officers, employees, agents, or Subcontractors.

14. The City will not indemnify the contractor and is prohibited from doing so.
15. This Contract may not be assigned or otherwise transferred to others by the Contractor without the prior written consent of the City. If this Contract is so assigned, it shall inure to the benefit of and be binding upon any respective successors and assigns (including successive, as well as immediate, successors and assignees) of the Contractor.
16. The signatories to this Contract represent that they have the authority to bind themselves and their respective organizations to this Contract.
17. In the event either party is unable to perform its obligations under the terms of this Agreement because of acts of God, strikes, equipment or transmission failure or damage reasonably beyond its control, epidemics, pandemics, or other causes reasonably beyond its control, such party shall not be liable for damages to the other for any damages resulting from such failure to perform or otherwise from such causes.

LOCAL CREDIT

Pursuant to City of Columbus Ordinance # 2607-2012, in determining the lowest bid for a contract the local bidder credit will not be applied.

WAGE THEFT PREVENTION

Chapter 377 of the Columbus City Codes is hereby incorporated into the contract and seller is required to comply with said chapter. This includes, but is not limited to reporting requirements and the obligation to review the commission list of contractors and subcontractors that received an adverse determination. Penalties for failure to comply with the wage theft prevention code include suspension for three years, up to permanent disbarment.

CERTIFICATE OF TITLE ON EQUIPMENT

If applicable to this purchase, all documents required to obtain a State of Ohio Certificate of Title **must** be delivered to:

**Fleet Management Administrator
City of Columbus/Fleet Management Div.
4211 Groves Road
Columbus, Ohio 43232**

After signature by the Fleet Management Administrator, an original title is to be delivered to the above address within three (3) days. No payment for vehicles requiring a title will be authorized by the Fleet Management Administrator until a valid title is received.

REMEDIES

All claims, counterclaims, disputes and other matters in question between the City, its agents and employees, and the Contractor arising out of or relating to this agreement or its breach will be decided in a court of competent jurisdiction within the County of Franklin, State of Ohio.

OFFERORS TERMS AND CONDITIONS

Terms and conditions, submitted with this proposal, which are contrary to City Code or Charter shall be disregarded for the purpose of any subsequent contract. The successful bidder shall be notified as to which terms and conditions, if any, have been deleted.

PUBLICATIONS

The Contractor agrees to submit to the City's Contract Administrator all advertising, sales promotion, and other publicity matters relating to this Contract wherein the City's name is mentioned or language used from which the connection of the City's name therewith may, in the City's judgment, be inferred or implied. The Contractor further agrees not to publish, or use such advertising, sales promotion, or publicity matter without the prior written consent of the City except that may be required under law.

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1.0 SCOPE AND CLASSIFICATION

- 1.1 **Scope:** It is the intent of the City of Columbus, Division of Infrastructure Management, Department of Public Service, to obtain formal bids to establish a contract for the purchase of one (1) Diesel-powered Tandem Axle Hook Lift Truck with a plow, salter / anti-icer combo body, dump body and flusher attachments to be used for snow and ice removal, material handling and street sweeping operations.
- 1.2 **Classification:** The contract resulting from this bid proposal will provide for the purchase and delivery of one (1) Diesel-powered Tandem Axle Hook Lift Truck. All Offerors must document the manufacture certified reseller partnership. Bidders are required to show experience in providing this type of equipment and warranty service as detailed in these specifications.
- 1.2.1 **Bidder Experience:** The offeror must submit an outline of its experience and work history in these types of equipment and warranty service for the past five years.
- 1.2.2 **Bidder References:** The offeror shall have documented proven successful contracts from at least four customers that the offeror supports that are similar in scope, complexity, and cost to the requirements of this specification.
- 1.3 **Specification Questions:** Questions regarding this bid must be submitted on the Vendor Services portal by 11:00 am Monday, June 15, 2026 . Responses will be posted on the RFQ on Vendor Services no later than Thursday, June 18, 2026, at 11:00 am.
- 1.4 For additional information concerning this bid, including procedures on how to submit a proposal, you must go to the City of Columbus Vendor Services web site at <https://columbusvendorservices.powerappsportals.com/> and view this bid number.

2.0 APPLICABLE PUBLICATIONS AND STANDARDS

- 2.1 Must meet or exceed all City, State, Federal safety guidelines and standards.
- 2.2 All OSHA applicable guidelines and standards.
- 2.3 References to a particular trade or manufacturer's model number are made for descriptive purposes to guide the bidder in interpreting the requirements of the City. They should not be construed as excluding proposals on other types of materials, equipment and supplies.

3.0 REQUIREMENTS

3.1 General Information:

- 3.1.1 **Term:** The contract awarded as a result of this proposal is for a one-time purchase.

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- 3.1.2 **Pricing:** Bidders are to bid firm or fixed prices, FOB Destination, Freight Prepaid and Allowed. All pricing must include delivery and handling, including offloading and placement as noted in the specifications. All pricing must include manufacturer warranty. All manufacturer warranties will be passed on to the City of Columbus.
- 3.1.3 **Quantity:** One (1) Diesel-Powered Tandem Axle Hook Lift Truck.
- 3.1.4 **Quality Standards:** The City intends to purchase new, unused and the most current model. The specifications describe a minimum acceptable requirement which a bidder has to meet. However, the bidder is allowed to exceed a minimum requirement where the excess enhances the function of the unit and which the City can accept. It is not acceptable for a bidder to exceed a maximum desired limit.
- 3.2 **Bidder Requirements:** The City will use the requirements of this section to determine if each bidder meets the minimum standards to be considered a responsible bidder. **Please print, complete and attach** Reference pages and attach any supplemental pages as may be necessary to meet these requirements. **For instructions on how to attach a document to your bid, please refer to the Vendor Services User Guide.**
- 3.2.1 **Experience Required:** Documentation shall include (at a minimum) information meeting the following criteria.
- 3.2.1.1 **Equipment and Warranty Capabilities:** Offerors must document, and submit in a letter attached to the bid, their capability of providing the equipment and warranty service specified herein.
- 3.2.1.2 **Manufacturer Relationship:** The offeror shall provide the history of their relationship with manufacturer(s) that will potentially be providing these types of equipment/parts and warranty service for the past five years, including but not limited to the following:
a) Length of the relationship
b) Level of the relationship
c) A brief history of the relationship
- 3.2.2 **References:** The offeror shall have documented proven successful contracts from at least four customers that the offeror supports that are similar in scope, complexity, and cost to the requirements of this specification.
- 3.2.2.1 **Contact Information Required:** The reference contact information shall include the customer name, customer e-mail address, street address, telephone number, fax number, contact name and equipment purchase date.
- 3.2.2.2 **Equipment / Warranty Service Information:** A description of the equipment/parts provided and type of warranty service that was provided.

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- 3.2.3 **Subcontractor Information Required:** If subcontractor(s) are to be used, please list names, addresses, telephone numbers and a contact person for each subcontractor. All subcontracts must have valid contract compliance certification.
- 3.2.3.1 **Subcontractor Contact:** Should the offeror use subcontractors, the City shall use the offeror as the primary contact point.
- 3.2.4 **Specification Questions:** Questions regarding this bid including any exceptions and/or suggested changes to the requirements must be submitted on the vendor services portal by 11:00 am (local time) on Monday, June 15, 2026. Responses and any necessary addenda will be posted as an amendment to this RFQ on the City's Vendor Services portal no later than 11:00 a.m. (local time) on Thursday, June 18, 2026. The City strongly encourages bidders to submit exceptions and/or changes during this stage of the process. Bidders submitting exceptions and/or changes before this date will greatly reduce the likelihood of their bid being rejected as non- responsive to the specifications. Bidders whom have not registered and created a new user on the City's portal <https://columbusvendorservices.powerappsportals.com/> are strongly encouraged to do so. Notice of any pre-bid notes and addenda will only be sent to Bidders who have registered at the site.
- 3.2.4.1 For further instructions on how to submit "Vendor Questions" through the Vendor Portal, please see Section "Add Vendor Questions" provided in the City of Columbus Vendor Services User Guide.
- 3.2.4.2 The City has instructional videos to assist bidders at the portal. Tutorial videos are available to be viewed through You Tube or by clicking the following link:

https://www.youtube.com/channel/UCTIkkGNM7GHITzoqQVNJIA/videos?shelf_id=0&view=0&sort=dd

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SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3	<p>Specification Information: The equipment shall be a new and unused Diesel-Powered Tandem Axle Hook Lift Truck capable of attaching and detaching different body types such as a dump body, flusher body, combination spreader, etc. to perform various job duties throughout the city. <u>Bidders shall note compliance with the following specifications in the Describe Actual Product Bid column.</u> Indicate make, model, year and description of equipment bid. Bidders shall submit a copy of dealers build sheets with bid.</p>	
3.3.1	Alternates	
	<p>Bids will be considered on units complying with the specifications. All alternates must be detailed in an attached letter to bid and the Manufacturer and Model clearly identified. Explanations must fully state what is to be furnished. All alternates must exceed specifications. The City of Columbus reserves the right to determine whether any proposed alternates are within the specifications.</p>	
3.3.2	Chassis	
3.3.2.1	The unit shall be a Tandem Axle, Conventional Cab truck with a hook lift system.	
3.3.2.2	Chassis shall be suitable for attaching and detaching various truck bodies via a hook lift system.	
3.3.2.3	Overall height of body and chassis shall not exceed 13' 6" above level ground or as required for the arrangement and configuration of equipment bid.	
3.3.3	Wheelbase	
3.3.3.1	Wheelbase and CA shall be determined by the truck and body vendors to ensure the arrangement and configuration of the equipment is correct.	
3.3.4	Engine	
3.3.4.1	Shall be diesel powered with suitable HP for truck and fully loaded hook lift bodies.	
3.3.4.2	Equipment shall include oil filter, fuel filter, air filter with restriction gauge, water filters, and automatic fan control for specific engine as required by the manufacturer.	

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SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3.4.3	Cooling system shall be manufacturer's optional extended or increased capacity, with coolant filter, coolant recovery system, and coolant protection to -20 degrees.	
3.3.4.4	Shall have an exhaust system with vertical muffler and vertical tail pipe with heat shield and grab handle that does not interfere with the hook lift system.	
3.3.4.5	Engine shall be equipped with a warning light and buzzer for high water temperature and low oil pressure and shall include automatic engine shut down to avoid damage.	
3.3.4.6	Shall have a thermostatically controlled 120-volt engine block heater with the engine manufacturer's recommended wattage and a receptacle mounted in front of chassis.	
3.3.5	Transmission	
3.3.5.1	The unit shall be equipped with an Allison 3000RDS with PTO provision or equivalent.	
3.3.5.2	Shall have a dash mounted temperature gauge.	
3.3.5.3	The transmission shall be equipped with an external heavy-duty water/oil cooler.	
3.3.6	Front Axle, Suspension	
3.3.6.1	Shall have a minimum capacity rating of 18,000 pounds.	
3.3.6.2	Shall have 18,000-pound minimum capacity taper leaf front suspension.	
3.3.6.3	Shall have maintenance free rubber bushings.	
3.3.6.4	Shall have heavy duty front shock absorbers.	
3.3.7	Rear Axle, Suspension	
3.3.7.1	Shall have a minimum capacity rating of 40,000 pounds for rear axles.	
3.3.7.2	Suspension shall be a minimum 40,000 lb. capacity with a flat-leaf spring with radius rod and helper.	

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3.3.8	Frame	
3.3.8.1	The frame shall be the manufacturer's optional heavy duty, off highway type, reinforced by the addition of an inner liner or outer liner extending from the front of the front spring hanger to the rear end of the frame.	
3.3.8.2	Shall have a minimum frame rating of 120,000 PSI.	
3.3.8.3	Shall have two (2) tow hooks or tow bars mounted on frame on front and rear of chassis.	
3.3.8.4	The after frame (AF) length shall be suitable for the arrangement and configuration of the equipment.	
3.3.8.5	The chassis shall be equipped with a full-width, HD steel front bumper.	
3.3.9	Brakes	
3.3.9.1	Brakes shall be capable of stopping and holding a fully loaded unit in all types of operating conditions.	
3.3.9.2	Service brakes shall be heavy duty, anti-lock, ABS, drum or disc brakes with dust shields, maximum size available for the type of axle used, with automatic slack adjusters at all four (4) wheel locations.	
3.3.9.3	The system shall include a minimum of 13 cubic foot water cooled air compressor.	
3.3.9.4	Shall have spring type safety brake with mechanical screw type release.	
3.3.9.5	The brake system shall be equipped with a Bendix Westinghouse extended purge Model AD-IS heated air dryer or equivalent.	
3.3.9.6	The primary air tank shall be equipped with DV-2 heated drain valve. All secondary tanks shall be equipped with Berg pull cord drain valves.	
3.3.9.7	The parking brake shall be compatible with the Allison RDS transmission and brakes or equivalent.	

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SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3.10	Tires and Wheels	
3.3.10.1	Front tires shall be tubeless type properly sized and rated for specified weight load of axle.	
3.3.10.2	Rear tires shall be four (8) tubeless radial, lug type, properly sized and rated for specified weight of axle.	
3.3.10.3	Front and rear wheels shall be hub piloted disc one-piece aluminum wheels with one-piece rims.	
3.3.11	Steering	
3.3.11.1	The unit shall include steering box, gears and front axle options for maximum maneuverability.	
3.3.11.2	The power steering pump shall be sized appropriately for the axle being bid.	
3.3.11.3	Each bidder shall supply information showing turning radius of vehicle for each configuration proposed.	
3.3.12	Electrical	
3.3.12.1	Alternator shall be a 12-volt system with a maximum output of not less than 160 amps or as needed for the configuration.	
3.3.12.2	Batteries shall be maintenance free multiple 12-volt battery pack providing a minimum combined CCA rating of 2200 at 0 degrees or as needed for the configuration.	
3.3.12.3	A battery cut-off switch or low voltage disconnect shall be installed on the vehicle. This switch shall not be construed as the ignition switch.	
3.3.12.4	All electrical wiring shall be color coded, systematically identified, full length runs, enclosed within a wire loom, and terminated in a waterproof junction box suitable for body supplier to make connections to the chassis, located on the outside of the cab. Tap in type splices are unacceptable.	
3.3.12.5	All cab chassis and body lights shall be LED where applicable.	

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3.3.12.6	Shall have strobe lights in the head and taillights.	
3.3.13	Cab and Equipment	
3.3.13.1	Shall be a conventional type cab with air ride.	
3.3.13.2	Shall have forward tilting fiberglass hood with bright finish grill and radiator stone guard.	
3.3.13.3	Shall have tilt steering wheel.	
3.3.13.4	Shall have tinted safety glass on all cab windows.	
3.3.13.5	Shall have intermittent electric dual windshield wipers on with headlights and washers.	
3.3.13.6	Shall have dual sun visors.	
3.3.13.7	Shall have high output hot water heater and dual defrosters, fresh air type.	
3.3.13.8	Shall have factory installed air conditioning.	
3.3.13.9	Shall have air horn mounted under deck and single electric horn.	
3.3.13.10	Shall have complete set of gauges, all illuminated and interior cab lights suitable for map reading.	
3.3.13.11	Shall have grab handles and steps on both sides of cab.	
3.3.13.12	Shall have engine hour meter inside of cab.	
3.3.13.13	Shall have air suspension high back driver's seat and air suspension high back passenger seat.	
3.3.13.14	Shall have lap and shoulder seat belts with retractors for both driver and passenger seats. Seat Belts to have extenders supplied.	
3.3.13.15	Shall have interactive touchscreen display radio with USB-C, Bluetooth and microphone.	
3.3.13.16	Shall have an electronic backup alarm.	
3.3.13.17	Shall have a maximum capacity air compressor to be provided with truck.	

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3.3.13.18	A 20# ABC fire extinguisher shall be properly mounted in an easily accessible area for the operator.	
3.3.13.19	Shall have powered locks and windows.	
3.3.13.20	Shall have Bluetooth capabilities.	
3.3.13.21	Shall have Fog lights.	
3.3.14	Mirrors	
3.3.14.1	Shall have left and right outside, heated mirrors, West Coast type, minimum size 7" x 15" with adjustable arm mount and heated 7" convex both sides.	
3.3.14.2	Shall have two (2) hood mounted convex mirrors left and right shall be properly installed on the hood.	
3.3.15	Paint	
3.3.15.1	Complete body unit shall be primed and painted, to paint manufacturers' recommendations, with Yellow 5248A lead free or equal.	
3.3.15.2	The complete unit (excluding cab if non-ferrous) shall be rust proofed and undercoated.	
3.3.16	Keys	
3.3.16.1	Four (4) sets of keys shall be provided.	
3.3.17	Attachments	
3.3.17.1	Plow	
3.3.17.1.1	Shall be a Henderson reversible snowplow with torsion trip edge or approved equivalent.	
3.3.17.1.2	Moldboard shall be 11' in length.	
3.3.17.1.3	Moldboard height shall be 42".	
3.3.17.1.4	Shall have a standard 5/8" x 8" cutting edge.	
3.3.17.1.5	Moldboard shall be integral shield design and powder-coated black for increased paint durability.	
3.3.17.1.6	All welds shall be continuous (skip welds not acceptable).	

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3.3.17.1.7	Trip edge backer angle shall be 4" x 4" x 3/4".	
3.3.17.1.8	Top moldboard angle shall be constructed of 3-1/2" x 2-1/2" x 3/8" with holes to allow moisture to escape.	
3.3.17.1.9	Shall have two 3" x 3" x .25 angle horizontal braces for added rigidity.	
3.3.17.1.10	Attack angle shall be adjustable to 5°, 10°, and 20°.	
3.3.17.1.11	Trip assembly shall be an adjustable torsional one-piece cutting-edge trip.	
3.3.17.1.12	Springs must have a zero-insertion force for increased safety while servicing.	
3.3.17.1.13	Cutting edge tripping shall be controlled by (5) torsional springs. Springs shall be constructed of a minimum of .75 square bar with 14 active coils.	
3.3.17.1.14	Minimum spring dimensions shall be 3.75OD x 2.25ID x 11.75. and shall be produced to meet Rockwell C hardness.	
3.3.17.1.15	Shall have three (3) position adjustments on each individual torsion spring on the trip assembly to allow changes in road conditions. Adjustable via factory supplied spring adjustment wrench.	
3.3.17.1.16	Shall have a circle push frame designed to provide level lift on the plow.	
3.3.17.1.17	Running gear shall be a minimum 10" diameter set of caster wheels.	
3.3.17.1.18	Shall have an adjustable parking jack with handle.	
3.3.17.1.19	Shall include right and left side plow markers.	
3.3.17.1.20	Shall have a 12" x .56 4ply rubber deflector installed. The retainer strip shall be fabricated from no less than 3" stainless steel.	

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3.3.17.1.21	Push frame, A-frame and other miscellaneous components shall be powder-coated black for increased paint durability.	
3.3.17.2	Truck Portion Hitch	
3.3.17.2.1	Shall be a Hercules Pin & Loop hitch system.	
3.3.17.2.2	The outer frame verticals shall be constructed from no less than 6" x 3" x .38w structural tube.	
3.3.17.2.3	The midway horizontal member shall be constructed from no less than 6" x 3" x .38w structural tube.	
3.3.17.2.4	The rear side of the hitch shall have a structural angle frame for use in chassis installation.	
3.3.17.2.5	The rear angle frame verticals shall be constructed from no less than 6" x 4" x 1/2" angle.	
3.3.17.2.6	The plow lift arm shall be 4-position telescopic design consisting of an outer and inner lift arm.	
3.3.17.2.7	The lift arm main cross tubes shall be constructed from no less than 4" x 4" x .38" structural square tube with 2.25" OD x .343w pivot tubes.	
3.3.17.2.8	The pivot tubes shall include a grease zerk for the lift arm pivot greasing.	
3.3.17.2.9	The main outer lift arm tube shall be fabricated from no less than 4" x 4" x .38" structural square tube.	
3.3.17.2.10	The inner lift arm shall be fabricated from no less than 3" x 3" x .38" structural square tube.	
3.3.17.2.11	The inner lift arm shall be machined with four (4) holes to allow for lift arm length adjustment.	
3.3.17.2.12	The lift arm shall be self-storing design, accomplished by pulling the lift arm cylinder pin, folding the cylinder up, and allowing the arm to be stored in a downward position.	

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3.3.17.2.13	The lower portion of the hitch shall feature a single manually actuated drop pin which shall secure the plow portion loop hitch to the truck hitch.	
3.3.17.2.14	The drop pin shall be 2.5" in diameter.	
3.3.17.3	Plow Portion Hitch	
3.3.17.3.1	Shall be an oscillating loop.	
3.3.17.3.2	The plow portion shall be designed to swivel upon the plow a-frame providing oscillation to the contouring road conditions.	
3.3.17.3.3	The hitch shall be constructed with a 2.5" x 7" x 36" base block with an approximate 2" round formed loop installed into the block.	
3.3.17.3.4	The ends of the base block shall have 3/4" a-frame end plate guides.	
3.3.17.3.5	The plow portion shall bolt to the plow a-frame with 1-1/2" grade 8 bolts.	
3.3.17.3.6	The entire hitch assembly shall be high pressure cleaned to remove weld slag, oil and splatter.	
3.3.17.3.7	The entire hitch assembly shall be powder coated black.	
3.3.17.4	Combination V-Box Granular/Liquid Spreader	
3.3.17.4.1	Shall be a HENDERSON STORMXTREME combination V-box granular/liquid application spreader system or approved equivalent. The application system shall feature granular hopper with integrated liquid tanks, anti-ice direct liquid sprayer and pre-wet system or approved equal. The system shall include a granular conveyor system, spinner system, power drive, liquid pre-wet pump, high-capacity anti-ice liquid pump and all components necessary to make a complete operating unit.	

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3.3.17.4.2	Unit shall be capable of hauling and spreading free flowing granular materials, anti-ice liquid application, and a pre-wet liquid onto granular material.	
3.3.17.4.3	Shall be a hook lift mount type.	
3.3.17.4.4	The granular hopper shall be fabricated from a minimum 201 grade stainless steel.	
3.3.17.4.5	The main granular conveyor system shall consist of a dual auger system.	
3.3.17.4.6	Shall have a rear cabinet enclosure for housing the liquid pumps, valves and system hydraulic valve assembly. The cabinet shall have 3 hinged doors for easy access to plumbing.	
3.3.17.4.7	Hopper length shall be a maximum of 14' with a 1' extended conveyor.	
3.3.17.4.8	Granular capacity shall be a minimum of 7.3 cubic yards.	
3.3.17.4.9	Liquid capacity shall be a minimum of 1512 gallons.	
3.3.17.4.10	The liquid tanks shall be poly sectional design for ease of servicing or repair in the event of damage.	
3.3.17.4.11	The tanks shall be a minimum of 3/8" wall made from LLDPE white translucent polyurethane.	
3.3.17.4.12	The spreaders conveyor system shall be comprised of a dual 7" diameter variable pitch augers designed to maintain an even material pull across the hopper.	
3.3.17.4.13	Conveyors using pintle chain, single auger, or non-variable pitch augers shall not be accepted.	
3.3.17.4.14	The augers shall be counter rotating to help reduce bridging of material.	
3.3.17.4.15	Each auger shall be driven at the rear by a 2-bolt low speed high torque 24.7 CIR hydraulic motor.	

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3.3.17.4.16	Hydraulic motors shall feature a high strength constant flush 60:40 spline geometry design, roller vanes, 7/8" 13 tooth splined output shaft and 7/8-14 SAE ports.	
3.3.17.4.17	The hydraulic drive motors shall power each auger shaft through a directly coupled 3.6:1 ratio planetary gear case.	
3.3.17.4.18	The gearbox input end of the auger tube shall utilize a 3.75" OD UHMW bushing to insulate between the gearbox output shaft and the auger input tube to assist with servicing and replacement, eliminating the possibility of the auger tube rusting onto the gearbox output shaft.	
3.3.17.4.19	One of the conveyor motors shall include a thread-in style 50-pulse speed sensor. The speed sensor shall have an M12 style connection.	
3.3.17.4.20	There shall be grease extensions running from the rear of the unit to the front auger idler bearings.	
3.3.17.4.21	The spreader shall include an installed set of hinged standard duty stainless steel top grate screens.	
3.3.17.4.22	The screen panels shall each have (2) rod style anti-seize hinges that rotate upon a 5" x fabricated stainless steel I-beam running the length of the hopper.	
3.3.17.4.23	The spreader shall include a hydraulic safety interlock system designed to disable hydraulic flow to the auger motor when open to allow access through the top grate screens.	
3.3.17.4.24	The spreader shall include an inverted vee installed above the conveyor system designed to keep weight off the conveyor.	
3.3.17.4.25	The vee shall be bolt in design, fabricated from a minimum 10ga 201 grade stainless steel.	

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3.3.17.4.26	The unit shall include the hydraulic valve bank, installed in the rear cabinet and factory plumbed to all motors and liquid pumps.	
3.3.17.4.27	The valve shall be set up to feed the conveyor system, anti-ice pump, prewet/slurry pump, and spinner.	
3.3.17.4.28	The rear cabinet shall include three obrounds on each side for the supplied LED Stop/Tail/Turn, back-up and amber strobes.	
3.3.17.4.29	There shall be three ¾" ICC bullet lights on the top center of the rear cabinet.	
3.3.17.4.30	Spinner Configuration	
3.3.17.4.30.1	Shall be a Direct Cast Spinner Assembly or approved equivalent.	
3.3.17.4.30.2	The spinner shall be capable of spreading single, two or three lanes with left, center or right directional control.	
3.3.17.4.30.3	All lane adjustments shall be made from the cab of the vehicle.	
3.3.17.4.30.4	The spinner shall include: 24" stainless steel spinner disc, stainless steel chute, stainless quick coupler lines, reversing cylinder, hydraulic motor, poly shroud, weather caps etc.	
3.3.17.4.31	Anti-Ice Configuration	
3.3.17.4.31.1	The anti-ice product pump shall be a hydraulic motor driven centrifugal pump rated up to 207 GPM flow with a maximum pressure of 130 PSI,	
3.3.17.4.31.2	Shall have a minimum 2-inch inlet and minimum 1-1/2-inch outlet.	
3.3.17.4.31.3	The pump shall be stainless steel and feature a nylon impeller and Viton/ceramic pump seals.	
3.3.17.4.31.4	The anti-ice spray boom assembly flow meter shall be a turbine style constructed of polypropylene and rated for 10-100gpm flow.	
3.3.17.4.31.5	Flowmeter shall provide accurate liquid flow information to the hydraulic control system for precise control and monitoring	

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3.3.17.4.31.6	There shall be 12-volt DC electrically operated valves to regulate flow to the spray bars.	
3.3.17.4.31.7	The valves shall feature a 316 stainless steel ball, wear resistant carbon-filled Teflon seals.	
3.3.17.4.31.8	The valve motor shall feature a visual indicator to verify valve position/operation.	
3.3.17.4.31.9	The motor assembly shall be IP67 rated.	
3.3.17.4.31.10	The system shall be capable of self-loading and unloading the liquid products from the rear of the truck.	
3.3.17.4.31.11	Shall include a visual sight gauge mounted to the rear of the body.	
3.3.17.4.31.12	All major components shall be installed utilizing manifold clamp or flange type connections for ease of service.	
3.3.17.4.31.13	Shall be capable of spraying left, center and right lane individually or at the same time.	
3.3.17.4.32	Liquid Prewet	
3.3.17.4.32.1	The liquid pump shall be an 8.2 GPM bronze gear pump.	
3.3.17.4.32.2	All liquid prewet drive components shall be mounted within the rear cabinet.	
3.3.17.4.32.3	There shall be an electric diverter valve to direct prewet output to either the spinner chute nozzles or auger slurry tube.	
3.3.17.4.32.4	The stainless-steel slurry tube shall be installed inside the hopper to inject liquid into the auger path.	
3.3.17.4.32.5	The spinner chute shall have a set of brass prewet nozzles.	
3.3.17.4.32.6	The prewet output shall include a .5-5GPM flow meter with M12 style connector.	

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3.3.17.4.32.7	The combination of granular/liquid spreader shall include all parts not specifically mentioned in the above description that are needed for a complete, fully functioning machine and shall be consistent with industry standards. This includes compatibility with the hook lift system, chassis, central hydraulic system and in-cab controls.	
3.3.17.5	Dump Body	
3.3.17.5.1	Shall be a Henderson Mark E Tandem Axle Cross-memberless Dump Body or approved equivalent.	
3.3.17.5.2	Shall be capable of mounting on a hook lift tandem axle truck.	
3.3.17.5.3	Minimum body floor length shall be 14'.	
3.3.17.5.4	Shall have a body side height of 36" front to rear.	
3.3.17.5.5	Tailgate height shall be 44".	
3.3.17.5.6	Inside body width shall be 86" and outside body width shall be 96".	
3.3.17.5.7	The body sides shall be constructed from a minimum of 10ga 201 grade stainless steel.	
3.3.17.5.8	The front head sheet shall be constructed from a minimum of 10ga 201 grade stainless steel.	
3.3.17.5.9	Side top rails shall be constructed from a minimum of 10ga 201 grade stainless steel with dirt shedding design.	
3.3.17.5.10	The upper tailgate pins, lower latch jaws, and cross shaft shall be greaseable.	
3.3.17.5.11	The lower tailgate pin latch jaws shall consist of two (2) 1/2" 201 grade stainless steel latch cradles per bolster.	
3.3.17.5.12	Dump body floor shall be constructed from minimum 1/4" abrasion resistant AR400 steel.	

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3.3.17.5.13	The 5" floor to side radius shall be integral to the dump body floor sheet. Weld on radiuses/braces shall not be acceptable.	
3.3.17.5.14	The dump body shall be Unibody design, with no cross members to cause wash-boarding of the dump body floor.	
3.3.17.5.15	The rear tailgate shall be 8" taller in height than the body sides and straight vertical.	
3.3.17.5.16	The sides shall include 2" wide board pockets at the sides/head sheet and the sides/rear bolsters.	
3.3.17.5.17	The main tailgate sheet shall be fabricated from no less than 10ga 201 grade stainless steel.	
3.3.17.5.18	The gate shall be reinforced with full boxed perimeter bracing. The perimeter horizontal bracing shall be fabricated from no less than 10ga 201 grade stainless steel.	
3.3.17.5.19	The upper tailgate hinge ears shall be fabricated from no less than 1" stainless steel plate. The hinge ears shall be fully welded to the tailgate.	
3.3.17.5.20	The lower tailgate latching release shall be actuated by a double acting air cylinder.	
3.3.17.5.21	The release mechanism shall be over-center design and the cross-shaft linkage shall utilize greaseable stainless-steel bushings to reduce seizing.	
3.3.17.5.22	The latch fingers shall be heavy duty design constructed from no less than 3/4" stainless steel plate.	
3.3.17.5.23	The tailgate shall have a single 18" stainless steel coal chute installed in the center.	
3.3.17.5.24	Shall have a stainless-steel pull-out ladder with grab handle.	
3.3.17.5.25	Shall have 2" stainless-steel step rails on each side.	

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3.3.17.5.26	Step rails shall be slotted or grooved for traction.	
3.3.17.5.27	Shall have a 201 stainless steel stationary cab shield that shall include the hydraulic oil reservoir between the cab shield framework.	
3.3.17.5.28	The oil fill pipe and filter shall be incorporated into the driver side upright, as well as the 201 SS valve enclosure.	
3.3.17.5.29	All stainless-steel components shall remain in natural stainless finish.	
3.3.17.5.30	Dump body shall include all turn-signals, brake and reverse lights, and rear mounted strobes.	
3.3.17.5.31	Dump body shall include a backup camera system that works in conjunction with the in-cab screen of the vehicle.	
3.3.17.5.32	Dump body shall have an automatic tarp system controlled by an in-cab switch.	
3.3.17.5.33	Shall have a bed vibrator controlled by an in-cab switch.	
3.3.17.5.34	The dump body shall include all parts not specifically mentioned in the above description that are needed for a complete, fully functioning machine and shall be consistent with industry standards. This includes compatibility with the hook lift system, chassis, central hydraulic system and in-cab controls.	
3.3.17.6	Flusher Body	
3.3.17.6.1	Shall be a STEPP 3000 Gallon Hook Mounted Street Flusher or approved equivalent.	
3.3.17.6.2	Tank shall have a minimum 3000-gallon capacity and shall be oval in cross-section.	
3.3.17.6.3	Tank shall be equipped with two (2) 10-gauge steel surge plates with a minimum 12" space between bottom of tank and surge plates, and 6" space between top of tank and surge plates.	

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3.3.17.6.4	Tank shall be electrically welded inside and out and shall be tested for leaks in accordance with N.D.E. (Non-Destructive Examination) procedures.	
3.3.17.6.5	Tank shall be equipped with a ladder mounted on the curb side of tank.	
3.3.17.6.6	Tank shall be equipped with a 20" full opening, lockable manhole with a 2 1/2" overflow/vent pipe, 2½" anti-siphon hose and a hydrant fill.	
3.3.17.6.7	Tank shall be equipped with TAPERED sub frame to assure drainage to rear discharge valve.	
3.3.17.6.8	Tank shall include an anti-cavitation sump to allow pump to function without the suction of air at low water levels.	
3.3.17.6.9	Tank shall have aluminum diamond plate fender with mud flaps and anti-sail brackets.	
3.3.17.6.10	Shall have a side mounted lockable stainless-steel toolbox.	
3.3.17.6.11	Tank shall have a mounted rearview camera system.	
3.3.17.6.12	Unit shall include an electric rewind hose reel with 100' of 1" hose with adjustable nozzle located in rear cabinet.	
3.3.17.6.13	Tank shall be equipped with 2½"x 25' diameter loading hose and a 2½" diameter side loading valve located on curb side of tank. Cam lock x NSF threads.	
3.3.17.6.14	Tank shall include a water level gauge in the Color display and will have an external indicator light near the curbside fill that will inform the operator when the tank is nearing and at full level.	
3.3.17.6.15	Pump	
3.3.17.6.15.1	Pump shall be centrifugal force pump, size 4" x 5" split case with 13" impeller, capacity of 750 gallons per minute at 50 PSI at 1780 RPM.	

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3.3.17.6.15.2	Pump shall be direct driven with a hydraulic motor.	
3.3.17.6.15.3	Pump shall maintain 50 PSI at a truck engine idle.	
3.3.17.6.15.4	Pump shall produce up to 90 PSI when the engine is at 1000RM.	
3.3.17.6.15.5	Pump shall be able to circulate water while traveling at road speeds.	
3.3.17.6.15.6	All pump and spraying functions shall be controlled from operators in-cab control box.	
3.3.17.6.15.7	The unit shall include a pump manifold. The manifold will include one fitting and valve for each spraying function and also will include an equipment fill with manual valve and cam lock fitting.	
3.3.17.6.15.8	Manifold shall be full circulating and include a heat stick to prevent freezing in cold weather.	
3.3.17.6.16	Piping	
3.3.17.6.16.1	All plumbing shall be done in 2" steel schedule 40 pipe with short hose transitions to the pump manifold.	
3.3.17.6.16.2	All lines shall be designed to be self-draining. No valves required for winterizing.	
3.3.17.6.16.3	Unit shall be equipped with four (4) duckbill style nozzles, rated at 125 GPM ea. The nozzle shall be a 2-piece construction machined from lightweight aluminum.	
3.3.17.6.16.4	Nozzles shall be adjustable for horizontal and vertical movement, two (2) on the side of tank ahead of drive wheel and two (2) mounted on the rear corners of the bumper.	
3.3.17.6.16.5	Unit shall have a 6" air operated dump valve.	
3.3.17.7	Paint	
3.3.17.7.1	All exterior parts to be primed and painted two (2) coats of 2-part Polyurethane paint.	

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3.3.17.8	Lights	
3.3.17.8.1	The unit shall be equipped with rubber grommet stop, tail turn lights and clearance lights.	
3.3.17.8.2	Shall have flush mounted LED strobe light mounted on the rear of the tank that shall be controlled in-cab.	
3.3.17.8.3	Shall include four (4) LED style flood lamps for filling and spraying under low light conditions. Two mounted forward, two mounted rearward.	
3.3.17.9	Controls and Instruments	
3.3.17.9.1	Unit shall have controls mounted inside cab.	
3.3.17.9.2	The controls shall be a can buss IMF color display and shall display a tank level gauge, water pressure, pump speed settings, and will have a manual or automatic pump control.	
3.3.17.9.3	Automatic pump control shall allow the operator to maintain constant water pressure regardless of spray settings.	
3.3.17.9.4	The control box shall include a can buss bank of 5 switches to operate individual water functions and lighting options.	
3.3.17.9.5	The flusher body shall include all parts not specifically mentioned in the above description that are needed for a complete, fully functioning machine and shall be consistent with industry standards. This includes compatibility with the hook lift system, chassis, central hydraulic system and in-cab controls.	
3.3.18	Central Hydraulic System	
3.3.18.1	Shall be a Force America Commandall with SSC6100 or approved equivalent.	
3.3.18.2	All attachment bodies shall work through or in conjunction with the Force America Commandall SSC6100 or approved equivalent.	

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SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3.19	Hook Lift System	
3.3.19.1	Shall be a SL400 hook system or approved equivalent.	
3.3.19.2	Shall have a minimum lifting and dumping capacity of 40,000 lbs. with the gross weight evenly distributed on the body.	
3.3.19.3	Shall have the ability to handle body lengths from 14' to 18'.	
3.3.19.4	Hook lift hoist shall have a 58-degree dump angle.	
3.3.19.5	The hook lift telescopic jib shall be capable of hydraulically sliding the body horizontally on the chassis to adjust for weight distribution while remaining in the body locks of the hoist and without lifting the body rails off the hoist frame. Tilting or articulating jib designs shall not be acceptable.	
3.3.19.6	Hook lift hoist shall have a dual rear pivot section incorporated into the hoist design to allow for both a true dump truck operation, with the body secured to the hook lift via body locks during the entire dump cycle and providing increased mounting leverage through the mount cycle.	
3.3.19.7	Hook lift jib shall cycle rearward, to the A-frame lifting bar, by means of double articulating hinge points (dual rear pivot) incorporated into the hoist mechanism.	
3.3.19.8	Hook lift body shall lock into a common rigid full-length frame to support the body when in a dump mode. This must be accomplished by mechanically operated latches, which secure the mast lock without relying on gravity or hydraulic operated locks to accomplish.	
3.3.19.9	Shall have a jib lockout valve to prevent operation of the jib while in a dump mode.	

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SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3.19.10	Hook lift shall be designed to function through all modes (load, unload, and dump) without the use of breakaway tabs and/or proximity switches.	
3.20	Training	
3.20.1	Manufacturer shall provide a training program that covers the unit's safe operational instruction. The training program shall be for a minimum of (1) one working day for the operators of the machine. Training will take place at locations determined by the City.	
3.20.2	Manufacturer shall provide a training program that covers the unit's routine maintenance procedures. The training program shall be for a minimum of (1) one working day for Fleet Services personnel. Training will take place at locations determined by the City.	

4.0 SAMPLING, INSPECTION AND TEST PROCEDURES

- 4.1 **Demonstration:** The City reserves the right to require a demonstration of any equipment prior to award of the bid. Such demonstration shall be conducted, at the sole discretion of the City, either on roads in the City of Columbus, or in another municipal setting in Franklin County, Ohio where such equipment is in daily operation. All costs associated with such demonstration are to be the responsibility of the supplier. All demonstrations shall be concluded within five (5) working days after notification of demo request. Failure to comply may be used as a basis for rejection of the bid.
- 4.2 **Inspection:** All parts shall be thoroughly, physically inspected upon delivery by an authorized representative of the Division of Infrastructure, Department of Public Service for verification of conformance to the specifications. Any damaged, defective, or substandard item shall be promptly removed by the supplier, and replaced at no cost to the City of Columbus. The supplier will be responsible for all shipping costs.

5.0 ORDERING, DELIVERY and INVOICING

- 5.1 **Ordering Procedure:** A written purchase order will be established by the Director of Finance and Management. The Purchase Order will have the delivery information and invoice information.

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5.2 **Delivery days after Order:** Bidder shall insert in the "Discount" tab of the bid the Lead Time expressed as the number of calendar days after receipt of order that delivery will be made. Vendors shall state actual delivery time in calendar days in the space provided under Delivery/Payment Terms. Delivery time may be a factor in determining award of bid. Failure to deliver in the days proposed may lead the City to consider the contract holder in partial or full breach of the contract. In the case of such breach, the City reserves the right to pursue all remedies and actions available under this contract and relevant law.

5.2.1 **Delivery Location:** The equipment will be delivered FOB Destination Freight Prepaid and Allowed (Seller Bears All Freight Costs), including unloading and placement onsite, to:

The City of Columbus
Division of Fleet Management
4211 Groves Road
Columbus, OH 43232

5.2.2 The City of Columbus requires no less than twenty-four (24) hours advance notice before the actual delivery by notifying Jason Smith (or designee) at the Division of Fleet Management (614)-645-3784. Delivery can be made Monday through Friday 7:00 AM – 2:30 PM (local time), except on a City of Columbus recognized holiday. City of Columbus personnel will uncrate any carton packaging. The contact information and delivery location will be included on the Purchase Order.

5.2.3 The successful bidder(s) assume the responsibility for the body-chassis coordination including, but not limited to, transportation and insurance for complete unit(s) while in transport and until final acceptance by the City of Columbus.

5.2.4 All equipment must be delivered with all fluid levels at the manufacturer's recommended full capacity. All manufacturer's pre-delivery service and inspections should be completed prior to delivery to the City of Columbus. Written certification of the complete equipment's actual tare weight shall be included when the vehicle is delivered.

5.3 **Packaging:** All items must be packaged in the minimum standard packing material designed to protect against damage during shipment. Note the use of Environmentally Friendly materials is encouraged.

5.4 **Title:**

5.4.1 All documents required to obtain a State of Ohio Title must be delivered to Teresa Roberts at the Division of Fleet Management, 4211 Groves Road, Columbus, Ohio 43232. All forms must be properly completed. NO BLANK FORMS WILL BE ACCEPTED.

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- 5.4.2 After signature by the Division of Fleet Management, an Ohio Certificate of Title shall be delivered to the City of Columbus, Division of Fleet Management within three (3) days. Fleet Management will not authorize payment for any vehicle until they receive a valid State of Ohio Title or certificate of origin.
- 5.4.3 All titles are to be made out to City of Columbus, 4211 Groves Rd, Columbus, Ohio 43232.
- 5.5 **Tax Credits, Grants, and Refunds:** Any and all grants, incentives, credits, rebates, discounts and/or refunds received by the manufacturer or dealer based on emissions reductions or the CNG fuel status of these vehicles will be identified and deducted from the cost of the vehicles provided to the City of Columbus, including, but not limited to, any tax credits that may be transferred from the City, as a tax exempt entity, to the Seller.
- 5.6 **Invoicing:** Each invoice shall show the City Purchase Order number, a brief description identifying the item, the unit price, and the total amount. The invoice amount must exactly match the purchase order amount in accordance with the bid proposal. All Invoices should be mailed to the following address to ensure proper payment:

City of Columbus
111 N. Front Street-4th Floor, Attn: OSS – Jessica Yu
Columbus, Ohio 43215
PublicServiceInvoices@columbus.gov

6.0 **NOTES**

- 6.1 **Online Bidding Instructions:** Bidders are requested to quote firm or fixed prices on the corresponding line item(s) only. Within the "Comment" section of each line bidders are requested to provide the make, model and manufactured year of the unit quoted. It is understood that all parts that may not be specifically mentioned must be included to make the unit operational and complete.
- 6.1.1 **Alternates:** Bids will be considered on units complying with the specifications. All alternates must be detailed in an attached letter to bid. Explanations must fully state what is to be furnished. All alternates must meet or exceed specifications. The City of Columbus reserves the right to determine whether any proposed alternates are within the specifications.
- 6.1.1.1 **Attachments:** For instruction on attaching documents to online quotes, please see the "City of Columbus Vendor Services User Guide", made available through the Vendor Portal.
- 6.2 **Warranty:** The equipment specified herein shall be covered by the manufacturer's warranty at no additional charge. Bidders shall submit warranty on a separate sheet attached to the bid proposal.

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- 6.2.1 **Warranty Period:** The warranty period shall be a minimum of 12 months at no additional charge. Bidders shall submit copies of the warranty as an attachment with the bid proposal.
- 6.2.2 **Delayed Warranty:** Bidder shall submit on a separate sheet attached to the bid a procedure for delayed warranty for starting dates to cover the interval between time of delivery of the complete vehicle and the actual date that the equipment is placed in service by the City. This delayed time period will cover inspection, operator and mechanic training, etc.
- 6.2.3 **Fully Franchised:** The bidder shall contract with a warranty service provider whose primary business is the sale and/or repair of the equipment proposed in this bid proposal. Warranty service must be performed by a franchised OEM dealer that is authorized by the manufacturer(s) to perform warranty service. The warranty work shall be the responsibility of the successful bidder and the successful bidder shall coordinate all warranty work. Any defects shall be corrected and the equipment returned to the City within ten (10) days of written (mail, email or fax) notification of the service need. Any defects shall be corrected without cost to the City of Columbus. Under no circumstances shall the "out-of-operation" time of the equipment exceed ninety (90) days. Warranty work is not deemed complete until Fleet Management has accepted work as satisfactory.
- 6.2.4 **Warranty Service Logistics:** Cost of transport of equipment for warranty purposes shall be the responsibility of the successful bidder. The successful bidder will be required to pick up the equipment and transport it to the warranty service location. At the successful bidder's discretion, the equipment may be transported (not towed) to a location within Franklin or contiguous counties. For a warranty service location outside of a contiguous county, the equipment must be transported (not towed).
- 6.3 **Literature:**
- 6.3.1 To aid in the evaluation of bids, all bidders are to furnish with this bid current published literature and Dealer's specifications that best explains the unit offered, model and identification of the options that meet or exceed the specifications. Published literature shall include pictures and complete descriptive matter.
- 6.3.2 Bidders shall submit a copy of dealer's build sheets with bid.
- 6.4 **Manuals:**
- 6.4.1 The successful bidder shall supply two (2) copies of all parts lists, service, maintenance, and operation manuals upon delivery of the equipment to the City of Columbus. The City of Columbus would prefer that all parts and service manuals be supplied in digital format.

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6.5 **Insurance Requirements and Workers Compensation:** Successful Bidder is required to provide the following before final execution of the contract:

6.5.1 **Liability Insurance:** The contractor shall take out and maintain during the life of the contract, such Public Liability (bodily injury and property damage) Insurance as shall protect them from claims from damages for personal injury, including accidental death, as well as from claims for property damage which may arise from operations under the contract, whether such operation be by themselves or any subcontractor or by anyone directly or indirectly employed by either of them. Such insurance policy shall include the city as named insured. The Contractor shall maintain coverage of the types and in the amounts specified below. Submitting a certificate of insurance shall evidence proof of such insurance coverage. A contractor's "umbrella" type policy with limits specified below may be submitted for this requirement, with the City as named insured.

The amount of such insurance shall be as follows:

Bodily Injury Liability	
Each Person	\$1,000,000.00
Each Accident	\$1,000,000.00

Property Damage Liability	
Each Person	\$1,000,000.00
Each Accident	\$1,000,000.00

Such insurance shall remain in full force and effect during the life of the contract. Insurance may not be changed or cancelled unless the insured and the City are notified in writing not less than thirty days prior to such change or cancellation. If any part of the contract is sublet, the Contractor is responsible for the part sublet being adequately covered by insurance herein above described.

Contractor assumes all risk of loss and damage to the equipment provided unless loss or damage occurs at the time the operator and equipment are being operated for the purpose designated by the city and such loss or damages is caused by an act of the city or its employee which constitutes gross negligence or wanton misconduct.

6.5.2 **Workers Compensation:** The successful contractor shall obtain and maintain during the life of this contract, adequate worker's compensation insurance for all their employees employed at the site of the project and, in case any work is sublet, the contractor shall require the subcontractor similarly to provide worker's compensation insurance for the latter's employees, unless such employees are covered by the protection afforded by the contractor. The successful contractor shall furnish one (1) copy of the worker's compensation certificate showing that the contractor has paid their industrial insurance premium.

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- 6.6 **Correspondences:** During the bidding and evaluation process Offerors are strictly prohibited from communicating with any City employees or officers regarding the solicitation. Any communication from the vendor to the City should be limited to only the contact(s) listed in the RFQ and/or below. A violation of this section on the part of the Offeror may lead to disqualification.

All correspondences regarding this bid should be sent via email to Ms. Joey Faber at JFaber1@columbus.gov.

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REFERENCES

The bidder must briefly document its capabilities and submit an outline of its experience and work history in Tandem Axle Hook Lift Trucks sales and warranty service for the past five years by submitting the contact information of References from four (4) separate equipment sales. References should consist of projects of a similar scope, complexity, and cost.

Business Name: _____ Tel #: (____) _____ - _____

Address: _____

E-mail: _____ Fax #: (____) _____ - _____

Contact: _____ Equipment purchase date: _____

Equipment Provided/ Warranty Service Performed:

Business Name: _____ Tel #: (____) _____ - _____

Address: _____

E-mail: _____ Fax #: (____) _____ - _____

Contact: _____ Equipment purchase date: _____

Equipment Provided/ Warranty Service Performed:

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REFERENCES (continued)

Business Name: _____ Tel #: (____) _____ - _____

Address: _____

E-mail: _____ Fax #: (____) _____ - _____

Contact: _____ Equipment purchase date: _____

Equipment Provided/ Warranty Service Performed:

Business Name: _____ Tel #: (____) _____ - _____

Address: _____

E-mail: _____ Fax #: (____) _____ - _____

Contact: _____ Equipment purchase date: _____

Equipment Provided/ Warranty Service Performed:

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SUBCONTRACTORS INFORMATION (IF APPLICABLE)

Business Name: _____ Tel #: (____) _____ - _____

Address: _____

E-mail: _____ Fax #: (____) _____ - _____

Contact: _____ Equipment purchase date: _____

Equipment Provided/ Warranty Service Performed:

Business Name: _____ Tel #: (____) _____ - _____

Address: _____

E-mail: _____ Fax #: (____) _____ - _____

Contact: _____ Equipment purchase date: _____

Equipment Provided/ Warranty Service Performed:
