

AGREEMENT

THIS AGREEMENT is made and entered into by and between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado (the “City” or “Customer”) and **KOIS BROTHERS EQUIPMENT CO, INC.**, a Colorado corporation whose address is 1900 West Littleton Blvd, Littleton, CO 80120 (“Contractor”).

RECITALS:

1. The City desires to obtain one (1) 2019/2020 CRANE CARRIER LET2 W/HEIL DURAPACK 5000 REAR LOADER REFUSE BODY-DIESEL Truck and associated equipment, and Contractor desires to provide that equipment to the City.
2. Payment for the equipment shall be financed through a separate lease-purchase agreement (the “LPA”) between the City and Banc of America Public Capital Corp., (“Financer”).

AGREEMENT:

For and in consideration of the agreements contained, and subject to the terms and conditions stated, in this Agreement, the parties agree as follows:

1. **FORM OF AGREEMENT**. This Agreement shall consist of the terms and conditions stated in the following numbered Articles, together with those exhibits or attachments that are referenced and incorporated in such Articles. In the event that any conflict between the terms and conditions contained in this document and those contained in any exhibits or attachments shall occur, the terms and conditions of these numbered Articles shall be controlling.

2. **COORDINATION AND LIAISON**: Contractor agrees that during the term of this Agreement it shall fully coordinate the performance of this Agreement with the City, including the Executive Director of Public Works (“Manager”) or as otherwise directed by the City. Contractor understands that the Manager or designee is the City's representative or Project Manager under this Agreement through whom Contractor obligations performed under this Agreement shall be coordinated.

3. **EQUIPMENT AND WARRANTIES TO BE PROVIDED**.

A. Contractor shall provide to the City the equipment and warranties listed and described on **Exhibit A** attached hereto (hereinafter referred to as the “Equipment” and “Warranties”).

B. It is understood and agreed that the Equipment and Warranties associated with this Agreement that are being provided to the City hereunder are also routinely provided to nongovernmental customers on the same terms and conditions that were offered to the City and are agreed to by the City in this Agreement.

4. **SPECIAL PURCHASING TERMS AND CONDITIONS**: In addition to all other terms and conditions stated in this Agreement, Contractor shall comply with the following special purchasing terms and conditions:

A. Pricing is F.O.B. Denver, CO, delivered to the City 5440 Roslyn St Denver, Colorado 80216.

B. Contractor agrees to bear all risk of loss, injury, or destruction of goods and materials ordered as a result of this Agreement which occur prior to delivery to the City; and such loss, injury or destruction shall not release Contractor from any obligation hereunder. Thereafter, risk of loss shall pass to the City and Financer as further described in the LPA.

C. Contractor agrees to furnish, upon the written request of the City, any additional information needed to substantiate or clarify the design and/or performance characteristics of the Equipment.

D. Contractor Invoices must include the following:

- (1) City contract control number.
- (2) Items listed individually.
- (3) Invoice number and date.
- (4) Requesting department name and "ship to" address.
- (5) Payment terms.

5. **TERM.** The Term of this Agreement shall commence upon July 1, 2019.

6. **COMPENSATION.**

A. It is understood and agreed that the City has elected to lease purchase/finance the Equipment and Warranties through the LPA. The City and Financer shall enter into an escrow agreement, that together with the LPA, will provide for payment to the Contractor of the amount stated herein subject to the procedure set out in the LPA. The Contractor's performance under this Agreement is expressly conditioned upon funding of the escrow agreement and proper payment as set out herein.

B. The total compensation payable to Contractor for acquiring and delivering the Equipment together with the Warranties shall not exceed the amount of **THREE HUNDRED AND FOUR THOUSAND TWO HUNDRED AND SEVENTY TWO DOLLARS** (\$304,272.00) (the "Maximum Purchase Amount"), payable to the Contractor by Financer. Delivery of the Equipment to the City shall occur, and title to the Equipment shall vest with Financer, upon payment of the Maximum Purchase Amount to Contractor in accordance with the delivery of the Acceptance Certificate. Beneficial use of the Equipment and Warranties shall remain with the City.

C. The total compensation payable by the City to Contractor under this Agreement for the Equipment and Warranties is Zero Dollars (\$0.00) (the "Maximum Contract Amount").

D. The total obligation of the City hereunder shall be limited to funds appropriated for the purposes of this Agreement by the Council of the City and County of Denver, paid into the Treasury of the City and encumbered for the purpose of this Agreement.

7. **TIME IS OF THE ESSENCE**: The parties agree that in the performance of the terms, conditions, and requirements of this Agreement by Contractor, time is of the essence.

8. **STATUS OF CONTRACTOR**: It is understood and agreed by and between the parties that the status of Contractor shall be that of an independent contractor and it is not intended, nor shall it be construed, that Contractor or any employee or subconsultant is an employee, officer, or agent of the City under Chapter 18 of the Denver Revised Municipal Code for purposes of unemployment compensation, workers' compensation, or for any purpose whatsoever.

9. **TERMINATION OF AGREEMENT**: The City may terminate this Agreement at any time on thirty (30) days' notice if Contractor is in breach or default of the Agreement and the breach remains uncured for thirty (30) days after receipt of written notice of the breach or if the underlying project or activity is canceled. The City may also by written Notice of Default to Contractor terminate the whole or part of this Agreement in the event Contractor or any of its officers or employees are convicted, plead nolo contendere, enter into a formal agreement in which they admit guilt, enter a plea of guilty, or otherwise admit culpability to criminal offenses of bribery, kickbacks, collusive bidding, bid-rigging, antitrust, fraud, undue influence, theft, racketeering, extortion or any offense of a similar nature, in connection with Contractor's business. Contractor may terminate this Agreement upon ten (10) days prior written notice if (a) the City breaches this Agreement and the breach remains uncured for thirty (30) days after receipt of written notice of the breach, or (b) Financer fails to honor its obligations under the LPA.

10. **WHEN RIGHTS AND REMEDIES NOT WAIVED**: In no event shall any payment by the City hereunder constitute or be construed to be a waiver by the City of any breach of term, covenant, or condition or any default which may then exist on the part of Contractor, and the making of any such payment when any such breach or default shall exist shall not impair or prejudice any right or remedy available to the City with respect to such breach or default; and no assent, expressed or implied, to any breach of any one or more terms, covenants, or conditions of the Agreement shall be construed as a waiver of any succeeding or other breach.

11. **EXAMINATION OF RECORDS**: Any authorized agent of the City, including the City Auditor or his or her representative, has the right to access and the right to examine any pertinent books, documents, papers and records of the Contractor, involving transactions related to the Agreement until the latter of three (3) years after the final payment under the Agreement or expiration of the applicable statute of limitations.

12. **TAXES, PERMITS AND LICENSES**: Contractor agrees to pay promptly all taxes, excises, license fees and permit fees of whatever nature applicable to its operations, and to take out and keep current all required licenses or permits, whether municipal, state or federal, required for the conduct of its business hereunder, and further agrees not to permit any of said taxes, excises or license or permit fees to become delinquent. Contractor further agrees to furnish the City, upon request, duplicate receipts or other satisfactory evidence showing the prompt payment by Contractor of all required licenses and permits and all taxes. Contractor further agrees to pay promptly when due all

bills, debts and obligations incurred by it in connection with its operations, and not to permit the same to become delinquent and to suffer no lien, mortgage, judgment or execution to be filed which will in any way impair the rights of the City under this Agreement.

13. **VENUE, GOVERNING LAW:** Each and every term, condition, or covenant herein is subject to and shall be construed in accordance with the provisions of Colorado law, any applicable federal law, the Charter of the City and County of Denver and the ordinances, regulations, and Executive Orders enacted and/or promulgated pursuant thereto. Such applicable law, together with the Charter, Revised Municipal Code, regulations and Executive Orders of the City and County of Denver, as the same may be amended from time to time, is hereby expressly incorporated into this Agreement as if fully set out herein by this reference. Venue for any action arising hereunder shall be in the Denver County or Denver District Court in the City and County of Denver, Colorado.

14. **USE, POSSESSION OR SALE OF ALCOHOL OR DRUGS:** Contractor, its officers, agents, and employees shall cooperate and comply with the provisions of Executive Order 94 and Attachment A thereto concerning the use, possession or sale of alcohol or drugs. Violation of these provisions or refusal to cooperate with implementation of the policy can result in the City's barring Contractor from City facilities or participating in City operations.

15. **ASSIGNMENT AND SUBCONTRACTING:**

A. Provided that the City shall have accepted the Equipment, the City shall not have the right to and shall not assert against any assignee of Financer or other registered owner of the Equipment any claim, counterclaim or other right the City may have against the Contractor.

B. None of the City's right, title and interest in any portion of the Equipment may be assigned or encumbered by the City for any reason; except that the City may sublease all or part of such Equipment if (a) such sublease is to an agency or department of, or a political subdivision of, the State or (b) the City obtains the prior written consent of Financer and an opinion of nationally recognized counsel in the area of tax exempt municipal obligations satisfactory to Financer that such subleasing will not adversely affect the exclusion of the interest components of the rental payments made to Financer under the lease-purchase transaction referenced herein from gross income for federal income purposes. Any such sublease of all or part of any Equipment shall be subject to the lease-purchase transaction with Financer and the rights of Financer in, to and under such transaction with respect to the Equipment.

C. The City is otherwise not obligated or liable under this Agreement to any party other than the Contractor named herein. Contractor is otherwise not obligated or liable under this Agreement to any party other than the City. Contractor understands and agrees that it shall not assign or subcontract with respect to any of its rights, benefits, obligations or duties under this Agreement except upon prior written consent and approval of the City, which consent or approval may be withheld in the absolute discretion of the City; and in the event any such assignment or subcontracting shall occur, such action shall not be construed to create any contractual relationship between the City and such assignee or subcontractor, and Contractor herein named shall remain fully responsible to the City according to the terms of this Agreement.

16. **NO DISCRIMINATION IN EMPLOYMENT:** In connection with the performance of work under this Agreement, Contractor agrees not to refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender identity or gender expression, marital status, or physical or mental disability; and Contractor further agrees to insert the foregoing provision in all subcontracts hereunder.

17. **INSURANCE:**

A. General Conditions: Contractor agrees to secure, at or before the time of execution of this Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Contractor shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof, during any warranty period, and for three (3) years after termination of the Agreement. The required insurance shall be underwritten by an insurer licensed or authorized to do business in Colorado and rated by A.M. Best Company as "A-"VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies is canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, contractor shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section by certified mail, return receipt requested within three (3) business days of such notice by its insurer(s) and referencing the City's contract number. If any policy is in excess of a deductible or self-insured retention, the City must be notified by the Contractor. Contractor shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this Agreement are the minimum requirements, and these requirements do not lessen or limit the liability of the Contractor. The Contractor shall maintain, at its own expense, any additional kinds or amounts of insurance that it may deem necessary to cover its obligations and liabilities under this Agreement.

B. Proof of Insurance: Contractor shall provide a copy of this Agreement to its insurance agent or broker. Contractor may not commence services or work relating to the Agreement prior to placement of coverages required under this Agreement. Contractor certifies that the certificate of insurance attached as Exhibit B, preferably an ACORD certificate, complies with all insurance requirements of this Agreement. The City requests that the City's contract number be referenced on the Certificate. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of the City's rights or remedies under this Agreement. The City's Risk Management Office may require additional proof of insurance, including but not limited to policies and endorsements.

C. Additional Insureds: For Commercial General Liability, Auto Liability and Excess Liability/Umbrella (if required), Contractor and subcontractor's insurer(s) shall include the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.

D. Waiver of Subrogation: For all coverages required under this Agreement, Contractor's insurer shall waive subrogation rights against the City.

E. Subcontractors and Subconsultants: All subcontractors and subconsultants (including independent contractors, suppliers or other entities providing goods or services required by this Agreement) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of the Contractor. Contractor shall include all such subcontractors as additional insured under its policies (with the exception of Workers' Compensation) or shall ensure that all such subcontractors and subconsultants maintain the required coverages. Contractor agrees to provide proof of insurance for all such subcontractors and subconsultants upon request by the City.

F. Workers' Compensation/Employer's Liability Insurance: Contractor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Contractor expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement, that none of the Contractor's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Contractor executes this Agreement.

G. Commercial General Liability: Contractor shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.

h. Business Automobile Liability: Contractor shall maintain Business Automobile Liability with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-owned vehicles used in performing services under this Agreement.

i. Additional Provisions:

- (A) For Commercial General Liability, the policy must provide the following:
- (i) That this Agreement is an Insured Contract under the policy;
 - (ii) Defense costs are outside the limits of liability;
 - (iii) A severability of interests or separation of insureds provision (no insured vs. insured exclusion); and

(iv) A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by the City.

(B) For claims-made coverage:

(i) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier.

(C) Contractor shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

K. City's Insurance. The City is self-insured pursuant to the Colorado Governmental Immunity Act, C.R.S. §24-10-101 et seq., and shall not be required to obtain any liability, fire, casualty or other insurance as a result of this Agreement. Neither shall any contrary statement contained in any attachment or exhibit hereto be construed to shift the risk of loss or liability to the City.

18. **DEFENSE AND INDEMNIFICATION:**

A. Contractor agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or relating to the work performed under this Agreement ("Claims"), unless such Claims have been specifically determined by the trier of fact to be the sole negligence or willful misconduct of the City. This indemnity shall be interpreted in the broadest possible manner to indemnify City for any acts or omissions of Contractor or its subcontractors either passive or active, irrespective of fault, including City's concurrent negligence whether active or passive, except for the sole negligence or willful misconduct of City.

B. Contractor's duty to defend and indemnify City shall arise at the time written notice of the Claim is first provided to City regardless of whether Claimant has filed suit on the Claim. Contractor's duty to defend and indemnify City shall arise even if City is the only party sued by claimant and/or claimant alleges that City's negligence or willful misconduct was the sole cause of claimant's damages.

C. Contractor shall defend any and all Claims which may be brought or threatened against City and shall pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation. Such payments on behalf of City will be in addition to any other legal remedies available to City and will not be the City's exclusive remedy.

D. Insurance coverage requirements specified in this Agreement in no way lessen or limit the liability of the Contractor under the terms of this indemnification obligation. The Contractor is responsible to obtain, at its own expense, any additional insurance that it deems necessary for the City's protection.

E. This defense and indemnification obligation shall survive the expiration or termination of this Agreement.

19. CONFLICT OF INTEREST:

A. No employee of the City shall have any personal or beneficial interest in the services or property described in the Agreement. The Contractor shall not hire, or contract for services with, any employee or officer of the City that would be in violation of the City's Code of Ethics, D.R.M.C. §2-51, et seq. or the Charter §§ 1.2.8, 1.2.9, and 1.2.12.

B. The Contractor shall not engage in any transaction, activity or conduct that would result in a conflict of interest under the Agreement. The Contractor represents that it has disclosed any and all current or potential conflicts of interest. A conflict of interest shall include transactions, activities or conduct that would affect the judgment, actions or work of the Contractor by placing the Contractor's own interests, or the interests of any party with whom the Contractor has a contractual arrangement, in conflict with those of the City. The City, in its sole discretion, will determine the existence of a conflict of interest and may terminate the Agreement if it determines a conflict exists, after it has given the Contractor written notice describing the conflict.

20. NO THIRD PARTY BENEFICIARY: It is expressly understood and agreed that enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the City and Contractor, and nothing contained in this Agreement shall give or allow any such claim or right of action by any other or third person or entity on such Agreement, including but not limited to subcontractors and suppliers. It is otherwise the express intention of the City and Contractor that any person or entity other than the City or Contractor receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

21. TRADE SECRETS AND CONFIDENTIAL INFORMATION:

A. Contractor shall not at any time or in any manner, either directly or indirectly, divulge, disclose or communicate to any person, firm or corporation in any manner whatsoever any information concerning any matters related to this Agreement which are not subject to public disclosure, including without limitation the trade secrets of businesses or entities doing business with the City and other privileged or confidential information.

B. In the event that this Agreement or any exhibit or attachment is the subject of an open records request by a third party under Colorado law, the City will notify Contractor of such request. If Contractor believes that any material furnished to the City under this Agreement is not subject to disclosure, it shall take whatever action it deems necessary or appropriate to obtain a court order from the Denver District Court to preclude such disclosure by the City.

22. DISPUTES: All disputes of whatsoever nature between the City and Contractor regarding this Agreement shall be resolved by administrative hearings pursuant to the procedure established by Denver Revised Municipal Code §56-106(b) et. seq. For the purposes of that procedure, the City official rendering a final determination shall be the City representative identified in Article 2 hereof.

23. TAXES, CHARGES AND PENALTIES: The City is not liable for the payment of taxes, late charges or penalties of any nature, except for any additional amounts that the City may be required to pay under the City's prompt payment ordinance D.R.M.C. § 20-107, *et seq.* The Contractor shall promptly pay when due, all taxes, bills, debts and obligations it incurs performing the services under the Agreement and shall not allow any lien, mortgage, judgment or execution to be filed against City property.

24. PARAGRAPH HEADINGS: The captions and headings set forth herein are for convenience of reference only, and shall not be construed so as to define or limit the terms and provisions hereof.

25. SEVERABILITY: It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement, except for the provisions of the Agreement requiring prior appropriation of funds and limiting the total amount payable by the City, is by the courts held to be illegal or in conflict with any law of the State of Colorado, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provision held to be invalid.

26. SURVIVAL OF CERTAIN AGREEMENT PROVISIONS: The parties understand and agree that all terms, conditions and covenants of this Agreement, together with the exhibits and attachments hereto, if any, any or all of which, by reasonable implication, contemplate continued performance or compliance beyond the expiration or termination of this Agreement (by expiration of the term or otherwise), shall survive such expiration or termination and shall continue to be enforceable as provided herein. Without limiting the generality of the foregoing, Contractor's obligations for the provision of insurance, for indemnity to the City and for preserving confidentiality of trade secrets and other information shall survive for a period equal to any and all relevant statutes of limitation, plus the time necessary to fully resolve any claims, matters, or actions begun within that period.

27. AGREEMENT AS COMPLETE INTEGRATION - AMENDMENTS: This Agreement, together with the LPA, are intended as the complete integration of all understandings between the parties as to the subject matter of this Agreement. No prior or contemporaneous addition, deletion, or other amendment hereto shall have any force or effect whatsoever, unless embodied herein in writing. No subsequent novation, renewal, addition, deletion, or other amendment hereto shall have any force or effect unless embodied in a written amendatory or other Agreement properly executed by the parties. No oral representation by any officer or employee of the City at variance with the terms and conditions of this Agreement or any written amendment to this Agreement shall have any force or effect or bind the City. Amendments to this Agreement will become effective when approved by both parties and executed in the same manner as this Agreement. This Agreement and any amendments shall be binding upon the parties, their successors and assigns.

28. LEGAL AUTHORITY:

A. Contractor assures and guarantees that it possesses the legal authority, pursuant to any proper, appropriate and official motion, resolution or action passed or taken, to enter into this Agreement.

B. The person or persons signing and executing this Agreement on behalf of Contractor, do hereby warrant and guarantee that he/she or they have been fully authorized by Contractor to execute this Agreement on behalf of Contractor and to validly and legally bind Contractor to all the terms, performances and provisions herein set forth.

C. The City shall have the right, at its option, to either temporarily suspend or permanently terminate this Agreement, if there is a dispute as to the legal authority of either Contractor or the person signing the Agreement to enter into this Agreement. The City shall not be obligated to pay Contractor for any performance of the provisions of this Agreement after the City has suspended or terminated this Agreement as provided in this Article.

29. COUNTERPARTS OF THIS AGREEMENT: This Agreement shall be executed in two (2) counterparts, each of which shall be deemed to be an original of this Agreement.

30. NO EMPLOYMENT OF ILLEGAL ALIENS TO PERFORM WORK UNDER THE AGREEMENT:

A. This Agreement is subject to Division 5 of Article IV of Chapter 20 of the Denver Revised Municipal Code, and any amendments (the “Certification Ordinance”).

B. The Contractor certifies that:

- (1)** At the time of its execution of this Agreement, it does not knowingly employ or contract with an illegal alien who will perform work under this Agreement.
- (2)** It will participate in the E-Verify Program, as defined in § 8-17.5-101(3.7), C.R.S., to confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement.

C. The Contractor also agrees and represents that:

- (1)** It shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.
- (2)** It shall not enter into a contract with a sub-consultant or subcontractor that fails to certify to the Contractor that it shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.
- (3)** It has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement, through participation in either the E-Verify Program.
- (4)** It is prohibited from using either the E-Verify Program procedures to undertake pre-employment screening of job applicants while performing its obligations under the Agreement, and that otherwise requires the Contractor to comply with any and all federal requirements related to use of the E-Verify Program including, by way of example, all program requirements related to employee notification and preservation of employee rights.

- (5) If it obtains actual knowledge that a sub-consultant or subcontractor performing work under the Agreement knowingly employs or contracts with an illegal alien, it will notify such sub-consultant or subcontractor and the City within three (3) days. The Contractor will also then terminate such sub-consultant or subcontractor if within three (3) days after such notice the sub-consultant or subcontractor does not stop employing or contracting with the illegal alien, unless during such three-day period the sub-consultant or subcontractor provides information to establish that the sub-consultant or subcontractor has not knowingly employed or contracted with an illegal alien.
- (6) It will comply with any reasonable request made in the course of an investigation by the Colorado Department of Labor and Employment under authority of § 8-17.5-102(5), C.R.S., or the City Auditor, under authority of D.R.M.C. 20-90.3.

D. The Contractor is liable for any violations as provided in the Certification Ordinance. If Contractor violates any provision of this section or the Certification Ordinance, the City may terminate this Agreement for a breach of the Agreement. If the Agreement is so terminated, the Contractor shall be liable for actual and consequential damages to the City. Any such termination of a contract due to a violation of this section or the Certification Ordinance may also, at the discretion of the City, constitute grounds for disqualifying Contractor from submitting bids or proposals for future contracts with the City.

31. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS: Contractor consents to the use of electronic signatures by the City. The Agreement, and any other documents requiring a signature hereunder, may be signed electronically by the City in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Agreement solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Agreement in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

32. NOTICES: All notices required by the terms of the Agreement must be hand delivered, sent by overnight courier service, mailed by certified mail, return receipt requested, or mailed via United States mail, postage prepaid, if to Contractor at the address first above written, with a copy of any such notice to:

Ernest J. Kois
5200 Colorado Blvd
Commerce City CO 80022

and if to the City at:

Manager of Public Works or Designee
201 West Colfax Avenue, Dept.608
Denver, Colorado 80202

With a copy of any such notice to:

Denver City Attorney's Office
1437 Bannock St., Room 353
Denver, Colorado 80202

Notices hand delivered or sent by overnight courier are effective upon delivery. Notices sent by certified mail are effective upon receipt. Notices sent by mail are effective upon deposit with the U.S. Postal Service. The parties may designate substitute addresses where or persons to whom notices are to be mailed or delivered. However, these substitutions will not become effective until actual receipt of written notification.

33. COMPLIANCE WITH ALL LAWS: All services provided by Contractor shall be performed by Contractor in full compliance with all applicable laws, rules, regulations and codes of the United States, the State of Colorado; and with the Charter, ordinances, rules, regulations and Executive Orders of the City and County of Denver.

34. NO CONSTRUCTION AGAINST DRAFTING PARTY: The parties and their respective counsel have had the opportunity to review the Agreement, and the Agreement will not be construed against any party merely because any provisions of the Agreement were prepared by a particular party.

35. ADVERTISING AND PUBLIC DISCLOSURE: The Contractor shall not include any reference to the Agreement or to services performed pursuant to the Agreement in any of the Contractor's advertising or public relations materials without first obtaining the written approval of the Manager. Any oral presentation or written materials related to services performed under the Agreement will be limited to services that have been accepted by the City. The Contractor shall notify the Manager in advance of the date and time of any presentation. Nothing in this provision precludes the transmittal of any information to City officials.

36. CITY EXECUTION OF AGREEMENT: The Agreement will not be effective or binding on the City until it has been fully executed by all required signatories of the City and County of Denver, and if required by Charter, approved by the City Council.

EXHIBIT A

EQUIPMENT PURCHASED

<u>Quantity</u>	<u>Item</u>	<u>Price</u>
1	NEW MODEL YEAR CARRIER LET2 CC W/HEIL DURAPACK 5000 REAR LOADER REFUSE BODY DIESEL	\$304,272.00
TOTAL PURCHASE AMOUNT:		<hr/> \$304,272.00

Specifications of equipment, training, and warranties to be provided by Contractor are set out on the attached pages, which together with this cover sheet constitute **Exhibit A**.

Warranties

Equipment - Notwithstanding anything else in this Agreement or Exhibit A to the contrary, any warranties on the Equipment are limited only to any printed Manufacturers' warranties provided by the applicable Equipment Manufacturer. "Manufacturer" means the entity or entities that manufactured the Equipment, it being understood by the City that Contractor is not a Manufacturer or agent of a Manufacturer. EXCEPT FOR ANY SUCH WARRANTIES MADE BY MANUFACTURERS', WHICH ARE NOT BEING DISCLAIMED HEREBY, THE EQUIPMENT IS SOLD WITHOUT ANY OTHER WARRANTIES OF THE CONTRACTOR, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS EXPRESSLY DISCLAIMED.

Services - Contractor warrants that all services performed by Contractor for the City in conjunction with the sale of the Equipment, including if applicable installation, upfitting and conversion services ("Services"), will be performed in a good and workmanlike manner ("Services Warranty"). The Services Warranty is valid for a period of ninety (90) days from the date the Equipment is delivered to the City or the City's agent. The City's sole and exclusive remedy, and Contractor's entire liability, under the Services Warranty is the repair of any nonconforming portion of the Services. CONTRACTOR PROVIDES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, CONCERNING ITS SERVICES. The Services Warranty is strictly limited to Services performed by Contractor for the City. Contractor does not warrant any services provided by any third-party, including but not limited to installation, upfitting or conversion services; warranties are solely those that are provided by the third-party service provider in such instances.



EQUIPMENT COMPANY INC.

DENVER
5200 Colorado Blvd.
Commerce City, CO 80022
Phone: 303-298-7370
Fax: 303-298-8527

BILLINGS
2107 Harnish Blvd.
Billings, MT 59101
Phone: 406-652-3975
Fax: 406-652-3744

GREAT FALLS
1610 River Drive North
Great Falls, MT 59401
Phone: 406-452-2757
Fax: 406-452-2799

DATE 04/22/19 PAGE 1
QUOTE 19-1223

SOLD TO:
C & C OF DENVER PUBLIC WORKS
ACCOUNTS PAYABLE
201 W. COLFAX AVE. DEPT.908
DENVER CO 80202-5328

SHIP TO:
C & C OF DENVER PUBLIC WORKS
MICHAEL ROMERO - SENIOR BUYER
201 W. COLFAX AVE. DEPT.908
DENVER CO 80202-5328

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE
SOURCE WELL	4375	DELIVERED	2	NET 10	720-913-8811

PART NUMBER	DESCRIPTION	QTY ORD	UOM	PRICE	EXTENDED
-------------	-------------	---------	-----	-------	----------

SOURCEWELL CONTRACT NUMBER 112014-THC

Dear Michael,
We are pleased to submit the following quotation for your consideration. The equipment we are providing is supplying the best possible solution to your equipment needs. We strive to give the highest quality of equipment so that your up time is maximized. Please review the quote and let us know if there is anything we can change for you. Thank you for working with Kois Brothers Equipment Company. We look forward to meeting your needs. This quote is good through July 1, 2019.

Thank You,

Ernest J Kois
Ernest J Kois

720-951-1370 cell



Awarded Contract

QTY	DESCRIPTION	UOM	PRICE	EXTENDED
1.00	CCC CABOVER LET2 CC *4 MAN CAB W/BELTS PER SPEC	EA	207,841.00	207,841.00
1.00	KBHE-1200030 FORMULA 5000 25 YD HIGH COMPACTION REAR LOADER	EA	77,910.00	77,910.00
-1.00	CONCESSION SOURCEWEL *GIVEN TO DENVER PURCHASING	EA	10,950.00	-10,950.00
1.00	STEEL SURCHARGE DUE *TO TARIFF ON IMPORTED STEEL	EA	0.00	0.00
1.00	LABOR FACTORY MOUNT OF PACKER	EA	0.00	0.00
1.00	KBHE-1200210 HOPPER FLOOR OVERLAY 3/16" 150,000 PSI RQC 321 094-1438	EA	1,555.00	1,555.00

*** CONTINUED NEXT PAGE ***

K O I S EQUIPMENT COMPANY INC.

BROTHERS

DENVER
5200 Colorado Blvd.
Commerce City, CO 80022
Phone: 303-298-7370
Fax: 303-298-8527

BILLINGS
2107 Hamish Blvd.
Billings, MT 59101
Phone: 406-652-3975
Fax: 406-652-3744

GREAT FALLS
1610 River Drive North
Great Falls, MT 59401
Phone: 406-452-2757
Fax: 406-452-2799

DATE 04/22/19 PAGE 2
QUOTE 19-1223

SOLD TO:

C & C OF DENVER PUBLIC WORKS
ACCOUNTS PAYABLE
201 W. COLFAX AVE. DEPT.908
DENVER CO 80202-5328

SHIP TO:

C & C OF DENVER PUBLIC WORKS
MICHAEL ROMERO - SENIOR BUYER
201 W. COLFAX AVE. DEPT.908
DENVER CO 80202-5328

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE	
SOURCE WELL	4375	DELIVERED	2	NET 10	720-913-8811	
PART NUMBER	DESCRIPTION	QTY	ORD	UOM	PRICE	EXTENDED
KBHE-1200185	SIDE ACCESS DOOR 112-5499	1.00		EA	540.00	540.00
KBHE-272-7979-011	*AUTOMATIC DOOR LOCKS REAR T.G.	1.00		EA	3,935.00	3,935.00
KBHE-070-1917	*KNARLED BOLT ON REAR HANDLES	1.00		EA	580.00	580.00
36"X18"X18" TOOLBOX	*STEEL BODY MOUNTED CURBSIDE	1.00		EA	790.00	790.00
KBHE-1200320	FRONT LIVE POWER PUMP SYSTEM WITH ELEC.OVERSPEED CONTROL	1.00		EA	7,115.00	7,115.00
HYDRAULIC FILTRATION	*PARKER FILTERS 100/10 WPF-7000	1.00		EA	750.00	750.00
PARKER HYDRAULIC	*TEST PORT MOUNT VALVE/TANK	1.00		EA	845.00	845.00
PARKER 1"ID FITTINGS	*KIDNEY OPERATIONS FILTER OIL	1.00		EA	645.00	645.00
BUZZER KIT LEFT/RIGH	*MOUNTED EACH SIDE OF HOPPER	1.00		EA	175.00	175.00
TRUCK-LITE WARRANTY	*LIFETIME 12VDC FIT N'FORGET	1.00		EA	630.00	630.00
BACK UP LIGHTS LED	*FLUSHED MOUNTED 44PN44206C	1.00		EA	520.00	520.00
TRUCK-LITE LED FULL	*SMART LIGHTING SYSTEM 2-2-2SEA	1.00		EA	1,035.00	1,035.00
SIGNAL STAT 623W	*WORK LIGHT HOPPER DASH MNT SWT	1.00		EA	485.00	485.00
KBHE-1200530	MUD FLAPS, ANTI-SAIL/SPLASH AHEAD OF REAR TIRES 272-3289 *** CONTINUED NEXT PAGE ***	1.00		EA	235.00	235.00

KOIS EQUIPMENT COMPANY INC.

BROTHERS

DENVER
 5200 Colorado Blvd.
 Commerce City, CO 80022
 Phone: 303-298-7370
 Fax: 303-298-8527

BILLINGS
 2107 Harnish Blvd.
 Billings, MT 59101
 Phone: 406-652-3975
 Fax: 406-652-3744

GREAT FALLS
 1610 River Drive North
 Great Falls, MT 59401
 Phone: 406-452-2757
 Fax: 406-452-2799

DATE 04/22/19 PAGE 1
*****QUOTE*** 19-1223**

SOLD TO:
 C & C OF DENVER PUBLIC WORKS
 ACCOUNTS PAYABLE
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

SHIP TO:
 C & C OF DENVER PUBLIC WORKS
 MICHAEL ROMERO - SENIOR BUYER
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE
SOURCE WELL	4375	DELIVERED	2	NET 10	720-913-8811

PART NUMBER	DESCRIPTION	QTY ORD	UOM	PRICE	EXTENDED
-------------	-------------	---------	-----	-------	----------

SOURCEWELL CONTRACT NUMBER 112014-THC

Dear Michael,
 We are pleased to submit the following quotation for your consideration. The equipment we are providing is supplying the best possible solution to your equipment needs. We strive to give the highest quality of equipment so that your up time is maximized. Please review the quote and let us know if there is anything we can change for you. Thank you for working with Kois Brothers Equipment Company. We look forward to meeting your needs.
 This quote is good through July 1, 2019.

Thank You,

Ernest J Kois
 Ernest J Kois

720-951-1370 cell



Awarded Contract

DESCRIPTION	QTY	UOM	PRICE	EXTENDED
CCC CABOVER LET2 CC *4 MAN CAB W/BELTS PER SPEC	1.00	EA	207,841.00	207,841.00
KBHE-1200030 FORMULA 5000 25 YD HIGH COMPACTION REAR LOADER	1.00	EA	77,910.00	77,910.00
CONCESSION SOURCEWEL *GIVEN TO DENVER PURCHASING	-1.00	EA	10,950.00	-10,950.00
STEEL SURCHARGE DUE *TO TARIFF ON IMPORTED STEEL	1.00	EA	0.00	0.00
LABOR FACTORY MOUNT OF PACKER	1.00	EA	0.00	0.00
KBHE-1200210 HOPPER FLOOR OVERLAY 3/16" 150,000 PSI RQC 321 094-1438	1.00	EA	1,555.00	1,555.00

*** CONTINUED NEXT PAGE ***



EQUIPMENT COMPANY INC.

DENVER
5200 Colorado Blvd.
Commerce City, CO 80022
Phone: 303-298-7370
Fax: 303-298-8527

BILLINGS
2107 Hamish Blvd.
Billings, MT 59101
Phone: 406-652-3975
Fax: 406-652-3744

GREAT FALLS
1610 River Drive North
Great Falls, MT 59401
Phone: 406-452-2757
Fax: 406-452-2799

DATE 04/22/19 PAGE 2
QUOTE 19-1223

SOLD TO:

C & C OF DENVER PUBLIC WORKS
ACCOUNTS PAYABLE
201 W. COLFAX AVE. DEPT.908
DENVER CO 80202-5328

SHIP TO:

C & C OF DENVER PUBLIC WORKS
MICHAEL ROMERO - SENIOR BUYER
201 W. COLFAX AVE. DEPT.908
DENVER CO 80202-5328

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE	
SOURCE WELL	4375	DELIVERED	2	NET 10	720-913-8811	
PART NUMBER	DESCRIPTION	QTY	ORD	UOM	PRICE	EXTENDED
KBHE-1200185	SIDE ACCESS DOOR 112-5499	1.00		EA	540.00	540.00
KBHE-272-7979-011	*AUTOMATIC DOOR LOCKS REAR T.G.	1.00		EA	3,935.00	3,935.00
KBHE-070-1917	*KNARLED BOLT ON REAR HANDLES	1.00		EA	580.00	580.00
36"X18"X18" TOOLBOX	*STEEL BODY MOUNTED CURBSIDE	1.00		EA	790.00	790.00
KBHE-1200320	FRONT LIVE POWER PUMP SYSTEM WITH ELEC.OVERSPEED CONTROL	1.00		EA	7,115.00	7,115.00
HYDRAULIC FILTRATION	*PARKER FILTERS 100/10 WPF-7000	1.00		EA	750.00	750.00
PARKER HYDRAULIC	*TEST PORT MOUNT VALVE/TANK	1.00		EA	845.00	845.00
PARKER 1"ID FITTINGS	*KIDNEY OPERATIONS FILTER OIL	1.00		EA	645.00	645.00
BUZZER KIT LEFT/RIGH	*MOUNTED EACH SIDE OF HOPPER	1.00		EA	175.00	175.00
TRUCK-LITE WARRANTY	*LIFETIME 12VDC FIT N'FORGET	1.00		EA	630.00	630.00
BACK UP LIGHTS LED	*FLUSHED MOUNTED 44PN44206C	1.00		EA	520.00	520.00
TRUCK-LITE LED FULL	*SMART LIGHTING SYSTEM 2-2-2SEA	1.00		EA	1,035.00	1,035.00
SIGNAL STAT 623W	*WORK LIGHT HOPPER DASH MNT SWT	1.00		EA	485.00	485.00
KBHE-1200530	MUD FLAPS, ANTI-SAIL/SPLASH AHEAD OF REAR TIRES 272-3289 *** CONTINUED NEXT PAGE ***	1.00		EA	235.00	235.00

K O I S EQUIPMENT COMPANY INC.

BROTHERS

DENVER
 5200 Colorado Blvd.
 Commerce City, CO 80022
 Phone: 303-298-7370
 Fax: 303-298-8527

BILLINGS
 2107 Harnish Blvd.
 Billings, MT 59101
 Phone: 406-652-3975
 Fax: 406-652-3744

GREAT FALLS
 1610 River Drive North
 Great Falls, MT 59401
 Phone: 406-452-2757
 Fax: 406-452-2799

DATE 04/22/19 PAGE 3
*****QUOTE*** 19-1223**

SOLD TO:
 C & C OF DENVER PUBLIC WORKS
 ACCOUNTS PAYABLE
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

SHIP TO:
 C & C OF DENVER PUBLIC WORKS
 MICHAEL ROMERO - SENIOR BUYER
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

=====

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE
SOURCE WELL	4375	DELIVERED	2	NET 10	720-913-8811

=====

PART NUMBER	DESCRIPTION	QTY	ORD	UOM	PRICE	EXTENDED
DOT - C2 TAPE	*NO. 108 CONSPICUITY TAPE BODY	1.00		EA	110.00	110.00
MAIN BODY COLOR	*SHITE IMRON 6000 & UNDERCOAT	1.00		EA	350.00	350.00
TWO TONE REAR	*TAILGATE SAFETY YELLOW PAINT	1.00		EA	1,535.00	1,535.00
FED 607101-02	*AMBER STROBES MOUNTED IN BOXES	4.00			321.25	1,285.00
LABOR INSTALL	INSTALLATION LABOR	1.00		EA	0.00	0.00
372-1158 SHOVEL/BROO	MOUNT THE STROBES IN UPPER PNL *MOUNT FRONT OF REAR LOAD BODY	1.00		EA	275.00	275.00
KBHE-1300495	DISPLAY SIGN FRAME 1/16" THICK 33" HIGH X 115" LONG	1.00		EA	2,085.00	2,085.00
LABOR INSTALL	INSTALLATION LABOR	1.00		EA	0.00	0.00
12000 LB DRUM WINCH	MOUNT & PAINT TOUCH UP SIGNS *HYDRAULIC DRIVEN HANDLES OPS	1.00		EA	6,010.00	6,010.00
DUAL CART TIPPER	*HANDLES VALVE EACH SIDE HOPPER	1.00		EA	0.00	0.00
PERKINS D6220 TIPPER	*CART TIPPER HYD HOOK INTO HNDL	2.00		EA	6,447.00	12,894.00
LABOR INSTALL	INSTALLATION LABOR	1.00		EA	0.00	0.00
4804C BRIGADE VIA	MOUNT TIPPERS INTO HYDRAULICS *4 CAMERA SYST ON CURRENT FLEET	1.00		EA	3,996.00	3,996.00
LABOR INSTALL	4 CAMERA SYSTEM SHOWING WHERE THE TRUCK IS AT ALL TIMES ON THE ROAD AND BACKING INTO LOCATIONS. INSTALLATION LABOR	1.00		EA	0.00	0.00
	MOUNT CAMERAS ON TRUCK					

*** CONTINUED NEXT PAGE ***

K O I S EQUIPMENT COMPANY INC.

BROTHERS

DENVER
 5200 Colorado Blvd.
 Commerce City, CO 80022
 Phone: 303-298-7370
 Fax: 303-298-8527

BILLINGS
 2107 Harnish Blvd.
 Billings, MT 59101
 Phone: 406-652-3975
 Fax: 406-652-3744

GREAT FALLS
 1610 River Drive North
 Great Falls, MT 59401
 Phone: 406-452-2757
 Fax: 406-452-2799

DATE 04/22/19 PAGE 3
*****QUOTE*** 19-1223**

SOLD TO:
 C & C OF DENVER PUBLIC WORKS
 ACCOUNTS PAYABLE
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

SHIP TO:
 C & C OF DENVER PUBLIC WORKS
 MICHAEL ROMERO - SENIOR BUYER
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

=====

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE
SOURCE WELL	4375	DELIVERED	2	NET 10	720-913-8811

=====

PART NUMBER	DESCRIPTION	QTY	ORD	UOM	PRICE	EXTENDED
DOT - C2 TAPE	*NO. 108 CONSPICUITY TAPE BODY	1.00		EA	110.00	110.00
MAIN BODY COLOR	*SHITE IMRON 6000 & UNDERCOAT	1.00		EA	350.00	350.00
TWO TONE REAR	*TAILGATE SAFETY YELLOW PAINT	1.00		EA	1,535.00	1,535.00
FED 607101-02	*AMBER STROBES MOUNTED IN BOXES	4.00			321.25	1,285.00
LABOR INSTALL	INSTALLATION LABOR	1.00		EA	0.00	0.00
372-1158 SHOVEL/BROO	MOUNT THE STROBES IN UPPER PNL *MOUNT FRONT OF REAR LOAD BODY	1.00		EA	275.00	275.00
KBHE-1300495	DISPLAY SIGN FRAME 1/16" THICK 33" HIGH X 115" LONG	1.00		EA	2,085.00	2,085.00
LABOR INSTALL	INSTALLATION LABOR	1.00		EA	0.00	0.00
12000 LB DRUM WINCH	MOUNT & PAINT TOUCH UP SIGNS *HYDRAULIC DRIVEN HANDLES OPS	1.00		EA	6,010.00	6,010.00
DUAL CART TIPPER	*HANDLES VALVE EACH SIDE HOPPER	1.00		EA	0.00	0.00
PERKINS D6220 TIPPER	*CART TIPPER HYD HOOK INTO HNDL	2.00		EA	6,447.00	12,894.00
LABOR INSTALL	INSTALLATION LABOR	1.00		EA	0.00	0.00
4804C BRIGADE VIA	MOUNT TIPPERS INTO HYDRAULICS *4 CAMERA SYST ON CURRENT FLEET	1.00		EA	3,996.00	3,996.00
LABOR INSTALL	4 CAMERA SYSTEM SHOWING WHERE THE TRUCK IS AT ALL TIMES ON THE ROAD AND BACKING INTO LOCATIONS. INSTALLATION LABOR	1.00		EA	0.00	0.00
	MOUNT CAMERAS ON TRUCK					

*** CONTINUED NEXT PAGE ***

KOIS EQUIPMENT COMPANY INC.

BROTHERS

DENVER
 5200 Colorado Blvd.
 Commerce City, CO 80022
 Phone: 303-298-7370
 Fax: 303-298-8527

BILLINGS
 2107 Harnish Blvd.
 Billings, MT 59101
 Phone: 406-652-3975
 Fax: 406-652-3744

GREAT FALLS
 1610 River Drive North
 Great Falls, MT 59401
 Phone: 406-452-2757
 Fax: 406-452-2799

DATE: 04/22/19
 PAGE: 4
 QUOTE 19-1223

SOLD TO:
 C & C OF DENVER PUBLIC WORKS
 ACCOUNTS PAYABLE
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

SHIP TO:
 C & C OF DENVER PUBLIC WORKS
 MICHAEL ROMERO - SENIOR BUYER
 201 W. COLFAX AVE. DEPT.908
 DENVER CO 80202-5328

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE
SOURCE WELL	4375	DELIVERED	2	NET 10	720-913-8811

PART NUMBER	DESCRIPTION	QTY	ORD	UOM	PRICE	EXTENDED

Awarded Contract



Awarded ontract

Contract #112014-THC

Sub Total	
Sales Tax	0.00
F.E.T.	0.00
Freight	0.00

THANK YOU FOR ALLOWING US TO QUOTE THESE ITEMS. YOUR COST IS

TOTAL

**Reference Nos/Original
Three Seat Rear Loaders/Revised 2019/Final**

**CITY AND COUNTY OF DENVER
Technical Specifications and Bid Items
For a
Refuse Truck 25 Yd³ Rear Loader**

1.0 General Description

A new current model year truck, cab over engine with low entry bench style three seat, cab forward design left hand drive. Powered by a turbo-charged diesel engine with charge air cooling, a 66,000 GVWR (plate certified) with 25-yard rear loader body. Collection operations shall be conducted in narrow City alleys with deep drainage transitions and steep angles at street intersections. The truck shall be suitable for a minimum of 8 years service by Solid Waste Management in loading of residential waste materials. The truck's rear loader body shall operate at maximum efficiency and speed when the truck engine is at "low idle" approximately 800-rpm or less, revving engine shall not increase speed /efficiency. The truck shall be fully equipped and road ready, easily capable of transporting over the road, into, trash transfer facilities or into landfills a fully packed minimum 25 yard load.

1.1 Standard Factory Equipment

All standard factory equipment shall be included with the vehicle/equipment; no deletions of standard factory equipment will be permitted unless specifically superseded in these specifications. Accessories not specifically mentioned herein but necessary to furnish a complete unit ready for use shall also be included.

1.2 Government Requirements (where applicable)

The vehicle/equipment shall be built to, and perform in accordance with, all the requirements of the latest edition of the following standards and specifications:

- FHWA, Federal Highway Administration
- SAE, Society of Automotive Engineers Specifications
- FMVSS, Federal Motor Vehicle Safety Standards
- DOT, Department of Transportation Regulations
- AWS, American Welding Society Standards
- PUC, Public Utilities Commission (Colorado)

1.3 Workmanship and Durability

Workmanship throughout the vehicle/equipment shall conform to the highest standards. Durability shall be sufficient to allow safe and efficient operation of the equipment/vehicle.

1.4 Completion of Bid Items and Alternates

Vendor shall complete each line item in "Offered Equipment" and "Cost" columns in the following manner:

- A. Provide vehicle/equipments technical information: in "Offered Equipment" provide technical information as requested and provide cost of item in "Cost" column.

- B. **Included Standard Equipment:** in "Offered Equipment" column provide technical information as requested for standard equipment in, "Cost" column write NC for "No Charge".
- C. **Differences:** in "RED" ink in "Offered Equipment" column adjacent to Description of Equipment provide information on the item being offered, in "Cost" column provide cost if there is a bid item cost.
- D. **Vendors shall break out and list costs for each specification section. Failure to break out proposed costs may cause proposal to be non-responsive.** Breakout costs will be used for comparisons clarifying cost issues and if deletions to the specifications need to be made.

1.5 Major Areas of Concern

	Description of Concern
A.	Left Side Operator Cab Area to include: <ol style="list-style-type: none"> 1. Visibility from the driver's seats (Blind Spots). 2. Steering wheel belly room. 3. Shoulder leg and hip room. 4. Head room. 5. Operator's vision. 6. Floor height and step distances. 7. Ergonomic layout of vehicle and rear loader body controls. 8. Ease and speed of operation of collection and packing functions.
B.	Operator/Passenger Seat Configuration <ol style="list-style-type: none"> 1. Street Side and Curbside captains seats with a two passenger bench-seat between Captains Seats
C.	Mirror width for use in obstructed areas to include: <ol style="list-style-type: none"> 1. Overall extended mirror width. 2. Minimum mirror width. 3. Ability for mirrors to be hit by obstructions (branches etc) and absorb the hit with out damage. 4. Ability for mirrors to be reset or adjusted into position without operator leaving operator's station.
D.	Warranty: <ol style="list-style-type: none"> 1. Ability and cost to obtain a 5-year warranty on cab and chassis. 2. Ability and cost to obtain a 5-year warranty on rear loader body, packer panel, hydraulic pump, motors cylinders and controls. 3. Location of warranty providers.
E.	Service Ability: <ol style="list-style-type: none"> 1. Ability to easily service cab and chassis items that require regular (yearly or less) servicing and maintenance 2. Ability to easily service rear loader body components/items that require regular (yearly or less) adjusting, servicing and maintenance.

2.0 Build Status of Vehicles:

2.1 Contractor and all sub vendors after receipt of the City's purchase order shall:

The primary Contractor (prime vendor) shall be responsible for providing within 15 business days to the City a "Preliminary Build Status Plan" to include but not limited to:



- A. The "Build Status Plan" shall include sufficient detail to assure that the ordered units will meet specifications and be built to the highest quality standards and be delivered on time.
- B. Placement date of initial order with the cab and chassis manufacture.
- C. Cab and chassis manufacturer's date of order acceptance. Written order confirmation is required.
- D. Placement date of initial order with the body manufacture.
- E. Body manufacturer's date of order acceptance. Written order confirmation is required.
- F. Build dates for all cab and chassis to include start date and completion date.
- G. Build dates for all bodies to include start date and completion date.
- H. Delivery date of the cab and chassis to the sub vendor's body manufacturer.
- I. Beginning and completion dates for installation of the body on each cab and chassis.
- J. Ship date for each completed vehicle (cab and chassis with body) from sub vendor's body manufacturer to Denver and which location shipped to.
- K. Contractor and sub vendors local vehicle preparation time.
- L. Delivery of a completed vehicle meeting specifications to the City.

2.2 The Contractor shall contact all sub vendors:

The Contractor shall contact all sub-contractors providing accessories and equipment for the vehicle (s) and provide the sub-contractors with the a list of all accessories and equipment, manufacturer's order confirmation, order number, vehicle specifications, build date and delivery date to dealer from the vehicle manufacturer on the ordered vehicle. It is the primary selling dealer's responsibility to assure that the sub-contractors orders the accessories and equipment and has the items in stock and is prepared to install the accessories and equipment items when the vehicle arrives at the dealership.

3.0 Basic Requirements, or approved equal.

When a brand/model is referenced in the specifications unless it is stated as "No Approved Equal" it is only a statement of expected quality, information on alternative products shall be provided with the bid so a full technical comparison can be made of the product submitted as an "approved equal".

3.1 Basic Vehicle

	Description of Equipment	Offered Equipment	Cost
A.	Cab over engine, 3-man cab design, cab forward tandem axle 1. Sit-down left side operator controls, 2. Tandem axle 66,000 lb. GVWR (plate certified), 3. Wheelbase approximate 210 inch. 4. Effective clean cab to axle approximately 156-inch. 5. After frame 60". 6. Front tire cut angle 50°. 7. Wall-to-wall turning diameter 71 ft. 8. Vendor shall verify wheelbase is appropriate for specified body	Make: <u>Crane Carrier</u> Model: <u>LET2 CC</u> Left Side: <u>Yes</u> No Rating: <u>66,000</u> lbs Wheelbase: <u>188</u> " C to A: <u>158</u> " A F: <u>60</u> " Cut Angle: Left <u>50</u> ° Right <u>50</u> ° Turn Dia. : <u>74</u> '	\$227,434.00
B.	The left side operator configuration is very important for operator		

	Description of Equipment	Offered Equipment	Cost
	comfort and efficiency. The operator position shall accommodate operators of various physical sizes providing good visibility, steering wheel/belly clearance, and shoulder width room. Also all the controls for operating the attached equipment shall be in an ergonomic layout/configuration that promotes minimal operator movement, operator comfort and operation efficiency.		
C.	Frame: 1. Rating 66,000-lbs. GVWR minimum, 2. Heavy-duty 120,000-psi full channel heat-treated steel, with main frame 2,086,000 in-lb. RBM and deep frame section 3,235,000 in-lb. minimum.	Frame Rating: <u>66,000</u> -lbs Yield Strength: <u>120,00</u> psi Section Modulus/rail: <u>28.08</u> in ³ Frame RBM/rail: <u>3,369,600</u> lbf-in	\$ <u>2,064</u>
D.	All components that require regular servicing shall be easy to access and be located as much as possible to protect the components from road splash. Access to rear engine mounts or transmission removal should not require the removal of electrical wiring, hydraulic hoses, air tanks or air dryers. Air dryer shall be easy and quick to access for servicing.	<input checked="" type="radio"/> Yes No	\$ <u>N/C</u>
E.	Towing Provisions: 1. Tow hooks, two front and two rear, frame mounted. 2. Air brake 3/8" female quick-connect hook up system on vehicle for wrecker air brake connection. Quick-connectors shall be accessible and protected but shall not stick out where they could get damaged. 3. A check valve shall be provided at the vehicles air tank to prevent air loss.	<input checked="" type="radio"/> Yes No Make: <u>Crane Carrier</u> Model: _____ <input checked="" type="radio"/> Yes No	\$ <u>748</u>
F.	Keying: 1. Keys keyed alike Ignition, Door, (same) and Toolboxes (same), 2 standard sets per vehicle. 2. Additional 5 key sets 3. If the City has similar make and model trucks in fleet the trucks shall be keyed the same as existing trucks.	Cost for 5 additional set of keys: \$ <u>55</u> <input checked="" type="radio"/> Yes No	\$ <u>NC</u> \$ <u>55</u> \$ <u>N/C</u>

3.2 Engine or "Approved Equal"

	Description of Equipment	Offered Equipment	Cost
A.	Engine: Cummins ISX-11.9 liter, VGT turbocharged diesel engine, rated at 330 hp @ 2,100 rpm, torque 1,350 lb/ft @ 1,200 rpm, 2,100 rpm governed includes: 1. Engine shall utilize DEF (diesel exhaust fluid) to meet current	Make: <u>Cummins</u> Model: <u>X12</u> HP: <u>350</u> @ <u>1700</u> rpm Torque: <u>1450</u> @ <u>1200</u> rpm Emissions Rating: <u>EPA 2017</u>	\$ <u>28,643</u>

	Description of Equipment	Offered Equipment	Cost
	<p>EPA regulations and reduce NOx</p> <p>2. Engines shall be electronically controlled with following components:</p> <ul style="list-style-type: none"> a. Engine protection system to monitor low oil pressure, high coolant temperature and low coolant level that will prevent component damage with manual over-ride on truck engine: b. Low oil pressure. c. High oil temperature. d. High coolant temperature. e. Low coolant level. f. High transmission oil temperature. g. Idle shutdown timer. h. Speed limiter top gear and cruise. i. Programmed to shut-down after 7 minutes of idle time and no ability for operator to override j. DEF Gauge Level <p>3. Computer controlled fast idle and PTO protection.</p> <p>4. Thermos bottle stopper-type dipstick.</p> <p>5. Magnetic drain plug.</p> <p>6. Delco-Remy 22-SI, 145 amp alternator.</p> <p>7. Delco-Remy 42 MT, 12v starter with over-crank protection.</p> <p>8. Brass Oil Sample Valve. Titan Lab part # 0D1014(no approved equal)</p>	<p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p>Make: <u>Delco Remy</u> Model: <u>24Si 160 amp</u></p> <p>Make: <u>Delco</u> Model: <u>42mt</u></p>	
B.	<p>Power Take Off (PTO)</p> <ul style="list-style-type: none"> 1. Front of engine mounted Chelsea 890 series with hydraulic pumps direct mounted to Chelsea 890 PTO. 2. PTO control electrically actuated from inside cab. 3. PTO speed limiter shall be connected to the engine computer not to an external overspeed box (EOS). 4. PTO shall efficiently operate all hydraulic systems at engine "low idle" 800 rpm or less. Increasing engine speed above 800 rpm shall not improve hydraulic operations except when ejecting the trash load. 	<p>Make: <u>Parker /Chelsea</u> Model: <u>Hel Specific</u></p> <p>Location: <u>Engine front mount</u></p> <p>See body spec for pricing</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p>PTO Idle rpm: <u>750</u></p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
C.	<p>Filtration:</p> <ul style="list-style-type: none"> 1. Oil: Fleetguard LF3000 full flow/bypass oil filter. 2. Fuel: Racor 690RP12 fuel/water separator with thermostatically controlled fuel line heater. 	<p>Make: <u>Luber finer</u> Model: <u>LF9001</u></p> <p>Make: <u>Cummins</u> Model: <u>N/A</u></p>	<p>\$ <u>1751</u></p> <p>\$ <u>N/C</u></p>
D.	<p>Engine Air Intake:</p> <ul style="list-style-type: none"> 1. The air intake shall be on the right side of the vehicle at cab 	<p><input checked="" type="radio"/> Yes No</p>	<p>\$ <u>N/C</u></p>



	Description of Equipment	Offered Equipment	Cost
	<p>height.</p> <p>2. The air intake shall be positioned so that it can not draw in exhaust gases.</p> <p>3. Air filter dual element dry type with air inlet restriction indicator located in cab</p>	<p><input checked="" type="radio"/> Yes No</p> <p>Make: <u>Parker</u> Model: <u>13" Steel Intake</u></p>	
E.	<p>Exhaust Meeting 2018 EPA Standards:</p> <p>1. Exhaust discharge shall be center back of cab.</p> <p>2. The exhaust after treatment device shall be horizontally mounted above the engine so as to not obstruct maintenance/repairs underneath the truck.</p> <p>3. Maximum exhaust system height shall not be higher than the highest point on the body or truck.</p> <p>4. Horizontal with a vertical chrome stack and stainless steel exhaust guard that will easily fit up to Denver's exhaust gas evacuation system.</p> <p>5. Exhaust discharge shall be above roofline and exhaust gases shall not discolor the body or be drawn into the operator's cab.</p> <p>6. Exhaust "90 degree chrome elbow" directed toward outside of body.</p>	<p>Trap Make: <u>Cummins</u> Model: <u>Single module</u></p> <p>Location: <u>Left hand side</u></p> <hr/> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p>	\$ <u>246</u>
F.	<p>Fuel Tank:</p> <p>1. Fuel tank 80 gallons minimum,</p> <p>2. The tank shall frame mounted on the right side of chassis to provide step and platform for accessing the body clean-out door.</p> <p>3. Fuel tank may be combined with body supplier's hydraulic tank.</p>	<p>Size: <u>80</u> gallons</p> <p>Location: <u>Right hand side</u></p>	\$ <u>93</u>
G.	<p>Diesel Enhancement Fluid Tank:</p> <p>1. Location behind fuel tank</p> <p>2. Size 6-gallons minimum</p> <p>3. Tank fill opening shall be easily identified as "DEF Fluid Only" and shall not accept the entrance of a standard diesel fuel nozzle.</p>	<p>Location: <u>Right hand side by fuel tank</u></p> <p>DEF Tank Volume: <u>10</u> gallons</p> <p><input checked="" type="radio"/> Yes No</p>	\$ <u>N/c</u>
H.	<p>Coolant Hoses:</p> <p>1. Gates Blue Stripe hoses</p> <p>2. With constant torque hose clamps.</p>	<p><u>Constant torque clamp</u></p>	\$ <u>N/C</u>
I.	<p>Fan:</p> <p>1. Fan clutch heavy-service-duty with automatic fan control.</p> <p>2. The fan shall operate off of engine coolant and transmission coolant temperature.</p>	<p>Make: <u>Crane carrier</u> Model: <u>Hydraulic remote fan</u></p> <p><u>Operates of coolant temperature</u></p>	\$ <u>725</u>
J.	<p>Air System:</p> <p>1. Air compressor Bendix 18.7-cfm Tu-Flo minimum</p> <p>2. Air tanks mounted horizontal inside frame.</p>	<p>Make: <u>Wabco</u> Model: <u>18.7</u></p> <p>Capacity: <u>18.7</u> cfm</p> <p>Location: <u>Mounted in frame rails</u></p>	\$ <u>N/C</u>

	Description of Equipment	Offered Equipment	Cost
	3. Air drain valves shall be ¼-turn brass with "Flag" style handle and air blast routed away from the person operating the valve. 4. The drain valves shall be installed under battery box, left side in an easy to access and operate position. 5. The valve bracket shall be permanently labeled (engraved): "Drain Air Tanks Daily" ½" font size "Air Valve 1" "Air Valve 2" "Air Valve 3" ¼" font size 6. Air lines shall be color-coded nylon type.	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>155</u>
K.	Cold weather starting aids on truck engine. 1. Block heater, Phillips "Zero-Start" 120vAC, 1500 Watt, engine coolant temperature controlled to: a. Turn "on" at 40°F engine coolant temperature. b. Turn "off" at 55°F engine coolant temperature. 2. The plug-in station shall have 2 LED indicator lights to: a. Light when plugged into "hot line" to show "hot line is energized." b. Light when engine coolant drops below 40°F. 3. Plug-in shall be mounted below driver's door, protected from mechanical and weather damage. Heater plug shall be a male standard grounded 15 amp rated plug. 4. A decal or information plate shall be provided describing how the system functions. The decal/plate shall be heavy-duty UV protected and capable of withstanding pressure washing and other normal vehicle functions. 5. Cold weather starting assist (no either allowed).	Make: <u>Phillips</u> Model: <u>ZeroStart</u> On Temperature: <u>40</u> Off Temperature: <u>55</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No Location: <u>Bumper mount</u> <input checked="" type="checkbox"/> Yes No Type: <u>Cummins cold ambient protection</u>	\$ <u>427</u> \$ <u>67</u> \$ <u>NC</u> \$ <u>NC</u> \$ <u>NC</u>

3.3 Transmission and Drivetrain

	Description of Equipment	Offered Equipment	Cost
A.	Transmission shall be an Allison New World HD4560P, wide ratio, 6-speeds with the following components: 1. Transmission and rear differential gearing shall be optimized for "Best" fuel economy, speed shall not be less than 60 mph. 2. The shift point calibrations both primary and secondary shall be factory S-1 set for reducing the shift point below maximum governed speed but the engine shall not drop below the peak torque point. On engines with 2,100 rpm full-load governed speed the shift point is reduced 200 rpm. For engines with higher or lower full-load governed speeds the shift point will need to be determined on a case-by-case basis.	Make: <u>Allison</u> Model: <u>4500 RDS-P</u> Speeds: <u>6</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>17,344</u> \$ <u>NC</u>



	Description of Equipment	Offered Equipment	Cost
	3. Transmission interface wiring for Allison MD/HD transmission. 4. Electric push-button transmission controls shall be located on the "dog house" not under the joystick armrest. Location to be mutually agreed upon. 5. TranSynd TES 295 automatic transmission fluid. 6. Deep pan transmission sump with "Gold Series" filter kit rated for severe duty of 75,000 miles or 36 months. 7. Transmission water-to-oil cooler. 8. Remote mounted transmission filter. 9. Magnetic drain plug.	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	
B.	Rear Axles: 1. Eaton single reduction, capacity 46,000-lbs. 2. Driver controlled main power divider locking differential. 3. Oil pump. 4. Axle temperature sensor. 5. Axle ratio for best fuel economy with an approximate 60-mph top speed. 6. Oil seals, Union 76 Triton EP 75W-90 synthetic gear lubricant. 7. Magnetic drain plug.	Make: <u>Dana</u> Model: <u>D46-160P</u> Gear ratio: <u>6.14</u> Top Speed: <u>63</u> mph level	\$ <u>1441</u>
C.	Front Axle: 1. Eaton, capacity 20,000-lbs. minimum with oil seals and Union 76 Triton EP 75W-90 synthetic gear lubricant.	Make: <u>Dana</u> Model: <u>D2000F</u> Capacity: <u>20,000</u>	\$ <u>NC</u>
D.	Springs: 1. Front leaf with graphite impregnated spring pin bushings. Front capacity 20,000-lbs. minimum. 2. Rear Hendrickson HMX-460 Haulmaxx varirate spring system. Rear: capacity 46,000-lbs. minimum.	Make: <u>Crane Carrier</u> Model: _____ Capacity: <u>20,000</u> - lbs Make: <u>Hendrickson</u> Model: <u>Haulmaxx</u> Capacity: <u>46000</u> - lbs	\$ <u>226</u> \$ <u>468</u>
E.	Brakes: 1. Bendix, 17" disc front, model ADB22x extended service brakes with non-asbestos brake pads. 2. Bendix, 17" disc rear, model ADB225 extended service brakes with non-asbestos brake pads. 3. High temp/Heavy Duty Brake pads installed upon delivery 4. Brake chambers type 2824, size 24 chamber.	Front Make: <u>Bendix</u> Model: <u>ADb-22x</u> Disc Size: <u>17</u> in Rear Make: <u>Bendix</u> Model: <u>ADB-22x</u> Front Chamber: <u>2824</u> Rear Chamber: <u>2824</u>	\$ <u>4896</u>
F.	Anti-Lock Brake System / Automatic Traction Control system: 1. Anti-Lock Brake System (ABS): Eaton 6S/6M with ATC, 6-channel with (6 sensors & 6 modulators) and 5-9 psi crack pressure relay valve. 2. Automatic Traction Control (ATC) shall work in conjunction with	Make: <u>Eaton</u> Model: <u>6s6m</u> <input checked="" type="checkbox"/> Yes No	\$ <u>1303</u> \$ <u>NC</u>

	Description of Equipment	Offered Equipment	Cost
	<p>the Eaton ABS brake system in low traction situations limiting torque to least loaded tire allowing most loaded tire to receive torque and pull the vehicle. The ATC system in conjunction with the Interaxle Driveline Lock shall provide traction control very similar to the Driver Controlled Differential Lock system.</p> <p>3. Interaxle Driveline Lock (IADL) to lock front and rear drive axles together. The interaxle differential lock shall be automatically locked via the ATC or manually locked by the driver. The IADL switch shall activate a flashing LED warning light.</p> <p>4. Air lines shall be color-coded nylon type.</p>	<p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p>	<p>\$ NC</p> <p>\$ NC</p>
G.	<p>Air Dryer, (No Approved Equals)</p> <p>1. Bendix AD-IP with heated steel reservoir, automatic moisture ejector and cable operated air tank drain valves accessible from outside of vehicle.</p> <p>2. Air dryer shall be installed on the outside of the frame rail in a location that is easy access and does not exceed 15-minutes to service unit.</p>	<p>Make: <u>Bendix</u> Model: <u>AD-IP</u></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>\$ <u>240</u></p> <p>\$ NC</p>
H.	<p>Driveline:</p> <p>1. Eaton Permalube type U-joints.</p>	<p>Make: <u>Spicer</u> Model: <u>SPL-170</u></p>	<p>\$ NC</p>
I.	<p>Power Steering:</p> <p>1. TRW with 2-qt. reservoir.</p>	<p>Make: <u>Sheppard</u> Model: <u>xd-120</u></p> <p>Reservoir Size: <u>16 qt</u></p>	<p>\$ _____</p>

3.4 Electrical System

	Description of Equipment	Offered Equipment	Cost
A.	<p>Alternator:</p> <p>1. Alternator shall be a heavy duty, internally regulated, output 160-amp minimum.</p>	<p>Make: <u>Delco</u> Model: <u>24SI</u></p> <p>Rating: <u>160</u> amps</p>	<p>\$ _____</p>
B.	<p>Batteries:</p> <p>A. Two or three Group 31 batteries with a total CCA of 1950 minimum.</p> <p>B. Battery location frame mounted left hand side.</p> <p>C. Battery shut-off switch easy to see and access.</p> <p>D. Jump start provision easy to access.</p> <p>E. Battery cables (00) stranded copper minimum.</p> <p>F. PulseTech XC-Parallel Charger P/N 100X013</p>	<p>Quantity: <u>3</u> CCA's: <u>2775</u></p> <p>Battery Location: <u>Left hand side</u></p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p>	<p>\$221</p>
C.	<p>Circuit Protection:</p> <p>1. Circuit breakers with manual reset, no fuses.</p> <p>2. Circuit breaker panel shall be easy to access.</p> <p>3. Circuit breaker panel shall be clearly labeled for easy identification.</p>	<p>Type Protection: <u>Circuit breakers</u></p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p>	<p>\$ NC</p>
D.	<p>Wiring:</p>		



	Description of Equipment	Offered Equipment	Cost
	1. Wiring shall be color coded with hot stamped wire numbers. 2. All wiring shall be run in sealed wiring looms to reduce corrosion from magnesium chloride products	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>NC</u>
E.	Body Builders Junction Box: 1. Body builder's junction box shall be mounted behind the cab 2. Terminal shall be marked for easy identification.	Location: <u>Located behind cab</u> Yes No	\$ <u>NC</u>
F.	Back Up Alarm: 1. Back up alarm 107 dB, SAE type B, fully sealed, back-up alarm system wired into vehicle's backup light system using OEM plug-in adapter. 2. The alarm shall be mounted out of the vehicle's rear wheel splash area.	dBa rating: <u>107</u> <input checked="" type="checkbox"/> Yes No	\$ <u>NC</u>
G.	Cab and Chassis Lights: 1. Halogen sealed beam headlights, 12v. 2. Daytime running lights. 3. Wiring shall be sealed modular plug-in type. 4. Marker lights LED type.	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No Make: <u>CCC</u> Model:	\$ <u>NC</u>

3.5 Cooling System

	Description of Equipment	Offered Equipment	Cost
A.	Cooling system with coolant recovery tank capable of maintaining engine manufacturer's recommended operating temperatures at an elevation of 6,800' in 120° F low humidity ambient conditions shall be provided.	<input checked="" type="checkbox"/> Yes No	\$ <u>575</u>
B.	Coolant protection shall be -34° F.	Provide specs: <u>-34 degree</u>	\$ <u>NC</u>
C.	Fleetguard coolant filter WF2071.	Provide specs: <u>Fleetguard WF2071</u>	\$ <u>257</u>

3.6 Tires and Wheels

	Description of Equipment	Offered Equipment	Cost
A.	Tires: 1. Tires: 315/80R22.5, tubeless, 20-ply, load range L. 2. Bridgestone M860A, Steer Tires. 3. Rear dual: Bridgestone M843, Traction Tread	M860 discontinued. Make: <u>Goodyear</u> Model: <u>WHA Duraseal</u> Make: <u>Bridgestone</u> Model: <u>m843</u>	\$ <u>688</u> \$ <u>7851</u>
B.	Wheels: 1. Disc, 10-hole, Hub piloted type, Single nut, Meets ISO Standard 4107.	Make: <u>Accuride</u> Model:	\$ <u>2165</u>



	2. Aluminum wheels all axle 3. Front 22.5" x 9" 4. Rear 22.5" x 9"	Yes No Size: 22.5 x 9 Size: 22.5 x 9	
C	Wheel offset shall limit tire exposure beyond/outside the refuse body. Tire exposure outside of body shall be no more than 2".	Yes No	

3.7 Interior

	Description of Equipment	Offered Equipment	Cost
A.	Left side operating controls: 1. Vehicle operation shall be only from left side of vehicle. 2. Driver's controls shall be ergonomically laid out for maximum driver efficiency in operating the rear loader collection body. 3. Since the vehicle will be used in rear loader trash collection with an "operate at idle" hydraulic system the transmission shifter location needs to be in a location the driver can easily access but not where it will be covered by the rear loader body's controls. With an "operate at idle" hydraulic system the driver will not be required to shift the vehicle into "neutral" at each collection and after collection back into "drive" to proceed to next stop. 4. Doors: a. Left and right doors shall be front hinged. b. Left and right doors shall have electric full roll up/down windows.	Yes No Yes No Yes No Yes No	\$ NC \$ NC \$ NC
B.	Driver Viewing Environment/Area: 1. Requested SAE J1750 and SAE J1050a "Target Evaluation" method operator view area information must be submitted with bid for evaluation. 2. Failure to submit the requested information may make bid non-responsive. 3. Vendor using the "Target Evaluation" method shall provide with bid, top view drawings with dimensions of the visibility values from the operator's seat at eye level for operators of the following percent quartile sizes: a. 5 th % male height 1554 mm or 61.18" b. 50 th % male height 1668 mm or 65.67" c. 95 th % male height 1783 mm or 70.20" 4. Drawings shall be on 11" x 17" paper ("B" size drawing paper) for easier reading. 5. Good operator exterior visibility is a major safety concern and increasing operator viewing area and eliminating "blind spots" is	Drawings Provided: Yes No Paper Size: _____ " X _____ "	\$ NC



	Description of Equipment	Offered Equipment	Cost
C.	<p>Seats: Drivers seats shall be:</p> <ol style="list-style-type: none"> 1. Left seat shall be air suspension Bostrom, high back driver's seat, gray vinyl with cloth insert and armrests. 2. Right seat shall be air suspension Bostrom, high back passenger seat, gray vinyl with cloth insert and armrests. 3. Cab configuration must seat three: 1 operator and 2 passengers 4. Seat Belts (all) shall be orange in color. 	<p>Make: <u>Sears</u> Model: <u>DLX adjustable Shock</u></p> <p>Make: <u>Sears</u> Model: <u>DLX adjustable shock</u></p>	<p>\$ <u>1500</u></p>
D.	<p>Required Submittals with Bid:</p> <ol style="list-style-type: none"> 1. Requested information must be submitted with bid for evaluation. Failure to submit the requested information may make bid non-responsive. 2. Vendor shall provide with bid, drawings with dimensions and photographs of the proposed cab interior for review. 3. Interior left side dimensions measured: <ol style="list-style-type: none"> a. Belly Room: seat back to steering wheel. b. Leg Room: seat front edge to brake pedal. c. Head Room: seat cushion to ceiling. d. Torso Room: Width from door to doghouse or other obstruction. e. Seat fore/aft travel: f. Seat height travel: g. Steering Wheel Knuckle Clearance: distance to closest object h. Floor Height: measured ground to cab floor. i. Cab Step Heights: measured from ground. j. Steering Wheel Tilt and Telescoping: 4. Location of the transmission shifter: should not be obstructed by automated barrel loader's joystick. 	<p>Provide Materials: _____</p> <p>Seat full forward: <u>17"</u> Seat full back: <u>23"</u></p> <p>Seat full forward: <u>19"</u> Seat full back: <u>25"</u></p> <p>Seat full lowered: <u>38"</u> Seat full raised: <u>32"</u></p> <p>Smallest measurement: <u>28"</u></p> <p>Travel: <u>6"</u></p> <p>Travel: <u>6"</u></p> <p>Clearance: <u>8"</u></p> <p>Height: <u>60"</u></p> <p>1st Step: <u>18"</u> 2nd Step: <u>12"</u></p> <p>Tilt: <u>N/A</u>° Telescoping distance: <u>N/A"</u></p>	
E.	<p>Engine Cover "Doghouse"</p> <ol style="list-style-type: none"> 1. The engine cover "doghouse" shall be recessed to accommodate the ergonomic positioning of the rear loader controls. 2. The vehicle manufacturer shall work with the body supplier to assure that the controls are the most ergonomic possible to assure operator comfort and reduce repetitive motion injuries. 3. The transmission shifter should be located in a location convenient to the operator but not directly adjacent to the driver's side. Since the vehicle has "operate at idle" hydraulic system the transmission does not require shifting into and out of "neutral" at each stop. 4. The City has operators of varying statures and adjustable controls 	<p><input checked="" type="checkbox"/> Yes No</p> <p><input checked="" type="checkbox"/> Yes No</p> <p><input checked="" type="checkbox"/> Yes No</p>	<p>\$ <u>NC</u></p>

	Description of Equipment	Offered Equipment	Cost
	will minimize on-the-job related physical problems. 5. The City, body vendor and the vehicle supplier shall mutually determine control locations after Contract award.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	
F.	Instrumentation: 1. Instrumentation shall include speedometer, engine hourmeter, tachometer, voltmeter, coolant temperature, oil temperature, oil pressure, fuel level and air pressure with low-pressure alarms (light, audible), DEF Fluid level.	<input checked="" type="radio"/> Yes No	\$ <u>NC</u>
G.	Steering: 1. Steering controls shall comfortably accommodate operators of various sizes, from short and small to tall and larger. 2. Steering tilt easy to adjust 3. Telescoping easy to adjust,	<input checked="" type="radio"/> Yes No Tilt: <input checked="" type="radio"/> Yes No Telescoping: <input checked="" type="radio"/> Yes No Travel In-Out: N/A in	\$ <u>NC</u> \$ <u>NC</u>
H.	Upfitter's Switch Panel: 1. The vehicle manufacturer shall provide for the rear loader body manufacture an upfitter's switch panel for automated body control switches. 2. The panel location shall be in an ergonomic location and shall not require more than 30° head movement and be within easy reach of driver's of various sizes and physiques. 3. The switch panel shall have permanently labeled and lighted rocker switches for all optional sundries equipment and lights etc.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>NC</u>
I.	Windshield Wipers: 1. Wipers 2-speed self parking. 2. Intermittent wiper mode.	Speeds: <u>2</u> <input checked="" type="radio"/> Yes No	\$ <u>NC</u>
J.	Floor Covering: 1. Floor covering shall be heavy-duty black rubber/vinyl flooring.	<input checked="" type="radio"/> Yes No	\$ <u>NC</u>
K.	Air Conditioning: 1. Factory installed cab R134A air conditioning 2. Cab shall be insulated to include floor, firewall, roof and walls.	Refrigerant Type: _____ <input checked="" type="radio"/> Yes No	\$ <u>NC</u>
L.	Radio: 1. Radio AM/FM stereo with two speakers.	<input checked="" type="radio"/> Yes No	\$ <u>NC</u>
M.	Grab handles: 1. One each on exterior of cab for operator and passenger assist and one interior for passenger. 2. Grab handles shall provide adequate clearance to other objects to provide easy access and clearance to prevent pinch or other	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>NC</u>



Description of Equipment	Offered Equipment	Cost
hazards.		

3.8

Exterior:

Description of Equipment	Offered Equipment	Cost
A. Vendor shall provide with bid drawings with dimensions and photographs of the proposed cab exterior including mirrors for review. Failure to submit the requested information may make bid non-responsive.	Provide Materials: _____ _____ _____	\$ <u>NC</u>
B. Cab Design: 1. Heavy-duty or severe-duty type with steel or aluminum body. 2. High visibility tilt forward design. 3. Front hinged doors. 4. Low floor cab over with steps mounted to body. 5. Maximum step height 15".	Body Rating: <u>Severe Service</u> Body Material: <u>Steel</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No Step Height: <u>18</u> in	\$ <u>6,001</u>
C. Front Bumper: 1. The front bumper shall be straight and fit as close to the front of the cab as possible with adequate reinforcing to not allow the bumper to be driven back into the cab with minor impacts. 2. The bumper shall be chrome	Bumper Type: <u>Steel</u> Reinforced on outside corners: <input checked="" type="checkbox"/> Yes No Bumper Finish: <u>Black Paint</u>	\$ <u>NC</u> \$ <u>NC</u>
D. Paint: 1. Polyurethane paint equal to DuPont Imron 5000, "Bright White", applied following manufacture's procedures to include: 2. Color top coat, 2 coats, applied to all non-stainless steel components following manufactures procedures. 3. Removing all mill scale and slag. 4. Variprime 615S self-etching primer or approved equal. 5. Treating bare metal with manufacturer's conditioners and conversion coatings or approved equal.	Make: <u>Dupont</u> Type: <u>Imron</u> Color: <u>Bright White</u>	\$ <u>NC</u>
E. Engine Accessibility: 1. Engine fully accessible and serviceable, 2. Cab shall tilt forward for access 3. Tilt shall be by easily operated momentary switch and 12v DC electric pump located on right side of vehicle.	<input checked="" type="checkbox"/> Yes No	\$ <u>NC</u>
F. Fire extinguisher: 1. Extinguisher ABC, 5-lb. dry type rechargeable 2. Installed on driver's side of refuge body with splash guard to prevent mud and debris from collecting in this area. 3. Location labeled with 1" letters on outside of the cab.	Type: <u>20lb bracket and cover provided by body manufacturer.</u> <input checked="" type="checkbox"/> Yes No	
G. Mirrors: "No Approved Equal"		

Description of Equipment	Offered Equipment	Cost
hazards.		

3.8 Exterior:

Description of Equipment	Offered Equipment	Cost
A. Vendor shall provide with bid drawings with dimensions and photographs of the proposed cab exterior including mirrors for review. Failure to submit the requested information may make bid non-responsive.	Provide Materials: _____ _____ _____	\$ _____
B. Cab Design: 1. Heavy-duty or severe-duty type with steel or aluminum body. 2. High visibility tilt forward design. 3. Front hinged doors. 4. Low floor cab over with steps mounted to body. 5. Maximum step height 15".	Body Rating: _____ Body Material: _____ Yes No Yes No Step Height: _____ in	\$ _____
C. Front Bumper: 1. The front bumper shall be straight and fit as close to the front of the cab as possible with adequate reinforcing to not allow the bumper to be driven back into the cab with minor impacts. 2. The bumper shall be chrome	Bumper Type: _____ Reinforced on outside corners: Yes No Bumper Finish: _____	\$ _____ \$ _____
D. Paint: 1. Polyurethane paint equal to DuPont Imron 5000, "Bright White", applied following manufacture's procedures to include: 2. Color top coat, 2 coats, applied to all non-stainless steel components following manufactures procedures. 3. Removing all mill scale and slag. 4. Variprime 615S self-etching primer or approved equal. 5. Treating bare metal with manufacturer's conditioners and conversion coatings or approved equal.	Make: _____ Type: _____ Color: _____	\$ _____
E. Engine Accessibility: 1. Engine fully accessible and serviceable, 2. Cab shall tilt forward for access 3. Tilt shall be by easily operated momentary switch and 12v DC electric pump located on right side of vehicle.	Yes No	\$ _____
F. Fire extinguisher: 1. Extinguisher ABC, 5-lb. dry type rechargeable 2. Installed on driver's side of refuge body with splash guard to prevent mud and debris from collecting in this area. 3. Location labeled with 1" letters on outside of the cab.	Type: ____ 20 lb. Bracket and Cover ____ Yes No	\$ 510.00
G. Mirrors: "No Approved Equal"		

Reference Nos: Revised 2019

14

Vendor/Sub Vendor: _____

K O I S 5200 COLORADO BLVD.
BROTHERS COMMERCE CITY, CO 80022
EQUIPMENT CO. 303-298-7370 FAX 298-8527

	<ol style="list-style-type: none"> 1. Rear view mirrors to be Moto Mirror Model 7-5400 "Flat Back Traditional" 7" x 16" motor head, remote, heated, stainless steel left and right, mounted on the cab. 2. Convex 8" stainless steel mirrors mounted under primary mirror 3. A right hand down mirror shall be provided to cover front and side blind spot for shorter drivers 	Make: <u>Crane Carrier</u> Model: <u>D package</u> Overall mirror full extended width: <u>102</u> inches Overall mirror width with left side mirror folded in: <u>98</u> inches Make: <u>Crane Carrier</u> Model: <u>Spot mirror</u>	\$ <u>896</u> \$ <u>188</u>
H.	Splash/Spray Suppression: <ol style="list-style-type: none"> 1. Spray suppression skirting, Fleet Engineering Inc. 4" brush filament P/N 997-70174, black polyethylene, (800.333.7890) 2. Local distributor: Fleetpride 7725 Dahlia St Commerce City CO (303.288.1166) 3. Skirting shall be installed on the front steer axle wheel housing to reduce road spray from being thrown up onto the truck's rearview mirrors. 	Brand: <u>Crane Carrier</u> P/N: <u>N/A</u> <input checked="" type="radio"/> Yes No	\$ <u>335</u>

VEHICLE SUB TOTAL COST

\$ 309,033

-101,192 discount

\$207,841 Vehicleprice

4.0 Dealer Provided Optional Equipment

4.1 Electrical Systems:

- A. All non-factory wire connections (splices, connectors, etc.) shall be soldered and shrink tube insulated with adhesive/melttable sealant, thick wall polyolefin shrink tubing (3M EPS-300 or equal). No non-factory crimp connections allowed. No cutting or splicing into the factory wiring harnesses allowed.
- B. All accessories (strobe lights, operator controls, light bar, etc.) shall be wired through a 12-vDC constant-duty solenoid and controlled by bus bar mounted and permanently labeled auto-resetting circuit breakers. The solenoid shall be wired to the key switch.
- C. All dealer/vendor installed items, which require connecting into the vehicle's electrical system shall be done using an OEM factory modified wiring kit whenever possible.
- D. All non-factory wiring shall be encased in a totally sealed wiring harness (no plastic split loom) to prevent corrosion from magnesium chloride. The wiring harness shall be well secured to the truck with neoprene aircraft stainless steel tubing clamps. Rubber grommets shall be used at all areas where the wiring passes through areas that could damage the wiring. Unprotected wiring in any application is unacceptable.
- E. Electrical cables and wiring harnesses shall be neatly run and clamped with neoprene aircraft stainless steel tubing clamps. Clamp spacing shall not exceed 18-inches.
- F. Dielectric grease shall be applied to all electrical plug terminals and connections to reduce corrosion.

4.2 Fasteners:

- A. Grade 5 (SAE or USS) or 8.8 (metric) minimum, bolts, nuts, washers minimum. Vendor shall use Grade 8 or 10.9 for all critical areas or where good engineering practice suggests.
- B. All fasteners shall be zinc plated to prevent corrosion.



- C. **Anti-Seize:** all fasteners shall have Fel Pro C5A Anti-Seize compound applied before assembly to prevent corrosion, rusting, galling and aid in equipment servicing and repair.
- D. All fasteners shall be of appropriate length, diameter and strength (grade) for the application,
- E. Bolts and screws shall extend a minimum of 1-1/2 threads beyond the nut and maximum of 6 threads past the nut.
- F. Flat washers shall be used under bolt heads and nuts.
- G. Lock nuts (nylon insert, metal, slotted, castle nuts) shall be used lock-washers are not acceptable.

4.3 Hydraulic Systems:

- A. All hydraulic circuits shall be pressure relief protected.
- B. Hydraulic hoses shall be Parker ST 451 (tight bend radius) 2-wire braid hose meeting SAE-100R17 specifications where the hose meets operational criteria or approved equal.
- C. Hydraulic hoses shall have swivel fittings on both ends. Hose ends shall be located to facilitate easy component replacement.
- D. High-pressure hydraulic hose shall not be used for suction lines.
- E. Close/tight radius 90° elbow fittings shall not be used if short, medium or long drop steel stem 90° elbow fittings can be used. Over use of 90° elbows shall not be permitted.
- F. Hydraulic hoses and rigid lines shall be run parallel where possible; routing shall look neat and well planned.
- G. Rubber cushioned metal hydraulic clamps shall be used on all hydraulic ridged lines and hoses at proper intervals for supporting the line/hose 36" maximum distance. Clamps shall be securely mounted to the equipment.
- H. Hydraulic hoses and lines shall not be routed near exhaust, close to rotating components or over, around or through sharp edges. Rubber grommets shall be used at all areas where the hydraulic lines through areas that could damage the lines.
- I. Galvanized fittings and thread tape shall not be used.
- J. Hydraulic hoses shall be covered with protective spiral nylon anti-chaffing wrap or sock type protective sleeves at all areas where chaffing/rubbing could cause premature wear/failure.
- K. Hydraulic oil tanks shall magnetic drain plug, oil level and temperature gauge.
- L. Hydraulic hoses over 4' long shall be labeled on both ends for easy identification.
- M. Shut off valves ¼-turn on each side of filter.

4.4 All fabricated parts, brackets etc. shall have all sharp corners, edges etc. radiused or rounded for safety.

4.5 Welds:

- A. All welds shall meet AWS (American Welding Society) standards for the type weld, material joined and welding method.
- B. Weld joints shall have proper design and fit for the application.
- C. Welds joints shall have proper penetration and be smooth in appearance with no undercuts or overlaps at edge of weld.
- D. Weld joints shall be properly prepared with cut ends ground to remove all slag, create a smooth surface and beveled end.

4.6 Rear Loader Body or (Approved Equal)

When a brand/model is referenced in the specifications unless it is stated as "No Approved Equal" It is only a statement of expected quality, information on alternative products shall be provided with the bid so a full technical comparison can be made of the product submitted as an "approved equal".

Description of Equipment	Offered Equipment	Cost
--------------------------	-------------------	------

	Description of Equipment	Offered Equipment	Cost
A.	Manufacturer Qualifications: 1. Units shall be completely assembled, mounted and ready for operation. Parts not detailed shall be constructed in accordance with the best standard practice of the industry at the time of construction. 2. Only new models in current production, which are catalogued by the manufacturer and for which printed literature and specifications are available, will be accepted. 3. The loader body shall be the product of a manufacturer actively engaged in the production of rear loading refuse collection vehicles of this size and capacity as specified. 4. The City will consider only those bidders who can demonstrate that a minimum of 100 units have been manufactured and have been in use for (1) year. 5. Name (s) of users and contact personnel shall be supplied with bid. 6. All accessories not specifically mentioned herein, but necessary to furnish a complete unit ready for use shall also be included.	Yes No Yes No Yes No Yes No Yes No Yes No	
B.	A current year, new rear loader refuse truck of at least 25 cubic yard capacity, Heil Dura-Pack 5000-25 heavy-duty commercial package or approved equal, installed with the following equipment:	Make: <u>Heil</u> Model: <u>Durapack 5000</u> Capacity: <u>25</u> yds ³	\$ <u>77,910.00</u>
C.	Vendor shall within 45 days of contract award submit drawings to the City showing the placement of all major components to include but not be limited to: front/rear bumpers, air filter, exhaust system with trap, air dryer, air tanks, fuel tank, battery box, daily fluid checks/fills, rear riding steps and hand holds, rear packer body controls, hydraulic tank, hydraulic valves, electrical junction box, access doors, tool holders etc.	Provide specs: _____ _____ <u>Meet</u> _____ _____ _____	
D.	The compactor body shall have: 1. Body capacity 25 cubic yards. 2. Capable of packing 1000-lbs. to 1200-lbs per cubic yard based on average household refuse. 3. Hopper cycle time 28-seconds. 4. Hopper capacity must be greater than 3.5 cubic yards. 5. Hopper loading height must not exceed 40" while using M843, traction tires. 6. Ejector panel shall fully travel full length of the body to completely eject the compacted load of refuse.	Capacity: <u>25</u> yds ³ Packed Capacity per Yard ³ : <u>1200</u> lbs Hopper Cycle Time: <u>24-28</u> Seconds Hopper Capacity: <u>3.94</u> yds ³ Hopper Loading Height: <u>-5"</u> Below chassis rail <u> </u> in Yes No	
E.	The compactor body shall be: 1. Installed with 7" clearance from the exhaust or air intake system. 2. Body width shall not exceed 96-inches.	Clearance: <u>7-9"</u> in Body Width: <u>96"</u> in	

	Description of Equipment	Offered Equipment	Cost
	4. Handles shall have durable deep knurled non-slip grip surface and powder epoxy painted "Safety Yellow". 5. Handles shall be easily replaceable bolt-on design with safety wired or tack welded to prevent loosening.	Yes No	
G.	Rear Riding Step: 1. Rear riding step, meeting American National Standard Z245.1-1999 shall be provided. 2. Width 8" x 36" long approximate extending to rear of hopper. 3. Material steel, open grate grip-strut material. 4. Rear riding step will not exceed 20" from ground using M843 Traction tires.	Yes No Size: 9.5" x 41" _____ in Make: HEIL _____ Model: GRIP STRUT _____ Height of Step: 14"-22" bolt adjustable _____	\$ _____
H.	Toolbox, 1. Mounted underneath right side body, 2. Size 36" long x 18" high x 18" deep. 3. The door shall be side-mounted bottom hinged. 4. The box shall have a flush mount latch/lock assemble.	Location: _____ Right Side of frame Size: 36"x18"x18" _____ Yes No Yes No	\$ 790.00 _____
I.	Hydraulic System: "Operate at Standard Low Idle". 1. Hydraulic pump(s) PTO "hot shift" driven through a Chelsea 890 series driven off front of engine (ETO). The gear pump(s) shall have an automatic pump oil bypass system in normal bypass mode when the hydraulic system is not engaged. 2. Hydraulic system shall be Parker Hannifin Corporation designed and certified and use as many as possible Parker components to assure compatibility of the system and 3 year Parker warranty for using a complete Parker system. 3. Hydraulic system shall operate all hydraulic functions at engine low idle speed (750 rpm) and shall not require shifting transmission out of "Drive" gear or applying "Parking" brake. System hydraulic pressure and flow shall not increase above low idle speed, which could encourage an operator to increase engine rpm to try to increase hydraulic performance. 4. Hydraulic pump performance, sufficient pressure and volume at low idle rpm to produce one cycle of the compactor blade at 75% load in less than 12-seconds. 5. Operating pressure, 2,500 psig maximum. 6. Hydraulic valves shall have LED lights on valve coils to aid in troubleshooting the system. 7. The hydraulic pump suction line shall be: a Steel tubing with hydraulic hose sections at both the pump and	Pump Make: _Heil_ Model: Parker made for Heil _____ Mounting Location: Front Engine Mount NO front bumper extension required with Crane Carrier Make: _Vane Style_ Model: Variable flow Pump Operating Speed: _750-900_ Max ___ rpm Pump Output: Variable ___gpm @ ___750___ rpm These pumps provide requested flow on demand, operating at engine idle speeds. Yes No Operating Pressure: _2450_ psi LED Coil Lights: Yes No Material: ___Yes LED Lights_____ Yes No	\$ 7,115.00 _____ \$ _____ \$ _____ \$ _____ \$ _____

	Description of Equipment	Offered Equipment	Cost
	<p>type connector.</p> <p>15. All hydraulic hoses and tubing shall be neatly routed, shielded and secured/supported to prevent chaffing under truck.</p> <p>16. All hydraulic hoses shall be Parker series ST 451 extra-high-abrasion resistant hoses to reduce hose failure from hose cover damage. Hydraulic hoses shall have swivel ends on each end.</p> <p>17. Pump protection, protected from 5-mph impact. Pump and protection shall not extend any more than 12" in front of the bumper. Bumpers shall be as close as practical at outer corners of the vehicle to reduce wall-to-wall turning diameter yet still offer good body protection.</p> <p>18. A hydraulic oil recirculation filter system connection system shall be provided with the following:</p> <p>a. The suction and return tubes shall be 1" ID and be installed in the tank top side on each tank end (cross flow) approximately 4" inside the end caps and extending to within 1/4" off the tank bottom at the lowest point.</p> <p>b. The hydraulic connections shall be 1" Parker FF male (flat face) fittings and orientated so they face to the inside (each other).</p> <p>c. The suction and return lines shall be 1" ID with a 60° cut on the bottom to assure adequate hydraulic oil flow.</p> <p>19. The suction and return lines shall be interchangeable in use so it does not matter which hydraulic tank fitting the filter system suction and return lines are connected to.</p>	<p>Yes No</p> <p>Tubing Size: _____ inches Distance of Tank Bottom: _____ inches</p> <p>Make: ___ Parker ___ Type: _____</p> <p>Yes No Yes No Yes No</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ 645.00__</p>
<p>J.</p>	<p>Electrical:</p> <p>1. All remote electrical inter face connections shall be terminated on stud-type terminal strips or with plug type connectors in a waterproof junction box.</p> <p>2. Connectors/wires shall be permanently and individually labeled.</p> <p>3. Electrical schematics shall be affixed inside the cover of the junction box.</p> <p>4. Dielectric grease shall be applied to all terminals and connectors to prevent corrosion if connector is not waterproof.</p>	<p>Yes No</p> <p>Yes No Yes No</p> <p>Yes No</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
<p>K.</p>	<p>Packer Controls:</p> <p>1. Located on forward street side of the body:</p> <p>a. Engine speed control.</p> <p>b. Tailgate lock/unlock control.</p> <p>c. Tailgate raise control.</p> <p>d. Ejection control.</p>	<p>Location: Forward Street Side _____</p> <p>Yes No Yes No Yes No Yes No</p>	<p>\$ _____</p> <p>\$ _____</p>

	Description of Equipment	Offered Equipment	Cost
	2. Packer controls located on curbside of body tailgate: a. Packer controls shall not interfere with rider and shall not pose a catching or snagging of loose clothing possibility. b. Packing control shall not interfere with rider. c. Buzzer driver signal, push button on each side of tailgate.	Yes No Yes No Yes No	\$ 175.00
L.	Vehicle Rear Lights: (No Approved Equals) 1. All lights shall be Truck-Lite "Lifetime Warranty" 12vDC, LED type, flush mount, sealed lexan body, grommet insulated with Fit' N Forget multi-pin plugs where possible. 2. Integral Stop/Turn/Tail/ lights mounted in the rear corner post of the dump body model Super 44 P/N 44302R or model 60 P/N 60250R. 3. Third Brake Light use the same used light used for Stop/Turn/Tail light and disable the Turn and Tail light sections. 4. Back up lights Truck-Lite LED, flush mount, sealed lexan body, grommet insulated, multi-pin units model 44 P/N 44206C. 5. Marker lights Truck-Lite LED 3 per side model 10 P/N 10250R or 10250Y or model 30 P/N 30250R or 30250Y. 6. Rear ID bar Truck-Lite LED model 35 P/N 35741R or 35740R. 7. License plate light, Truck-Lite model 15 P/N 15040 8. Light bar mounted above the hopper for maximum visibility shall contain 2 stop/turn, 2 tail lights, 2 clear seal beam utility lights (separate cab switch) and one license plate light. 9. Work lights Two (2) Hopper mount Signal-Stat 623W Halogen work lights with lighted on dash mounted control switch. 10. Wiring shall be sealed Fit' N Forget modular plug-in type where possible. 11. Lights shall not protrude into rear riders area or be below the hopper in an area 20" in from the outer hopper sides 12. Dielectric grease shall be applied to all plug connections and terminals to prevent corrosion.	Make: Truck-Lite _____ Model: _LED Style All____ Make: Truck-Lite _____ Model: 60250R. Make: Truck-Lite _____ Model: Stop/Turn/Tail LED Make: Truck-Lite _____ Model: _44206C.____ Make: _ Truck-Lite _____ Model: 30250R or 30250Y Make: Truck-Lite _____ Model: 35741R or 35740R Make: Truck-Lite _____ Model: 15040_____ Make: Signal-Stat _____ Model: _623W ____ Make: Fit' N Forget _____ Model: _____	\$ _630.00__ \$ _____ \$ _____ \$ _520.00__ \$ _____ \$ _____ \$ _1,035.00__ \$ _____ \$ _____ \$ _____
M.	Warning Alarm: 1. Audible when transmission is in reverse or tailgate of body is not fully lowered and locked. 2. 107 dB, SAE type B, fully sealed, back-up alarm system wired into vehicle's backup light system using OEM plug-in adapter. 3. The alarm shall be mounted out of the vehicle's rear wheel splash area.	Yes No dBa: __108dB_____ Yes No	\$ _ 55.00__
N.	Mud Flaps: 1. Mud flaps shall be heavy-duty anti-sail type	Yes No	\$ 235.00

	Description of Equipment	Offered Equipment	Cost
	2. Installed front and rear on rear wheels.	Yes No	
O.	Conspicuity Tape: 1. DOT-C2 Standard No. 108 reflective conspicuity tape. 2. Tape shall be on both lower sides and rear of the body. 3. Tape shall be applied in symmetrical pattern from middle of panel outward.	Brand: <u>3M</u> Type: <u>DOT-C2</u> Yes No Yes No	\$ <u>110.00</u>
P.	Paint Main Body: 1. Polyurethane paint equal to DuPont Imron 5000, Color "Bright White", 2 coats applied to all non-stainless steel components following manufactures procedures to include: 2. Preparation to include: 3. Removing all mill scale and slag. 4. Variprime 615S self-etching primer or approved equal. 5. Treating bare metal with manufacturer's conditioners and conversion coatings or approved equal. 6. Paint to be applied with all body members painted.	Make: <u>DuPont</u> Type: <u>Imron 6000</u> Color: <u>White</u> Yes No Yes No Yes No Yes No Yes No	\$ <u>350.00</u>
Q.	Special Tailgate Paint: 1. Polyurethane paint equal to DuPont Imron 5000,; a. Top 1/2 of tailgate "Bright White", b. Lower 1/2 of tailgate and packer panel solid "Safety Yellow" 2. Preparation to include: 3. Removing all mill scale and slag. 4. Variprime 615S self-etching primer or approved equal. 5. Treating bare metal with manufacturer's conditioners and conversion coatings or approved equal. 6. Paint to be applied with all body members painted.	Color: White Body _____ Color: Safety Yellow Lower 1/2 Tailgate _____ Yes No Yes No Yes No Yes No	\$ <u>\$1,535.00</u>

Packer Body Equipment SUB TOTAL COST

\$89,215.00

4.7 Sundries Equipment

When a brand/model is referenced in the specifications unless it is stated as "No Approved Equal" it is only a statement of expected quality, information on alternative products shall be provided with the bid so a full technical comparison can be made of the product submitted as an "approved equal".

	Description of Equipment	Offered Equipment	Cost
A.	Flashing Warning Light with brush guard: 1. Whelen IONSMC -Wide Angle LED color (Amber) safety lights (4 required), 2. The 4 strobe lights shall be vertically (2 per side) mounted in the	Make: Whelen _____ Model: IONSMC _____ Yes No	\$ <u>1,285.00</u>

Peration

rear body light bar panel.
 3. The power switch (switch body behind dash) shall be-mounted in an easy to access location. The control switch shall be installed in an easy to see and access position, but not in a location that interferes or could interfere with the driver or passenger during or while entering and exiting the vehicle.

Yes No

B. Driver Height Warning Sign
 1. Installed on truck dash providing the travel height of the vehicle.
 2. Sign shall be in 1" "white" block letters.

Yes No
 Yes No

\$_0

C. Tool holders,
 1. Three shovel/broom holders mounted on curb side of body.
 2. Location to be mutually agreed upon at installation.

Yes No
 Yes No

\$_275.00

D. Sign Boards, Two body mounted Roadway Displays Inc. (909.587.0207) mobile display systems shall be provided to include:
 1. Frame model SS315955 95-1/2" long x 31-1/2" high x 2-1/4" frame width with .025" aluminum backing.
 2. Frame material, 6463-T6 aluminum extrusions with satin anodize.
 3. Sign panel size 93-3/16" x 29-3/16" x .060" high impact styrene. View size 91" x 27".
 4. Sign frame shall be securely mounted to body yet be easy to remove and replace.

Brand: _Roadway Display, Inc.

\$_2,085.00

E. Tailgate winch
 1. 12,000-lb drum winch mounted in upper tailgate structure
 2. Hydraulically controlled with control lever at right rear of truck
 3. Hydraulic winch hydraulic circuit shall be integrated with the tailgate hydraulic circuit and must maintain pressure while operating each function simultaneously.
 4. Winch location must not interfere with CNG tanks or plumbing

Brand: _Hydraulic Heil

~~-\$6,010.00~~

Yes No

STRIKE

F. Tuck-Away Cart Tippers (2ea) one on each side of hopper
 1. Perkins Model # D6220

Brand: _Perkins 6220

~~-\$12,994.00~~

Sundries Equipment SUB TOTAL COST

~~-\$22,639.00~~

4.8 Complete Vehicle Sub Total Cost:

COMPLETE VEHICLE SUB TOTAL COST

\$330,305

4.9 Optional Equipment

\$329,695.00

Reference Nos: Revised 2019

24



Vendor/Sub Vendor:

KOIS 5200 COLORADO BLVD.
 BROTHERS COMMERCE CITY, CO 80022
 EQUIPMENT CO. 303-298-7370 FAX 298-8527

amc

Do not include Optional Equipment in the total price of the vehicle; however an equipment price must be provided. The City will determine if the equipment is to be purchased.

When a brand/model is referenced in the specifications unless it is stated as "No Approved Equal" it is only a statement of expected quality, information on alternative products shall be provided with the bid so a full technical comparison can be made of the product submitted as an "approved equal".

	Description of Equipment	Offered Equipment	Cost
A	<p>CNG Fuel System: Engine Option: 1. Cummins ISL-G, 8.9 liter, VGT turbocharged natural gas engine, rated at 320 hp @ 2,000 rpm, torque 1,000 lb/ft @ 1,300 rpm, 2,200 rpm governed 2. The CNG engine shall meet all required EPA on-highway emissions standards 3. Fuel Tank: a Fuel tank shall meet or exceed 1) NFPA 52 standards 2) US-DOT/FMVSS304 3) ISO 11439 b Tank Manufacturer c Tank Information 1) Tank Construction Type: composite 2) Service Life Years: 20 years 3) Recertification Period: 8 years 4) Type of Recertification Inspection Required 5) Tank Service Pressure Full: 3,600 psig @ 70°F (21°C) 6) Each CNG fuel tank shall have a 1/4-turn ball stainless steel shutoff valve mounted at the tank inlet. 4. Tank Installation Location: 1) The CNG tank mounting location shall be mutually agreed upon by the vendor and the City prior to the ordering of the cab and chassis. The vendor shall provide drawing of proposed CNG tank location(s). The locations shall not increase the truck wheelbase or the overall height of the truck and body 12' - 6" or body length over a regular non-CNG configuration: a) Tank Size: provide diameter x length b) Tank Weight each: Empty c) Quantity of Tanks for 75 gallon DGE</p>	<p>Make: Cummins Model: L9N HP: 320 @ 2,000 rpm Torque: 1000 @ 1300 rpm Yes No Yes No Yes No Make: _____ Model: _____ Material: _____ Service Life: _____ yrs Recertification: _____ yrs Inspection Type: _____ Service Pressure: _____ psig Yes No CNG Tank (s) Location: _____ _____ _____ _____ _____ Size: _____ dia x _____ long DEG Net _____ gal Tank Weight: _____ lbs # of Tanks: _____ DEG Net _____ gal</p>	<p>\$ 25,783.00 \$ _____ \$ _____ \$ _____ \$ _____ \$ _____ \$ _____</p>

Do not include Optional Equipment in the total price of the vehicle; however an equipment price must be provided. The City will determine if the equipment is to be purchased.

When a brand/model is referenced in the specifications unless it is stated as "No Approved Equal" it is only a statement of expected quality, information on alternative products shall be provided with the bid so a full technical comparison can be made of the product submitted as an "approved equal".

	Description of Equipment	Offered Equipment	Cost
A	<p>CNG Fuel System: Engine Option: 1. Cummins ISL-G, 8.9 liter, VGT turbocharged natural gas engine, rated at 320 hp @ 2,000 rpm, torque 1,000 lb/ft @ 1,300 rpm, 2,200 rpm governed 2. The CNG engine shall meet all required EPA on-highway emissions standards 3. Fuel Tank: a Fuel tank shall meet or exceed 1) NFPA 52 standards 2) US-DOT/FMVSS304 3) ISO 11439 b Tank Manufacturer c Tank Information 1) Tank Construction Type: composite 2) Service Life Years: 20 years 3) Recertification Period: 8 years 4) Type of Recertification Inspection Required 5) Tank Service Pressure Full: 3,600 psig @ 70°F (21°C) 6) Each CNG fuel tank shall have a ¼-turn ball stainless steel shutoff valve mounted at the tank inlet. 4. Tank Installation Location: 1) The CNG tank mounting location shall be mutually agreed upon by the vendor and the City prior to the ordering of the cab and chassis. The vendor shall provide drawing of proposed CNG tank location(s). The locations shall not increase the truck wheelbase or the overall height of the truck and body 12' – 6" or body length over a regular non-CNG configuration:</p> <p>a) Tank Size: provide diameter x length b) Tank Weight each: Empty c) Quantity of Tanks for 75 gallon DGE</p>	<p>Make: _____ Model: _____ HP: _____ @ _____ rpm Torque: _____ @ _____ rpm Yes No</p> <p>Yes No Yes No Yes No</p> <p>Make: <u>Lincoln Tanks</u> Model: _____</p> <p>Material: <u>Composite Wrap</u> Service Life: <u>15</u> yrs Recertification: <u>8</u> every ___ yrs Inspection Type: <u>Visual port</u> Service Pressure: <u>3600</u> psig Yes No</p> <p>CNG Tank (s) Location: _____ <u>Body Roof or Front of Cab. Customer choice before mounting</u></p> <hr/> <p>Size: _____ dia x _____ long DEG Net _____ gal Tank Weight: _____ lbs # of Tanks: _____ DEG Net <u>75</u> DGE _____ gal Weight all tanks and brackets etc: _____ lbs Weight All Tanks Full CNG: _____ lbs Enclosure Size: _____ x _____</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ <u>45,950.00</u></p> <p>_____</p>

<p>d) Weight All Tanks: Empty a) Weight All Tanks: Full CNG e) Tank Enclosure Width, Length, Height f) Tank Enclosure Material: Steel/Gauge</p> <p>d Tank Mounting: 1) End/dome/ boss, 2-piece saddle mounts on each tank end. The tanks shall be installed inside a steel tank mounting frame. The frame shall be 3" x 1 1/2" x 3/16" tubing. The frame shall be powder coat finished for durability. 2) CNG tank manufacturer 2-point band type CNG bracket with rubber cushion between tank and bracket to prevent slippage and eliminate chaffing, accommodate tank growth by changes in internal pressure.</p> <p>e The primary tank relief valve (PRD) shall be vented up and away from the vehicle and any ignition sources. The vent shall be protected from rain or vehicle wash water from entering the vent line. The vent line shall be 1/2" diameter minimum.</p> <p>5. CNG Pressure Reducing Regulator System: a The pressure reducing regulator system shall be mounted inside a protective steel enclosure no more than 6 ft from the CNG fuel tank. b From the CNG fuel tank to the regulator the tubing shall be 1/2" od x 0.049" wall 300 series stainless steel minimum. c The pressure reducing regulator system shall have 2 pressure gauges installed in the system. 1) High Pressure gauge 0-to-5,000 psi installed on tank side to show tank system pressure. 2) Low pressure gauge 0-to-250 psi to show engine downstream fuel delivery pressure to the engine. 3) Gauges shall be stainless steel glycerin filled. d The engine coolant flow to the pressure reducing regulator shall be minimum of 1 gallon/minute of 180°F coolant per 50 hp of engine output. For coolant flow the heat exchanger for the engine shall be rated at 450 hp to cover engine rating increases after the truck is delivered. e Engine coolant flow and CNG fuel supply shall enter the regulator on the same side of the regulator. f Coolant ports shall be oriented vertical (up) in horizontal</p>	<p>Material: _____ Gauge: _____</p> <p>Yes No</p> <p>Frame Size: _____ x _____ x _____</p> <p>Yes No</p> <p>PRD Pressure Release: _____ psig</p> <p>Yes No</p> <p>Tubing Size: _____</p> <p>Yes No</p> <p>Tubing Size: .5_ x _____ Type: Stainless__</p> <p>Pressure Range: _0_ to 6000_ psi</p> <p>Pressure Range: _0_ to _250_ psi</p> <p>Yes No Yes No</p> <p>Yes No</p> <p>Yes No</p> <p>Yes No</p>	<p>_____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
---	--	--

<p>regulators to prevent air from becoming trapped in the regulator.</p> <p>g The pressure reducing regulator shall not under any circumstance be installed in series with the truck cab heater system.</p> <p>6. Automatic Fuel Shut Off:</p> <p>a The automatic fuel shut off valve shall be plumbed directly to the exit/warm side of the engine coolant heated pressure reducing regulator.</p> <p>b The automatic fuel shut off valve shall have its weight supported by a mounting bracket.</p> <p>c The automatic fuel valve shall have a Cv of 2.0 minimum to assure adequate fuel flow.</p> <p>d The automatic fuel shut off shall be a NC (normally closed) valve when the ignition is in "Off" position.</p> <p>7. Fuel Lines:</p> <p>a All high pressure shall be 1/2" od x 0.049" wall stainless steel 316L tubing appropriate for the application.</p> <p>b Stainless steel lines shall have thermal expansion/contraction loops for smaller diameter lines and S-bend expansion joints for larger diameter lines.</p> <p>c All CNG lines shall be supported with stainless steel rubber bushed aircraft P-type clamps. The maximum distance between clamps shall no more than 24".</p> <p>d Fitting for the CNG fuel system shall be:</p> <ol style="list-style-type: none"> 1) Stainless steel tube fittings shall be Swagelok or Parker A-lok with thread sealant. 2) Special NPTF pipe fittings shall be stainless steel with thread sealant. <p>e All NPT fitting shall be installed on male pipe threads using proper thread sealants.</p> <ol style="list-style-type: none"> 1) Thread sealant and anti-seize shall be a nickel impregnated or nickel coated Teflon tape. 2) Teflon tape shall start at 2nd thread. 3) On 1/2" and under use 2 wraps of tape 4) On 5/8" to 1" use 3 wraps of tape. 5) Assure last section of tape is pulled down tight against the threads. 6) Do not use sealant on compression threads <p>f Post heat exchanger hoses and lines may be Parker 929</p>	<p>Yes No</p> <p>Yes No</p> <p>Valve Cv: <u>Agility</u></p> <p>Yes No</p> <p>Make: Agility_____ Type: _____</p> <p>Yes No</p> <p>Yes No</p> <p>Make: Agility_____ Type: _____</p> <p>Yes No</p> <p>Yes No</p> <p>Sealant Type: <u>NPT Sealant meeting CNG Standards</u></p> <p>Make: _____ Type: _____</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
--	---	---

<p>heavy-wall PTFE hose exceeding SAE100R14A or stainless steel tubing.</p> <p>8. Fuel Fill System:</p> <p>a The fuel receptacle and fuel fill system shall be rated for both "fast fill" and "slow fill" with a minimum ½" od x 0.049" wall 300 series stainless steel.</p> <p>b The fuel fill nozzle:</p> <p>1) Shall be a male NGV1 OPW with rubber protective cover boot</p> <p>2) Fuel Fill Locations(2/vehicle). One at front bumper driver's side and one at tank fill enclosure driver's side of the vehicle. Both fuel fill locations require ample clearance for both "fast fill" and "slow fill" receptacles and hook-up.</p> <p>3) The fuel filler line shall be plumbed to the CNG tank bank.</p> <p>4) Two required: one fuel fill receptacle at the left front bumper and one fuel fill receptacle in the tank fill enclosure.</p> <p>c The tank fill enclosure shall have:</p> <p>1) A high pressure line/tank pressure gauge 0-to-5,000 psi</p> <p>2) A low pressure fuel to engine pressure gauge 0-to-250 psi</p> <p>3) An OPW male NGV1 fuel fill receptacle with easy access and excellent clearance for both "fast fill" and "slow fill" receptacles.</p> <p>4) An emergency ¼-turn shut off valve for shutting down the system in case of a fuelling emergency.</p> <p>d The fuel fill access shall be easy to access and easy for the operator to see for fueling and to prevent drive-off with fuel hose attached.</p> <p>e The fill receptacle shall have an easy to remove/reinstall fuel fill cover to protect the fill port from contamination during truck operation.</p> <p>9. CNG Filtration:</p> <p>a High pressure, on the fuel tank(s) fill line to clean the CNG before it enters the fuel tank storage system.</p> <p>b Low Pressure, on the downstream "low pressure" post regulator engine delivery side. The "low pressure" filter shall be a Fleetguard spin-on NG5900 with liquid drain or approved equal.</p> <p>10. Fuel Gauge:</p> <p>a An electric fuel gauge shall be provided with easy to see</p>	<p>Yes No</p> <p>Tubing Size: <u>.5</u></p> <p>Make: NGV. Fill Location: Side & Front Bumper _____</p> <p>Yes No</p> <p>Pressure Range: _____ to _____ psi</p> <p>Pressure Range: _____ to _____ psi</p> <p>Yes No</p> <p>Yes No</p> <p>Yes No</p> <p>Make: Agility____ Model: _____</p> <p>Make: <u>Agility</u> _____ Model: _____</p> <p>Fuel Gauge Type: 0-4000 PSI _____</p> <p>Make: Agility _____ Model: _____</p> <p>Yes No</p> <p>Yes No</p> <p>Yes No</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
--	--	---

	<p>vehicle dash gauge to show fuel tank volume.</p> <p>b The fuel sender shall be a sealed unit mounted to the high-pressure tank system</p> <p>c A sealed 3-pin Weatherpak connector with a 1-amp fast blow automotive fuse shall connect the sender to the gauge.</p> <p>d Pins are: 1) Red = power 2) Green = signal 3) Black = ground</p>	<p>Yes No Yes No Yes No</p>	
B	<p>Cab Heater:</p> <p>1. The cabin heater shall be a Webasto Air Top 2000ST. 2. Heat Value 3,100 to 7,000 Btu/hour 3. Air Flow 37 cfm 4. Size: 12 ¼' x 4 ¾" x 5" approximate 5. Electrical 12vDC @1.2 amps 6. Diesel Fuel Usage 0.03 to 0.06 gallons/hour</p>	<p>Make: <u>Webasto</u> Model: <u>Airtop</u> Btu's: <u>3100-7000</u>hr Air Flow: <u>55</u> cfm Size: <u>12.25</u> x <u>4.78</u> x <u>4.85</u> Fuel Usage: <u>.03-.06</u> gal/hr</p>	\$ <u>3651</u>
C	<p>Hydraulic Oil and Engine Coolant Heater:</p> <p>1. Heater for hydraulic oil and engine coolant shall be a Webasto Thermo 90ST 2. Heat Value 6,100 to 26,000 Btu/hour 3. Water Flow 7.3 gallons/minute @ 2.2 psi 4. Size: 15 ¼" x 7 ½" x 14" approximate 5. Electrical 12vDC @ 3 amps 6. Diesel Fuel Usage 0.06 to 0.24gallons/hour 7. Hydraulic oil heater Arctic Fox H-4000 series maximum length for hydraulic tank. Baffle may need to have pass-thru opening</p>	<p>Make: <u>Webasto</u> Model: <u>Thermo pro</u> Btu's: _____/hr Water Flow: _____ gpm Size: _____ x _____ x _____ Fuel Usage: _____ gal/hr Make: _____ Model: _____ Length: _____</p>	\$ <u>5,688</u>
D	1.		
E	<p>Spare Tire and Wheel:</p> <p>1. Tire and wheel assembly: 1 per vehicle. 2. Tire: Michelin XZY-3, Steer Tire. 3. Aluminum</p>	<p>Make: <u>Michelin</u> Model: <u>xzy-3</u> Make: <u>Accuride</u> Model: _____</p>	\$ <u>2582</u>
F	<p>Remote High-Quality Color Safety 4 Camera System:</p> <p>1. Cameras (4 required) color, Brigade – BN360-100C, 360-degree camera kit system with camera view selection on the TV monitor face (No Approved Equal: a. Rear of vehicle mounted camera wired into vehicle reverse circuit to automatically turn on when vehicle is shifted into reverse: b. Front, rear, left and right side ultra-wide viewing camera system to serve as an auxiliary rear view mirror function (blind spot</p>	<p>Make: _____ Model: _____</p> <p>Yes No Camera Price Required Yes No Camera Price Required</p>	\$ _____

	<p>vehicle dash gauge to show fuel tank volume.</p> <p>b The fuel sender shall be a sealed unit mounted to the high-pressure tank system</p> <p>c A sealed 3-pin Weatherpak connector with a 1-amp fast blow automotive fuse shall connect the sender to the gauge.</p> <p>d Pins are: 1) Red = power 2) Green = signal 3) Black = ground</p>		
<p>B</p>	<p>Cab Heater:</p> <ol style="list-style-type: none"> The cabin heater shall be a Webasto Air Top 2000ST. Heat Value 3,100 to 7,000 Btu/hour Air Flow 37 cfm Size: 12 1/4" x 4 3/4" x 5" approximate Electrical 12vDC @1.2 amps Diesel Fuel Usage 0.03 to 0.06 gallons/hour 	<p>Make: _____ Model: _____</p> <p>Btu's: _____/hr</p> <p>Air Flow: _____ cfm</p> <p>Size: _____ x _____ x _____</p> <p>Fuel Usage: _____ gal/hr</p>	<p>\$ _____</p>
<p>C</p>	<p>Hydraulic Oil and Engine Coolant Heater:</p> <ol style="list-style-type: none"> Heater for hydraulic oil and engine coolant shall be a Wabasto Thermo 90ST Heat Value 6,100 to 26,000 Btu/hour Water Flow 7.3 gallons/minute @ 2.2 psi Size: 15 3/4" x 7 1/2" x 14" approximate Electrical 12vDC @ 3 amps Diesel Fuel Usage 0.06 to 0.24gallons/hour Hydraulic oil heater Arctic Fox H-4000 series maximum length for hydraulic tank. Baffle may need to have pass-thru opening 	<p>Make: _____ Model: _____</p> <p>Btu's: _____/hr</p> <p>Water Flow: _____ gpm</p> <p>Size: _____ x _____ x _____</p> <p>Fuel Usage: _____ gal/hr</p> <p>Make: _____ Model: _____</p> <p>Length: _____</p>	<p>\$ _____</p>
<p>D</p>	<p>1.</p>		
<p>E</p>	<p>Spare Tire and Wheel:</p> <ol style="list-style-type: none"> Tire and wheel assembly: 1 per vehicle. Tire: Michelin XZY-3, Steer Tire. Aluminum 	<p>Make: _____ Model: _____</p> <p>Make: _____ Model: _____</p>	<p>\$ _____</p>
<p>F</p>	<p>Remote High-Quality Color Safety 4 Camera System:</p> <ol style="list-style-type: none"> Cameras (4 required) color, Brigade – BN360-100C, 360-degree camera kit system with camera view selection on the TV monitor face (No Approved Equal: <ol style="list-style-type: none"> Rear of vehicle mounted camera wired into vehicle reverse circuit to automatically turn on when vehicle is shifted into reverse: Front, rear, left and right side ultra-wide viewing camera system to serve as an auxiliary rear view mirror function (blind spot 	<p>Make: Brigade _____ Model: BN-360-100C _____</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Camera Price Required</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Camera Price Required</p>	<p>\$ 5850.00 \$ 3,996.00 SPK</p>

<p>view) to augment the rear-view mirrors. The cameras shall be normally ON viewing all sides of the vehicle including blind spot. It shall automatically switch to rear of vehicle view when the transmission reverse gear function is activated. An override to keep the left side camera on shall be provided for special situation use. Camera shall be as small as possible and protected from tree branch damage.</p> <p>c. No hopper camera in this unit</p> <p>2. Camera color Brigade – BN360-100C with automatic shutter (2) required:</p> <p>a. Camera shall be in water proof cast aluminum housing. Housing shall be able to be pressure washed when washing vehicle.</p> <p>b. Camera shall have built in safety audio system that will pick up and broad cast normal conversation to monitor.</p> <p>c. Camera shall be automatically heated for cold weather operation.</p> <p>d. Resolution 380 TV lines horizontal.</p> <p>e. Signal to noise ratio 44dB minimum.</p> <p>3. Monitor LCD, 7" flat screen, Zone Defense with:</p> <p>a. Monitor shall be in a very easy to see location that requires as little as possible head movement and also with a little as possible front windshield obstruction. The monitor location shall be mutually agreed upon.</p> <p>b. Camera view selection switches on the TV monitor.</p> <p>c. Day night sensor</p> <p>d. Resolution 270,000 pixels or better.</p> <p>e. Picture control to include brightness, contrast and image.</p> <p>f. Speaker system to broadcast sound from camera.</p> <p>g. Picture shall be crisp and clear at all times.</p> <p>h. Anti-glare sun shield and hood.</p> <p>i. Swivel mounting bracket.</p> <p>j. Dimmer switch to adjust for day and night viewing.</p> <p>k. Monitor capable of accommodating 360 degree, 5 camera system</p> <p>4. All wiring shall be totally sealed with sealed locking connections to prevent corrosion.</p> <p>5. All wiring shall be routed to prevent damage to the wiring.</p> <p>6. Warranty 2 years with repairs done by replacement of failed components notification shipped UPS "Next Day" upon notification</p>	<p>Make: <u>BN360-100</u> Model: _____</p> <p>Quantity: <u>2</u></p> <p>Yes No</p> <p>Yes No</p> <p>Resolution: _____ lines</p> <p>Make: _____ Model: _____</p> <p>Yes No</p> <p>Yes No</p> <p>Yes No</p> <p>Yes No</p> <p>Yes No</p> <p>Yes No</p> <p>Make: _____ Model: _____</p> <p>Yes No</p>	<p>_____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
--	---	--

	<p>of problem. 7. Five-year warranty</p>	<p>Yes No Yes No Yes No Yes No Warranty: <u>3</u> years Yes No</p>	<p>\$ _____</p>
<p>G 1.</p>			
	<p>H Inspection Trip: 1. The City and County of Denver reserves the right to inspect at the body fabricating plant the first (1st) article prior to paint and delivery. 2. Where the fabricating plant is located further than 200 road-miles from the City and County of Denver, the bidder shall include in the bid price all travel expenses to the fabrication plant for the inspection. 3. The City may select to send from 2 representatives to inspect the 1st article. The provided costs shall be based on one (1) person per day and the City will determine how many representatives the inspection will require and how many days the inspection will require. 4. Inspection Trip Costs to include: a. Air fare per person: b. Surface transportation costs: c. Lodging per person per day: d. Meals per person per day: 5. Total cost per person for 1st article inspection trip:</p>	<p>Provide information: Distance to fabrication plant: 1326 ___ miles Plant Location: ___ Fort Payne AL ___ Air Fare: \$ <u>450</u> , Airline: ___ United ___ Surface Transportation: \$ <u>250</u> , Mode: ___ Rental ___ Lodging / day: \$ <u>125.00</u> , Hotel: ___ IHG or Hampton ___ Meals / day: \$35</p>	<p>\$ <u>450.00</u> ___ \$ <u>250.00</u> ___ \$ <u>145.00</u> ___ \$ <u>70.00</u> ___ \$ <u>915.00</u> ea.</p>

5.0 **Manuals/Equipment**

Item	Description of Equipment	Offered Equipment	Cost
<p>Training Tape</p>	<p>One DVD or CD demonstrating and explaining the safe and proper use of the vehicle/equipment. 1. Cab and chassis. 2. Equipment and Body.</p>	<p>Yes No Yes No</p>	<p>\$ _____ \$ _____</p>
<p>Operators Manual</p>	<p>One per vehicle/equipment with "safe equipment operation" section for each component.</p>	<p>_____</p>	<p>\$ _____</p>

	<p>of problem.</p> <p>7. Five-year warranty</p>	<p>Yes No</p> <p>Yes No</p> <p>Yes No</p> <p>Warranty: _____ years</p> <p>Yes No</p>	<p>\$ _____</p>
G	1.		
H	<p>Inspection Trip:</p> <p>1. The City and County of Denver reserves the right to inspect at the body fabricating plant the first (1st) article prior to paint and delivery.</p> <p>2. Where the fabricating plant is located further than 200 road-miles from the City and County of Denver, the bidder shall include in the bid price all travel expenses to the fabrication plant for the inspection.</p> <p>3. The City may select to send from 2 representatives to inspect the 1st article. The provided costs shall be based on one (1) person per day and the City will determine how many representatives the inspection will require and how many days the inspection will require.</p> <p>4. Inspection Trip Costs to include:</p> <p>a. Air fare per person:</p> <p>b. Surface transportation costs:</p> <p>c. Lodging per person per day:</p> <p>d. Meals per person per day:</p> <p>5. Total cost per person for 1st article inspection trip:</p>	<p>Provide information:</p> <p>Distance to fabrication plant: _____ miles</p> <p>Plant Location: _____</p> <p>Air Fare: \$ _____, Airline: _____</p> <p>Surface Transportation: \$ _____, Mode: _____</p> <p>Lodging / day: \$ _____</p> <p>Hotel: _____</p> <p>Meals / day: \$ _____</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>

5.0 Manuals/Equipment

Item	Description of Equipment	Offered Equipment	Cost
Training Tape	<p>One DVD or CD demonstrating and explaining the safe and proper use of the vehicle/equipment.</p> <p>1. Cab and chassis.</p> <p>2. Equipment and Body.</p>	<p><input checked="" type="checkbox"/> Yes No</p> <p><input checked="" type="checkbox"/> Yes No</p>	<p>\$ NC</p> <p>\$ NC</p>
Operators Manual	<p>One per vehicle/equipment with "safe equipment operation" section for each component.</p> <p>1. Cab and chassis.</p>	<p>_____</p> <p>_____</p>	<p>\$ NC</p>

	2. Equipment and Body.		
Service/ Maintenance Manual	Two complete sets per Contract (not per vehicle); binder required, Shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments.		\$ NC
Service/ Maintenance Manual on CD rom or DVD	One complete set; per Contract (not per vehicle) 1. Manuals shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments. 2. The hydraulic and electrical sections of the manuals shall be provided in a separate electrical/hydraulic binder. Both the hydraulic and electrical circuits shall have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.		\$ NC
Parts Manual	Two complete sets, per Contract (not per vehicle) binders required, illustrated parts book shall be furnished containing data so that part numbers can be readily found for each system.		\$ NC
Parts Manual on CD rom or DVD	One complete set, per Contract (not per vehicle) illustrated parts book shall be furnished containing data so that part numbers can be readily found for each system.		\$ NC
New Equipment Check-in Form:	The successful vendor shall complete the City's "New Equipment Check-in Form" completely and accurately with all requested information.		\$ NC

5.1 Operator and Mechanics Training

Item	Description of Equipment	Offered Equipment	Cost
On Site Equipment Manufacturers Training	On site the vendor shall insure that the equipment manufacturers training representative, after delivery of the equipment Contacts Fleet Maintenances training manager to coordinate equipment training.		\$ NC
Fleet Maintenance	Charlie Pletcher,		

Training Manager	Telephone: 720.865.3951 Contact time: 8:00 am to 3:00 pm M-F		
Training Requirements	Training shall consist of factory training materials, classroom and actual field training on the equipment for the equipment operators and supervisors.		\$ _____
On Site Mechanics Training	On site mechanics training shall be 2 classes, approximately 8 hours, 2 shifts total provided at City facilities. The training shall cover maintenance and service procedures, trouble shooting and use of manuals.		\$ 2150 Chassis \$1850 Heil Training

6.0 Repair Parts Delivery

Repair Parts Delivery		Complies (Y or N/A)
A.	Prime Vendor is to indicate current Master Purchase Order (MPO) agreement(s) in place with the City. (Example 06670108) If no agreement exists, is your company willing to enter into a long-term MPO in order to supply parts and components for the equipment and manufactures proposed herein? YES or NO	Y
B.	Sub-Vendor is to indicate current Master Purchase Order(MPO) agreement(s) in the City. (Example 0298A0609) If no agreement exists, is your company willing to enter into a long-term MPO in order to supply parts and components for the equipment and manufactures proposed herein? YES or NO	Y

6.1 Warranty Requirement

TABLE 1

WARRANTY (CLASS 7 THROUGH CLASS 8 VEHICLES)		Complies (Y or N/A)
C.	Express warranty is to be a minimum of twelve (12) months on the vehicle/equipment. The standard factory warranty plan shall be provided as an attachment to your bid proposal	Y
D.	The Warranty is to include, at no cost to the City of Denver, all parts and labor, and no charge for work performed at the vendors facility	Y
E.	Warranty shall start when the City places the vehicle into service NOT on the delivery date. Taking an exception may make bid non compliant.	Y
F.	Warranty plans shall consist of the total unit and be broken out to a separate plan for each warranty item if applicable, such as engine warranty plan, transmission warranty plan, electrical, etc	Y
G.	Options listed shall be bid and provided as factory installed under the terms of the full factory-backed warranty. This includes, but is not limited to: air conditioning, radios, cruise control, bumpers, towing packages etc. Dealer-installed options will not be	Y

	permitted unless pre-approved by the City in writing and, where applicable, indicated on bid sheet as a "dealer installed" non-factory item.	
H.	Bidder will be responsible for warranty repair of all installed options/auxiliary equipment included in the bid that has a standard warranty that is less than the standard warranty for the base vehicle/equipment	Y
I.	Bidder shall use a single, local factory authorized dealership that will accomplish or coordinate required warranty work. The dealership must have a minimum of 1-year experience as a factory authorized vendor for like equipment being bid. Warranty parts shall be available and supplied within 24 hours	Y
J.	If applicable, bidder shall provide a plan for the City to be reimbursed if the work can be done by the City on site. The current shop rate is \$79.00/hour, not to exceed \$85.00/hour. (Enter a response of N/A if not available)	Y
K.	The bidder shall respond to request for warranty assistance within twenty-four (24) hours.	Y
L.	Warranty work shall be accomplished within an appropriate length of time (generally less than 3 working days for everything other than major component repair such as a transmission rebuild) and shall be coordinated with an authorized City representative	Y
M.	During the entire warranty period, if the unit requires transportation to a repair facility, the vendor/sub-vendors shall be responsible for all transportation at "NO COST" to the City and County of Denver. This includes transporting the unit back to the City's domicile location after repairs are complete. If an alternate is bid, charges to the City of Denver shall be listed (e.g. mileage, travel, labor, etc.). Even if an alternate is bid, in NO CIRCUMSTANCES will the City and County of Denver be responsible for transporting a unit greater than 25 miles from the center of Denver. For purposes of these warranty provisions, the center of Denver is defined as the City and County Building located on the corner of Colfax and Bannock Street.	Y
N.	The item(s) procured by the City pursuant to this Bid Proposal shall, in addition to being subject to the express warranties referenced above, be subject to all implied warranties arising by operation of law under State of Colorado and federal law, including but not limited to the implied warranty of merchantability and, to the extent applicable, the implied warranty of fitness for a particular purpose arising under the Colorado Uniform Commercial Code, Title 4, Colorado Revised Statutes. The bidder shall in no event attempt to limit or disclaim any of such implied warranties under this Bid Proposal, and any attempt to do so will render the bidder's bid non-responsive under this Bid Proposal.	Y
O.	This warranty in Table 1 and Table 2, is IN ADDITION to factory warranties on the vehicle and components	

6.2 Fleet Defects and Lemon Clause:

TABLE 2

WARRANTY - (Table 2) Fleet Defect Clause, Class 7 & 8 Vehicles	
A.	1. After 24 hours/3 days of consecutive "lost service" of the vehicle/unit due to warranty problems the warranty period shall be extended by the length of lost service time due to warranty problems.
B.	Definition: If during the warranty period, thirty percent (30%) of the total number of units delivered have the same part(s) and/or components failure requiring replacement and/or modifications, caused by defects in Design, Testing, Material, and/or Workmanship, then this "Fleet Defect Clause" goes into effect.
C.	Remedy: Following notification of a Fleet Defect, the vendor shall develop and implement a plan that either reengineers, modifies, or replaces the defective parts/ systems, such that the identified problem is cured and the operation of the vehicle/equipment is not altered. When alterations



	are required to cure the defect, those alterations that change or modify the original bid specifications must be approved by the City and County of Denver prior to execution. The vendor will pay for all necessary labor and materials to repair, modify, and/or "update" all vehicles/units in this group. The vendor shall also propose a work schedule that is mutually agreed upon by the City of Denver that corrects the fleet deficiency within 30 days or a mutual agreed upon schedule.
D.	Exceptions: Fleet defects will not apply to minor aftermarket accessories specified by the City of Denver and installed per instructions/specifications. Examples include: toolboxes, spotlights, bed-liners, etc.
E.	Mitigation: Should the vendor become non responsive to the City's notification of a Fleet Defect, the City may employ several options. (1) After notifying the vendor in writing of The City's intent to mitigate its circumstances, the City may chose to perform its own warranty work and seek reimbursement for both parts and labor. (2) On major components, such as engine, transmission, air conditioning, etc., the City may chose to have the repairs performed by an authorized dealer and vendor shall reimburse the City for any parts or labor not covered by other warranty.
F.	Outside Metro-Denver: Vendor will pay for all transportation costs if unit(s) must be sent out of the Denver area for repairs. The City and County of Denver reserves the right to inspect unit(s) before returning back to Denver. The City and County of Denver also reserves the right to send at least one employee, without cost to the City, to inspect the repair(s) before unit is released back to the City.
G.	Expired Warranties: Units that have mutually agreed upon warranty defects during the warranty period will continue to be repaired until completed. If an on-going remedy continues past the warranty date the repairs will continue under warranty until completed or cease at a time agreed upon by the vendor and City and County of Denver.

6.3 Warranty Options

TABLE 3

WARRANTY Options		(CLASS 7 THROUGH CLASS 8 VEHICLES)		
Cost of Factory Extended Warranties		Please indicate in the columns below the additional cost of an extended warranty for all applicable components listed in the left hand column.		
		Inc = Included		N/A =
		Not available		
		Two Years	Three Years	Five Years
A.	Cab and Chassis	N/A	N/A	\$2,930
B.	Engine	INC	\$1500	2,450
C.	Transmission	INC	INC	1,042
D.	Drive Train	INC	410	800
E.	Left Side Operator Controls	N/A	N/A	N/A
F.	Suspension	501	798	N/A
G.	Air Conditioning	N/A	N/A	N/A
H.	Hydraulics	N/A	N/A	N/A

	a. Pumps b. Cylinders c. Tanks d. Valves e. Controls			
I.	Attached Body	N/A	N/A	N/A
J.	Joystick	N/A	N/A	N/A
K.	Electrical Components	N/A	N/A	N/A
L.	Operator Controls	N/A	N/A	N/A
M.	Other			
Notes:				

6.4 Warranty Service Locations: Warranty repair parts and service shall be available locally at an established factory authorized dealership meeting requirements of Table 1 Section 7.

Vehicle: Dealership Name: McCandless Truck Center Telephone #: 303-739-9900
 Street Address: 16704 E. 32nd Ave City: Aurora

Trash Body: Dealership Name: Kois Brothers Telephone #: 303-298-7370
 Street Address: 5200 Colorado BLVD City: Commerce city

Sundries: Dealership Name: Kois Brothers Telephone #: 303-298-7370
 Street Address: 5200 Colorado Blvd City: Commerce City

7.0 Heavy Duty Vehicle Delivery Documentation:

Delivery Documentation (GVWR 26,001-Lbs and Above Heavy Duty)	
A.	Vehicles ordered under this specification shall be complete and delivered to CITY AND COUNTY OF DENVER, Fleet Management Division. All prices quoted must be quoted at a firm price F.O.B. Denver, Colorado, 5440 Roslyn St. Building C.
B.	Vendor shall supply at acceptance and delivery of vehicle. 1. Bill of Sale (aka invoice, buyers order)



	2. Original MSO (Manufacturers Statement of Origin) 3. Application for Title and/or Registration, Colorado Dept of Revenue form DR2395 (02-22-11) 4. Odometer Disclosure Statement, Colorado Dept of Revenue form DR2407 (09-07-05) 5. Letter of Certification on Vendor Letterhead (Required for Incomplete Vehicles) with added bodies etc, describes the final configuration of the vehicle) 6. Air Brake inspection form required for any vehicle with air brakes or truck units capable of towing trailers greater than 10,000-Lbs 7. Standard Sales Tax Receipt. 8. DOT Inspection form. 9. Temporary License Plate. 10. New Equipment Check-in Form/ Vendor Supplied Information on the Vehicle. Form provided by Fleet contact Dolores @ 720.865.3903 11. Copy of City Purchase Order. 12. All Keys ordered for the Vehicle and Sundries, i.e. toolboxes etc. 13. All Manuals repair, parts, owners and/or CD's/DVD's etc 14. Vehicle Warranty information and receipt for optional warranty. 15. Receipts and Warranty information for vendor installed/supplied components (lift gates, snowplows, lighting equipment etc)
C.	For an "Incomplete Vehicle" (cab & chassis) add the following: 16. Verification of Vehicle Identification Number (VIN), Colorado Dept. of Revenue form DR2087. 17. Statement of Fact for incomplete vehicles with added bodies etc, describes the final configuration of the vehicle. 18. Original weight slip.
D.	Delivery: Monday through Friday between 8:00 am and 1:00 pm. Location: CITY AND COUNTY OF DENVER Fleet Management 5440 Roslyn St. Building C Denver, CO 80216 Contact person to coordinate delivery: Dolores Gallegos at (720) 865-3900 ext. 03 or direct line (720) 865-3903.

8.0 Vehicle Delivery

8.1 Delivery of Cab and Chassis to Body Vendor

PROVIDE NUMBER OF DAYS REQUIRED FOR DELIVERY OF CAB AND CHASSIS AFTER PURCHASE ORDER IS ISSUED TO BODY VENDOR	120 DAYS
---	----------

8.2 Delivery of Completed Truck with Body Installed to City and County of Denver

PROVIDE NUMBER OF DAYS REQUIRED FOR DELIVERY OF COMPLETE VEHICLE	210 DAYS
--	----------

9.0 Complete Vehicle Cost

Include:

- o Cab & Chassis Total Cost
- o Rear Loader Body Total Cost
- o Sundries Items Total Cost

Do Not Include:

- o Optional Equipment
- o Warranty Cost (s)
- o Manual Cost (s)

AFTER CAB AND CHASSIS IS DELIVERED

ONE COMPLETE VEHICLE TOTAL COST

~~\$ 330,205.00~~

~~329,695~~

~~amc~~

E:\12-080 to 082 Rear Loader SW.doc

KOIS BROTHERS PRIME CONTRACTOR

Initial Total: \$323,176

DO NOT PROVIDE

12000 Hydraulic Drum Winch <\$6,010>

Dual Cart Tipper <\$12,894>

Revised Total: \$304,272



AGENCY CUSTOMER ID: XXXXXX0761

LOC #: _____

ADDITIONAL REMARKS SCHEDULEPage 2 of 2

AGENCY William Albert		NAMED INSURED Kois Brothers Equipment Co Inc	
POLICY NUMBER 4999319004			
CARRIER Sentry Select Insurance Company	NAIC CODE 21180	EFFECTIVE DATE: 12/31/2018	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

General Liability

As required by written contract, the City and County of Denver, its Elected and Appointed Officials, Employees and Volunteers are included as Additional Insured.

POLICY NUMBER: 4999319004

COMMERCIAL GENERAL LIABILITY
CG 20 26 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED - DESIGNATED
PERSON OR ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

<p>Name Of Additional Insured Person(s) Or Organization(s):</p> <p>City and County of Denver</p>
<p>Information required to complete this Schedule, if not shown above, will be shown in the Declarations.</p>

A. Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

1. In the performance of your ongoing operations; or
2. In connection with your premises owned by or rented to you.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to **Section III - Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

Change effective 08/19/2019

CG 20 26 04 13

4999319
Sentry Select Insurance Company

© Insurance Services Office, Inc., 2012

Page 1 of 1

08/19/2019

Contract Control Number: PWADM-201950898-00
Contractor Name: KOIS BROTHERS EQUIPMENT CO., INC.

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of:

SEAL

CITY AND COUNTY OF DENVER:

ATTEST:

By:

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

Attorney for the City and County of Denver

By:

By:

By:

Contract Control Number:
Contractor Name:

PWADM-201950898-00
KOIS BROTHERS EQUIPMENT CO., INC.

By: DocuSigned by:
Ernest J. Kois
73A8D8B22D85456..._____

Name: Ernest J. Kois

(please print)

Title: VP of Sales

(please print)

ATTEST: [if required]

By: _____

Name: _____
(please print)

Title: _____
(please print)