

OFFICE OF THE CITY ATTORNEY
ROBERT E. SHANNON, City Attorney
333 West Ocean Boulevard, 11th Floor
Long Beach, CA 90802-4664

1 AGREEMENT

2 **32291**

3 THIS AGREEMENT is made and entered, in duplicate, as of August 18,
4 2011 for reference purposes only, pursuant to Resolution No. RES-11-0088 adopted by
5 the City Council of the City of Long Beach at its meeting on August 9, 2011, by and
6 between LOS ANGELES TRUCK CENTERS, LLC DBA LOS ANGELES FREIGHTLINER
7 WESTERN STAR, a California corporation ("Contractor"), with a place of business
8 located at 2429 S. Peck Road, Whittier, California 90601, and the CITY OF LONG
9 BEACH ("City"), a municipal corporation.

10 WHEREAS, Section 1802 of the Long Beach City Charter permits the City
11 to make purchases under the purchasing contracts of other governmental agencies when
12 authorized to do so by a resolution; and

13 WHEREAS, the City desires to purchase three (3) 2012 liquefied natural
14 gas powered, Autocar ACX64 New Way Cobra, rear-loader refuse trucks ("Trucks"); and

15 WHEREAS, Los Angeles Truck Centers, LLC dba Los Angeles Freightliner
16 Western Star has a Purchase Order with the City of Beverly Hills for the purchase of
17 CNG-Powered Autocar ACX64 refuse trucks , Purchase Order No. 11201404 ("Beverly
18 Hills PO"); and

19 WHEREAS, Resolution No. RES-11-0088 authorizes the City to purchase
20 these Trucks by virtue of the Beverly Hills PO;

21 NOW, THEREFORE, in consideration of the terms and conditions
22 contained in this Agreement, the parties agree as follows:

23 1. The Beverly Hills PO with Contractor, attached hereto as Exhibit "A"
24 is incorporated by this reference as if fully set forth, and the same terms and conditions
25 contained in the Beverly Hills PO shall be applicable here except as follows:

26 A. Wherever the Beverly Hills PO refers to the City of Beverly
27 Hills, it shall be deemed to refer to the City of Long Beach;

28 B. Contractor shall sell, furnish and deliver to the City three (3)

1 2012 liquefied natural gas powered, Autocar ACX64 New Way Cobra, rear-loader
2 refuse trucks of substantially the same type and kind purchased by the City of
3 Beverly Hills on the same terms and conditions offered to the City of Beverly Hills,
4 except as modified by Exhibit "B" attached hereto and incorporated in this
5 Agreement, for an amount not to exceed Seven Hundred Thirty-Four Thousand
6 Eight Hundred Sixty-Five Dollars (\$734,865), including tax and shipping, for a
7 period extending until the warranty on the Trucks expires. To the extent that the
8 Beverly Hills PO and this Agreement are inconsistent, the following priority shall
9 govern: (1) this Agreement and (2) the Beverly Hills PO.

10 C. Payment for the three (3) 2012 liquefied natural gas powered,
11 Autocar ACX64 New Way Cobra, rear-loader refuse trucks purchased from
12 Contractor by the City shall be made by the City on delivery to and acceptance of
13 the Trucks by the City and submittal of an invoice to the City. Payment is due
14 thirty (30) days after the date of the invoice.

15 D. All warranties shall accrue to the City of Long Beach.

16 E. The parties may, by mutual agreement, amend this
17 Agreement with the approval of the City's City Council.

18 2. Neither this Agreement nor any money that becomes due to
19 Contractor under this Agreement may be assigned by Contractor without the prior written
20 consent of the City Manager or his designee.

21 3. Any notice given under this Agreement shall be in writing and
22 personally delivered or deposited in the U.S. Postal Service, return receipt, and shall be
23 delivered or mailed to Contractor at the relevant address first stated above, and to the
24 City at 333 West Ocean Boulevard, Long Beach, California 90802 Attn: City Manager.
25 Notice shall be deemed given three days after deposit in the mail.

26 4. The terms appearing on the Beverly Hills PO are incorporated in this
27 Agreement.

28 5. Contractor shall cooperate with the City in all matters relating to self-

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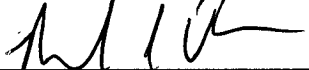
1 accrual of use tax. Contractor shall contact the City Treasurer for additional information
2 regarding self-accrual.

3 6. This Agreement and all documents which are incorporated by
4 reference in this Agreement constitute the entire understanding between the parties and
5 supersede all other agreements, oral or written, with respect to the subject matter of this
6 Agreement. If there is any legal proceeding between the parties to enforce or interpret
7 this Agreement, or to protect or establish any rights or remedies, the prevailing party shall
8 be entitled to its costs and expenses, including reasonable attorney's fees.

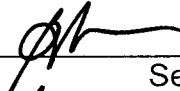
9 IN WITNESS WHEREOF, the parties have caused this document to be duly
10 executed with all formalities required by law as of the date first stated above.

LOS ANGELES TRUCK CENTERS, LLC
DBA LOS ANGELES FREIGHTLINER
WESTERN STAR, a California corporation

11 _____, 2011

By 
President
BRADLEY C. FAULVRE
Type or Print Name


12 _____, 2011

By 
Secretary
Bryan Kobus
Type or Print Name

"Contractor"

CITY OF LONG BEACH, a municipal
corporation

13 9.8.11, 2011

By 
Assistant City Manager
City Manager
EXECUTED PURSUANT
TO SECTION 301 OF
THE CITY CHARTER.

"City"

This Agreement is approved as to form on Sept 1, 2011.

ROBERT E. SHANNON, City Attorney

14 By 
Deputy

EXHIBIT “A”



CITY OF BEVERLY HILLS
 466 N Rexford Drive
 Beverly Hills, CA 90210

PURCHASE ORDER NO. 11201404

PAGE NO. 1

BILL TO: 345 Foothill Road
 Beverly Hills, CA 90210 Attention: Marina

VENDOR 25844 FAX: 562-415-2220
 LOS ANGELES FREIGHTLINER
 2429 S PECK ROAD
 WHITTIER CA 90601

SHIP TO VEHICLE & MAINTENANCE - P W
 CITY OF BEVERLY HILLS
 9355 W THIRD STREET
 BEVERLY HILLS, CA 90210
 ATTN: R BIADOMA/MK 310.285.2483

ORDER DATE: 04/26/11		BUYER: RENE BIADOMA/MK		REQ. NO.: 11102533	REQ. DATE:
TERMS: NET 30 DAYS		F.O.B.:		DESC.: CIP EQUIPMENT	
ITEM#	QUANTITY	UOM	DESCRIPTION	UNIT PRICE	EXTENSION
			COUNCIL APPROVED ON 4/21/11, ITEM G-12. ALL TERMS AND CONDITIONS OF BID # 11-24 ARE INCORPORATED HEREIN BY REFERENCE. CHARGES ARE NOT TO EXCEED TOTAL.		
01	2.00	EA	TRUCK - CNG-POWERED, AUTOCAR ACX64X, MOUNTED WITH WAYNE CURBTENDER SOLID-WASTE COLLECTION BODY.	306559.0000	613,118.00
			SALES TAX:		59,779.01
				PAGE TOTAL \$	672,897.01
				TOTAL \$	672,897.01
ITEM#	ACCOUNT	AMOUNT	PROJECT CODE		
01	35498502 85050	672,897.01	35498502		

APPROVED BY _____


[Signature]
 AUTHORIZED SIGNATURE

APR 26 2011



BID PACKAGE

CITY OF BEVERLY HILLS
OFFICE OF THE CITY CLERK
455 NORTH REXFORD DRIVE
BEVERLY HILLS, CALIFORNIA
90210 (310) 285-2440

Rino
 **COPY**
"Carb tender"

LEGAL NOTICE - BIDS WANTED

Sealed proposals are requested on the list of materials, supplies, equipment or services set forth herein, subject to all conditions outlined in the Proposal Document, including:

- SECTION I:** REQUEST FOR BIDS
- SECTION II:** GENERAL INFORMATION AND INSTRUCTION
- SECTION III:** DETAIL SPECIFICATIONS
- SECTION IV:** BID FORM

(IF YOU CHOOSE NOT TO SUBMIT A BID, PLEASE COMPLETE PAGE)

Sealed proposals will be received only at the Office of the City Clerk, 455 North Rexford Drive, Beverly Hills, until 2:00 p.m. local time, on the dates hereinafter stated at which time they will be opened and publicly read for furnishing the materials, supplies, equipment or services or for supplying the materials, and/or providing labor for the repair, construction or improvement as the case may be, as indicated by the items hereunder listed and in accordance with the applicable specifications.

SECTION I - REQUEST FOR BIDS

Date of Request: **FEBRUARY 10, 2011**

Bid Number: **11- 24**

Item Description: **TRUCK, REFUSE 27CY AUTOMATED SIDE LOADER**

Bid Opening: **MARCH 03, 2011 @ 2:00 PM**

All bids must be delivered by the specified opening time of the bid. Bids arriving after the specified hour will not be accepted. Mailed bids, which are delivered after the specified hour will not be considered regardless of postmarked time on the envelope. All bids must be in writing and must contain an original signature by an authorized officer of the firm - Electronic bids (telephone, FAX, etc.) are **NOT** acceptable.

BID DEPOSIT - NONE REQUIRED WITH THIS BID
PERFORMANCE BOND AND PAYMENT BOND - NONE REQUIRED WITH THIS BID.
THE CITY RETAINS THE RIGHT TO REJECT ANY AND ALL BIDS WITHOUT CAUSE
AND/OR ELECT NOT TO AWARD A BID.

CITY OF BEVERLY HILLS
SECTION II - GENERAL INFORMATION AND INSTRUCTION

1. Bid deposits of unsuccessful bidders will be returned after the bid has been awarded. A successful bidder's bid deposit will be returned after he has entered into a written contract, or after a performance bond, if required, has been executed and accepted by the City.
2. The vendor's proposal may be withdrawn at any time prior to the bid opening. No proposal may be withdrawn after the bid opening. Violation of this policy may cause forfeiture of the bid deposit and removal from qualified Bidder's List.
3. Bidders are advised to become familiar with all conditions, instructions and specifications governing this bid. Once the award has been made, a failure to have read all the conditions, instructions and specifications of this contract shall not be cause to alter the original contract or for vendor to request additional compensation.
4. Bidders agree to defend and save the City from and against all demands, claims, suits, costs, expenses, damages and adjustments based on any infringement of any patent relating to goods specified in this contract.
5. Successful bidder shall not assign the contract, or subcontract the whole or any part of the contract without written consent of the City. Such consent shall neither relieve the bidder from his obligation nor change the terms of the contract.
6. The City shall have the right to inspect any material specified herein. Equipment, supplies or services that fail to comply with the specifications herein regarding design, material or workmanship are subject to rejection at the option of the City. Any materials rejected shall be removed from the premises of the City at the expense of the vendor.
7. Bidder shall state the nature and period of any warranty or guarantee. Manufacturer's specifications shall be submitted with the bid and shall be considered a part of this contract where such specifications meet the minimum of the City specifications.
8. Each bidder shall submit in full this completed original BID DOCUMENT and all necessary catalogues, descriptive literature, etc., needed to fully describe the materials or work he proposes to furnish.
9. Bidders shall state the delivery date for commodities in terms of calendar days after notification of award. Where the contract calls for performance of labor, the bidder shall also state the number of calendar days required for completion after notification of award.
10. Cash discounts shall be considered in the evaluation of the bids, except that payment periods of less than thirty (30) days will not be considered in award of this bid. Where cash discounts are offered, the discount date shall begin with the invoice date or delivery date to the City, whichever is later.

11. Upon the award of the bid to the successful bidder, if insurance is required by the terms of this bid, the City will require evidence of such coverage be furnished within fourteen (14) days of notification of bid award. The amounts and types of coverage will be specified in Section IV of this bid. **All insurance forms must be in a format acceptable to the City.**
12. The Contractor agrees to indemnify, defend and hold harmless the City, City Council and each member thereof, and every officer, and employee of the City, from any liability or financial loss including, without limitation, attorneys fees and costs, arising in any manner whatsoever from any intentional, reckless, negligent, or otherwise wrongful acts, errors or omissions of Contractor, or any person employed by Contractor, including agents and independent contractors, in the performance of this agreement.
13. Every supplier of materials and services and all contractors doing business with the City shall be an "Equal Opportunity Employer" as defined by Section 2000 (E) of Chapter 21, Title 42 of the United States Code Annotated and Federal Executive Orders #11375, and as such shall not discriminate against any other person by reason of race, creed, color, religion, age, sex or physical or mental handicaps with respect to the hiring, application for employment, tenure, terms or conditions or employment of any person.
14. Prices quoted herein must be firm for a period of not less than ninety (90) days after date of bid opening.
15. Bids calling for other than a "lump sum" total bid may be awarded by single item, by groups of items, or as a whole, as the City deems to be in the best interest of the City.
16. The City will be the sole and exclusive judge of quality, compliance with bid specifications or any other matter pertaining to this bid. The City reserves the exclusive right to award this bid in any manner it deems to be in the best interest of the City.
17. Quantities specified in Section III are approximate only, the City reserves the right, within the period for delivery to increase or decrease the quantity ordered and upon mutual agreement after the period specified for delivery, order additional quantities of items bid.
18. "Contractor shall cooperate with the City in all matters relating to taxation and the collection of taxes. It is the policy of the City to self-accrue use tax associated with its own purchases. The City requests that its contractors self-accrue their use tax, **when applicable**, and report the use tax to the State Board of Equalization with a City-assigned permit number. The City's own use tax which is self-accrued by the City will be remitted to the State of California pursuant to the City's permit with the State Board of Equalization."
19. For any questions regarding this bid, please contact Rene Biadoma at (310) 285-2484 or Craig Crowder at (310) 285-2490.

SECTION III – DETAILED SPECIFICATIONS

SUBSECTION A - TECHNICAL NOTES

IN EVENT OF CONFLICT, THE FOLLOWING SPECIFICATIONS SHALL PREVAIL OVER GENERAL INSTRUCTIONS CONTAINED ELSEWHERE IN THIS BID.

IMPORTANT NOTICE - THIS SECTION III, SUBSECTION A, COMPLETED WITH REQUIRED INFORMATION AND/OR BIDDER'S EXCEPTIONS MUST BE ATTACHED TO AND RETURNED WITH SECTION IV - BID FORM.

BIDDER MUST EXPLAIN IN DETAIL ALL ITEMS OFFERED WHICH DO NOT CONFORM TO SPECIFICATIONS CONTAINED HEREIN. IF NO EXCEPTIONS ARE LISTED, IT WILL BE ASSUMED BIDDER IS BIDDING "AS SPECIFIED."

SPECIFICATIONS FOR NEW MECHANIZED SIDE-LOADING REFUSE-COLLECTION TRUCK BIDDERS EXCEPTIONS

PART A: TRUCK, TILT CAB & CHASSIS, RIGHT-HAND DRIVE

I. GENERAL

- a) It is the CITY's goal to standardize its fleet in order to maximize operational and maintenance efficiency. Specific make or model listed herein is specifically intended to attain that goal. AS SPECIFIED
- b) Chassis furnished to the City of Beverly Hills shall be right-hand drive only. The truck chassis are to be used in residential curbside, one-man refuse-collection service, and will have a 27 cubic yard minimum capacity, mechanized side-loading packer bodies installed on it. This truck will be required to operate under varied and extreme conditions. Ambient temperatures may reach 110 degrees Fahrenheit. AS SPECIFIED
- c) Chassis shall be an Autocar ACX low-cab-forward design or approved equal. Specify: AS SPECIFIED

MANUFACTURER: AUTOCAR

MODEL: ACX64R

II. ADDITIONAL VEHICLES

- a) The City reserves the right to order one (1) or more additional vehicles under the same terms, conditions and specifications of the bid, not to exceed a total of four (4) units. Any such orders shall be placed under separate Purchase Order within in twelve (12) months of award of this bid. AS SPECIFIED

BIDDER'S EXCEPTION

Unit pricing of any and all additional vehicles ordered under this provision shall not exceed the awarded total unit bid price plus any documented price increases from the vehicle or body manufacturers.

AS SPECIFIED

III. DIMENSIONS

- a) Expected Front Axle Load: 20,000 LBS AS SPECIFIED
- b) Expected Rear Axle Load: 40,000 LBS AS SPECIFIED
- c) Expected GVW Capacity: 60,000 LBS AS SPECIFIED
- d) Expected Gradeability to be a maximum of 8%.
- e) Wheelbase and CA dimensions shall be determined by body manufacturer, and shall be as compact as possible. State (inches): AS SPECIFIED
 Wheelbase: 203" 209"
 CA: EFFECTIVE CT = 180" 186"
- f) Bottom of windshield shall be kept as low as possible to promote optimum visibility. *ACX HAS UP TO 324.5 DEGREES OF VISIBILITY

IV. ENGINE

- a) Shall be Cummins Westport ISL "G" compressed natural gas (CNG) engine with the following minimum requirements (No Exception): AS SPECIFIED
- b) Displacement: 8.9L AS SPECIFIED
- c) Horsepower: 320 @ 2200 RPM AS SPECIFIED
- c) Torque rating: 1000 LBS/FT @ 1300 RPM AS SPECIFIED
- d) Shall have all manufacturers' standard and specified components. AS SPECIFIED
- e) Engine shall comply with applicable Federal and State of California emission standards for 2010, and be certified for use by a Municipal Fleet within the South Coast Air Quality Management District. AS SPECIFIED
- f) CNG engine must be compliant to ATA and/or J1939 data communications link to ensure dashboard and other peripheral compatibility. AS SPECIFIED
- g) CNG engine must be serviced locally during warranty and post warranty. Specify location of nearest service center for engine: AS SPECIFIED
 Name: AGILITY FUEL SYSTEMS
 Address: 10007 ELM AVE. FONTANA, CA. 92335

BIDDER'S EXCEPTION

- h) CNG engine ECU must be accessible to the City of Beverly Hills technicians to access engine diagnostic codes for trouble shooting. AS SPECIFIED

V. ENGINE ACCESSORIES

- a) Cooling system conditioner, PERRY model 340 spin-on type. Filter shall be mounted to provide easy access and shall have a grounding wire to engine block. AS SPECIFIED
- b) Engine protective shut down devices for high coolant temperature, low oil pressure, low coolant level and high transmission temperature, with automatic override and audible warning before shutdown. KYSOR 9031 4-way or approved equal. AS SPECIFIED
- c) The engine shall be furnished with a limiting multiple variable speed (MVS) governor to accommodate the RPM variations above idle, required for driving the hydraulic power system for the refuse compactor body. The governor shall limit engine torque to a maximum of 430 ft./lbs. @ 1700 RPM. AS SPECIFIED
- d) The engine shall be equipped with a 2-quart (minimum) capacity full-flow oil filter with replaceable cartridge. AS SPECIFIED
- e) The engine shall be equipped with the manufacturer's standard oil cooler. AS SPECIFIED
- f) The engine shall be equipped with a Donaldson single-stage high capacity dry air filtration system with a stationary vertical air intake snorkel or approved equal. Connection between the air filter and engine shall be of metal with an acceptable flex joint. AS SPECIFIED
- g) A DONALDSON, or approved equal, pre-air cleaner shall be installed. AS SPECIFIED
- h) Engine shall have a one piece valve cover. AS SPECIFIED
- i) Air cleaner shall be fitted with an air restriction gauge, LUBER-FINER #4084, or approved equal. AS SPECIFIED
- j) Engine and engine accessories must be accessible for service and maintenance. Engine oil pan shall include a magnetic drain plug. AS SPECIFIED
- k) One diagnostic software kit for all vehicles in the bid package, complete with all applicable adapters and interfaces for Cummins ISL G engine, on CD for PC shall be furnished. AS SPECIFIED
WINDOWS XP

BIDDER'S EXCEPTION

AS SPECIFIED

- l) Provisions shall be made to allow engine oil level checking and filling without raising cab.

VI. CNG FUEL TANK

- a) A roof-mounted 60 Diesel Gallon Equivalent (DGE) 4-Cylinder Type-3 "Neck-Mounted" 3600-psi service pressure CNG fuel system shall be installed. State: AS SPECIFIED
Actual DGE: 60 dge
- b) Cylinders shall be rated for a 20-year-life cycle. System sub-frame and cover to be made of aluminum. Cover and frame shall be powder-coated. AS SPECIFIED
- c) Fuel lines and PRD lines shall be made of Stainless Steel. PRD lines shall be routed to vent outside of fuel tank enclosure and away from vehicle. AS SPECIFIED
- d) Fuel Management Panel to include the following: AS SPECIFIED
High pressure gauge before pressure regulator.
Low pressure gauge after pressure regulator.
- e) NGV1 3600 psi receptacle with dust cap. Back-up pressure relief valve plumbed downstream of pressure regulator. AS SPECIFIED
- f) System to include Pressure transducer / Dash mounted electric fuel gauge, secondary check valve and manual shut-off gauge. AS SPECIFIED
- g) System shall include a front bumper mounted fill receptacle as well as a right side fill receptacle, both with starter lock-out system. AS SPECIFIED
- h) System must include fuel transfer / defueling capability. AS SPECIFIED
- i) System shall be designed by a Professional Engineer and shall be manufactured to NFPA-52 requirements. AS SPECIFIED

VII. ENGINE COOLING

- a) The engine cooling system shall be comprised of extra heavy duty, severe service components with a minimum 1,300 SQ. IN. aluminum radiator. AS SPECIFIED
- b) The system shall be adequate for the GVWR pulling a 6% grade at full throttle for a distance of one mile in an ambient temperature of +100 degrees F' without exceeding a cooling system temperature, as measured in the engine block, of +200 degrees F. Bid shall include documentation from the OEM that requirement is made. Failure to AS SPECIFIED

BIDDER'S EXCEPTION

- submit documentation with bid shall deem bid non-responsive.
- c) The cooling system shall include a deaeration system conforming to engine manufacturer's recommendation, a spin on coolant filter rated for system capacity, and a metal remote coolant recovery tank. AS SPECIFIED
 - d) The unit shall be delivered with the engine manufacturer's standard antifreeze and rust inhibitor solution in the cooling system, with protection to -34 degrees F AS SPECIFIED
 - e) Silicone hoses with steel tubing shall be used throughout the cooling/heating system with constant torque hose clamps installed on hoses. AS SPECIFIED
 - f) The cooling system shall be firmly mounted in a way to properly absorb the stresses of refuse truck application. The radiator shall be mounted, braced and insulated to protect against vibration, frame twist and rack. AS SPECIFIED
 - g) The top and bottom radiator tanks shall be of bolt-on design. AS SPECIFIED
 - h) Provisions shall be made to allow coolant level checking and filling without raising cab. AS SPECIFIED

VIII. EXHAUST SYSTEM

- a) Aluminized exhaust pipes shall be so located that starter and oil filter can be serviced or removed without disturbing the exhaust system. AS SPECIFIED
- b) Exhaust pipe and muffler shall be vertically mounted on the right side of truck, complete with stainless shield and rain cap or chrome elbow. AS SPECIFIED
- c) A turbo shield shall be mounted directly over the turbocharger with a 1" minimum air gap, to deflect debris away from exhaust. AS SPECIFIED
- d) An exhaust blanket shall be installed on exhaust pipe between turbo and muffler and other areas that could likely come in contact with refuse debris and could potentially cause a fire. AS SPECIFIED
- e) Allowable backpressure shall not exceed engine manufacturer's recommendation. AS SPECIFIED
- f) Exhaust piping shall contain stainless flex tubing where needed and the exhaust stack shall be a maximum of 11feet 8" from the ground. AS SPECIFIED

BIDDER'S EXCEPTION**IX. TRANSMISSION**

- a) Transmission shall be an ALLISON 3000 RDS automatic transmission with PTO provision. AS SPECIFIED
- b) Transmission shift control shall be push button electronic, with drive train protection devices including RPM sensor; capability to shift transmission to *neutral/park* automatically. Control shall be mounted so that driver may shift control gears without excessive reaching. Control electrical harness shall be routed so it will have a minimum number of bends and be protected from engine heat and *mechanical injury*. Electrical control box shall be mounted or shielded to prevent damage or moisture penetration. AS SPECIFIED
- b) PTO shall be engine-driven, transmission-mounted, electronically controlled with internal clutch (hot-shift style). AS SPECIFIED
Parker 896.
- c) PTO to provide direct mounting for hydraulic pump which will operate the Refuse body hydraulic system. PTO to be engaged only when body hydraulic system is in use. AS SPECIFIED
operate in idle.
- e) An Allison hydraulic brake retarder to match the vehicle and its operating conditions shall be furnished. Retarder application shall be automatic in consonance with service brake application. A separate retarder switch shall be furnished on the dash in reach of the operator. INCL. IN BID KLAM MODEL #CFK-360-52 DRIVELINE RETARDER. FOR ALLISON HYD. BRAKE RETARDER, REFER TO BI SUPPLEMENT OPTION SHEET
- f) Transmission cooler shall be STEWART WARNER model A-1233, or approved equal, water to oil type. All hoses shall be flexible, Teflon-lined, and temperature-resistant. Transmission cooler shall be sized appropriately to account for the brake retarder. AS SPECIFIED
- e) Transmission temperature gauge and filters, as recommended by manufacturer. AS SPECIFIED
- f) Transmission protective device to shut down engine for high transmission temperature, with automatic override and audible warning before shutdown. KYSOR Series 9031, or approved equal. AS SPECIFIED
- g) A vented transmission fill tube, with MOELLER plug, and dipstick shall be located to permit the transmission fluid level to be checked and filled from curbside without raising the cab and with a minimum of effort. Tube shall be permanently AS SPECIFIED

BIDDER'S EXCEPTION

- labeled. Drain pan shall include a magnetic drain plug.
- h) One diagnostic software kit for all vehicles in the bid package, complete with all applicable adapters and interfaces for ALLISON 3000 RDS transmission, on CD for PC shall be furnished with equipment. AS SPECIFIED
- i) Transmission shall have a minimum warranty of 4 years and unlimited miles. AS SPECIFIED
- X. **PROPELLER SHAFTS**
- f) Main shaft shall be of two-piece design with intermediate support bearing and torque capacity rated for specified engine/transmission. AS SPECIFIED
- g) U-joints shall be DANA SPICER 1710 heavy-duty series. AS SPECIFIED
- XI. **AXLES**
- a) Front steering axle shall be an ARVIN MERITOR, and suited to the vehicle's GVWR. Specify: AS SPECIFIED
 Manufacturer & model: MERITOR MFS-20
 Weight rating: 20,000 LBS. 22,000 lb
- b) A viewing window shall be provided on each side of front axle for checking oil level (STEMCO-type seals). Inner oil seals shall also be provided. AS SPECIFIED
- c) Drive axle shall be an ARVIN MERITOR, and suited to the vehicle's GVWR. AS SPECIFIED
 Manufacturer & model: MERITOR RT40-145
 Weight rating: 40,000 LBS.
- d) Inner oil seals shall be provided on rear axles. AS SPECIFIED
- e) Drive axle ratio shall be selected to provide a top speed of at least 65-MPH and a grade storability of at least 25%. AS SPECIFIED
- XII. **SUSPENSION**
- a) Front suspension shall be Flat-leaf and appropriate to vehicle's GVWR. AS SPECIFIED
- b) Front suspension shall have heavy-duty telescoping shock absorbers installed AS SPECIFIED
- c) Rear-drive axle suspension shall be a Hendrickson HMX-400 spring suspension with a capacity appropriate to the vehicles GVWR. AS SPECIFIED
- d) Rear suspension shall have heavy-duty telescoping shock absorbers installed. AS SPECIFIED

BIDDER'S EXCEPTION

- e) SI Route Master on-board scale system calibrated to match the vehicle's load parameters shall be installed to include a LCD digital gauge on the dash.

AS SPECIFIED - REFER TO ATTACHED BID SUPPLEMENT OPTION SHEET PROVIDED

XIII. FRAME

- a) Chassis frame shall accommodate a mechanized side loading refuse body and packer (as specified elsewhere in this bid).

AS SPECIFIED

- b) Chassis frame shall be constructed of high tensile steel alloy with a minimum frame rail yield strength of 120,000 PSI, a minimum resisting bending movement (rbm) of 3,529,000 LBS and a section modulus of 29.41 without inner frame insert with bolted-on crossmembers. Grade 8 bolts or Huck fasteners shall be used. Bidder to specify.

AS SPECIFIED

PSI: 120,000

Sec.Mod.: 29.41

Fasteners: HUCK

- c) Chassis frame shall be supplied by truck manufacturer as original equipment and may be altered by body manufacturer with bolted on steel plate for mounting accessories. Chassis frame alteration shall be in compliance with existing Federal Motor Vehicle Safety Standards (FMVSS). Welding of truck frame is prohibited.

AS SPECIFIED

- d) Frame shall have sufficient number of crossmembers to provide torsion rigidity, and to support the frame rails where fuel tank and suspension assemblies will be mounted. A crossmember shall be provided and installed at the extreme rear end of frame.

AS SPECIFIED

XIV. STEERING

- a) Steering shall be hydraulic power operated, TRW TAS-65, with an RCS-65 auxiliary gear or approved equal. System shall have adequate mechanical advantage to allow the vehicle to be steered if power should fail, and adequate power to permit the front wheels to be turned lock to lock with the vehicle standing still, engine at idle speed, and body loaded to maximum legal axle capacity. Power steering cooler shall be engine mounted oil to water type.

AS SPECIFIED

- b) The steering column shall be capable of tilting.

AS SPECIFIED

BIDDER'S EXCEPTION

- c) Turning radius, in both directions, shall be as short as possible. Cramp angle shall be a minimum of 50 degrees in both directions. Bidder to specify:
- Radius Left: 34.20 ft.
- Cramp Angle Left: 50 degrees
- Radius Right: 34.20 ft.
- Cramp Angle Right: 50 degrees

XV. BRAKES

- a) The service brake system shall be a full air type by ARVIN MERITOR. AS SPECIFIED
- b) The front brakes shall be 16.5"x7" S-CAM drum type with HALDEX automatic slack adjusters, or approved equal. AS SPECIFIED
- c) The rear brakes shall be 16.5"x8.62" S-CAM drum type with HALDEX automatic slack adjusters, or approved equal. AS SPECIFIED
- d) Air brake system shall fully comply with YWJSS 121 requirements. AS SPECIFIED
- e) A BENDIX-AD-IP air dryer with an automatic heated moisture ejector shall be installed. AS SPECIFIED
- f) A BENDIX SR-1 valve, in conjunction with a double check valve system, which will provide an automatic spring brake application below 60 psi, shall be installed. AS SPECIFIED
- g) The air system shall include an engine mounted, water cooled, engine oil lubricated air compressor rated at not less than 18.7 CFM. Bidder to specify. AS SPECIFIED
- h) The air inlet for the air compressor shall be filtered through the engine air cleaner. AS SPECIFIED
- i) A one-way check valve shall be installed between the air compressor and the wet tank. AS SPECIFIED
- j) Emergency spring brakes shall automatically actuate upon loss of reservoir pressure. Shall be double diaphragm type MGM, or approved equal, installed on drive axle. Shall have a reservoir of sufficient capacity to provide a minimum of three complete releases of the spring brakes, controlled by factory dash mounted push-pull BENDIX #281946 PP-5 control valve. AS SPECIFIED
- k) An emergency spring brake release system, air operated, shall be furnished to allow towing of vehicle in event of failure. AS SPECIFIED

BIDDER'S EXCEPTION

- l) Low air pressure warning signal shall include a buzzer and dash mounted red light. Red light shall have a permanent label. AS SPECIFIED
- m) A Meritor WABCO ABS with Automatic Traction Control shall be installed. One diagnostic software kit for all vehicles in the bid package, complete with all applicable adapters and interfaces for WABCO ABS on CD for PC shall be furnished with equipment. AS SPECIFIED
- n) Air Reservoir Drain System shall be centrally located whereby operator can drain all air tanks by pulling lanyards of spring-loaded petcocks while standing on the side of the vehicle. AS SPECIFIED
- o) Accessory: A quick-disconnect valve, with shut-off valve, shall be installed for connecting air line (check with customer for location). AS SPECIFIED

XVI. WHEELS

- a) Front: Shall be 10 hole, hub piloted, and sized for front axle GVWR. 22.5"x9.0" AS SPECIFIED
- b) Rear: Shall be 10 hole hub piloted, and sized for rear axle GVWR. 22.5"x8.25". AS SPECIFIED
- c) Wheels shall be painted black in color. ✓ AS SPECIFIED

XVII. TIRES

- a) Front: and rear tires shall be Goodyear radials or equal and suitable for the GVWR of the vehicle. AS SPECIFIED
- b) Each truck shall be delivered with one spare tire and wheel for each size tire and wheel on the vehicle. AS SPECIFIED

XVIII. LUBRICATION

- a) An automatic lubrication system (LUBRIQUIP GREASE JOCKEY or approved equal) designed to keep all chassis suspension and steering component wear points properly lubricated is required. This system shall not be connected to the packer lubrication points or the S camshafts. Attach description and specifications of the system offered to Section IV Bid Form. AS SPECIFIED
MIDWEST LUBE INC.
XGS AUTOMATIC LUBE SYSTEM
- 21 lubrication points to follow on body.*

XIX. ELECTRICAL

- a) Shall be a 12-volt negative ground system, and shall include at least the following minimum requirements: AS SPECIFIED

BIDDER'S EXCEPTION

- b) Alternator: LEECE-NEVILLE 200 AMP #4940 Pad mounted, or approved equal AS SPECIFIED
- c) Starter: Shall be DELCO REMY 39-MT Series, or approved equal, heavy duty cranking motor, incorporating a built-in protection against overcrank and heat build-up. AS SPECIFIED
- d) Batteries: Minimum of three 12-volt, GRP 31 stud type, maintenance free, high cycle, with at least 2250 CCA @ 0 degrees Fahrenheit each, manufacturer's rated capacity. Cranking capacity shall meet engine manufacturer's recommended minimum requirements. AS SPECIFIED
- e) Battery box: A suitable battery box shall be provided and installed on the left side of the truck frame, with appropriate hold downs and a master battery disconnect to disconnect the batteries from the electrical system. AS SPECIFIED
- f) Wiring: All chassis wiring shall be of adequate size to carry designed electrical load without excessive voltage drop. Routing shall be the same on all units ordered. A frame mounted Body Builders Junction Box shall be provided to aid installation of body wiring. AS SPECIFIED
- g) Wiring shall be routed and secured outside frame rail under cab to prevent damage from abrasion and heat. All wiring, which passes through partitions or bulkheads, shall be rubber grommets to prevent chafing. There shall be no splices between the junction boxes and components. AS SPECIFIED
- h) Wiring shall be color coded continuous throughout each individual circuit from beginning to end, and be contained in a body wiring loom. AS SPECIFIED
- i) Circuit protection: All main circuits shall be protected by circuit breakers. Fusible links are not acceptable. AS SPECIFIED
- j) Lights: Cab/chassis shall be equipped with all lights required by FMVSS and/or the California Motor Vehicle Code. AS SPECIFIED
- k) Tail, Stop, Directional, Clearance and Side Marker lights, shall be LED. AS SPECIFIED
- l) All warning lights on the cab, chassis and body shall be LED. AS SPECIFIED

XX. TILT CAB

- a) Cab shall be low front entry, high visibility type, with factory installed right hand set down drive only. A AS SPECIFIED

BIDDER'S EXCEPTION

- minimum of 5076 Sq. Inches of glass for maximum visibility for residential refuse collection application. AS SPECIFIED
- b) Cab shall have hydraulic power-actuated lift mechanism, and be supported by a safety bar link. AS SPECIFIED
- c) Cab shall be constructed of 2-sided galvanized steel. Interior of cab, including ceiling walls and floor, shall be covered with a high density, sound absorbing material. AS SPECIFIED
- d) Cab access steps shall not exceed 18" from ground. Bidder to specify: AS SPECIFIED
Step height above ground: 18" In
- e) All steps and/or climbing surfaces on any part of cab shall be safety grip-strut. AS SPECIFIED
- f) Cab shall be provided with adequate seals and drain channels. Adequate ventilation ports shall be provided. AS SPECIFIED
- g) Cab doors shall be electric powered roll-up type windows, with State and Federal approved safety latches, and a large view safety window installed in outer door skin, and provided with a device to hold doors open when the vehicle is on grades of up to 5%. AS SPECIFIED
- h) Door panels, stops, hinges and mirror brackets shall be adequately braced and supported to withstand any shock loads sustained. Adequate grab handles shall be installed on left and right sides. AS SPECIFIED
- i) Provisions shall be made to allow checking and filling of all fluids in the engine, transmission and cooling system without raising cab. Tubes shall be mounted curbside behind cab for easy access. AS SPECIFIED

XXI. CAB ACCESSORIES

- a.) Foot throttle shall be electronic and be compatible with engine and chassis systems. AS SPECIFIED
- b) Right side seat shall be a NATIONAL 2000 series mid-back air suspension seat with active air lumbar support, or approved equal, with heavy duty black denier nylon or other approved anti-wear material, without armrest, and shall have not less than 4" fore and aft adjustment. AS SPECIFIED
- c) Seat belts, which comply, with FMVSS shall be provided and installed for both seating positions. Clip end of belts shall withdraw into protective receptacles. AS SPECIFIED

BIDDER'S EXCEPTION

- | | | |
|----|---|--------------|
| c) | Dual electric windshield wipers with park position and washers shall be provided. | AS SPECIFIED |
| d) | A fresh air heater with integral defroster shall be mounted in an easily accessible area. Air shall be ducted to both sides of cab. Each windshield shall have its own defroster duct. System shall include factory-installed air conditioning. | AS SPECIFIED |
| e) | Dual sun visors shall be provided. | AS SPECIFIED |
| f) | Interior dome light with dual map light feature shall be provided. | AS SPECIFIED |
| g) | Dual air horns shall be installed. | AS SPECIFIED |
| h) | All air, electric or hydraulic lines, connectors, or junctions exposed within the cab floor area shall be protected from damage and debris. | AS SPECIFIED |
| i) | Front fender well extensions with spray suppressant liners shall be installed on fenders. | AS SPECIFIED |
| j) | Cab shall be equipped with AM-FM radio. | AS SPECIFIED |
| k) | An Intec 3-camera video system shall be installed to include the following features: | AS SPECIFIED |
| | 1. 6.4" Color flat-panel display with integrated active radar function. | |
| | 2. Hopper-vision camera to be primary view except in reverse and left turn. | |
| | 3. Left-side-view camera activated automatically by activation of the left-turn-signal control or manually selected by the operator. | |
| | 4. Rear-vision camera activated automatically when transmission is placed in REVERSE or manually by the operator. | |
| | 5. Cameras shall be mounted in | AS SPECIFIED |
| l) | Two (2) 12V power port. | AS SPECIFIED |
| m) | SI Route Master load monitor (Refer XII, (e)) | AS SPECIFIED |

XXII MIRRORS

- | | | |
|----|---|--------------|
| a) | Left and right mirrors shall be heavy duty West Coast type, with integral convex wide-eye view, mounted as close to Cab as possible. Mirrors shall extend to a maximum of 10" from cab. | AS SPECIFIED |
|----|---|--------------|

XXIII. FRONT BUMPER

- | | | |
|----|---|--|
| a) | An adequate swept back, steel front bumper with recessed steps and adequate grab handles to | |
|----|---|--|

BIDDER'S EXCEPTION

allow cleaning of windshield shall be provided and installed. *Painted Black.*

AS SPECIFIED

XXIV. BACK-UP ALARM

- a) An audible warning alarm indicating when the vehicle is moving in reverse, GROTE #73030 or approved equal, shall be installed.
- b) A back-up camera shall be installed on the center rear of vehicle (Refer to XXI, k), Item 2).

AS SPECIFIED

AS SPECIFIED

XXV. EMERGENCY ROAD TRIANGLE KIT

- a) Bi-directional emergency triangles, GROTE #71422, or approved equal shall be provided.

AS SPECIFIED

XXVI. FIRE EXTINGUISHER

- a) A 5-pound pressurized dry chemical extinguisher for type A, B and C fires shall be provided and installed. Location to be determined at a time prior to delivery.

AS SPECIFIED

XXVII. INSTRUMENTS AND CONTROLS (RIGHT SIDE)

- a) Shall be equipped with all instruments and controls listed as standard in factory data books. If not listed as standard, the following shall be furnished and installed:
 - (1) Voltmeter.
 - (2) Engine oil pressure gauge.
 - (3) Engine coolant temperature gauge.
 - (4) Transmission temperature gauge.
 - (5) Fuel level gauge.
 - (6) Factory-installed turn signal switch, heavy duty SIGNAL STAT series 900, or approved equal, with green pilot lamps mounted on dash panel, to indicate right or left turns. Shall have an audible turn signal indicator.
 - (7) Tachometer, electric.
 - (8) Speedometer, electric and calibrated to match axle ratio and tires.
- b) All instruments shall be of the analog, direct-reading, illuminated type, and placed at an easy viewing angle.

AS SPECIFIED



AS SPECIFIED

XXVIII. PAINT

- a) All unwelded seams shall be sealed flush, with automotive body caulking compound. All metal work shall be thoroughly cleaned of welding flux, rust, mill scale, dirt and grease and then washed

AS SPECIFIED

BIDDER'S EXCEPTION

- with a metal preparation to provide a good etched surface for paint adherence.
- b) At least one coat of primer shall be applied throughout, spot puttied where required, and sanded to a smooth surface. AS SPECIFIED
- c) Finish coats shall be applied in accordance with paint manufacturer's recommendations, free of runs. All paintwork shall be sprayed. AS SPECIFIED
- d) The entire vehicle (cab, hood, fenders, frame and all grillwork not chromed) to be finished in accordance with the manufacturer's standard practices. Finish coat to be a 2-step base coat/clear coat DUPONT IMRON polyurethane enamel, or approved equal. (Bidder to specify brand). BRAND: _____ AS SPECIFIED
- e) COLOR:
- 1) Cab: WHITE AS SPECIFIED
- 2) Frame, bumper and wheels: BLACK AS SPECIFIED
- 3) Body: WHITE with two (2) 5-inch stripes (colored YELLOW and BLACK) running parallel around body (call for detail). AS SPECIFIED

XXIV. SPECIAL REQUIREMENTS

- a) Operator exposure noise: Shall comply with the Occupational Safety and Health Act (OSHA) sound level (dba) requirement in effect at time of award of this bid, for an 8-hour maximum operator exposure time, measured at operator's ear with engine at governed RPM. AS SPECIFIED
- b) Exterior noise: Shall not exceed 75 dba at a distance of 50 feet in conformity with test procedure SAE Standard J88 and SAE Recommended Practice J184. AS SPECIFIED
- c) Exhaust smoke: Shall meet South Coast Air Quality District (SCAQMD) rules 401 and 402, and / or other applicable rules or regulations in effect on date of award off this bid. AS SPECIFIED
- d) Four (4) key sets shall be furnished with each unit. AS SPECIFIED
- e) One lockable tool box appropriately sized to store one grease gun, reflectors, and one set of wheel chocks. Painted black and mounted at curbside. AS SPECIFIED

BIDDER'S EXCEPTION**XXX. MANUALS**

- a) Successful Bidder shall furnish maintenance, repair, and parts manuals, for a total of three (3) sets for the complete bid package. One set to be on CD for PC, if applicable. All publications to be delivered with first vehicle ordered. AS SPECIFIED
- b) If not included in the above publication requirements, the following publications shall also be provided: AS SPECIFIED
- (1) Illustrated engine and transmission, service and parts manuals, listing all parts and only those parts pertaining directly to the model chassis furnished. There shall be three (3) sets of each total, with one set on CD for PC, if applicable. AS SPECIFIED
- (2) Training CD's, if available.
- (3) For each unit delivered there shall be one line setting ticket or invoice, and one certified weight ticket with front axle, rear axle and tire weight. AS SPECIFIED
- (4) Two operator manuals shall be furnished with each truck. AS SPECIFIED

XXXI. SERVICE AND PARTS

- a) The bidder shall state below, the representatives responsible for assisting the distribution center, which shall furnish a complete supply of parts and components for the repair and maintenance of the cab/chassis units to be supplied. The bidder shall also state below, or by separate attachment, its policy on transportation charges for parts other than those covered by warranty.
- b) Location of nearest Technical Service Representative:
Address: LOS ANGELES TRUCK CENTER WHITTIER, CA
Telephone: 562-447-1200
- c) Location of nearest Distribution Center:
Name: LOS ANGELES TRUCK CENTER
Address: 2429 S. PECK ROAD WHITTIER CA. 90601
Telephone: 562-447-1200
- d) Policy for delivery of parts and components to be purchased for service and maintenance:
Regular method of shipment: UPS OR PARTS TRUCK DELIVERY

BIDDER'S EXCEPTION

Cost to City: NO CHARGE

XXXII. LOADING EQUIPMENT

- a) The loading equipment shall be installed on the truck chassis and shall be integrated in design and construction to work effectively with the hopper and body.
- b) Prior to acceptance by the City, each truck shall be operated to demonstrate that the equipment will collect and compact waste from containers at a rate no less than 350/90-gallon containers per hour in regular and normal use.
- c) The equipment shall be capable of safe, simple and convenient operation from the right hand driving position of the operator.
- d) It shall be capable of engaging, raising, emptying, and setting down containers with a gross weight of 2000 pounds in 8 seconds.
- b) Collection rate to be demonstrated at: 180 containers per hour.
- c) The equipment shall be positioned for travel between containers and to and from the landfill or yard in such a way that the truck will be neither over-width nor over-height and shall comply with the California Vehicle Code.
- d) Arms shall stow within normal vehicle width.
- e) The loader shall be constructed utilizing an inner and outer arm assembly. The inner and outer assembly shall be fabricated rectangular box constructed of ASTM-A-500 Grade B. The inner arm shall glide on an AR400 roller bearing track using five 4" diameter steel roller bearings. Arm pivot pins shall be 2" C1045 heat treated and polished pins with 2" self aligning spherical bearings. Roller bearings shall rotate on adjustable eccentric shafts to compensate for wear.
- f) The equipment shall engage the City's plastic containers with padded spring steel arms which flex as they close around the container. The leading end of the arms shall be equipped with UHMW rollers to guide the arms around the container. The engaging arms shall stow out of the way during transportation between containers by rotating in a horizontal plane away from the container toward the side of the truck. No swinging, arching or kick out of the lift arm is acceptable.

AS SPECIFIED



AS SPECIFIED

BIDDER'S EXCEPTION

XXXIII. TYPE OF ARMS

- a) Arms shall be of the single spring loaded pin type and shall incorporate receiver pockets for easy interchangeably. The newer heavier arms are not acceptable.
- b) An electronic proportional control system shall be provided that will allow the operator to feather the lifting mechanism. The automated lifting mechanism shall be controlled by an electronic operated hydraulic directional control valve. The valve shall respond to proportional outputs from the controller. A color display will be provided in the cab and will feature a function key driven menu system to access system functions
- c) The system shall consist of multiple electrical components multiplexed together using a SAE J1939 Canbus to provide a complete and expandable system with a separate Canbus to communicate with the engine and transmission. A sealed vehicle electrical center shall be used to power high current components and will include fuses and relays for each output.
- d) A multi-function joystick shall include three axis for extending and retracting the lift, raising and lowering the lift and closing and retracting the grippers. The joystick will also include 4 momentary switches for running the functions of pack start, container shake, work lights and grip pressure.
- e) A bank of rocker switches shall be mounted on the right side door sill conveniently located to operate the lift mechanism.
- e) The container shall follow the shortest possible path from its position at rest on the ground to the dumping position over the hopper. During that travel, no portion of the containers shall normally extend more than 13 feet above the ground, for 90 gallon containers, and 14'-6" for 300 gallon containers.
- f) Maximum Container height:

13'	Feet for 90's
14.5'	Feet for 300's
- g) No fixed portion of the loading equipment shall extend below the bottom neither of the truck frame nor outside the 8' legal width when stowed for travel.

AS SPECIFIED



AS SPECIFIED

BIDDER'S EXCEPTION

- h) The arm shall be able to travel at least 72" out from the withdrawn position to grasp containers. It shall be configured to reach 90-gallon containers whose nearest side is at least 84" out from the side of the truck. AS SPECIFIED
- i) The equipment shall be designed to handle 90 or 300-gallon containers separately, or both container sizes interchangeably. The two (2) sets of arms thus required (one for 90's, one for 90/300's), shall be interchangeable without the use of tools in less than two minutes by a skilled operator. AS SPECIFIED
- j) Arm shall incorporate a mechanism to secure arm tightly in place to prevent arm movement while in transit. Operator shall be able to control locking/unlocking function in cab. AS SPECIFIED

XXXIV. COMPACTOR

- a) The packer shall be a platen type design integral with the body. The packing panel top thickness shall be 1/4" AR400 and the panel face plate shall be 3/8" AR400. AS SPECIFIED
- b) The compactor shall be operated by electric over air over hydraulic controls mounted in the cab.
- c) The operator shall have selectable packing options consisting of five functions; manual packing, automatic packing after dumping either one or two containers; or 2 complete packing cycles after dumping one container or 3 complete packing cycles after dumping one container. As the body becomes loaded, the operator shall be notified by a red power light in the control console, to signal maximum compaction power mode.
- d) A two-piece hinged travel cover shall allow simultaneous load and pack and prevent refuse from falling behind the packing panel. The cover shall be 3/16" ASTM-A-715 grade 50 steel and shall incorporate 4 rollers made of self lubricating nylon to reduce noise and wear.
- e) The hopper shall have a minimum storage capacity of 4 cubic yards. The hopper shall have manually operated plastic gull wing covers to cover the load during transport. The hopper shall have an interlock eliminating the ability to dump a container if the hopper covers are closed.
- f) The packing panel shall be actuated by a single stage hydraulic cylinder. The pack cylinder shall AS SPECIFIED

BIDDER'S EXCEPTION

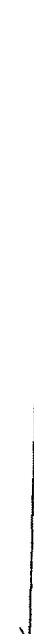
- have a 6" bore and a 4' rod diameter and shall generate a packing force of 83,000 lbs. AS SPECIFIED
- g) In normal operation, the packing panel shall displace material at a minimum rate of 10.5 cubic yards per minute. AS SPECIFIED
- h) The packing panel shall be guided on a single 1/2" X 13 1/4" T rail fabricated from 1/2" AR400 ultra high strength, abrasion resistant steel plate. Packing panel wear shoes shall be 1/4" AR400. AS SPECIFIED

XXXV. BODY

LEGAL ESTIMATED PAYLOAD IS ESTIMATED @ 17,000 LBS WITH A 203" WHEELBASE & A 19 FT. BRIDGE @ 50,000 LB TO REALIZE A 18,000 LB. PAYLOAD @ A 20 FT. BRIDGE ALLOWING 51,000 LBS., WHEELBASE MUST INCREASE FROM 203" TO 208".

- a) The body shall have a minimum space capable of receiving and storing compacted waste of 27 cubic yards (excluding the receiving hopper). It shall have a minimum payload capacity of 18,000 pounds of normal domestic refuse. The body shall be installed, ready for regular use on a cabover truck chassis of proper type and capacity.
Volume of body is: BH27 SPECIAL cubic yards
Payload of body will be: 17,000 pounds
- b) The 33" X 70" packer panel shall travel 52" and extend 10" into the body for better compaction.
- c) The load shall be dumped using hydraulically operated controls mounted in the cab which shall raise the tailgate and the body. The tailgate shall be free of manually operated latching or restraining devices. The tailgate shall incorporate a drip pan under the seal to catch any liquids. The seal on the tailgate shall extend 60" above the floor.
- d) Lights (LED), reflectors and other required accessories shall be furnished and the delivered vehicle shall be certified to comply with all applicable DOT requirements. Mid body turn signals shall be provided.
 - (1) Two (2) 9"X7" LED amber warning lights with adjustable flash patterns (Code3 PSE Model 85BZAH, or approved equal) shall be mounted on each side of rear of body and approximately 120" above the ground.
 - (2) Two aim-adjustable weather-resistant work light (3,000 candlepower minimum) shall be included. One light to illuminate the hopper area and one light to illuminate the lift arm area.

AS SPECIFIED



AS SPECIFIED

BIDDER'S EXCEPTION

- e) Mud flaps and brackets shall be installed and mounted to the tailgate frame and hinge upward with tailgate during the dumping operation. AS SPECIFIED
- f) Length: Body shall be kept as compact as possible to keep wheel base as compact as possible.
- g) Width: 96" maximum
- h) Body height above chassis frame: 98" maximum height from ground to point shall not be exceed when mounted.
- i) Body Accessories:
- 1) Holder or receptacle for storing, one of each, standard-sized push broom and flat shovel. Consult with customer for placement (James: 310.285.2465). AS SPECIFIED

XXXVI. CONSTRUCTION

- a) Body:
- (1) Floor shall be not less than 7 gauge. AS SPECIFIED
- (2) Sides shall be not less than 10 gauge. AS SPECIFIED
- (3) Roof shall be not less than 10 gauge. AS SPECIFIED
- b) Body material thickness:
- Floor: 7 GAUGE ASTM A-715 GR 50
- Sides: 10 GAUGE ASTM A-715 GR 50
- Roof: 10 GAUGE ASTM A-715 GR 50
- c) Hopper:
- (1) Floor shall extend 38" into the body and be not less than 1/4" AR400. AS SPECIFIED
- (2) Sides shall be not less than 3/16" AR400. AS SPECIFIED
- d) Hopper material thickness:
- Floor: 1/4" AR400
- Sides: 3/16" AR400
- e) Reinforcements should be adequate to withstand required loading without warping or distortion. AS SPECIFIED
- f) The body sides and roof shall have a brake-formed radius design providing superior strength. The body sides shall be formed from a one piece panel with no vertical welds seams. The body sides shall incorporate full length steel fenders covering all rear wheels. AS SPECIFIED
- g) The hopper shall have a 28" X 32" access door with a bolt on ladder with grip handles located on

BIDDER'S EXCEPTION

the street side of the hopper. The access door shall be equipped with a safety interlock to disable all functions if the door is opened. It shall have 2 14" X 20" clean-out sump access doors.

AS SPECIFIED

- h) A clean out tool shall be provided on the body.

AS SPECIFIED

XXXVII. HYDRAULIC

- a) The body shall be furnished with a hydraulic oil reservoir with a minimum capacity of 65 gallons. The hydraulic system shall be sealed to prevent the entry of moist or dusty air and engineered to assure that the pump suction is under pressure at all times. The hydraulic reservoir shall be equipped with a fluid level sight glass, temperature gauge and a low level indicator.
- b) The hydraulic reservoir shall be equipped with a 90 degree ball type shut-off valve mounted on tank supply line to hydraulic pump.
- c) The hydraulic system shall include 2 replaceable hydraulic oil filters. One 100 mesh strainer in the suction side and a full flow 10 micron absolute filter in tank return line.
- d) Provision for cooling hydraulic oil shall be made by a self contained air to oil cooler mounted on the body.

AS SPECIFIED



AS SPECIFIED

XXXVIII. POWER SOURCE

- a) The hydraulic system shall be powered by a hot-shift PTO-driven dual vane pump of sufficient capacity to meet requirements for an operate-in-gear-at-idle system. The system shall operate in gear at 800 RPM and achieve 8 second cycle times. Specify:

AS SPECIFIED

Pump make/model: PARKER DENISON / T60DCM

Pump maximum output capacity: 35 GAL PACKER / 31 GAL ARM

- b) The equipment shall be operated by hydraulic cylinders and have position sensors incorporated into the system to provide feedback of the position of the lift arm while raising and dumping the container.
- c) A controller designed for mobile equipment with multiple digital and analog inputs and outputs shall be mounted near the main lifting mechanism hydraulic control valve.

AS SPECIFIED

AS SPECIFIED

BIDDER'S EXCEPTION

- d) Valves shall be of ample size and ratings with ports no smaller than 1/2" NPT and 1" NPT for the packing valve. Each hose shall be assembled with JIC or O-ring Boss. AS SPECIFIED

XXXIV. SAFETY CIRCUIT

- a) The truck should be equipped with a warning system, which shall emit an audible alarm to warn the operator if any of the following events occur: AS SPECIFIED
- (1) The loader arm is not fully retracted. AS SPECIFIED
 - (2) The tailgate is not completely latched. AS SPECIFIED
 - (3) The body is not fully down and resting in the chocks. AS SPECIFIED
- b) The safety circuit shall indicate if the following conditions have been met: AS SPECIFIED
- (1) Loader stowed: YES
 - (2) Tailgate latched: YES
 - (3) Body Chocked: YES

XXXVI. TRAINING

- a) The successful bidder shall provide factory authorized training, to include operation and maintenance procedures to be held at a designated location in the City of Beverly Hills. AS SPECIFIED
- b) Factory training available: YES / NO

XXXVII. WARRANTY

- a) The entire unit shall be warranted against defects in materials and workmanship. The warranties shall cover both parts and labor and begin at the in-service date. AS SPECIFIED

- (1) State standard warranties

Bumper-to-bumper:	1 YEAR - SEE ATTACHED AUTOCAR LLC
Chassis CNG Engine:	2 YEARS OR 250,000 MILES
CNG tanks:	20 YEARS TANKS ONLY.
Transmission:	4 YEARS / UNLIMITED MILES
Loading equipment:	1 YEAR PARTS & LABOR
Hydraulic pump:	1 YEAR PARTS & LABOR

- (2) Optional warranty offerings:

Bumper-to-bumper:	NOT AVAILABLE AT THIS TIME
-------------------	----------------------------

✓ Chassis CNG Engine:	5 YEARS OR 200,000 MILES \$4,150.00
CNG tanks:	CNG SYSTEM 3 YRS. \$750.00
✓ Transmission:	5 YEAR / UNLIMITED \$450.00
✓ Loading equipment:	2 YEAR TOTAL \$3,800.00
Hydraulic pump:	2 YEAR TOTAL \$1,900.00

XXXVIII. MISCELLANEOUS REQUIREMENT

- a) Information for mounted accessories.
- b) State name and contact information of at least five (5) local municipal agencies that currently use a similar machine being offered.

1) CITY OF PASADENA

(Agency Name)

DANIEL AYERS 626-744-3710

(Contact name & telephone number)

2) CITY OF LONG BEACH

(Agency Name)

JOHN SEEVERS 562-570-5406

(Contact name & telephone number)

3) CITY OF SANTA MONICA

(Agency Name)

RICK SIKES 310-458-8514

(Contact name & telephone number)

4) CITY OF REDLANDS

(Agency Name)

MIKE SEPULVEDA

(Contact name & telephone number)

5) CITY OF SAN DIEGO

(Agency Name)

BEN TORRES 858-526-2320

(Contact name & telephone number)

(End of technical specification)

SUBSECTION B - SPECIAL REQUIREMENTS

1. The successful bidder will complete all documents and / or file all applications necessary to obtain exempt registration and license plates for vehicle(s) covered by this bid from the California Department of Motor Vehicles in the name of the City of Beverly Hills, 455 North Rexford Drive, Beverly Hills, California 90210, before the vehicles(s) are delivered. Ownership Certificate(s), Registration(s) and license plates must be delivered with the vehicle(s).
2. Delivery is an important consideration in award of this bid. Bidder will be strictly bound to his commitments.
3. Vehicle(s) covered by this bid, including all equipment and accessories, must comply with all requirements of the California Vehicle and Federal Motor Vehicle Safety Standards for 1997 vehicles, and safety orders of the California Division of Industrial Safety, including all amendments thereto.
4. Bidder is to state warranty period(s) on all vehicle(s).
5. City shall be the sole and final judge of compliance with bid specifications and reserves the exclusive right to award this bid in any manner it deems to be in the best interests of the City.

SECTION IV - BID FORM
(Must be completed by Vendor)

The undersigned proposes to furnish all materials, supplies, equipment or services set forth herein subject to all conditions outlined in the Bid Document, including the general instructions and information to bidders, at prices indicated below:

Bid Proposal: \$ 298,159.00

Payment Terms: NET 30

Exceptions or Deviations attached (Check appropriate box) YES NO

Delivery: 210-240 ARO (Number of Days)

Company Name: LOS ANGELES TRUCK CENTER, LLC dba LOS ANGELES FREIGHTLINER

Address: 2429 S. PECK ROAD WHITTIER, CA. 90601

Telephone: 562-447-1515 Fax: 562-447-1544

Contact Email: RCreighton@lafreightliner.com

Person Submitting Bid: RON CREIGHTON
(Print Name)

Title: MUNICIPAL SALES

Signature: *Ronald J. Creighton*

F.O.B.

All prices of the bid shall be F.O.B. destination Beverly Hills, California; and delivery to any point within Beverly Hills shall be without additional charge.

TAX

All bid proposals shall be exclusive of tax; City staff will compute all tax involved when applicable.

ACCEPTANCE OF PROPOSAL

The City reserves the right to accept or reject any and all bids and reserves the right to waive technicalities where such action best serves the interests of the City. The manufacturer of the proposed materials or equipment may be required to acknowledge by written conformation that the minimum requirements of the specifications are included in the Bidder's proposal before the award of the bid.

EXCEPTIONS

Any bidder's exceptions to these terms or conditions or deviations from the written specifications shall be shown in writing and attached to bid form. However, such exceptions or deviations may result in bid rejection.

INSURANCE (applicable to successful bidder who may come into the City)

- (1) **Commercial general liability** coverage at least as broad as Insurance Services Office Commercial General Liability occurrence coverage ("occurrence" form CG0001, Ed. 11/85) with a limit of not less than \$2,000,000 (Two Million Dollars) per occurrence. If the insurance includes a general aggregate limit, that limit shall apply separately to this contract or it shall be at least twice the required per occurrence limit.
- (2) **Business automobile liability** insurance at least as broad as Insurance Services office form CA 0001 (Ed. 1/87) covering Automobile Liability, code 1 "any auto" and endorsement CA 0029 (Ed. 12/88) with a limit not less than \$1,000,000 (One Million Dollars) per accident.
- (3) **Workers Compensation** Insurance as required by the State of California and **employers liability** insurance with a limit not less than \$1,000,000 (One Million Dollars) per accident.

All insurance coverages shall be provided by insurers with a rating of B+; VII or better in the most recent edition of Best's Key Rating Guide, Property-Casualty Edition.

Work on City property covered by a purchase order cannot be commenced until certificates of insurance have been approved.

Please use the official City of Beverly Hills certificate of insurance form (attached). If you use another form, the following requirements must be met to make the certificates acceptable to the City:

1	name the City of Beverly Hills as additional insured for both GENERAL liability and AUTO liability; and
2	have at least thirty (30) days written notice of cancellation.

All certificates of insurance must remain current until the purchase order expires or is sooner cancelled.

AFTER THE ACCEPTANCE AND AWARD OF THE BID BY THE CITY COUNCIL UPON RECEIPT OF A WRITTEN PURCHASE ORDER EXECUTED BY A PROPER OFFICER OF THE CITY, THIS DOCUMENT WILL CONSTITUTE THE LEGAL CONTRACT BETWEEN THE CITY AND THE SUCCESSFUL BIDDER.

If your response is "NO BID", please explain below:

COMPANY NAME: _____

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

BY: _____
(Print Name)

(Signature)

(Title)

(Date)

PLEASE RETURN TO:

**CITY OF BEVERLY HILLS
OFFICE OF THE CITY CLERK, ROOM 290
455 NORTH REXFORD DRIVE
BEVERLY HILLS, CA 90210**

(Attn: Bid 11-24)

(END)



Autocar, LLC
LIMITED WARRANTY CERTIFICATE

(This warranty certificate is applicable only to vehicles with 2010 emissions compliant engines.
For vehicles built prior to March 2010 with non-2010 emissions compliant engines, refer to document AWO 05003.
For vehicles built prior to 01 January 2007, refer to document AWO 05002.)

THIS DOCUMENT CONSISTS OF TWO PAGES.
PLEASE READ THE IMPORTANT PROVISIONS ON BOTH PAGES OF THIS DOCUMENT.

Autocar, LLC (Autocar) warrants the chassis of each new Autocar low-cab-over-engine class 8 vehicle under original ownership and operated exclusively in the 50 states of the United States of America and in Canada and placed in service in or after 2010 with 2010 emissions compliant engines (Autocar Chassis), specifically excluding the body installed on the chassis, to be free from material defects in materials and workmanship upon the conditions, as limited and as otherwise set forth below and on the second page of this document (Limited Warranty).

1. Warranty Periods (subject to Limitations and Exclusions below and on Page 2)

- A. All warranty periods begin on the date and at the mileage/hours-in-service when the Autocar Chassis is placed in service.
- B. **BASIC WARRANTY TERM:** 12 months, 100,000 miles/161,000 kilometers or 3,000 hours-in-service, whichever occurs first.
- C. **DRIVELINE (CARRIER BEARINGS, HANGERS AND SHAFTS) AND REAR AXLE (DIFFERENTIAL CARRIER ASSEMBLY AND AXLE HOUSING) WARRANTY TERM:** 36 months, 300,000 miles/483,000 kilometers or 9,000 hours-in-service, whichever occurs first.
- D. **CAB WARRANTY TERM:** 60 months, 500,000 miles/805,000 kilometers or 15,000 hours-in-service, whichever occurs first, for cab structure. 36 months, 300,000 miles/483 kilometers or 9,000 hours-in-service, whichever occurs first, for cab corrosion, limited to metal perforation (surface corrosion not covered).
- E. **FRAME, CROSS MEMBERS AND FRAME BRACKETS FOR ENGINE/SUSPENSION MOUNTING WARRANTY TERM:** 60 months, 500,000 miles/805,000 kilometers or 15,000 hours-in-service, whichever occurs first.

2. Autocar's Obligations and Discretion

- A. Autocar's obligations are limited to the repair or replacement, at its sole option, of parts or components of the Autocar Chassis which are determined by Autocar in its sole discretion to be defective. At Autocar's option, parts or components may be replaced with factory rebuilds. Replaced parts or components are the property of Autocar.
- B. Warranty repairs and replacements performed by an authorized Autocar dealer or authorized repair facility in accordance with the terms of this Limited Warranty are free of charge to the original owner of the Autocar Chassis.

3. Limitations

- A. This Limited Warranty is not extended for any time out of service for repairs.
- B. This Limited Warranty covers only defects which are brought to the attention of an authorized Autocar dealer or authorized repair facility immediately upon discovery.
- C. **THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY PROVIDED BY AUTOCAR FOR YOUR AUTOCAR CHASSIS. AUTOCAR ASSUMES NO OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH YOUR AUTOCAR CHASSIS OR YOUR VEHICLE. AUTOCAR DOES NOT AUTHORIZE YOUR SELLING DEALER, YOUR BODY MANUFACTURER OR ANY OTHER PERSON OR ENTITY TO ALTER, AMEND OR OTHERWISE CHANGE THIS LIMITED WARRANTY IN ANY MANNER.**
- D. **AUTOCAR IS NOT RESPONSIBLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSES YOU MAY CLAIM AS A RESULT OF THE USE OF YOUR AUTOCAR CHASSIS, INCLUDING BUT NOT LIMITED TO LOSS OF INCOME, DOWNTIME EXPENSES AND ANY OTHER COMMERCIAL LOSSES.**
- E. **THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, STATUTORY OR OTHERWISE, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**



- F. Autocar reserves the right to make changes at any time in the design, materials and specifications of the Autocar Chassis and has no obligation to make similar changes or updates in Autocar Chassis manufactured previously.
- G. Autocar will not be responsible for warranty claims, product liability claims or the cost of recall actions resulting from improper conversion or body installation performed by third parties engaged by the original owner.

4. Exclusions (NOT covered by this Limited Warranty)

- A. **ENGINE, TIRES AND AUTOMATIC TRANSMISSION:** The engine, tires and automatic transmission are not covered by this Limited Warranty and are warranted by their respective manufacturers.
- B. **DAMAGE:** Damage due to accidents, misuse, negligence, improper operation, storage or transport, operation at excessive speeds, loading beyond the factory rated load capacity, failure to promptly bring a defect to the attention of an authorized Autocar dealer or authorized repair facility immediately upon discovery and improper or insufficient required maintenance.
- C. **APPLICATION:** Problems with configuration for the Autocar Chassis' application, including but not limited to incorrect axle or transmission gear ratios, failures caused by operation in excess of factory-rated load capacities or failures caused by use in a manner for which the Autocar Chassis was not intended. The selling dealer has responsibility for determining and documenting the correct use and application of the Autocar Chassis by the owner in the final order configuration. Autocar must have access to all data stored in all electronic control modules of the Autocar Chassis; denial of access may result in loss of warranty coverage.
- D. **ENVIRONMENTAL DAMAGE:** Damage to parts made out of cloth, leather, wood, rubber, synthetics, paint or chrome which have been exposed to the elements or chemicals, including but not limited to road salts, industrial fall-out or improper cleaners, polishes or waxes.
- E. **GLASS:** Glass breakage and scratches (unless proof of material defect is established to Autocar's reasonable satisfaction).
- F. **SEVERE SERVICE:** Failure due to severe service of suspension parts, including but not limited to rubber bushings, torque rod bushings, spring pins and bushings.
- G. **ALTERATIONS:** Any Autocar Chassis repaired, maintained or altered in any manner inconsistent with Autocar service policies and procedures or by a third party other than an authorized Autocar dealer or authorized repair facility.
- H. **INSTALLED BODY AND OTHER EQUIPMENT:** Failure, damage or defects caused by, and repairs and replacements necessitated by, improper conversion or installation of bodies or equipment by third party manufacturers, body builders, converters or suppliers, including without limitation modification of the Autocar Chassis, or modification or removal of a component, in violation of Federal Motor Vehicle Safety Standards, the Incomplete Vehicle Document provided with the Autocar Chassis or the Body Builder's Installation Manual or comparable document issued by Autocar and applicable to the vehicle.
- I. **ROUTINE MAINTENANCE:** Routine maintenance, including but not limited to replacement of oil filters, adjustments of the engine, injection pump, transmission, brakes and linkages, and all related adjustments, diagnoses and tests. Parts normally consumed or worn out during a vehicle's normal service life and customarily replaced during routine maintenance, including but not limited to bulbs, brake and clutch linings, bushings, belts and wiper blades are not covered after the first 30 days of the term of this Limited Warranty.
- J. **ALIGNMENT:** Alignment of axles and balancing of tires, including but not limited to changing of axle camber, caster, toe and thrust angle settings.
- K. **NON-GENUINE PARTS:** Any Autocar Chassis repaired by use of parts, accessories, assemblies and exchange units which are not genuine Autocar replacement parts.
- L. **CAB STRUCTURE AND CORROSION:** Structural defects or corrosion that occur in areas of the cab that have been previously damaged, repaired, altered or modified.
- M. **ALTERED ODOMETER READING:** Any Autocar Chassis on which the odometer has been disconnected or the mileage reading has been altered.
- N. **CERTAIN LABOR:** Premium for overtime labor and shift differential and additional labor for an otherwise warrantable repair due to conversion or installation of bodies or equipment by third party manufacturers, body builders, converters or suppliers.
- O. **MISCELLANEOUS EXPENSE:** Road service, towing, rental expenses, meals, lodging, telephone calls, travel time, loss of cargo, downtime, shop supplies, lube oil, lubricants, sealers, anti-freeze, filter elements and labor performed by parties other than an authorized Autocar dealer or authorized repair facility.
- P. **ADDITIONAL COMPONENTS:** Accessories, components or parts that are not installed by an authorized Autocar dealer or authorized repair facility.



ACX64

Refuse Parts & Maintenance-Autocar Trucks d/b/a
LA Freightliner
2429 S Peck Rd
Whittier, CA 90601

Prepared By : RON CREIGHTON
562-447-1515
rcreighton@lafreightliner.com

Prepared For : RENE BIADOMA
CITY OF BEVERLY HILLS

Saturday, June 25, 2011 12:32:38 AM EST

Prepared By RON CREIGHTON
 Quote Id : 11-24 ASL 3 AXLE
 Phone : 562-447-1515
 Order : 20005326
 Lead Unit Sales Order : 20005326

Prepared For RENE BIADOMA
 CITY OF BEVERLY HILLS

Vehicle Specification

		Description	Front Weight	Rear Weight	Price
AUTOCAR TRUCKS					
O	BNG0001	ENGINEERING GROUP IDENTIFIER	AUTOCAR ENGINEERING	0	0
S	0040002	MODELS	ACX64	10,589	6,198
O	5000002	CAB SHELL	SINGLE RIGHT HAND DRIVE CAB	0	0
O	100U001	CUSTOMER TYPE	MUNICIPAL	0	0
SOLUTION					
O	C01004	APPLICATION	REFUSE - TRANSFER STATION	0	0
O	C02004	BODY TYPE	AUTOMATED SIDE LOADER	0	0
O	C03002	TERRITORY	WEST COAST	0	0
O	C06909	BODY STYLE	WAYNE CURBTENDER	0	0
O	C05999	BODY CAPACITY	UNDETERMINED OR N/A	0	0
O	D010200	FRONT GAWR	20000 LBS	0	0
O	D020400	REAR GAWR	40000 LBS	0	0
O	D100600	GVWR	60000 LBS	0	0
VEHICLE ADAPTATION					
O	1140005	COUNTRY OF USE	CALIFORNIA SPECIFIC U.S. VEHICLE ADAPTATION	0	0
ENGINE					
S	1580001	ENGINE VOCATION	COMMERCIAL - DOMESTIC (DOT)	0	0
O	1010026	ENGINE ASSY	ISL G, 320 HP @ 2200/1000 LB-FT. CUMMINS-WESTPORT	-390	0
O	4460002	FUEL TYPE	COMPRESSED NATURAL GAS	0	0
O	972A004	SPECIAL EMISSION CERTIFICATION LABELS	CALIFORNIA C.A.R.B. CERT.- NAT. GAS (NO LABEL REQUIRED)	0	0
ENGINE EQUIP					
O	122002	PTO-ENGINE FRONT	ADAPTER FOR SPICER 1350	29	-3
S	128071	ENGINE CONTROL SPECIFICATIONS	DEFAULT SPECS	0	0
A	P010061	VEHICLE GOVERNED SPEED LIMIT	SPEED LIMIT 61MPH (limited by prop shaft calcs)	0	0
O	P020002	ENGINE IDLE SHUT DOWN	ENGINE IDLE SHUT DOWN DISABLED	0	0
O	129024	ENGINE ELECTRONICS	CUMMINS GAS, CM556	0	0

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S	P030001	CRUISE CONTROL PARAMETER	CRUISE CONTROL ENABLED	0	0
S	132034	ENGINE PROTECT SYSTEM/WARNINGS	AUDIBLE/VISUAL ALARM/LOP, HT, LWL	0	0
O	438998	FILTER-FUEL, CHASSIS MOUNTED	NO ADDITIONAL FUEL FILTER PROVIDED	-3	0
O	170104	FILTER-FUEL, ENGINE MOUNTED	NATURAL GAS FUEL CLEANER	0	0
S	1750001	ENGINE OIL	STANDARD ENGINE OIL	0	0
S	2000004	RADIATOR	1300 SQ. IN., 2-ROW HIGH CAPACITY ALUMINUM	0	0
S	2080001	FAN & DRIVE-ENGINE	2-SPEED FAN	0	0
S	2090001	RADIATOR COOLANT	EXTENDED LIFE COOLANT	0	0
S	2120001	RADIATOR SURGE TANK	SURGE TANK WITH REMOTE FILL	0	0
S	2200001	AIR CLEANER	15" ONE STAGE BPG CLEANER DONALDSON	0	0
S	226001	AIR INTAKE RAIN CAP	BLACK, HOOD TYPE	0	0
O	227001	AIR INTAKE PRECLEANER	DONALDSON	24	0
O	230022	MUFFLER SYSTEM	SINGLE VERTICAL - RH SIDE	0	0
O	231001	EXHAUST SHIELDS	STAINLESS STEEL VERT MUFF SHIELD-SINGLE	0	0
S	2320003	EXHAUST STACKS	VERTICAL DIFFUSER, SINGLE STAINLESS STEEL	0	0
O	239998	UREA DELIVERY SYSTEM	NO DEF TANK PROVIDED	-30	-4
S	5300001	ENGINE/EXHAUST COVER	ALUM TURBO/EXHAUST PIPE DEBRIS SHIELD	0	0
S	700026	AIR COMPRESSOR	CUMMINS WABCO 18.7 CFM COMPRESSOR	0	0
O	8020002	ALTERNATOR	LEECE NEVILLE 12V 200 AMP 4900	5	0
O	8200003	STARTING MOTOR	DELCO REMY 12V 39 MT W/OCP	0	0

TRANSMISSION

S	2580003	VOCATION	RDS REFUSE - VOC 400-XXX	0	0
O	269024	CONTROL MODULE (ELECT)	BASIC REFUSE GRP104, VP144	0	0
O	2700022	TRANSMISSION	ALLISON 3000 SERIES, 6- SPEED	-324	-59
S	284016	TRANSMISSION CONTROLS	ALLISON PUSHBUTTON CONTROLS	0	0
S	286005	COOLER-TRANSMISSION OIL	OIL TO WATER TYPE	0	0
S	290003	TRANSMISSION OIL FILL/CHECK	OIL FILL TUBE / DIPSTICK W/ LEVEL SENSOR	0	0
S	292004	TRANSMISSION LUBRICANT	TRANSYND SYNTHETIC AUTO TRANS FLUID	0	0

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S	300011	DRIVESHAFT-MAIN	SPICER 1760HD HALF ROUND	0	0
X	3170007	PTO-TRANSMISSION MOUNTED	CHELSEA 890 PTO CLEARANCE (PREP ONLY)	5	0

FRONT AXLE -> FRONT AXLE

S	3700002	FRONT AXLE	MERITOR MPS-20 STEER AXLE, 20000# CAPACITY	0	0
O	3690005	FRONT AXLE POSITION	52.5 INCHES	0	0
O	3710003	FRONT SUSPENSION	TAPER LEAF REDUCED RIDE HEIGHT, 22,000 LB CAPACITY	-100	0
O	371701	SUSPENSION, FRONT AUX	AUX LOAD CUSHION	10	0
S	373002	SHOCK ABSORBERS- FRONT	DOUBLE ACTING SINGLE - HEAVY DUTY	0	0
S	904011	HUBS-FRONT	STEEL HUB PILOTED,285MM BOLT CIRCLE	0	0
S	9400001	WHEEL OIL SEALS-FRONT	SCOTSEAL PLUS XL	0	0
S	9210001	HUB CAPS - FRONT AXLE	CR ZYTEL HUBCAP	0	0
O	374002	FRONT AXLE LUBRICANT	SYNTHETIC,DANA SPICER EP75W90,OR EQUIV	0	0
O	7510001	BRAKES-FOUNDATION, FRONT AXLE	ARVIN MERITOR FRONT 16.5X7" QP REFUSE BRAKE	29	0
O	754012	BRAKE SLACK ADJUSTERS -FRONT AXLE	HALDEX AUTOMATIC	0	0
S	755001	DUST SHIELDS - FRT BRAKES	DUST SHIELDS - FRONT BRAKES	0	0
S	901001	BRAKE DRUM-FRONT	CAST IRON	0	0
S	387003	POWER STEERING RESERVOIR	FOUR QUART REMOTE MOUNTED	0	0

REAR AXLE -> REAR AXLE

S	330440	REAR DRIVE AXLE-SINGLE & TANDEM	ARVIN MERITOR RT40-145 40,000 LB	0	0
S	330098	REAR AXLE LUBE PUMP	NO LUBRICATION PUMP	0	0
O	331586	REAR DRIVE AXLE RATIO	5.86	0	0
S	3500003	REAR SUSPENSION	HENDRICKSON HMX-400 SUSP @ 54" AS	0	0
S	351013	REAR SUSPENSION BEAMS	54 INCH STEEL RUBBER BUSHED	0	0
S	358005	TORQUE RODS	LONGITUDINAL & TRANSVERSE - RUBBER BUSHED	0	0
O	359001	SHOCK ABSORBERS-REAR	4 SHOCK ABSORBERS HENDRICKSON SUSPENSION	0	31
O	9130002	HUBS-REAR	ALUM HUB, HP 10 STUD	0	-108
S	3400001	REAR AXLE BREATHER	STANDARD AXLE BREATHER	0	0
S	9410001	WHEEL OIL SEALS-REAR	SCOTSEAL PLUS XL	0	0
O	339002	REAR AXLE LUBRICANT	SYNTHETIC	0	0

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O	7610001	BRAKES-FOUNDATION, REAR AXLE	ARVIN MERITOR 16.5X8.62" QP REFUSE BRAKE	0	42
O	764007	BRAKE SLACK ADJUSTERS -REAR AXLE	HALDEX AUTOMATIC TANDEM	0	0
S	765001	DUST SHIELDS - REAR BRAKES	DUST SHIELDS - REAR BRAKES	0	0
S	781012	BRAKE CHAMBERS- PARKING, TYPE/VENDOR	CAM TYPE MGM STOPGARD (4)	0	0
S	910001	BRAKE DRUM-REAR	CAST IRON	0	0

BRAKES

S	729002	AIR LINES-PARKING BRAKE, CHASSIS	AIR LINES CHASSIS PARK BRAKE	0	0
O	741048	BRAKE CONTROL SYSTEM	BENDIX ABS WITH FULL TRACTION CONTROL	0	0

CHASSIS

O	400210	WHEELBASE	210 INCHES	2	2
O	402074	FRAME-REAR OVERHANG	74"	42	-150
X	403012	FRAME RAILS	3/8" VARIABLE DROP STEEL, EXT B	0	0
S	409002	FRAME CROSSMEMBER- CENTER	ALUMINUM	0	0
O	4100002	MISC TSO OPTIONS	KEEP RH RAIL CLEAR	0	0
S	4110002	FRAME CROSSMEMBER- END CLOSING	ALUMINUM MEMBER-IF REQUIRED	0	0
S	4120002	FRAME BOLTS	HUCKSPIN RR SUSP & CROSSMEMBERS	0	0

CHASSIS -> FUEL TANKS

O	430800	FUEL TANK-LEFT	ALTERNATE FUEL ENGINE- NO LH TANK	-29	-59
O	431800	FUEL TANK-RIGHT	ALTERNATE FUEL ENGINE- NO RH TANK	0	0
S	4280001	DRILLING FUEL TK SUPT- LEFT	FUEL TANK MTD FWD LHS - STANDARD (IF PROVIDED)	0	0

CHASSIS

O	436023	FUEL LINES	STAINLESS STEEL FOR CNG OR LNG	0	0
S	460001	BUMPER-FRONT	STEEL PAINTED	0	0
S	480002	TOWING DEVICE-FRONT	TWO REMOVABLE TOW PINS	0	0

CHASSIS -> AIR TANKS

O	7090001	AIR TANK DRILLING	AS MANY TANKS IN RAIL AS POSSIBLE	0	0
O	7110002	AIR TANK-BRAKE	ALUMINUM AIR TANKS	-15	-31

CHASSIS -> AIR DRYER

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S	713023	AIR DRYER	BENDIX ADIP W/HEAT	0	0
O	7100001	AIR DRYER DRILLING	MOUNT AIR DRYER INSIDE RAIL, LHS	0	0

CHASSIS

S	715002	WET TANK DRAIN	BENDIX D/V-2 AUTOMATIC	0	0
O	7157003	AIR RESERVOIR DRAIN SYSTEM	CENTRAL MANIFOLD W/ PETCOCKS	2	2
S	724001	AIR LINES-CAB	SAE J844 NYLON TUBING	0	0
S	728001	AIR LINES-MAIN, CHASSIS	SAE J844 NYLON TUBING	0	0
O	7380001	EMERGENCY AIR SYSTEM CHARGING	SCHRADER VALVE, WET TANK MTD	1	0

CHASSIS -> BATTERY BOX

S	8120005	BATTERY BOX	STEEL BOX, 3 BATTERY, LHS	0	0
O	8160006	BATTERY BOX SPACERS	BATTERY BOX SPACED 2", DROPPED 8"	7	2
S	810089	BATTERY	3 JOHNSON CONTROL 31ECL 12V 2250CCA	0	0
S	8140002	BATTERY SHUT-OFF SWITCH	SHUTOFF W/LOCKOUT, NO EMERGENCY JUMPER STUDS	0	0
S	8090001	BATTERY BOX DRILLING	BOX LOCATED AS FAR FORWARD AS POSSIBLE	0	0

CHASSIS

O	8740001	WIRING, BODY INTERFACE	BODYBUILDER JUNCTION BOX @ BOC	6	0
O	892009	BACKUP ALARM	ECCO RMS 917 WITH MOTION DETECTOR	0	2

CAB EXTERIOR

S	50A0001	CAB APPEARANCE	ACX MY2012 FACELIFT	0	0
S	4510001	STEP-CAB ACCESS, CAB MOUNTED	DUAL SELF CLEANING CAB ENTRANCE STEPS	0	0
S	462004	MUD FLAPS-FRONT WHEEL	FRONT FLAPS	0	0
S	502001	CAB DOORS	STEEL	0	0
O	502703	DOOR CHECK STRAPS	L.H. & R.H. DOOR CHECK STRAP	2	0
O	512010	POWER WINDOWS	DUAL POWER WINDOWS	8	2
S	622003	MIRRORS-DUAL WEST COAST	STAINLESS STEEL	0	0
O	6190001	MIRROR ARMS	SHORT ARM RETRACT, STAINLESS STEEL	0	0
S	623026	MIRRORS-AUXILIARY	L&R 8" SS/OFFSET BALL STUD GROTE 12173	0	0
O	6180002	DOWN VIEW MIRRORS	SINGLE DOWN VIEW MIRROR, LH SIDE	0	0
S	6240001	GRAB HANDLES-ENTRY	BRUSHED SS GRAB HANDLES	0	0

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S	630026	HORN-AIR	TWIN MOUNTED UNDER CAB	0	0
S	631001	HORN-ELECTRIC	SINGLE	0	0
S	661001	CAB TILT MECHANISM- C.O.E.	HYDRAULIC TILT	0	0
S	6720001	GRILLE	AUTOCAR GRILLE	0	0
S	675001	BUG SCREENS	BUG SCREEN MOUNTED BEHIND GRILLE	0	0
S	6910001	FENDER EXTENSIONS- FRONT	IMPACT RESISTANT POLY FENDER	0	0

CAB INTERIOR

S	3800001	STEERING WHEEL	16" DIA WHEEL, 2 SPOKE	0	0
S	3810001	STEERING COLUMN	ADJUSTABLE TILT STEERING COLUMN	0	0
S	520234	SEAT-DRIVER	NATIONAL CUSH II LOW BACK, AIR RIDE	0	0
S	521110	SEAT-PASSENGER	FIXED TYPE, LOW BACK	0	0
S	522003	SEAT BELTS-DRIVER	THREE POINT RETRACTABLE	0	0
S	523003	SEAT BELTS-PASSENGER	THREE POINT RETRACTABLE	0	0
S	526014	SEAT INSERT	BLACK CORDURA	0	0
S	538001	CARPET & MAT	MAT WITH FOAM BACK	0	0
S	5390001	CAB INTERIOR	AUTOTUFF INTERIOR UPHOLSTERY	0	0
S	5930001	ASH TRAY	ASHTRAY MTD IN CONSOLE	0	0

CAB CLIMATE CONTROL

O	060001	CAB TEMPERATURE SYSTEM	AIR COND INTEGRAL WITH HEATER/DEFROSTER	138	-27
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GAUGES & INSTRUMENTATION

S	0570002	INSTRUMENTS SALES PKG	STANDARD GAUGES	0	0
S	1430001	TRUCK ELECTRICAL CONTROL MODULE	VANSCO ELECTRICAL CONTROL MODULE W/NO MONITOR	0	0
S	1360001	TACHOMETER/RPM TACHOGRAPH	ELECTRONIC TACHOMETER WITH HOURMETER	0	0
O	1390001	GAUGE-ENGINE OIL TEMPERATURE	ELECTRONIC ENGINE OIL TEMPERATURE	0	0
S	225009	AIR INTAKE RESTRICTION INDICATOR	GRADUATED, AIR CLEANER MOUNTED	0	0
O	2880001	MONITORING - TRANSMISSION OIL TEMP	TRANS OIL TEMP GAUGE W/ LIGHT & BUZZ	0	0
O	3190001	PTO CONTROLS	PTO ELECTRIC CONTROL SWITCH	1	0
O	8040001	VOLTMETER/AMMETER	ELECTRONIC VOLTMETER	0	0

LIGHTING

S	836005	LAMPS-HEAD	SINGLE ROUND HALOGEN	0	0
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Prepared By RON CREIGHTON
 Quote Id : 11-24 ASL 3 AXLE
 Phone : 562-447-1515
 Order : 20005326
 Lead Unit Sales Order : 20005326

Prepared For RENE BIADOMA
 CITY OF BEVERLY HILLS

S	8410002	LAMPS-TURN SIGNAL - FRONT	LED FRONT TURN SIGNALS	0	0
S	8440003	SWITCH-TURN SIGNAL & FLASHER	SELF-CANCELING TURN SIGNALS	0	0
S	8510002	LAMPS-MARKER	AMBER LED ROOF MARKERS	0	0
O	8520001	LAMPS-PARKING	CORNER MARKER LAMP WIRED TO BATTERY SHUT OFF	1	0
S	859001	LAMPS-RUNNING	DAYTIME	0	0
S	8700001	CIRCUIT PROTECTION DEVICE	AUTO CIRCUIT BREAKERS	0	0

RADIO/MISC

O	5090001	KEY & LOCK SETS-IGN/DOORS	2 ADDITIONAL KEYS PER TRUCK (4 TOTAL)	1	0
O	511006	VISIBILITY WINDOW	RH & LH DOOR, W/LH FRESNEL LENS	8	0
O	5900006	RADIO	AM/FM RADIO, ROOF MOUNTED	13	-4
O	5910002	ANTENNA/POWER SUPPLY	ANTENNA - ROOF MOUNTED	0	0
O	596005	RADIO SPEAKERS	2 DUAL CONE SPEAKERS	0	0
O	962003	FIRE EXTINGUISHER	DRY TYPE ABC 5LB. CAP MTD. IN CAB	2	0

FRONT TIRES / WHEELS

S	9050015	WHEELS-DISC FRONT	22.5x9.0 STEEL HP, 5.25" INSET, 5HH	0	0
S	905T98	SPARE WHEELS FRONT	NO SPARE FRONT WHEELS	0	0
S	930469	TIRE SIZE & LOAD RANGE - FRONT	315/80R22.5 L-20PR TUBELESS TYPE RADIAL	0	0
S	9310039	TIRE MANUFACTURER & TREAD - FRONT	GOODYEAR G289 WHA	0	0
S	931T98	SPARE FRONT TIRE	NO SPARE FRONT TIRES	0	0

REAR TIRES / WHEELS

S	9140014	WHEELS-DISC REAR	22.5X8.25 STEEL, HP, 5HH	0	0
O	914T01	SPARE WHEELS REAR	ONE (1) SPARE TO MATCH SELECTED REAR WHEELS	0	0
S	933062	TIRE SIZE & LOAD RANGE - REAR	11R22.5 H 16 PR	0	0
S	9340043	TIRE MANUFACTURER & TREAD - REAR	GOODYEAR G182 RSD	0	0
O	934T001	SPARE REAR TIRE	ONE (1) SPARE MTD ON WHBL TO MATCH RR TIRES	0	0

PAINT

S	950001	CAB PAINT SCHEME	SINGLE COLOR PAINT	0	0
S	9550001	CAB PAINT TYPE	STANDARD WHITE	0	0

Prepared By RON CREIGHTON
 Quote Id : 11-24 ASL 3 AXLE
 Phone : 562-447-1515
 Order : 20005326
 Lead Unit Sales Order : 20005326

Prepared For RENE BIADOMA
 CITY OF BEVERLY HILLS

S	9801001	CAB COLOR-FIRST	APPROVED--DPSS-N0007-- STANDARD WHITE N0007	0	0
S	9861U1	CHASSIS COLOR	BLACK P3036	0	0
S	987949	BUMPER COLOR	SAME AS CHASSIS,UNPAINTED ALUM OR CHROME	0	0
A	9880001	DISC WHEEL OR RIM COLOR	CUSTOM COLOR - BLACK, SAME AS CHASSIS	0	0

ADDITIONAL OPTIONS

S	899002	CHASSIS WARRANTY	STANDARD WARRANTY	0	0
O	899A006	TRANSMISSION WARRANTY	ALLISON 5YR EDGE WARRANTY	0	0
S	899B001	ENGINE WARRANTY	CUMMINS STANDARD WARRANTY	0	0
S	978015	FLOOR PLAN	15 DAYS FLOORING	0	0
A	969V002	ADDITIONAL PRICE ADJUSTMENT	TEMPORARY INFLATION ADJUSTMENT	0	0

SUB TOTALS

BASE WEIGHT	10,589	6,198
FACTORY OPTION WEIGHT	-527	-362
DEALER OPTION WEIGHT	0	0

TOTALS

TOTAL WEIGHT (LB)	10,062	5,836	15,898
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ITEM	City of Beverly Hills Autocar ACX64 Chassis	City of Long Beach Autocar ACX64 Chassis	24-Jun-11
Total Chassis Cost	\$205,573.00	\$183,595.00	-\$21,978.00
	2011 Model Year Chassis	2012 Model Year Chassis	\$4,322.00
	60 Gal dge CNG Roof Mtd Fuel System	100 Gal LNG Fuel Tank	-\$6,435.00
	Auto Lube System	None	-\$2,484.00
	S.I. Routeman On Board Scale System	Stress-Tek Vulcan Scale System	-\$3,700.00
	11R22.5 Rear Tires	315/80R22.5 Rear Tires	\$2,412.00
	none	Dual Low Entry Cab Option	\$10,000.00
	Klam Driveline Retarder	None	-\$9,962.00
Chassis Difference			-\$27,825.00
	>>>	>>>	

Body Cost	Curbtender Refuse Body	Cobra 20 YD REL Refuse Body	
	\$92,586.00	\$61,267.00	-\$31,319.00
	Star Strobe Light System	Peterson Smart Light System	\$1,485.00
	None	Perkins Dual Cart Tippers D6220	\$11,670.00
		Extra Hopper Liner	\$2,430.00
Freight Delivered			
Body Difference			-\$15,734.00
	>>>	>>>	
Total Difference			-\$43,559.00



AGENDA REPORT

Meeting Date: April 21, 2011

Item Number:

To: Honorable Mayor & City Council

From: Shana Epstein, Environmental Utilities Manager
Rene Biadoma, Fleet Manager

Subject: **APPROPRIATION OF FUNDS IN THE AMOUNT OF \$216,669.00 FROM FUND 83 RESERVES INTO THE VEHICLE REPLACEMENT PROGRAM FUND 49 TO COMPLETE THE FUNDING FOR REPLACEMENT OF TWO COMPRESSED-NATURAL-GAS-POWERED (CNG) SOLID-WASTE-COLLECTION TRUCKS; AND**

APPROVAL OF A PURCHASE ORDER TO LOS ANGELES TRUCK CENTER, LLC FOR A TOTAL NOT-TO-EXCEED AMOUNT OF \$672,897.00 FOR PURCHASE OF TWO SUBJECT TRUCKS.

Attachment: 1. Bid Proposal for Bid 11-24 from Los Angeles Truck Center, LLC

RECOMMENDATION

Staff recommends that the City Council move to: 1) appropriate funds in the amount of \$216,669.00 as follows:

	From		To
\$216,669.00	Fund 83 Reserve	\$216,669.00	35498502 – Vehicle Replacement Program

2) approve a purchase order in the not-to-exceed amount of \$672,897.00 to Los Angeles Truck Center, LLC for purchase of two (2) subject trucks.

INTRODUCTION

This report constitutes a request for City Council approval to appropriate an additional \$216,669.00 and for the issuance of a purchase order in the amount of \$672,897.00 to Los Angeles Truck Center, LLC for the purchase of two (2) CNG-powered solid-waste-collection vehicles to replace two (2) diesel-powered solid-waste-collection vehicles that have either reached or exceeded their economical life cycle. This purchase also facilitates the achievement of goals spelled out in the "Beverly Hills Sustainable City

Plan" and compliance with requirements stipulated in the grant contract between the City and the South Coast Air Quality Management District (SCAQMD) which will provide grant assistance of \$25,000.00 per vehicle. In so doing, the City will also comply with the mandates of AQMD Rule 1193, the alternative fuels requirement for all heavy duty, on-road refuse trucks.

DISCUSSION

The City owns and operates a fleet of twelve heavy-duty trucks for its residential solid-waste-collection program. Eight of these trucks are 2005 Sterling Condors with "Heil Rapid Rail" automated side-loader bodies. This group of vehicles has been used exclusively for the collection and hauling of residential refuse from the City of Beverly Hills to the Crown Disposal facility. This operation has taken its toll on the vehicles' mechanical systems including the power train and loading components. Despite the concerted effort of the Fleet Services' technicians and truck operators to keep these vehicles in service, the overall cost of maintaining these machines warrants their replacement at this time. Following an annual evaluation of the City's solid-waste collection program, staffs from the Fleet Services and the Solid Waste Divisions have determined that the current fleet of Sterling Condor trucks needs to be cycled out from service as soon as each vehicle becomes eligible for replacement.

In order to sustain the collection program's demanding operation, Solid Waste staff also recommended, with Fleet Services' concurrence, that replacement of two solid-waste-collection trucks be initiated during the Fiscal Year 2011. This early procurement processing is predicated by the vehicle's long build time and delivery. This schedule will also facilitate the City's timely compliance with the MSRC grant contract between the City of Beverly Hills and the SCAQMD. This grant contract stipulates procurement of ten (10) alternative-fueled heavy-duty trucks, including four (4) solid-waste trucks, to replace an equal number of in-use diesel-powered vehicles.

After a more detailed review of the solid-waste fleet's maintenance history, staff recommended the following vehicles for replacement:

<u>ID #</u>	<u>YEAR/MAKE/MODEL</u>	<u>PROGRAM NO. / DESCRIPTION</u>
257	2005 Sterling Condor / Heil Body	8305201 / Solid Waste Residential
259	2005 Sterling Condor / Heil Body	8305201 / Solid Waste Residential

Relative to the City's unique residential environment, staff has determined that only two trash-collection systems could be effectively employed in and around the residential areas. These are the "Heil Rapid Rail" and the "Wayne Curbtender" systems. Staff is extremely familiar with the Heil system since it has been in City service for the past fifteen years. To prequalify the "Wayne Curbtender," staff arranged for a product demonstration to ensure the equipment's viability for City use. After a week-long demonstration, staff incorporated the feedback provided by the operators into "Bid 11-24." This bid garnered two proposals from the same local truck dealership offering the "Heil Rapid Rail" and the "Wayne Curbtender" systems. No other bids were received despite public noticing and industry outreach. Summary of these proposals is as follows:

Vendor Name	Chassis / Body System	Unit Base Price
Los Angeles Truck Center, LLC dba Los Angeles Freightliner	Autocar ACX64R / <u>Heil Rapid Rail</u>	\$293,203.00
Los Angeles Truck Center, LLC	Autocar ACX64R / <u>Wayne</u>	\$298,159.00

dba Los Angeles Freightliner	<u>Curbtender</u>	
------------------------------	-------------------	--

After a thorough deliberation, all members of the selection committee unanimously agreed that, despite being higher by \$4,956.00, the "Wayne Curbtender" system is a superior machine in many respects. To justify their recommendation, members of the committee have highlighted the following major advantages:

- **Packer system.** The Wayne Curbtender packer system is a platen-type design made of abrasion-resistant steel. With this design a flat-plate panel pushes directly on waste debris enabling trash to be compacted uniformly throughout the entire volume of the body. With the Heil's paddle system, compaction is achieved by the alternating (left and right) movement of a paddle, much like a rudder on a ship. Operators, who have operated both types of machines, have found that the platen-type system is far more efficient than the paddle system. Maintenance records also showed that the Heil paddle components on the City's trucks required replacement about every three years at a cost of roughly \$5,000.00. Current users of the Wayne Curbtender have indicated that the platen-type design has lasted up to seven years before needing any major repairs.
- **Loader Assembly.** The Wayne Curbtender loading arm is composed of an outer arm and an inner arm. Only the lighter inner arm, which rides on rollers, slides within the stationary outer arm; whereas, on the Heil Rapid Rail, the entire mass of the loading-arm assembly, which also rides on rollers, moves on the rail. Records have also shown that the Heil's rail and carriage assembly had to be completely refurbished after two years of service at a cost of roughly \$5,500.00
- **Hopper Assembly.** The Wayne hopper assembly is constructed of abrasion-resistant alloy steel, unlike the Heil's hopper, which is fabricated out of regular carbon steel.

The above advantages, along with many other superior technology and engineering features, underscore the Wayne Curbtender's superiority over the Heil's. The committee firmly believes that, in the long run, the vehicle with the Wayne Curbtender body will have far better reliability and will also be cheaper to own.

FISCAL IMPACT

Details of this purchase are shown in Attachment (1) and summarized below:

One (1) Truck, CNG-powered, Autocar ACX64X, mounted with Wayne Curbtender solid-waste collection body, as more specifically specified in Bid 11-24. \$298,159.00

Optional warranties

Cummins CNG Engine – 5 Years / 200,000 Miles \$4,150.00

Transmission (5 years/Unlimited mileage) \$450.00

Loading Equipment (2 years) \$3,800.00

Subtotal: \$306,559.00

Tax (9.75%): \$29889.50

Per-unit Price: \$336,448.50

Total Cost (2X) \$672,897.00

Meeting Date: July 22, 2010

Anticipating the higher cost of replacing existing diesel-powered trucks with trucks that are powered with cleaner and sustainable fuels, staff had factored the added replacement cost of these vehicles in the rate-increase adjustment previously approved by the Council.

As shown in the appropriation request, funding for this purchase will be appropriated from the following sources:

- \$216,669.00 Fund 83 – Solid Waste Fund Balance
- \$456,228.00 Fund 49 – 35498502 Vehicle Replacement Program, Account 85050, Council-approved budget for the current Fiscal Year 2011

Per the grant contract with the SCAQMD, the City will be reimbursed a total of \$50,000.00 as subvention for the purchase of the two CNG-fueled vehicles. Once received, this reimbursement amount will then be returned into Fund 83 fund balance.

Scott G. Miller
Finance Approval

David D. Gustavson
Approved By

EXHIBIT “B”



IS A DIVISION OF VELOCITY VEHICLE GROUP



SALES
Toll Free (800) 366-4621
Reception (562) 447-1200

PARTS (877) Parts-LA
SERVICE (866) FTL-TRKS
COLLISION CENTER (562) 447-1257

2429 S. Peck Road, Whittier CA 90601 www.LAFreightliner.com

Ron Creighton Ph#: 562/447-1515 Cell: 562/755-6108 Email: RCreighton@lafreightliner.com

Purchaser's Name(s) CITY OF LONG BEACH Stock # DE-11926/2011-9932
Address 2600 TEMPLE AVE Date 06/28/2011
City LONG BEACH State CA Bus Phone (562)570-5400
County Los Angeles Zip 90806 Call Phone 562-254-6747
Fax Phone

New/Used	Make	Model	Year	Color	To Be Delivered On Or About				
New	AUTOCAR	ACX64	2012	WHITE	2/29/2012				
Type of Vehicle	Serial Number	Mileage			Price Per Unit	Quantity			
Truck	FACTORY ORDER				\$254,600.00	3			
Cash Price Of Base Vehicle						\$763,800.00			
Additional Options:									
OPTION: FOR DUAL 72 + 52 GALLON LNG FUEL TANK ADD \$11,600.00 TO BASE VEHICLE PRICE.									
FET Tire Credit \$0.00					Doc Fee / Prep Fee	\$55.00	\$165.00		
County Los Angeles					Total	\$254,655.00	\$763,965.00		
GVWR/GCWR 60000					California Tire Recycle Fee	\$17.50	\$52.50		
					FET	\$0.00			
					Sales Tax 9.750000	\$24,828.86	\$74,486.58		
					License/Registration Fee	\$0.00			
					O/S Delivery Fee	\$0.00			
					Total Cash Delivered Price	\$279,501.36	\$838,504.08		
CASH					Cash down	Check/PO#	Deposit on Order		
					payment		Deposit Each	\$32,000.00	\$96,000.00
							Cash on Delivery Each	\$0.00	
Description Of Trade-In					Appraisal Allow. For Used Vehicle Trade				
Make	Model	Type	Year	Quantity	Less Balance Owning to				
Eng. No.	VIN No.			License No	Trade in Allowance				
					Amount Due Upon Delivery		\$742,504.08		

ONLY THOSE ITEMS AND SERVICES SPECIFICALLY WRITTEN ON THIS ORDER ARE INCLUDED IN THE STATED PRICE. ANY OTHER AGREEMENTS, UNLESS IN WRITING, ARE NOT BINDING ON SELLER.

The first and second pages of this Order comprise the entire agreement affecting this purchase and no other agreement or understanding of any nature concerning this purchase has been made or entered into, or will be recognized. I hereby certify that no credit has been extended to me for the purchase of this motor vehicle except as appears in writing on the face of this agreement.

I have read and understand the second page of this agreement and agree to it as a part of this order the same as if it were printed above my signature. I certify that I am of legal age, or older, that I have legal capacity and authority to execute this agreement on behalf of my company, and hereby acknowledge receipt of a copy of this order.

CITY OF LONG BEACH

Purchaser's Name

Ron Creighton

Sales Person

Purchaser's Signature

Approved By:

This order is not valid unless signed and accepted by dealer

Sep 9 2011 6:09PM

Los Angeles Freightliner - Western Star - Mitsubishi

2429 South Peck Road
Whittier, CA 90601
(562) 447-1200
Fax (562) 447-1271

18900 South Susana Road
Long Beach, CA 90221
(562) 415-2200
Fax (562) 415-2220

Los Angeles Freightliner - Western Star - Mitsubishi

13800 Valley Boulevard
Fontana, CA 92335
(909) 510-4000
Fax (909) 510-4050

Collison Center

1031 East Holt Boulevard
Ontario, CA 91761
(909) 510-4100
Fax (909) 510-4125

Las Vegas Freightliner - Sterling - Western Star

3701 Freightliner Drive
North Las Vegas, NV 89081
(702) 643-0728
Fax (702) 643-0728

San Diego Freightliner

7451 Trade Street
San Diego, CA 92121
(619) 564-3700
Fax (619) 564-3716

SelectTrucks of Las Vegas

3701 Freightliner Drive
North Las Vegas, NV 89081
(702) 657-1110
Fax (702) 657-1518

BusWest - Main

21107 South Chico Street
Carson, CA 90745
(310) 984-3900
Fax (310) 984-3996

High Desert Truck & Trailer

8995 Three Flags Avenue
Hesperia, CA 92345
(760) 946-6442
Fax (760) 948-5553

South Bay Truck Center

21107 South Chico Street
Carson, CA 90745
(310) 984-3950
Fax (310) 984-3975

Silver State Truck & Trailer

7465 Dean Martin Drive
Unit 103
Las Vegas, NV 89139
(702) 476-9320
Fax (702) 405-4385

June 29, 2011

Mr. John Seevers
Superintendent of Acquisitions
City of Long Beach
Fleet Services Bureau
2600 Temple Avenue
Long Beach, CA. 90806
Re: Add on to City of Beverly Hills



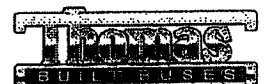
Dear Mr. Seevers,

Included in its entirety are the specifications and pricing for Bid #11-24 from the City of Beverly Hills that has been awarded to Los Angeles Freightliner Purchase Order No. 11201404 for two 2011 Autocar Refuse Collection Vehicle awarded on 4/26/2011.

This contract that was awarded to Los Angeles Freightliner was a competitive bid process. Due to this event, Los Angeles Freightliner as prime bidder will allow the City of Long Beach to add onto this contract for the proposed seventeen refuse collection vehicles. Also, Los Angeles Freightliner and Autocar Truck, LLC are offering to The City of Long Beach (3) three California Energy Commission credits in the total amount of \$96,000.00 for the purchase of a minimum of (17) seventeen refuse trucks in the fiscal years of 2011-2012. These credits must be committed to by the City of Long Beach by August 5, 2011 by providing a purchase order. Los Angeles Freightliner has met with representatives from Long Beach Development Agency and is in the process of acquiring office space within the City of Long Beach. Los Angeles Freightliner is also making available a 1% early payment discount after taxes if paid within 21 days of invoicing to the City of Long Beach

Pricing also includes travel, hotel accommodations for up to three persons from the City of Long Beach to our manufacturing facility in Hagerstown, Indiana for vehicle inspection and review.

Best Regards,
Ron Creighton
Los Angeles Truck Center, LLC
562-447-1515 office
562-447-1544 e-fax
RCreighton@lafreightliner.com





ACX64

Refuse Parts & Maintenance-Autocar Trucks d/b/a
LA Freightliner
2429 S Peck Rd
Whittier, CA 90601



Prepared For : JOHN SEEVERS
CITY OF LONG BEACH

Saturday, June 25, 2011 1:00:08 AM EST

Prepared By RON CREIGHTON
 Quote Id : RH REL
 Phone : 562-447-1515
 Quote Number : Q0014151

Prepared For JOHN SEEVERS
 CITY OF LONG BEACH

Vehicle Specification

		Description	Front Weight	Rear Weight	Price
AUTOCAR TRUCKS					
S	0040002	MODELS	ACX64	10,589	6,198
O	5000002	CAB SHELL	SINGLE RIGHT HAND DRIVE CAB	0	0
SOLUTION					
O	C01004	APPLICATION	REFUSE - TRANSFER STATION	0	0
O	C02003	BODY TYPE	REAR END LOADER	0	0
O	C03002	TERRITORY	WEST COAST	0	0
O	C06304	BODY STYLE	MCNEILUS STANDARD	0	0
O	C05999	BODY CAPACITY	UNDETERMINED OR N/A	0	0
O	D010200	FRONT GAWR	20000 LBS	0	0
O	D020400	REAR GAWR	40000 LBS	0	0
O	D100600	GVWR	60000 LBS	0	0
VEHICLE ADAPTATION					
O	1140005	COUNTRY OF USE	CALIFORNIA SPECIFIC U.S. VEHICLE ADAPTATION	0	0
ENGINE					
S	1580001	ENGINE VOCATION	COMMERCIAL - DOMESTIC (DOT)	0	0
O	1010026	ENGINE ASSY	ISL G ,320 HP @ 2200/1000 LB- FT, CUMMINS-WESTPORT	-390	0
O	4460003	FUEL TYPE	LIQUIFIED NATURAL GAS	0	0
O	972A004	SPECIAL EMISSION CERTIFICATION LABELS	CALIFORNIA C.A.R.B. CERT.- NAT. GAS (NO LABEL REQUIRED)	0	0
ENGINE EQUIP					
O	122002	PTO-ENGINE FRONT	ADAPTER FOR SPICER 1350	29	-3
S	128071	ENGINE CONTROL SPECIFICATIONS	DEFAULT SPECS	0	0
A	P010061	VEHICLE GOVERNED SPEED LIMIT	SPEED LIMIT 61MPH (limited by prop shaft calcs)	0	0
O	P020002	ENGINE IDLE SHUT DOWN	ENGINE IDLE SHUT DOWN DISABLED	0	0
O	129024	ENGINE ELECTRONICS	CUMMINS GAS, CM556	0	0
S	P030001	CRUISE CONTROL PARAMETER	CRUISE CONTROL ENABLED	0	0

Prepared By RON CREIGHTON
 Quote Id : RH REL
 Phone : 562-447-1515
 Quote Number : Q0014151

Prepared For JOHN SEEVERS
 CITY OF LONG BEACH

S	132034	ENGINE PROTECT SYSTEM/WARNINGS	AUDIBLE/VISUAL ALARM/LOP, HT, LWL	0	0
O	438998	FILTER-FUEL, CHASSIS MOUNTED	NO ADDITIONAL FUEL FILTER PROVIDED	-3	0
O	170104	FILTER-FUEL, ENGINE MOUNTED	NATURAL GAS FUEL CLEANER	0	0
S	1750001	ENGINE OIL	STANDARD ENGINE OIL	0	0
S	2000004	RADIATOR	1300 SQ. IN., 2-ROW HIGH CAPACITY ALUMINUM	0	0
S	2080001	FAN & DRIVE-ENGINE	2-SPEED FAN	0	0
S	2090001	RADIATOR COOLANT	EXTENDED LIFE COOLANT	0	0
S	2120001	RADIATOR SURGE TANK	SURGE TANK WITH REMOTE FILL	0	0
O	2200002	AIR CLEANER	15" ONE STAGE EPG CLEANER W/SAFETY ELEMENT DONALDSON	3	0
O	226002	AIR INTAKE RAIN CAP	CHROME PLATED HOOD TYPE	0	0
O	227001	AIR INTAKE PRECLEANER	DONALDSON	24	0
O	230103	MUFFLER SYSTEM	SINGLE VERTICAL-LEFT HAND SIDE	70	5
O	231001	EXHAUST SHIELDS	STAINLESS STEEL VERT MUFF SHIELD-SINGLE	0	0
S	2320003	EXHAUST STACKS	VERTICAL DIFFUSER, SINGLE STAINLESS STEEL	0	0
O	239998	UREA DELIVERY SYSTEM	NO DEF TANK PROVIDED	-30	-4
S	5300001	ENGINE/EXHAUST COVER	ALUM TURBO/EXHAUST PIPE DEBRIS SHIELD	0	0
S	700026	AIR COMPRESSOR	CUMMINS WABCO 18.7 CFM COMPRESSOR	0	0
O	8020002	ALTERNATOR	L&ECC NEVILLE 12V 200 AMP 4900	5	0
O	8200003	STARTING MOTOR	DELCO REMY 12V 39 MT W/OCP	0	0

TRANSMISSION

S	2580003	VOCATION	RDS REFUSE - VOC 400-XXX	0	0
O	269027	CONTROL MODULE (ELECT)	REFUSE W/ AN & SERVICE BRAKE GRP106, VP170	0	0
O	2700021	TRANSMISSION	ALLISON 3000 SERIES, 5-SPEED	-324	-59
S	284016	TRANSMISSION CONTROLS	ALLISON PUSHBUTTON CONTROLS	0	0
S	286005	COOLER-TRANSMISSION OIL	OIL TO WATER TYPE	0	0
S	290003	TRANSMISSION OIL FILL/CHECK	OIL FILL TUBE / DIPSTICK W/ LEVEL SENSOR	0	0
S	292004	TRANSMISSION LUBRICANT	TRANSYND SYNTHETIC AUTO TRANS FLUID	0	0

Prepared By RON CREIGHTON
 Quote Id : RH REL
 Phone : 562-447-1515
 Quote Number : Q0014151

Prepared For JOHN SEEVERS
 CITY OF LONG BEACH

S	300011	DRIVESHAFT-MAIN	SPICER 1760HD HALF ROUND	0	0
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FRONT AXLE -> FRONT AXLE

S	3700002	FRONT AXLE	MERITOR MPS-20 STEER AXLE, 20000# CAPACITY	0	0
S	3690003	FRONT AXLE POSITION	53.5 INCHES	0	0
O	3710003	FRONT SUSPENSION	TAPER LEAF REDUCED RIDE HEIGHT, 22,000 LB CAPACITY	-100	0
O	371701	SUSPENSION, FRONT AUX	AUX LOAD CUSHION	10	0
S	373002	SHOCK ABSORBERS- FRONT	DOUBLE ACTING SINGLE - HEAVY DUTY	0	0
O	904012	HUBS-FRONT	ALUMINUM HUB PILOTED, 285MM BOLT CIRCLE	-44	0
S	9400001	WHEEL OIL SEALS-FRONT	SCOTSEAL PLUS XL	0	0
S	9210001	HUB CAPS - FRONT AXLE	CR ZYTEL HUBCAP	0	0
O	374002	FRONT AXLE LUBRICANT	SYNTHETIC, DANA SPICER EP75W90, OR EQUIV	0	0
O	7510001	BRAKES-FOUNDATION, FRONT AXLE	ARVIN MERITOR FRONT 16.5X7" QP REFUSE BRAKE	29	0
S	754009	BRAKE SLACK ADJUSTERS -FRONT AXLE	ARVIN MERITOR AUTOMATIC	0	0
S	755001	DUST SHIELDS - FRT BRAKES	DUST SHIELDS - FRONT BRAKES	0	0
S	901001	BRAKE DRUM-FRONT	CAST IRON	0	0
S	387003	POWER STEERING RESERVOIR	FOUR QUART REMOTE MOUNTED	0	0

REAR AXLE -> REAR AXLE

S	330440	REAR DRIVE AXLE-SINGLE & TANDEM	ARVIN MERITOR RT40-145 40,000 LB	0	0
S	330U98	REAR AXLE LUBE PUMP	NO LUBRICATION PUMP	0	0
O	331614	REAR DRIVE AXLE RATIO	6.14	0	0
S	3500003	REAR SUSPENSION	HENDRICKSON HMX-400 SUSP @ 54" AS	0	0
S	351013	REAR SUSPENSION BEAMS	54 INCH STEEL RUBBER BUSHED	0	0
S	358005	TORQUE RODS	LONGITUDINAL & TRANSVERSE - RUBBER BUSHED	0	0
O	359001	SHOCK ABSORBERS-REAR	4 SHOCK ABSORBERS HENDRICKSON SUSPENSION	0	31
O	9130002	HUBS-REAR	ALUM HUB, HP 10 STUD	0	-108
S	3400001	REAR AXLE BREATHER	STANDARD AXLE BREATHER	0	0
S	9410001	WHEEL OIL SEALS-REAR	SCOTSEAL PLUS XL	0	0
O	339002	REAR AXLE LUBRICANT	SYNTHETIC	0	0
O	7610001	BRAKES-FOUNDATION, REAR AXLE	ARVIN MERITOR 16.5X8.62" QP REFUSE BRAKE	0	42

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S	764013	BRAKE SLACK ADJUSTERS -REAR AXLE	ARVIN MERITOR AUTOMATIC,TANDEM AXLE	0	0
S	765001	DUST SHIELDS - REAR BRAKES	DUST SHIELDS - REAR BRAKES	0	0
S	781012	BRAKE CHAMBERS- PARKING, TYPE/VENDOR	CAM TYPE MGM STOPGARD (4)	0	0
S	910001	BRAKE DRUM-REAR	CAST IRON	0	0

BRAKES

O	729003	AIR LINES-PARKING BRAKE, CHASSIS	WORK BRAKE; YELLOW VALVE ACTIVATED	5	5
S	741047	BRAKE CONTROL SYSTEM	BENDIX ABS	0	0

CHASSIS

O	400152	WHEELBASE	152 INCHES	-90	-111
O	402056	FRAME-REAR OVERHANG	56"	59	-231
O	403011	FRAME RAILS	3/8" VARIABLE DROP STEEL, EXT A	-28	0
S	409002	FRAME CROSSMEMBER- CENTER	ALUMINUM	0	0
O	4100002	MISC TSO OPTIONS	KEEP RH RAIL CLEAR	0	0
S	4110002	FRAME CROSSMEMBER- END CLOSING	ALUMINUM MEMBER-IF REQUIRED	0	0
S	4120002	FRAME BOLTS	HUCKSPIN RR SUSP & CROSSMEMBERS	0	0

CHASSIS -> FUEL TANKS

O	430800	FUEL TANK-LEFT	ALTERNATE FUEL ENGINE- NO LH TANK	-29	-59
O	431800	FUEL TANK-RIGHT	ALTERNATE FUEL ENGINE- NO RH TANK	0	0
S	4280001	DRILLING FUEL TK SUPT- LEFT	FUEL TANK MTD FWD LHS - STANDARD (IF PROVIDED)	0	0

CHASSIS

O	436023	FUEL LINES	STAINLESS STEEL FOR CNG OR LNG	0	0
S	460001	BUMPER-FRONT	STEEL PAINTED	0	0
S	480002	TOWING DEVICE-FRONT	TWO REMOVABLE TOW PINS	0	0

CHASSIS -> AIR TANKS

O	7090001	AIR TANK DRILLING	AS MANY TANKS IN RAIL AS POSSIBLE	0	0
O	7110002	AIR TANK-BRAKE	ALUMINUM AIR TANKS	-15	-31

CHASSIS -> AIR DRYER

S	713023	AIR DRYER	BENDIX ADIP W/HEAT	0	0
O	7100001	AIR DRYER DRILLING	MOUNT AIR DRYER INSIDE RAIL, LHS	0	0

CHASSIS

S	715002	WET TANK DRAIN	BENDIX D/V-2 AUTOMATIC	0	0
O	715T003	AIR RESERVOIR DRAIN SYSTEM	CENTRAL MANIFOLD W/ PBTCKS	2	2
S	724001	AIR LINES-CAB	SAE J844 NYLON TUBING	0	0
S	728001	AIR LINES-MAIN, CHASSIS	SAE J844 NYLON TUBING	0	0

CHASSIS -> BATTERY BOX

O	8120007	BATTERY BOX	STEEL BOX W/ ALUM LID, 3 BATTERY, LHS	-10	0
O	8160006	BATTERY BOX SPACERS	BATTERY BOX SPACED 2", DROPPED 8"	7	2
S	810089	BATTERY	3 JOHNSON CONTROL 31BCL 12V 2250CCA	0	0
S	8140002	BATTERY SHUT-OFF SWITCH	SHUTOFF W/ LOCKOUT, NO EMERGENCY JUMPER STUDS	0	0
S	8090001	BATTERY BOX DRILLING	BOX LOCATED AS FAR FORWARD AS POSSIBLE	0	0

CHASSIS

O	8740001	WIRING, BODY INTERFACE	BODYBUILDER JUNCTION BOX @ BOC	6	0
O	892009	BACKUP ALARM	ECCO RMS 917 WITH MOTION DETECTOR	0	2

CAB EXTERIOR

S	4510001	STEP-CAB ACCESS, CAB MOUNTED	DUAL SELF CLEANING CAB ENTRANCE STEPS	0	0
S	462004	MUD FLAPS-FRONT WHEEL	FRONT FLAPS	0	0
S	502001	CAB DOORS	STEEL	0	0
S	502T98	DOOR CHECK STRAPS	WITHOUT DOOR CHECK STRAP	0	0
S	622003	MIRRORS-DUAL WEST COAST	STAINLESS STEEL	0	0
O	6190001	MIRROR ARMS	SHORT ARM RETRACT, STAINLESS STEEL	0	0
S	623026	MIRRORS-AUXILIARY	L&R 8" SS/OFFSET BALL STUD GROTE 12173	0	0
O	618998	DOWN VIEW MIRRORS	NO DOWN VIEW MIRRORS PROVIDED	-2	0
S	6240001	GRAB HANDLES-ENTRY	BRUSHED SS GRAB HANDLES	0	0
S	630026	HORN-AIR	TWIN MOUNTED UNDER CAB	0	0
S	631001	HORN-ELECTRIC	SINGLE	0	0
O	661002	CAB TILT MECHANISM-C.O.E.	HYDRAULIC TILT WITH AIR ASSIST	20	0
O	6720004	GRILLE	CHROMED AUTOCAR GRILLE	0	0

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S	675001	BUG SCREENS	BUG SCREEN MOUNTED BEHIND GRILLE	0	0
S	6910001	FENDER EXTENSIONS- FRONT	IMPACT RESISTANT POLY FENDER	0	0

CAB INTERIOR

S	3800001	STEERING WHEEL	16" DIA. WHEEL, 2 SPOKE	0	0
S	3810001	STEERING COLUMN	ADJUSTABLE TILT STEERING COLUMN	0	0
O	5200003	SEAT-DRIVER	BOSTROM T905 MID-BACK, AIR RIDE	2	0
S	521110	SEAT-PASSENGER	FIXED TYPE, LOW BACK	0	0
S	522003	SEAT BELTS-DRIVER	THREE POINT RETRACTABLE	0	0
S	523003	SEAT BELTS-PASSENGER	THREE POINT RETRACTABLE	0	0
S	526014	SEAT INSERT	BLACK CORDURA	0	0
S	538001	CARPET & MAT	MAT WITH FOAM BACK	0	0
S	5390001	CAB INTERIOR	AUTOTUFF INTERIOR UPHOLSTERY	0	0
S	5930001	ASH TRAY	ASHTRAY MTD IN CONSOLE	0	0

CAB CLIMATE CONTROL

O	060001	CAB TEMPERATURE SYSTEM	AIR COND INTEGRAL WITH HEATER/DEFROSTER	138	-27
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GAUGES & INSTRUMENTATION

S	0570002	INSTRUMENTS SALES PKG	STANDARD GAUGES	0	0
S	1430001	TRUCK ELECTRICAL CONTROL MODULE	VANSCO ELECTRICAL CONTROL MODULE W/NO MONITOR	0	0
O	1440001	DRIVER INFORMATION CENTER	DATA DISPLAY WITH OPTIONAL GAUGES	0	0
S	1360001	TACHOMETER/RPM TACHOGRAPH	ELECTRONIC TACHOMETER WITH HOURMETER	0	0
O	1390001	GAUGE-ENGINE OIL TEMPERATURE	ELECTRONIC ENGINE OIL TEMPERATURE	0	0
S	225009	AIR INTAKE RESTRICTION INDICATOR	GRADUATED, AIR CLEANER MOUNTED	0	0
O	2880001	MONITORING - TRANSMISSION OIL TEMP	TRANS OIL TEMP GAUGE W/ LIGHT & BUZZ	0	0
O	3360002	GAUGE-REAR AXLE LUBE TEMPERATURE	ELECTRONIC REAR AXLE LUBE TEMP. - DUAL	0	0
O	7210001	GAUGE-AIR PRESSURE, ADDITIONAL	ELECTRONIC SERVICE BRAKE APPLICATION	0	0
O	8040001	VOLTMETER/AMMETER	ELECTRONIC VOLTMETER	0	0

LIGHTING

S	836005	LAMPS-HEAD	SINGLE ROUND HALOGEN	0	0
S	8410002	LAMPS-TURN SIGNAL - FRONT	LED FRONT TURN SIGNALS	0	0

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S	8440003	SWITCH-TURN SIGNAL & FLASHER	SELF-CANCELING TURN SIGNALS	0	0
S	8510002	LAMPS-MARKER	AMBER LED ROOF MARKERS	0	0
O	8520001	LAMPS-PARKING	CORNER MARKER LAMP WIRED TO BATTERY SHUT OFF	1	0
S	859001	LAMPS-RUNNING	DAYTIME	0	0
S	8700001	CIRCUIT PROTECTION DEVICE	AUTO CIRCUIT BREAKERS	0	0

RADIO/MISC

O	5090001	KEY & LOCK SETS-IGN/DOORS	2 ADDITIONAL KEYS PER TRUCK (4 TOTAL)	1	0
O	5900002	RADIO	AM/FM / CD STEREO, ROOF MTD	13	-4
O	5910002	ANTENNA/POWER SUPPLY	ANTENNA - ROOF MOUNTED	0	0
O	596005	RADIO SPEAKERS	2 DUAL CONE SPEAKERS	0	0
O	962003	FIRE EXTINGUISHER	DRY TYPE ABC 5LB. CAP MTD. IN CAB	2	0

FRONT TIRES / WHEELS

O	9050001	WHEELS-DISC FRONT	22.5X9.0" ACCU ALUM, HP 3.12" INSET, #40012	-96	0
O	905T01	SPARE WHEELS FRONT	ONE (1) SPARE TO MATCH SELECTED FRT WHEELS	0	0
O	924001	WHEEL POLISHING & BRIGHTWORK-FRONT AXLE	POLISHING FOR ALUMINUM DISC WHEELS	0	0
S	930469	TIRE SIZE & LOAD RANGE - FRONT	315/80R22.5 L-20PR TUBELESS TYPE RADIAL	0	0
S	9310039	TIRE MANUFACTURER & TREAD - FRONT	GOODYEAR G289 WHA	0	0
O	931T001	SPARE FRONT TIRE	ONE (1) SPARE MTD ON WHEEL TO MATCH FRT TIRES	0	0

REAR TIRES / WHEELS

O	914101	WHEELS-DISC REAR	22.5X9.00" ACCURIDE ALUM, HP, #29730	0	-112
O	914T01	SPARE WHEELS REAR	ONE (1) SPARE TO MATCH SELECTED REAR WHEELS	0	0
O	925002	WHEEL POLISHING & BRIGHTWORK-REAR AXLE	POLISHING-OUTER ALUM.DISC WHEELS TANDEM	0	0
O	933469	TIRE SIZE & LOAD RANGE - REAR	315/80R22.5 L-20PR TUBELESS TYPE RADIAL	0	0
O	9340039	TIRE MANUFACTURER & TREAD - REAR	GOODYEAR G289 WHA	0	144



RAY GASKIN SERVICE
14572 RANCHO VISTA DR
FONTANA, CA 92335
Phone 909-574-7000 Fax 909-574-7005

2011-2012 NEWWAY COBRA

20 cubic yard body, 1 year warranty
Full installation
Auto tailgate locks or turnbuckle type
Auto back pack
All L.E.D. lights
In-body oil tank (standard not conversion)
In-body eject/tailgate lift controls (standard)
Hydraulic temp. oil gauge
Front pump system
Rear container kick-bar
2- Perkins cart tippers D6220
Peterson smart strobe
Body roof hose cover
(2) Hopper lights
1 Intec camera system/with camera assist lights
Valcon scale system
Body side door/ladder
"Keep Distance" decal on tailgate
Factory paint (Long Beach Blue)
Cylinder Warranty "2" years
Side Steps
Hopper heavy duty liner, floor, back, sides ¼"



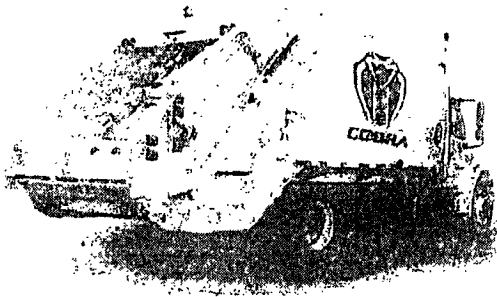
NEW WAY
Living The Difference

Front Loaders | Rear Loaders | Side Loaders | Satellites | CNG | Testimonials

Cobra | King Cobra | Cobra Magnum | Diamondback | Viper

Cobra™ Rear Loader

The New Way Cobra is the contractor's choice with its outstanding compaction. In a lightweight 20 yd³ body. Add in the Cobra's large 3 yd³ hopper, available in 9 to 25 yd³ capacities, a variety of container handling options, and you'll understand why the Cobra is setting the standard in the industry.



- Weight: 9,290-12,200 lbs. *
- Capacity: 9-25 yd³
- Hopper Cycle Time: 26-30 sec.
- [Contact a Dealer »](#)
- [Product Inquiry »](#)
- [Product Flyer »](#)

General Specs Hydraulic Cylinder Specs Chassis Min Requirements

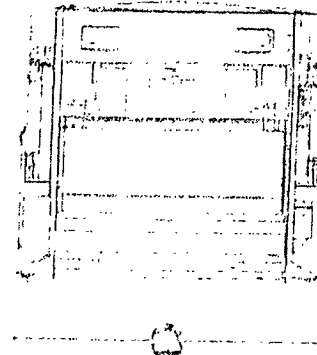
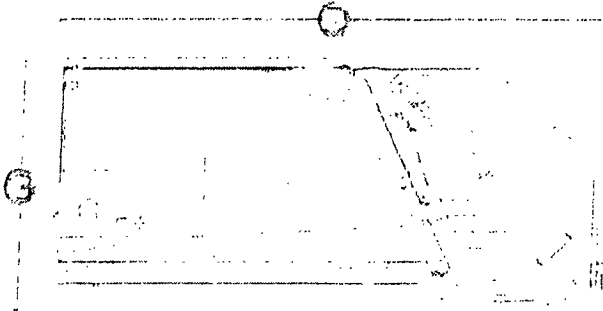
General Specifications (standard)

Model	9 RL	11 RL	13 RL	16 RL	18 RL	20 RL	25 RL
Body Capacity	9 yd ³	11 yd ³	13 yd ³	16 yd ³	18 yd ³	20 yd ³	25 yd ³
Body Width (A)	82"	96"	96"	96"	96"	96"	96"
Body Length (B)	191.5"	191.5"	209.5"	212.5"	227"	244.5"	270"
Body Height (C)	71"	71"	71"	83"	83"	83"	94"
Approx. Body Weight * (Empty & Exclusive of Options)	9,290 lbs.	9,650 lbs.	10,012 lbs.	10,323 lbs.	10,750 lbs.	11,227 lbs.	12,200 lbs.
Hopper Capacity	2 yd ³	2.5 yd ³	2.5 yd ³	3 yd ³	3 yd ³	3 yd ³	3 yd ³
Hopper Opening Width	60"	74"	74"	74"	74"	74"	74"
Hopper Load Height	Frame	Frame	Frame	Frame	Frame	Frame	Frame
Hopper Cycle Time (sec)	26-30	26-30	26-30	26-30	26-30	26-30	26-30

± - Length measured depends on options ordered

* - Approximate Body Weight empty and exclusive of options

** - Any Chassis sent to Scranton Manufacturing with less than the minimum guideline requirements will not be mounted (Chassis must be capable of carrying the net weight of the body plus the weight of the refuse collected)



Cobra Body Construction (High Tensile Steel)

Roof	10 GA	80K GR
Sides	10 GA	80K GR
Floor (sides)	10 GA	80K GR
Floor (center)	1/4"	50K GR
Ejection Panel	10 GA	50K GR
Sweep Panel	1/4"	50K GR
Tailgate (upper)	10 GA	50K GR
Tailgate (lower)	7 GA	50K GR
Hopper Floor (back)	1/4"	100K GR
Side Panel	7 GA	50K GR
Hopper Floor	1/4"	50K GR

Cobra Hydraulic Systems

	US	Metric
Oil Reservoir	40-45 gal	151-170 L
Min. Accept. Oil Flow	20 GPM	76 LPM
Oil Flow w/std Pump	29 GPM	110 GPM
Max. Oper. Pressure	2,000 PSI	13,790 KPA
Engine RPM for STD GPM	1,200-1,500	
Hydraulic Hoses	4 to 1 Burst	
Hydraulic Filter	10 micron	

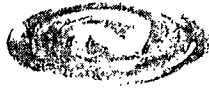
Standard Equipment

- Semi Automatic Cycling
- Auto Back Pack
- Accelerator Kit
- Auto-Lock Tailgate
- Back Up Alarm
- All LED Lights
- Hydraulic Tank Temperature Gauge
- Right Side Hydraulic Tank Access Port
- ICC Lights and Reflectors
- Sight Gauge on Oil Tank
- Oil Pressure Gauge
- Chrome Cylinders
- Side Access Door
- Driver Alert Buzzer
- Tailgate Ajar Indicator
- Light Bar
- Bolt on Steps on Rear
- Prime Paint
- Pump
- Rear Vision Camera System

Optional Equipment

- Special Lighting
- PTO
- Finish Paint-Imron 5000
- Container Lifts
- Pack at idle
- Hopper Liners
- Magnum Steel Package
- Scale System





Driving The Difference

Cobra

NEW WAY Rear Loading Refuse Collection Truck Body Specifications

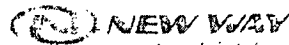
SCOPE: It is the intent of this specification to describe a hydraulically actuated packer body of the rear loading type with the following minimum specifications considered necessary to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispersing the load by means of hydraulic ejection. The body shall not be required to be tilted, lifted, or otherwise displaced from the chassis in order to eject the load.

GENERAL: All equipment furnished under this contract shall be new and unused, and the same as the manufacturers current production model. Accessories not specifically mentioned, but necessary to furnish a complete unit ready for use shall also be included. The equipment furnished shall conform to all ANSI Safety Standards A245.1-1984.

SPECIFICATIONS

Bidder Shall Complete the Following
If No, State Specifically the Item being Offered

	YES	NO	OFFERED
A. CAPACITY			
1. The body shall have a minimum capacity excluding hopper of:			
20 Cubic Yards			
2. The body shall have an average compaction rate of 850 to 950 pounds per cubic yard			
B. BODY DIMENSIONS			
1. Maximum overall width not to exceed 96".			
2. Maximum overall length and height (with tailgate in locked position) above the chassis frame not to exceed:			
Capacity Length Height CA (cab to axle)			



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NEW WAY Rear loading Refuse collection Truck Body
(Continued)

Cobra

YES	NO	OFFERED
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

20 Cu./Yd. 244.5" 83"

3. Body weight (exclusive of options) shall not exceed:

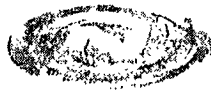
Capacity	Weight	YES	NO	OFFERED
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

20 Cu./Yd. 11,277 pounds

C. BODY CONSTRUCTION

1. Body sides, roof shall be curve shell design without the need of side bracing. Continuous operation at maximum loads without harmful deformation or wear. _____
2. The roof shall be constructed of 10 gauge 80,000 PSI steel. _____
3. The body sides shall be constructed of 10 gauge, 80,000 PSI steel. _____
4. Sides shall be braced along the bottom 3 1/2" x 12" from tailgate tapered to a point at the front of the body. Braces shall be interconnected with floor gussets and continuously welded. Rear portion of side brace shall connect to a 12" x 16" triangular gussets and all seams continuously welded for maximum strength. _____
5. The body floor shall incorporate a trough design (*flat floors not acceptable*). _____
6. The body upper floor sides shall be 10 gauge 80,000 PSI steel. _____





Driving The Difference

NEW WAY Rear loading Refuse collection Truck Body
(Continued)

Cobra

YES NO OFFERED

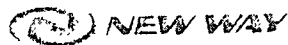
- 7. The body floor center shall be 1/4" plate high tensile steel. _____
- 8. The trough shall be constructed of two 8" channel sillis to hold the ejection panel in line under the most extreme load conditions. _____
- 9. Side access door shall be located on the street side of the body sidewall. _____
- 10. Side access door shall be equipped with a safety interlock to disengage PTO when door is open. _____

D. TAILGATE DIMENSIONS

- 1. Hopper opening width shall not be less than 74". _____
- 2. Hopper capacity shall not be less than 2.5 cubic yards as calculated By WASTEC DWRP03 No. 1 method. _____
 - 2a. Hopper capacity of _____ 20 yard bodies shall not be less than 3.0 cubic yards as calculated by WASTEC DWRP03 No. 1 method. _____
- 3. Hopper cycle time with the standard PTO and pump shall not exceed 27- 30 seconds. _____

E. TAILGATE CONSTRUCTION

- 1. Tailgate sides shall be constructed of a minimum of 7 gauge high tensile sheet steel, and the upper sides shall be constructed of a minimum of 10 gauge high tensile sheet steel. _____
- 2. Tailgate sides shall be reinforced by 1 3/4" x 4" bracing constructed of 7 gauge formed steel and fully welded in a horizontal position for maximum support. _____
- 3. The slide panel guide track shall be constructed of 1/2" x 2 1/2" AR400 steel reinforced by formed 1/4" high tensile steel. (Free floating design is not acceptable) _____
- 4. The tailgate shall be equipped with an automatic hydraulic locking system with a pilot check valve to ensure constant pressure for a tight seal. _____



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NEW WAY Rear loading Refuse collection Truck Body
(Continued)

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	YES	NO	OFFERED
5. The tailgate shall be unlocked raised by two double acting cylinders equipped with clevis ends and restrictors to prevent precipitous tailgate decent in the event of a broken hydraulic line. (16-25Rt 4" bore cylinder)	_____	_____	_____
6. The tailgate perimeter edge shall be reinforced by 2" x 2" structural tube steel.	_____	_____	_____
7. Tailgate shall be equipped with a chemically inert seal to provide a watertight seal. (23" high)	_____	_____	_____
8. Hopper floor shall remain stationary during the packing cycle and shall be equipped with a 1 1/2" drain plug.	_____	_____	_____
9. Hopper floor shall be a minimum of 1/4" high tensile sheet adequately braced to withstand maximum pressures imposed upon it. Hopper back 1/4" T-1 steel.	_____	_____	_____
10. The hopper load sill shall be constructed from a 3/8" plate and be even with the chassis frame height	_____	_____	_____
11. Self cleaning grip bolt on strut steps and grab handles shall be required on both sides of the tailgate.	_____	_____	_____
12. Auto locking tailgate (No turn buckles).	_____	_____	_____
F. PACKING MECHANISM CONSTRUCTION			
1. The sweep panel shall be of the backhoe packing type, and designed to have a minimum clearance to thoroughly clean the hopper bottom during cycling.	_____	_____	_____
2. The sweep panel face plate shall be constructed of 1/4" high tensile sheet steel and shall be reinforced with (4) integral braces made from 1" steel plate.	_____	_____	_____
3. The sweep panel shall be powered by two 5" x 16" double acting cylinders equipped with bronze bushings.	_____	_____	_____
4. The slide panel face plate shall be constructed of 1/4" high strength sheet steel.	_____	_____	_____



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(Continued)

Cobra

YES NO OFFERED

- 5. The slide panel shall be powered by two (16-25R: 4 1/2" bore x 43" stroke) double Acting cylinders. _____
- 6. The linear slide movement of the panel shall be accomplished on two 4 1/2" x 2 1/4" x 24" high density UHMW guide bearing blocks. _____
- 7. The pivotal rotation of the sweep panel shall be accomplished through the sweep panel pivot which shall consist of two 2" diameter stress proof pivot pins with bronze bushings. _____
- 8. Both ends of the pivot shaft shall be equipped with bronze bushings. _____

G. EJECTION PANEL CONSTRUCTION

- 1. Ejection blade shall form the front of the body and be hydraulically operated and designed to have a minimum clearance too thoroughly clean the body during cycling. _____
- 2. The load shall be discharged by means of a positive ejection system. A double acting, telescopic cylinder shall extend and retract the full length of the body. _____
- 3. The ejection panel face plate shall be constructed of 10 gauge 50,000 PSI sheet steel and reinforced with trapezoidal cross members of high 3" x 3" and 4" x 4" structural tube. _____
- 4. The ejection panel shall slide in an 8" channel sill on four high density UHMW slide bearing blocks. _____
- 5. Ejection panel bearing blocks must be able to be replaced without removing ejection panel. _____
- 6. The telescopic cylinder shall be horizontally positioned & consist of the following dimensional characteristics:

Capacity	Stage	Bore
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



A Product of **Scorpion Mfg. Co., Inc.** 101 State Street Scramor, IA 51467
800 831 1851 • 712 652 3399 • www.newwaytrucks.com

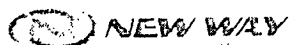


Driving The Difference.

NEW WAY Rear loading Refuse collection Truck Body
(Continued)

Cobra

	YES	NO	OFFERED
20 Cu./Yd. 4 Stage 6.5"	_____	_____	_____
7. No clamping cylinder or clamping mechanism shall be required.	_____	_____	_____
H. CONTROLS			
1. The ejector panel and tailgate raise control shall be mounted inside the front left hand side of the body. Controls are accessed through opening located in access door. Controls will not come into contact with any refuse and are protected from outside elements.	_____	_____	_____
2. An electrical device shall be supplied to automatically raise the engine speed to the proper RPM during the packing cycle.	_____	_____	_____
3. An additional throttle advance switch shall be mounted at the front left hand side of the body near the tailgate raise control handle and at the rear right hand side near the packing blade control.	_____	_____	_____
4. A Back Pack Valve shall be required to automatically advance the ejector panel when packing against it.	_____	_____	_____
5. The packing panel control shall be designed to accomplish the normal packing cycle in two steps and shall be reversible or stopped at any time during the cycle.	_____	_____	_____
6. The packing panel control shall be a two handle design and located at the rear of the tailgate on the curbside.	_____	_____	_____
I. HYDRAULIC SYSTEM			
1. A power takeoff/pump combination shall be used to power the hydraulic system.	_____	_____	_____
2. All hydraulic valve shall be mechanically operated and use direct link controls.	_____	_____	_____
3. The hydraulic pump shall provide a delivery of 29 GPM at 1400 to 1500 RPM.	_____	_____	_____
4. Normal maximum operating pressures shall not exceed 2000 PSI. (For 16-25RL	_____	_____	_____



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Driving The Difference.

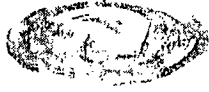
NEW WAY Rear loading Refuse collection Truck Body
(Continued)

Cobra

	YES	NO	OFFERED
5. The hydraulic system shall incorporate a relief valve and a hydraulic pressure gauge to protect all components from excess pressures.	_____	_____	_____
6. All hydraulic hoses shall conform to S.A.E. Standards. No flat spots in hoses will be acceptable.	_____	_____	_____
7. Hydraulic tank shall not be less than 40 gallons and must be equipped with a sight and temperature gauge. The tank shall be located inside the body.	_____	_____	_____
8. A replaceable 10 micron absolute in tank immersed filter with by-pass valve and visual indicator shall be furnished in the return line of the hydraulic system.	_____	_____	_____
9. A shut-off valve shall be mounted on the suction line near the oil tank.	_____	_____	_____
10. All cylinder rods shall be chrome plated.	_____	_____	_____
11. Sweep and side cylinder rods induction hardened.	_____	_____	_____
J. ELECTRICAL			
1. All body wiring shall be color coded in factory harness with sealed connectors.	_____	_____	_____
2. Body to chassis wiring shall be in sealed junction box at front of body with sealed connectors.	_____	_____	_____
3. The body shall be equipped with approved LED clearance, warning, tail, license, stop and turn signals in compliance with the national safety standards.	_____	_____	_____
4. The body shall be equipped with an external audio back up alarm activated when the chassis is in reverse	_____	_____	_____
5. Driver alert buzzer and safety stop shall be installed at the rear of the tailgate located by the packing controls.	_____	_____	_____
6. A light shall illuminate in the cab when the tailgate is open and an audible alarm will sound when the vehicle is placed in reverse while the tailgate is open.	_____	_____	_____



A Product of **SCRAPER** Mfg. Co., Inc. 101 State Street, Stratton, IA 51462
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Driving The Difference.

NFW WAY Rear loading Refuse collection Truck Body
(Continued)

Coors

YES NO OFFERED

7. A light bar shall be mounted on the upper section of the tailgate and consist of stop, turn and three clearance lights, in accordance to the national safety standards.

8. It shall include a rear vision camera, Safety Vision or equivalent.

K. PAINT

1. The body shall be properly cleaned of all dirt, oil, and welding slag. Gray DuPont Epoxy primer with rust inhibitors shall be applied.

2. DuPont Imron 5000 paint shall be applied.

Specify paint code: _____

Specify paint color: Long Beach Blue

L. MOUNTING

1. Body shall be mounted in accordance to industry standards. No welding shall be performed on the chassis frame in the mounting process.

M. SAFETY

1. Access door to body to be equipped with an interlock switch to disable the hydraulic system when the door is open.

2. Safety Shut Down switch to be provided on the right side of the tailgate.

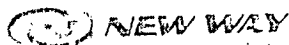
3. Driver alert switch to be provided at the right rear of the truck.

4. 20 lb. Fire extinguisher mounted on body or truck frame.

5. Triangle reflector kit located in cab.

N. WARRANTY

1. Manufacturer's limited warranty shall apply for a period of one year for body and two years for cylinders after date of acceptance of the unit.



A Product of **ESS SCRIPTON TRUCK CO. INC.** 101 State Street, Swanton, N.Y. 51407
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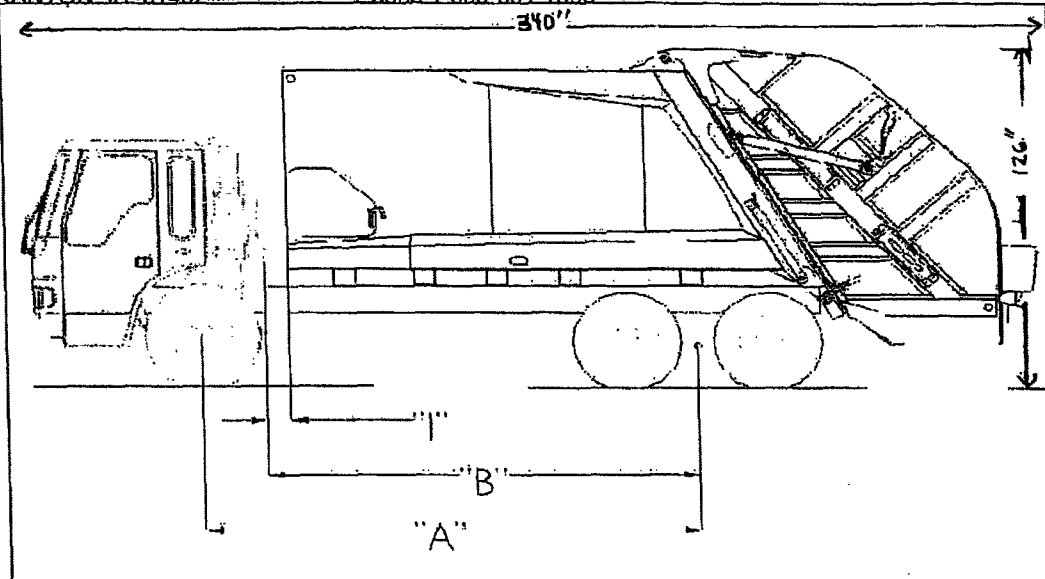
SCRANTON MFG. NEW WAY

101 State St. SCRANTON IA 51462

Phone 1-800-831-1858

Wheel Base
C.A
Body Balance Point
Payload Balance Point
Cab to CG Payload
Center of axle to CG Body
Center of axle to CG Payload
Cab to CG Body

A=	139.20
B=	116.00
C=	123.00
D=	84.00
E=	89.00
F=	-12.00
G=	27.00
H=	128.00
I=	APPX 3"



Gap from cab to body

WEIGHTS

- LBS
- LBS
- LBS
- LBS

TOTAL

0 LBS

	FRONT AXLE	REAR AXLE	TOTAL
Chassis	9936	5396	15332
Body			10768
Payload			18000

	FRONT AXLE	REAR AXLE	TOTAL
CHASSIS	9936	5396	15332
BODY	-928	11688	10760
OPTIONS *	1000	1500	
EMPTY WEIGHT	10008	18584	28592
PAYLOAD	3491	14509	18000
TOTAL	13500	33092	46592
		per axle	
		16546.1	44092

Chassis Information

Make And Model	AUTOCAR VVXB4
WB	139.2
Cab To Axle	116

Body Information

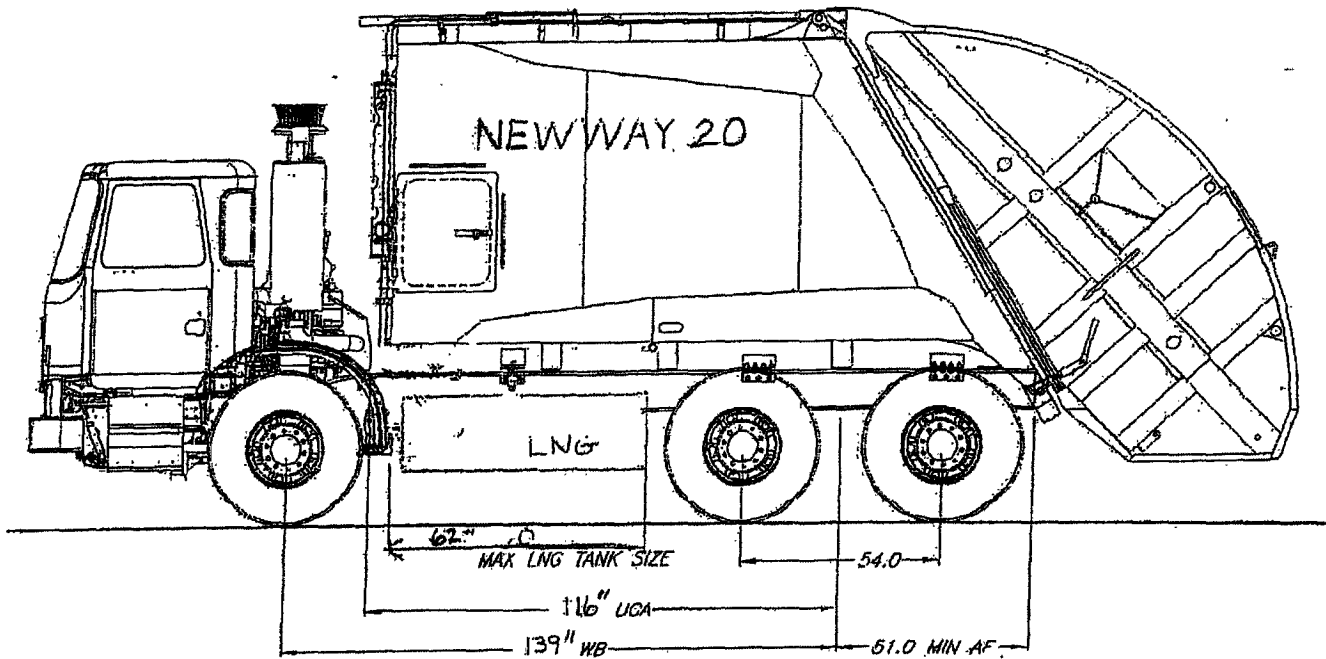
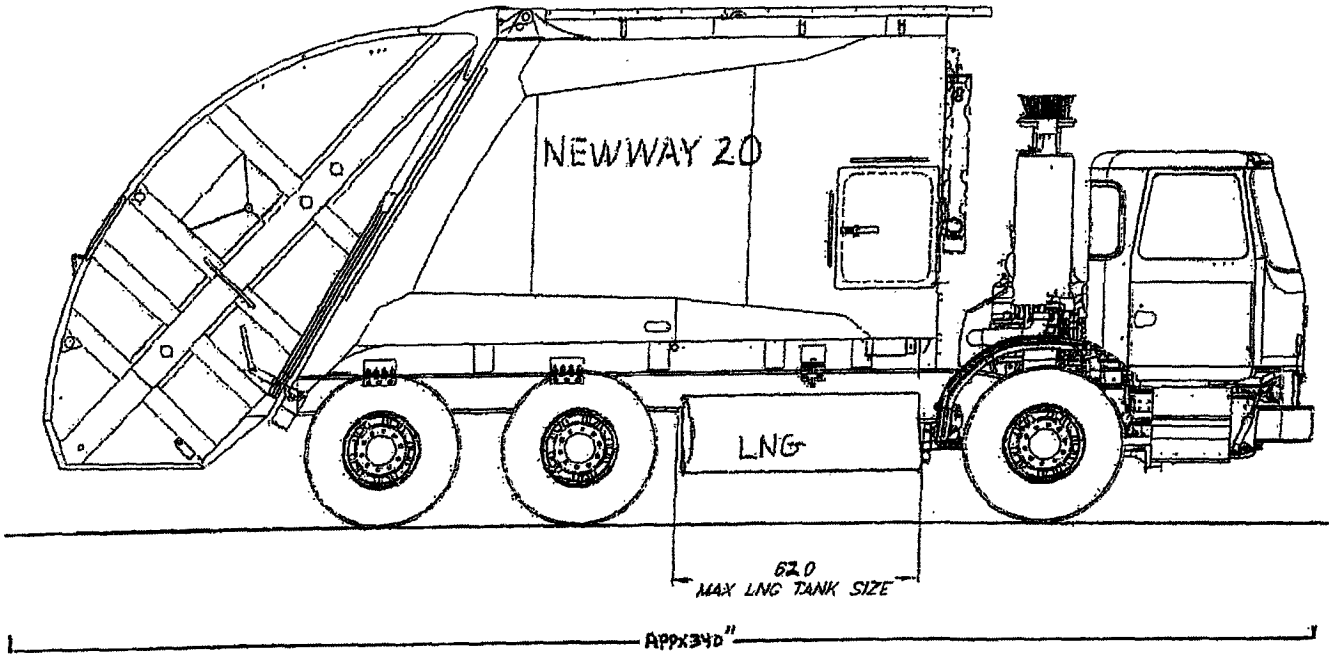
Body Size	20 COBRA	YDS
Assumed P/L	20	YDS
Pounds Per Yard	900 AVG	

NOTE: CHASSIS HT. 43" + BODY HT. 83" TOTAL 126" 10.5' APPX
 WT DIST. + OR - 2"
 * INCLUDED IN OPTIONS: 2 TIPPERS, LNG TANKS, CONTAINER KICK BAR
 OVERALL LENGTH 340" APPX
 CALIF BRIDGE 46,500 #
 2000# MORE ACCEPTABLE PAYLOAD

w/ FRONT OF BODY HYDRAULIC TANK

CONTROL VALVE IN - BODY "FACTORY STANDARD"
HYDRAULIC TANK IN - BODY "FACTORY STANDARD"

NON CONVERSION
NON CONVERSION



20YD REAR LOADER ON AUTOCAR ACX64

JUNCTION BOX MOUNTED ON FRONT OF BODY