



Form GSOP 1-PIN (04/98)

STATE OF CALIFORNIA
Department of General Services - Office of Procurement
PURCHASE ORDER

Purchase Order No. Rev. Date
62145 6/30/2008

Table with 5 columns: Supplier No., Solicitation No., Delivery Date, FOB Point, Invoice Terms. Values: 311695, 56847, 300 Days ARO, Destination, 6/30/2008

CARMENITA TRUCK CENTER
13443 E FREEWAY DRIVE
SANTA FE SPRING, CA 90670
Attn: JAMES BLAKELY EXT 203
Phone: 562-921-1411

S DEPT OF TRANSPORTATION
h T SHOP 7
i o 13204 GOLDEN STATE ROAD
p SYLMAR, CA 91342
C CALTRANS-ACCTG/OFC B-15
h T EQUIPMENT SERVICE CTR
a T PO BOX 160048
r o SACRAMENTO, CA 95816
e

Table with 4 columns: Agency Billing, Agency Purchase Estimate, Purchase Estimate, Revision. Values: 60063, 32-12-5335, 67154, 3

Table with 3 columns: Agency Contact, Phone, Date Received. Values: STANLEY JACOBS, 916-227-9710

Table with 6 columns: Item No., Quantity, Unit, Commodity Code, Description, Unit Price, Extension

The General Provisions for Non-IT Commodities are hereby incorporated by reference. These General Provisions can be obtained by phoning (916) 375-4400 or by accessing our website at:

http://www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pd

The following information is provided for agency use only:

Small Business: NS
Fiscal Year: 2007/2008

Table row for item 1: 1, 7 EA, 2320-000-0049-0, TRUCK CAB & CHASSIS (AS DESCRIBED), 178,450.0000, 1,249,150.00

Medium Duty Truck Cab & Chassis, Regular Cab, 2WD, Compressed Natural Gas (CNG) Powered, Automatic Transmission in accordance with:
CAB AND CHASSIS, COMPRESSED NATURAL GAS POWERED (CNG), WITH AUTOMATIC TRANSMISSION Bid Specification 02450-128-072 of 9 pages not dated.
CAB AND CHASSIS, COMPRESSED NATURAL GAS POWERED (CNG), WITH AUTOMATIC TRANSMISSION Administrative Procedures 02450-128-072 of 9 pages not dated.
OPTIONS for Bid Specification 02450-128-072 of 3 pages not dated.
QUESTIONNAIRE FOR CNG TRUCK CAB AND CHASSIS of Bid Specification 02450-128-072 of 3 pages not dated.
CONTRACT INFORMATION FOR SPECIFICATION: 02450-128-072, PE No. 32-12-5335 of 1 page not dated.
CALTRANS IN-SHOP WARRANTY AGREEMENT - AFV Fleet Service (engine - fuel system) of 1 page dated 5/27/08.
CALTRANS IN-SHOP WARRANTY AGREEMENT - Carmenita Truck Center (chassis) of 1 page dated 5/27/08.
All vehicles for Line Item #1 shall incorporate Option #1, Heavy Duty Chassis.

Sales and/or use tax to be extra unless noted above

Table with 3 columns: Buyer, Phone, BOC Number. Values: JIM MORES, jim mores, 916-375-4468

Handwritten signature of Jim Mores

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

**PURCHASE ORDER CONTINUATION**

Form GSOP 2-PIN (04/98)

<b>Purchase Order No.</b> 62145	<b>Revision</b>	<b>Date</b> 6/30/2008	<b>Supplier No.</b> 311695	<b>Supplier Name</b> CARMENITA TRUCK CENTER
------------------------------------	-----------------	--------------------------	-------------------------------	--

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
			<u>MAINT CLASS</u>	<u>ID No.</u>	<u>EPR No./SHOP</u>	
			03452	7003959	7003959/28	
			02850	7004987	7004987/28	
			02849	7005393	7005393/27	
			02850	7005394	7005394/27	
			02850	7005395	7005395/27	
			02850	7005396	7005396/27	
			02849	7005398	7005398/27	
				Brand: <u>STERLING</u>		
				Model: <u>L8513</u>		
2	4	EA	2320-000-0049-0	TRUCK CAB & CHASSIS (AS DESCRIBED)	178,250.0000	713,000.00
				Medium Duty Truck Cab & Chassis, Regular Cab, 2WD, Compressed Natural Gas (CNG) Powered, Automatic Transmission in accordance with:		
				CAB AND CHASSIS, COMPRESSED NATURAL GAS POWERED (CNG), WITH AUTOMATIC TRANSMISSION Bid Specification 02450-128-072 of 9 pages not dated.		
				CAB AND CHASSIS, COMPRESSED NATURAL GAS POWERED (CNG), WITH AUTOMATIC TRANSMISSION Administrative Requirements 02450-128-072 of 9 pages not dated.		
				OPTIONS for Bid Specification 02450-128-072 of 3 pages not dated.		
				QUESTIONNAIRE FOR CNG TRUCK CAB AND CHASSIS of Bid Specification 02450-128-072 of 3 pages not dated.		
				CONTRACT INFORMATION FOR SPECIFICATION: 02450-128-072 PE No. 32-12-5335 of 1 page not dated.		
				CALTRANS IN-SHOP WARRANTY AGREEMENT - AFV Fleet Service (engine - fuel system) of 1 page dated 5/27/08.		
				CALTRANS IN-SHOP WARRANTY AGREEMENT - Carmenita Truck Center (chassis) of 1 page dated 5/27/08.		
				All vehicles for Line Item #2 shall incorporate Option #3, Four Yard Dump Body Chassis.		
			<u>MAINT CLASS</u>	<u>ID No.</u>	<u>EPR No./SHOP</u>	
			03420	7005276	7005276/27	
			03420	7005279	7005279/27	
			03422	7005282	7005282/27	
			03421	7004701	7004701/34	
				Brand: <u>STERLING</u>		
				Model: <u>L8513</u>		

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

**PURCHASE ORDER CONTINUATION**

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> <b>62145</b>	<i>Revision</i>	<i>Date</i> 6/30/2008	<i>Supplier No.</i> 311695	<i>Supplier Name</i> CARMENITA TRUCK CENTER
---	-----------------	--------------------------	-------------------------------	--

<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>
				<u>PO Miscellaneous Charges and Discounts</u>		<u>Dollar Value</u>
				BATCH ADJUSTMENT (CHARGE)		115.50
					<u>Total Value:</u>	<u>1,962,265.50</u>
 <u>F.O.B. Destination Requirement</u>						
For the purpose of this award only F.O.B. destination will be accepted.						
<u>Addendums 1, 2 and 3</u>						
Are incorporated and now are part of this purchase order.						
<u>California Tire Fee Act</u>						
A fee of \$1.75 per tire is added to the purchase order to cover the costs imposed by the California Tire Fee Act (California Public Resources Code Section 42885 et. seq.).						
The one time recycle fee of \$1.75 per tire, for sixtysix (66) tires totaling \$115.00 is included in this purchase order.						
<u>Purchase Order Award</u>						
This purchase order is being awarded on September 11, 2008 pursuant to Government Code Section 13352.17. Any encumbrances made pursuant to this purchase order shall be construed to have been made on the last day of the preceding fiscal year.						
<u>Change Orders</u>						
This Purchase Order may be amended, modified, or terminated at any time by mutual agreement of the parties, in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.						
This purchase order had been registered into the State Contract and Procurement Registration System (SCPRS) ( <a href="https://www.scprs.dgs.ca.gov/">https://www.scprs.dgs.ca.gov/</a> ). The registration number is: 26600908332624						

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION  
DIVISION OF EQUIPMENT

ITEM NO	UNIT	CAB	TRANS	ENG	CAP	C.A.	F.A.	R.A.
02450	C & C	C	A-6	CNG 250	35.0	108	12.0	17.5

SPECIFICATION NUMBER: 02450-128-072

SPECIFICATION FOR: CAB AND CHASSIS, COMPRESSED NATURAL GAS-POWERED (CNG), WITH AUTOMATIC TRANSMISSION

PURCHASE ESTIMATE NUMBER: 32-12-5335

It is the intent of this specification to describe the minimum requirements for a two-axle, Compressed Natural Gas-fueled truck cab and chassis with a conventional cab and an automatic transmission. The chassis shall be suitable for mounting various bodies and accessories fabricated or purchased by Caltrans. The unit will be utilized for operations on State highways.

Size dimensions and specified equipment may vary a nominal amount in accordance with industry standards. The acceptable variance shall be determined and approved by Caltrans Division of Equipment, Specifications Engineer.

A post-award meeting shall be conducted at the California Department of Transportation, Division of Equipment Headquarters office located at 34<sup>th</sup> Street and Stockton Blvd., Sacramento, CA 95816 with the successful vendor and pertinent Department of Transportation personnel following award of bid. The meeting will consist of an outline of the successful vendor's time line for manufacturing, miscellaneous components and assembly schedule.

The vendor shall provide a weight study for each proposed cab chassis listed on the Purchase Order, prior to award of the contract. The study shall list the GAWR (for each axle), GVWR, GCWR, with the fuel tanks filled to capacity. The weight of each chassis will be compared to the weigh study prior to acceptance; each chassis shall be within 5% of the weigh study provided.

The successful bidder shall have been in the business for a minimum of three years produced a minimum of fifty CNG vehicles and successfully performed similar work within the last year.

The unit shall comply with Caltrans Equipment Quality Standards for Electrical, Welding, paint and coatings as defined at: <http://www.dot.ca.gov/hq/eqsc/qualstand.htm>. Only technical changes authorized by the Specification Engineer in writing will be accepted. Technical changes made by any other Caltrans employee will not be accepted.

### TECHNICAL SPECIFICATIONS

1. CAPACITY: The manufacturer's Gross Vehicle Weight Rating (GVWR) shall be 25,550 to 25,990 lbs. The cab chassis shall have a minimum payload of 12,000 lbs with the center of mass located 72 to 76 inches behind the rear of the CNG tank enclosure.

2. CHASSIS DIMENSIONS: The wheelbase shall be of proper length to give a usable cab-to-axle (CA) distance of 102 inches ( $\pm 2$  inches). The centerline of the rear axle to the end of frame (AF) dimension shall be a minimum of 60 inches.

NOTE: The usable cab-to-axle (CA) distance shall be defined as the clear distance from the rear of the CNG tank enclosure and accessories to the centerline of the rear axle. Splicing or lengthening the original frame will *not* be acceptable.

3. ENGINE: The engine shall be an electronic controlled a CNG-fueled engine, 6 cylinder, inline, four cycle design, with a minimum displacement of not less than 475 cubic inches. The engine shall develop a minimum of 250 horsepower, and not less than 800 lbs. ft. gross SAE torque per SAE J1995.

The engine shall be equipped as follows:

- a. California Emissions Certification. The engine shall also meet all current Federal emissions requirements. The certificate must be visible from ground level with the hood open.
- b. The primary oil filter shall be the replaceable, spin-on, full-flow type. A single combination-type (full flow and bypass) filter shall be used.
- c. An air cleaner system of the correct capacity recommended by the filter manufacturer to match the demand of the engine. The air cleaner connections shall be dustproof, waterproof, and either tubing or hose mounted to withstand abrasion, wear, and vibration. The top of the air cleaner assembly shall not extend above the top of the hood. The air cleaner system shall be one of the following combinations:
  - i. Two (2) dry-type replaceable paper elements consisting of an outer primary filter and an inner safety element.
  - ii. A centrifuging action precleaner that removes coarse dust and moisture with a self-cleaning dust and water evacuator and a replaceable paper element filter.
  - iii. A centrifuging action precleaner that removes coarse dust and moisture with a self-cleaning dust and water evacuator and two (2) dry-type replaceable paper elements consisting of an outer primary filter and an inner safety element.

- d. An air restriction gauge. The air cleaner system shall have an air restriction gauge, mounted to be easily viewable during pre-op inspections (i.e. – may be dash mounted (preferred), or mounted under the hood). The gauge shall be redlined for servicing or replacement as recommended by the engine manufacturer, must hold and maintain the highest reading, and be resettable (Ref. Filter Minder Air Restriction Gauge, Model No. 3781-325, or comparable).
  - e. An electronic hour meter. The hour meter shall be dash mounted to record engine running time (Ref: Hobbs Model 85006 solid state or comparable). Electric key shutoff.
  - f. A thermostatic controlled radiator fan with an air actuated clutch for engaging and disengaging the fan. The fan clutch shall be complete with a manual override mounted inside the cab. The switch for the fan clutch override shall be appropriately labeled.
  - g. An oil pressure gauge shall be mounted in the dash. The gauge shall be complete with a warning light and audible alarm for low oil pressure.
4. FRAME: The frame rails shall be manufactured from high strength low alloy steel and shall be straight "C" channel design. The RBM (Resistance Bending Moment) of the frame, from the rear of the front spring hanger to the tail end of the frame, shall not be less than 1,125,000 in-lbs. per rail. The frame shall be of sufficient size and strength to withstand the maximum GVWR specified herein and by the manufacturer. Frame rails shall not have components or accessories mounted to the outside or above the rails behind the CNG tank enclosure. Frame rails shall be straight behind the CNG tank enclosure.
5. TRANSMISSION: The transmission shall be an Allison 3500 RDS (with PTO provisions) automatic transmission having a primary shift schedule calibrated for maximum performance from the engine. If driveline speeds do not allow the use of 6<sup>th</sup> gear it shall be electronically locked out while still providing the top speed requested in the rear axle section. The transmission supplied shall be the correct capacity for use with the engine supplied. The cooling system shall incorporate a coolant-to-oil heat exchanger to maintain fluid at safe working temperature.

The transmission shall be factory-filled (or by the delivering dealer if not available from the factory) with Allison Transynd transmission fluid. The fill location(s) shall be labeled to indicate the transmission has been filled with Transynd.

Transmission controls and mounting shall be in accordance with the transmission manufacturer's specifications and recommendations. A push button-type shift selector shall be supplied and have a range pattern of 1, 2, 3, 4, 5, D, N, and R.

An oil temperature gauge kit shall be supplied and installed in the dash. The temperature gauge shall be: red-lined to indicate the manufacturer's maximum recommended operating temperature; or, equipped with a visual or audible

warning to indicate high temperature. The temperature sensor shall be located to indicate the highest oil temperature in the transmission.

A "DO NOT SHIFT" or "RANGE INHIBITED" light shall be supplied and installed to indicate that a diagnostic code has been registered by the transmission ECU, and to warn the driver not to shift the transmission should operating conditions warrant.

The transmission as installed shall have the side opening clear for power take-off mounting.

6. COOLING SYSTEM: The unit shall be equipped with the most heavy-duty radiator available with the truck model supplied. The cooling system shall be filled with a suitable anti-freeze rated for -40° operation, be compatible with water and any ethylene glycol antifreeze, and have a minimum 100,000 mile change interval. The radiator shall be equipped with a deaeration system and temperature controlled fan. A gauge shall be supplied and installed in the dash to measure coolant temperature. The cooling system shall have a minimum 100,000 mile warranty.

The radiator shall be equipped with a low coolant level warning light in case the cooling liquid becomes low (Ref. Robertshaw Model 813 NLU or comparable). This warning light shall be mounted in the dashboard and in view of the driver.

All hoses used in the cooling system (including heater hoses and air compressor hoses) shall be silicone type hoses with silicone type hose clamps. If silicone type hoses are not available from the manufacturer, Ethylene Propylene Diene Monomer (EPDM) hoses (or comparable) may be substituted if the manufacturer provides a 100,000 mile minimum warranty for hoses and clamps.

7. EXHAUST: The exhaust system will include a horizontal muffler with an exhaust stack mounted in the vertical position behind or beside the curb side of the cab, the stack shall be provided with a safety heat shield around the full length of the exposed pipe. The exhaust shall be an equipped with a rain cap.
8. FRONT AXLE: The front axle shall have a minimum manufacturer's Gross Axle Weight Rating (GAWR) of 12,000 pounds for the axle, springs, and brakes. The drums shall be steel, outboard mounted, with ten studs per wheel on a bolt circle diameter of 11.25 inches. The hubs shall have oil lubricated wheel bearings with oil seals and visible caps (Ref. Stemco Guardian Hub Seal or comparable

The bearings shall be lubricated by an oil bath, and the hubs shall have Stemco type oil seals with a transparent cap to view the oil level. The lubricant shall be the synthetic type (Ref. Emgard 50W or comparable), with an extended change interval. The hubs shall be labeled to indicate they have been filled with a synthetic lubricant.

9. REAR AXLE: The rear axle shall be a single reduction unit with a minimum manufacturer's GAWR of 17,500 pounds for the axle, springs, and brakes. The drums shall be steel, outboard mounted, with ten studs per wheel on a bolt circle diameter of 11.25 inches. The differential shall be filled with a synthetic type gear lubricant (Ref. Emgard 75W-90 or comparable), with an extended change interval. The gear ratio supplied shall provide a road speed between 65 mph and 70 mph at governed engine RPM with the transmission in 6<sup>th</sup> gear position.
10. BRAKES: Full air brakes shall be supplied with "S" cam actuation on all axles to match the axle load rating. The brakes shall be self-adjusting such as Haldex's Self-Adjusting Slack Adjuster or comparable. The brake system shall be in compliance with FMVSS No. 121. The following shall be supplied and installed:
  - a. A minimum 12 CFM air compressor. Air for the compressor shall be filtered air taken from the air cleaner or air cleaner induction system.
  - b. A Bendix Model AD-IP Air Dryer or equivalent.
  - c. One (1) or more air accessory outlets with pressure protection valves. Any air accessories shall be fed through a pressure protection valve.
  - d. A parking brake, spring activated. All spring chambers shall be anti-compounding.
  - e. An air brake emergency stopping system, spring activated and in compliance with FMVSS No. 121.
  - f. Backing plates or dust shields, on all brakes.
  - g. ABS (Anti-lock Brake System). A minimum 4-channel system shall be supplied. The system shall be factory installed.
11. FRONT SUSPENSION: The front suspension shall have a rated capacity of not less than 12,000 lb. The front suspension shall incorporate parabolic and/or taper-leaf springs and shock absorbers
12. REAR SUSPENSION: The rear suspension shall be equipped with variable rate (taper-leaf or parabolic) springs. The rear suspension shall have a minimum rated capacity of 17,500 lb. The auxiliary spring(s) shall have a minimum rated capacity of 2,250 pounds each and shall be 70% loaded at rated axle GAWR.
13. STEERING: The steering gear shall be integral valve hydraulic power type steering. The steering wheel shall have a tilt feature.
14. WHEELS: Six (6) steel disc-type wheels with a minimum of two (2) hand holes shall be furnished. The wheels shall be white in color drop center tubeless type designed for use with either radial or bias tires. All wheels supplied shall have 10 bolt holes on an 11.25 inch (285.75mm) bolt circle, and have an 8.66 inch (220mm) center bore. Wheel widths shall be as recommended by The Tire and

Rim Association, Inc., and the tire manufacturer. All wheels shall be **hub** piloted. Dual wheels shall be mounted using two-piece flange nuts. All wheels supplied on the order shall be of the same make and model (front and rear wheels may differ in model). All wheels shall be painted white in color. The use of spacer(s) between the wheels or the wheel and brake drum are unacceptable.

15. TIRES: Six (6) steel belted radial tubeless type tires, mounted and balanced on the wheels, shall be furnished. All tires shall be size 11R22.5, with a minimum Load Range H. All tires shall have highway type tread. Tires provided shall meet the GAWR of the respective axles. The tires supplied shall meet or exceed the axle rating on which it is mounted. All tires supplied on this order shall be of the same make and model.
16. CAB: The cab shall be the conventional cab design, enclosed with an approved safety glass windshield, rear window, and roll-down glass in the side doors. The cab shall be rubber and/or air suspension mounted, and shall have a front-tilting hood and fenders.

A wire mesh screen, constructed from corrosion resistant metal, shall be installed behind the grille.

NOTE: Bug screens constructed of flexible material and installed in front of the grill will not substitute for the metal screen described above.

The following items, supplementing, if necessary, those items already cataloged as standard cab equipment, shall be furnished and installed:

- a. An air conditioner, integral with the heater, shall be furnished.
- b. Multi-speed cab heater and windshield defroster.
- c. Back-Up alarm
- d. Ashtray and cigar lighter.
- e. Right and left outside rearview mirrors, not less than 90 square inches in size. The mirrors and mounting brackets shall be factory installed (OEM) aerodynamic breakaway type; black, grey, or neutral in color. Chrome finished brackets are not acceptable.
- f. A downward-viewing convex mirror, located above the passenger (right) door window.
- g. Dual windshield wipers. Electric powered wipers shall be supplied with an intermittent feature. Wiper blades shall be 'Snow Type'.
- h. Dual windshield washers.
- i. Cab mounted air horn(s). If cab-mounting is not available from the manufacturer, alternate location(s) will be acceptable.
- j. Full instrumentation, including but not limited to the following:

speedometer, tachometer, coolant temperature, primary and secondary air pressure, fuel level, and voltmeter. Warning lights shall not substitute for readable indicating instruments. All gages shall be mounted in the dash or in a factory auxiliary panel.

The tachometer supplied shall be the electric type, powered by the truck's electrical system.

- k. Fresh air ventilators or combination fresh air and recirculating ventilation system.
  - l. Steps and grab handles to safely enter and exit the cab from both sides.
  - m. Glove compartment or other storage compartment.
  - n. Dome light. Light shall be activated by opening the driver door, the passenger door, and by a switch in the cab.
  - o. Floor mats, headliner, and full cab insulation. Bare metal or fiberboard will not be considered as insulation.
  - p. Seating for three (3) people. The Operator's seat shall be adjustable fore and aft and be equipped with a driver and outboard passenger headrest.
  - q. Driver and passenger seats shall have 3 point type seat belts with boot-type retractors. A lap belt and a shoulder belt shall be installed for the driver and outboard passenger.
  - r. Cab interior shall be a brown or grey color, or as deemed appropriate by the State.
  - s. Standard AM/FM radio complete with speakers and antenna.
  - t. Tilt steering wheel.
  - u. Dual visors.
  - v. Locking cab, with all locks keyed alike and 3 keys supplied.
  - w. Halogen headlamps.
  - x. CB Radio wiring with power and ground studs located under the dash with a minimum of five feet of excess wiring, Ref Freightliner Part No. 748-001.
17. GAUGES: All gauges and controls shall be marked/identified for function and use in English. The markings shall be explicit, legible, and permanent. International symbols may be used to supplement (not in lieu of or predominate over) the above. Any precautionary signs shall be similarly marked. All gauges shall be panel mounted, shall be consistent in size, color scheme, pointer design, and label style and size. All gauges shall be adequately illuminated for nighttime operation, with an infinitely variable brightness control from full bright to off. Gauges mounted below the dash are not acceptable. All gauge placements shall provide ready visibility to the operator.

18. SWITCH PANEL: A dash mounted switch panel shall be supplied and installed in the truck cab and shall contain the following switches, legends, and indicator lights:
- i. A PTO legend and switch. A red, indicator light shall indicate when the PTO is engaged.
  - ii. A PTO hour meter shall be supplied and installed in the switch panel and operate only when the PTO is operating.
  - iii. Amber rotating light legend and switch.
  - iv. Amber flashing lights legend and switch.
  - v. Two (2) blank legend and switch slot, Freightliner Part No.329-012.
  - vi. Body Up/body Down.
  - vii. Bed Up light (red).

Switches shall be located on a factory installed modular dash panel appropriately labeled and within easy reach of the driver. Power and ground wiring for switches shall be terminated below the cab with a minimum of twenty feet of excess wire for each switch. Switches labels and a schematic shall be approved prior to installation.

Lights shall be solid state type and red. Each light shall be labeled with the exact wording requested by Caltrans. The hour meter and lights may be replaced with factory installed indicators.

Final approval from the Division Of Equipment, Specifications Engineer of the switch panel configuration shall be obtained by the successful vendor before the switch panels are purchased.

19. FUEL CAPACITY: The minimum fuel capacity shall be not less than seventyfive (75) diesel-gallon equivalent of CNG, at a CNG fill pressure of 3,600 PSI. The capacity shall be calculated at 5.2 gallons of CNG for each gallon of diesel fuel.

The fuel tank(s), plumbing, fittings, etc. shall be rated for 3,600 PSI filling. All components shall be as recommended and approved for use in high pressure CNG fuel systems, and shall comply with all requirements of the engine manufacturer. Separate shut off valves shall be provided for each individual fuel tank and each valve shall be accessible from the driver's side of the vehicle. Fueling ports shall be located on both the driver's and curb side of the vehicle and shall be compatible for use with 3,600 PSI and lower filling stations. There shall be a pressure gauge located near each fueling port, and a fuel capacity gauge installed in the dash. The CNG tanks and accessories shall be enclosed

in a manner to prevent any damage during roadside maintenance either on or off road.

20. MISCELLANEOUS: The following equipment shall be furnished and installed:
- a. Standard painted front bumper. If available, a straight bumper shall be furnished.
  - b. Tow hook(s) or pin(s), frame mounted on the front for towing the vehicle empty.
  - c. All filters, where applicable, shall be the spin-on type.

21. ELECTRICAL EQUIPMENT: For further information, see the following <http://www.dot.ca.gov/hq/eqsc/QualityStandards/Electrical/ElectricMenu.htm> Minimum electrical equipment shall comply with all Federal Motor Vehicle Safety Standards and State of California Department of Motor Vehicle regulations. The tail, stop, and directional signal lamps may be in combination, and the wires to these lamps shall be in a loom or conduit. A minimum 130-amp alternator with a matching regulator shall be furnished. The battery system shall be made up of not less than two (2) Group 31 12-volt maintenance free batteries (Ref. Delco's Freedom or comparable). The system rating shall be not less than 1,250 CCA (cold cranking amps) at 0° F. and a reserve capacity of not less than 320 minutes at 25 amps and 80° F. Ratings are as established by BCI (Battery Council International) and SAE. Side terminal batteries are not acceptable.

NOTE: If the battery box shall be located under the cab, Resettable circuit breakers shall be supplied in lieu of fuses where available and/or applicable.

A seven conductor jacketed cable and light wiring socket (Ref. Freightliner Part No. 297-001) for a trailer cable, shall be installed at the end of the frame. The wire color code and wiring of the socket shall be in accordance with the attached wiring schematic, Drawing No. U1-A010-01. The cable shall be one piece (no splices) from the cab or engine compartment to the end of the frame.

22. PAINT: The cab, hood, and fenders shall be finish painted with lead-free Winter White color. The finish coat shall be free from runs, drips, sags, etc., and shall be evenly applied to provide a gloss finish. The finish or top coat shall be compatible for re-coat or touch-up with lead-free DuPont Imron 5000, Winter White (#N6431HN H), polyurethane enamel; PPG Delta DUHS (#90604); or, Sherwin Williams Genesis (#G8-40687), equivalent color. Other components may be finished according to the factory standard finish.
23. SAFETY: The entire unit and accessories shall comply with the applicable provisions of the California Vehicle Code, the Safety Orders of the Division of Industrial Relations, and all Federal regulations in effect at the time of manufacture.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION  
DIVISION OF EQUIPMENT

ITEM NO	UNIT	CAB	TRANS	ENG	CAP	C.A.	F.A.	R.A.
02450	C & C	C	A-6	CNG 250	35.0	108	12.0	17.5

SPECIFICATION NUMBER: 02450-128-072

SPECIFICATION FOR: CAB AND CHASSIS, COMPRESSED NATURAL GAS-  
POWERED (CNG), WITH AUTOMATIC TRANSMISSION

PURCHASE ESTIMATE NUMBER: 32-12-5335

### ADMINISTRATIVE PROCEDURES

1. **WARRANTY:** The unit(s), including but not limited to the chassis, engine, drive train, electrical system and all modifications made to the unit prior to delivery, etc., shall be covered (parts and labor) under a factory authorized extended warranty for three (3) years or 2000 engine hours, whichever occurs first, following the date the Department of Transportation (Caltrans) puts the unit into service. This warranty does not cover standard wear items which fail due to normal wear. Caltrans will notify the supplier by mail of the in-service date and keep a record of the in-service date.

A copy of this warranty shall be authorized and signed by the manufacturer's warranty coordinator. This person shall not be the supplier or dealer for the supplier. Any other coordinator shall only be acceptable with written permission prior to the bid opening. A copy of this certificate shall be supplied with each unit delivered. This certificate shall include the following:

- Phone number of the manufacturer's warranty coordinator.
- A list of at least five (5) factory authorized warranty service locations throughout California.
- The warranty performance requirements and late delivery requirements detailed below shall be stated in this certificate.

**NOTE:** A warranty service location shall have a physical shop building capable of housing at least 2 units, a staff of at least 3 mechanics trained on this equipment and at least one mobile service truck.

Late delivery charges shall be assigned as shown for OEM parts and warranty repair services that do not meet the following performance requirements:

**NOTE:** All parts expediting fees required to maintain these performance levels shall be covered by the extended warranty and not charged to Caltrans.

The supplier may use a traveling mechanic to perform the warranty work. The supplier will be responsible for all associated costs (travel time, overtime, per diem, etc.). The use and availability of a traveling mechanic does not relieve the supplier from providing a list of five (5) factory authorized warranty service locations throughout California.

At the request of the Caltrans shop superintendent, a joint warranty inspection of the equipment shall be conducted within 30 days prior to the expiration of the warranty period with the vendor or his authorized designee. The purpose shall be to resolve any remaining warranty issues prior to expiration.

An In-Shop Warranty agreement (see attached), signed by the supplier or manufacturer, shall be submitted prior to Purchase Order award. The standard In-Shop Warranty agreement shall be extended from one (1) year to three (3) years per this agreement.

Caltrans, at its option, may perform warranty work under the terms of the In-Shop Warranty agreement. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48-hours of notification, written or verbal. The unit will be at a Caltrans facility. The unit shall be repaired and returned within 10 working days to the Caltrans facility where the unit was originally picked up. Upon prior approval with Caltrans and in compliance with all Caltrans Policies and Procedures, warranty work may be performed at a Caltrans facility. Any supplier or manufacturer non-compliant with the warranty provisions set forth herein may be subject by the Procurement Division, Department of General Services, State of California to be removed from any future bidding.

2. IN-PROCESS REVIEW: The unit(s) shall require an in-process review to verify timely progress of construction of the unit(s) and to ascertain compliance with the intent of the specifications and drawings. If there are any questions regarding the intent of the specifications or drawings, call the "Agency Contact" as indicated on the Purchase Order title page. Any in-process review will be at State expense conducted within the State of California only and will not constitute acceptance of the unit(s).
3. INSPECTION: This order will require a three (3) phase inspection process. For all inspections the unit(s) will be serviced, washed and ready for, as applicable, inspection or delivery. Inspections will begin within five (5) working days from the date of the inspection request by the supplier. It is the supplier's responsibility to contact the Equipment Parts Coordinator at (916) 227-9636 for inspections.

FIRST PHASE (PRE-PRODUCTION MODEL): The first production unit or pre-production model of the series of units on this order shall be completed in accordance with the specifications and drawings, including all requested items and sub-components. Arrangements for inspection of the pre-production model shall be made only when all work is complete. This inspection trip shall be State financed at no cost to the supplier.

The supplier shall provide a qualified, factory authorized, service representative to be in attendance at the pre-production inspection, as well as the pre-delivery inspection (second phase), to answer all questions regarding construction and system design and function, to demonstrate all operations and functions, and to make any necessary adjustments to the units. The cost for this service shall be included in the bid.

On units where relative or interacting motions exist, these shall be demonstrated within the full range of movement (e.g., plow moldboard and push frame; brake components, dump body, tailgate, and subframe).

Component parts or details shall not be pre-cut or pre-formed for the final assembly of the remaining units until the design has been proven acceptable on the first production unit or pre-production model.

A written report will be submitted to the supplier within four (4) working days of the inspection indicating that the first unit is either acceptable or not acceptable. Unacceptable or non-compliant items will be listed on the report.

Additionally, where applicable, the supplier shall complete and sign the supplier pre-delivery inspection (PDI) form and the supplier shall note the appropriate Purchase Order Number and Line Item on each form.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) and all expenses (meals, lodging, and cost of transportation). Travel expenses will be documented on State of California, Department of Transportation, Travel Expense Claim Form, FA302. These fees may be deducted from the invoice.

After inspection and acceptance by the State, the first production unit or pre-production model shall be the criteria or basis for acceptance of the balance of the delivery. This will not constitute final acceptance of each unit remaining on the Purchase Order.

SECOND PHASE (PRE-DELIVERY INSPECTION): In accordance with the State Administrative Manual, Section 4112 and the Caltrans inspection program, each unit will be inspected prior to shipment to the destination on the purchase order. This inspection trip(s) shall be State financed at no cost to the supplier.

Arrangements for pre-delivery inspections shall be made only when multiple units are complete. Each unit shall be identified with the applicable Purchase Order and Line Item. If corrections are needed as a result of the inspection, the corrections shall be made prior to shipment to the purchase order destination. Authorization to deliver unit(s) must be granted by the Department of Transportation, Division of Equipment, Quality Assurance Section.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) and all expenses (meals, lodging, and cost of transportation). Travel expenses will be documented on State of California, Department of Transportation, Travel Expense Claim Form, FA302. These fees may be deducted from the invoice.

PRE-PRODUCTION AND PRE-DELIVERY INSPECTION LOCATION: The inspections shall be conducted by the Department of Transportation, Division of Equipment, Quality Assurance. These inspections shall take place at an adequate site provided by the vendor within the State of California. The inspection site shall meet all of the following criteria:

- a. The site shall not be the Purchase Order delivery destination. The site shall be paved, secure and zoned for commercial use.
- b. The site shall include electricity, lights, water, compressed air and a secure paved lot. The facilities shall also include lift equipment adequate to raise the units and support them on safety stands with a minimum of 12 inches of tire clearance. The supplier shall provide conditions, which meet the safety standards of CAL-OSHA and Title 8 of the California Code of Regulations.
- c. The Department of Transportation, Division of Equipment, Quality Assurance Section, shall determine the adequacy of the site. Contact the Quality Assurance Chief at (916) 227-9709 for approval.
- d. If the facility is deemed unacceptable by the Department of Transportation, Division of Equipment, Quality Assurance Section the vendor shall be billed for the inspection trip including wages and expenses. This cost shall be deducted from the purchase order payment.

THIRD PHASE (FINAL INSPECTION): Each unit will have a final inspection at its delivery destination shown on the Purchase Order to verify acceptability. The State will have five (5) working days after delivery of a unit to conduct the final inspection of said unit. Units delivered to the final Purchase Order destination will be accepted only when all Purchase Order requirements have been met, any shipping damages have been corrected, and all required documents are received by the Department of Transportation, Division of Equipment, Equipment Receiving. These documents include, as applicable, the invoice, vehicle registration documents, parts book, operator's manuals, service manuals, lubrication instructions and charts, warranty information, certifications, questionnaires, etc. Units, which are not accepted by the delivery date on the Purchase Order, will be considered delivered late.

If the supplier receives notice that the unit(s) is not acceptable, whether written or oral, the unit(s) shipped to the Purchase Order destination shall be removed within seven (7) calendar days. If the supplier fails to remove said unit(s) from the State's facilities within the specified period, the State may forward said unit(s) to the supplier by common carrier at the supplier's expense and risk.

4. DELIVERY: Inspection, delivery, and final acceptance of all units on the Purchase Order shall be within 300 calendar days after the Purchase Order date. Contact the State of California, Department of Transportation, Division of Equipment, Equipment Parts Coordinator at (916) 227-9636 for delivery.

Failure of any units to comply with the specifications by the final delivery date may place the supplier in default and may be grounds for the State to invoke Paragraph 25 of the General Provisions, Rights and Remedies of the State for Default. The Department of General Services, Procurement Division will be notified at such time.

Acceptance of delivery or placement in operation of any equipment shall not release the manufacturer from liability for faulty design, workmanship, or materials appearing even after final payment have been made.

Completed units upon final delivery with more than 100 miles additional to the original pick-up mileage will be assessed \$2.00 per mile for each mile exceeding the 100 miles.

This charge shall be deducted from the purchase order price for each vehicle delivered against the Purchase Order.

Once chassis are completed the successful vendor shall contact the Caltrans, Equipment Parts Coordinator at (916) 227-9636. The Equipment Parts Coordinator will arrange to either have an up fitter pick up the chassis within thirty (30) days, or arrange to have the chassis delivered to

Department of Transportation/Equipment,  
13204 Golden State Road  
Sylmar, CA 91342

5. LATE DELIVERY CHARGES: The parties to this agreement acknowledge that the State shall incur actual damages should the supplier fail to perform the work as called out in the contract and specification on the dates set forth herein. The parties, therefore, have agreed to Late Delivery Charges in the amount of \$30.00 per unit per workday.

Workdays are Monday through Friday inclusive, except State holidays observed Monday through Friday inclusive.

The parties also agree that the amount specified is not unreasonable nor punitive in nature because both parties have carefully considered the amount specified and believe it to be a reasonable estimate, and not excessive at the time the purchase order is entered into.

It is, therefore agreed, that the supplier will pay the State of California the sum of \$30.00 per unit per work day (as stated above) for each work day the work remains uncompleted or unaccepted by the State, provided the total Late Delivery Charges assessed against supplier shall in no event exceed twenty-five percent (25%) of the total value of the entire order, and the supplier agrees to pay said damages as herein provided. In the event such damages are not paid, the supplier agrees that the State may deduct the amount thereof from any monies due or that may become due said supplier.

6. PAYMENT: Process for payment will be initiated on each unit as units are received and deemed acceptable. The discount period will start after acceptance of each unit on the Purchase Order.
7. QUESTIONNAIRE: The attached questionnaire shall be completely filled out and will become a part of each bid submitted. Any portion of the questionnaire, which is not applicable to the equipment, shall be shown as N/A (not applicable). Failure to submit a completed questionnaire could result in rejection of your bid.

Unless otherwise stated in the purchase order, the requirements of the written purchase order specification shall have precedence over the completed questionnaire; and the completed questionnaire shall have precedence over standard factory specifications or literature.

8. GENERAL: One (1) complete set of additional filters (air, oil, water, fuel, hydraulic, etc.) shall be supplied with the first unit delivered. This additional set of filters shall be as recommended by the manufacturer and shall be complete with the appropriate part numbers for identification.

Each unit and any accessory shall be delivered completely assembled and ready to operate.

No exceptions to the specifications will be allowed unless the exceptions are listed on the purchase order or subsequent addenda.

The component parts of the unit shall be new and of proper size and design to safely withstand the maximum stresses imposed.

The manufacturer's torque rating of each driven part shall be equal to or exceed the torque rating of its driving member.

All equipment and accessories cataloged as standard, unless superseded by these specifications, are to be furnished and included in purchase price of this unit.

Bids will be considered only on equipment represented by a supplier capable of providing adequate repair parts, warranty, technical assistance, and training in the United States as of the bid opening date. The supplier shall be capable of

supplying repair parts to Caltrans within five (5) working days after a purchase order for parts is submitted to the supplier, whether by phone, fax, or mail. Bidders may be required to provide documentation supporting this requirement prior to award of the contract.

Suppliers shall be the equipment manufacturer, an authorized factory dealer or representative thereof, or shall have authorization from the equipment manufacturer or authorized factory dealer to solicit the equipment bid. The bidder shall be capable of providing parts, service, warranty, and training for the equipment bid as specified herein. If the bidder cannot provide these items for the equipment bid, the equipment manufacturer or an authorized factory dealer may provide these items for the bidder. Upon request, the signed agreement between the bidder and the equipment manufacturer or authorized factory dealer, stating who will be responsible for providing parts, service, warranty, and training for the equipment bid, shall be provided to the State.

Bids will not be considered if supplier's designated f.o.b. delivery destination is other than the delivery address stated in the invitation to bid.

Only new models in current production, which are cataloged by the manufacturer and for which manufacturer's published literature and printed specifications are currently available, will be considered. Special options may be included only when recommended by the manufacturer of the unit and approved by the State.

All equipment/options are to be factory installed. If the equipment/options are not available factory installed, dealer installed equipment/options may be acceptable. The bidder is to specify those items, which will be dealer installed.

"Caravan" or "drive-away" deliveries from points outside the State of California will not be accepted.

The State reserves the right to purchase a minimum of one (1) additional unit, or up to an additional 30% of the quantity on the Purchase Order, at bid prices for State Agencies and California Local Government Agencies. Orders for such additional units shall be placed within 180 days of bid award date.

The State reserves the right to amend the contract up to 10% of the purchase order price to cover deficiencies or inconsistencies within or between the technical specifications and or drawings. These amendments shall cover the cost of any materials involved and or the standard shop labor rate for modification or installation.

9. SAFETY: Equipment installed by the supplier shall comply with the applicable sections of the California Vehicle Code, the Safety Orders of the California Department of Industrial Relations, and all Federal regulations.

10. WORKMANSHIP: The equipment and any accessories shall be a product of good workmanship and shall be free from any defects that will affect their appearance or serviceability.

11. BOOKS AND MANUALS: One (1) set of standard operator's manual and complete lubrication instructions shall be supplied with each unit.

One (1) set of standard operator's manual and complete lubrication instructions shall be supplied to the following: California Department of Transportation, Division of Equipment, 1920 35th Street, Sacramento, CA 95816, Attention Equipment Parts Coordinator and Lubrication Coordinator (916) 227-9636.

Additionally, one (1) set of operator's manual, complete lubrication instructions, parts books and shop repair manuals (complete with electrical and hydraulic schematics) shall be supplied with the first unit shipped to each "Ship To" destination indicated on the Purchase Order.

When delivered, a certification label shall be affixed stating that the completed unit or installed item conforms to all applicable safety orders of the Division of Industrial Relations in effect at time of manufacture.

12. VEHICLE DOCUMENTATION REQUIRED: The original dealer's "Report of Sale" shall be furnished by all California licensed dealers at the time of delivery of each unit or units covered by these specifications.

A California certification of compliance for vehicle pollution must be supplied at the time of delivery of each unit.

An original weight certificate from a California certified Weigh Master must be supplied at the time of delivery of each unit.

A Federal Excise Tax Exempt Certificate will be attached to the purchase order.

All documentation supplied for registration shall contain the following:

State of California  
Department of Transportation/Equipment  
34th Street and Stockton Boulevard  
P. O. Box 160048  
Sacramento, CA 95816

All required documentation shall be sent to the above address by the time of delivery.

NOTE: The State shall register/license all vehicles with the Department of Motor Vehicles.

13. INCOMPLETE VEHICLE DOCUMENT REQUIRED: An Incomplete Vehicle Document (IVD) shall be attached to the cab chassis. The IVD shall contain all information required by Federal Code of Regulations 49 Part 568.4. The IVD shall remain with the cab chassis through all modifications. If changes are made to the cab chassis that affect the validity of the IVD an addendum to the document that contains the intermediate stage manufacturer's name, mailing address, and an indication of all changes that should be made in the IVD to reflect the changes made to the cab chassis.
  
14. GROSS VEHICLE WEIGHT RATING (GVWR) CERTIFICATION: Certification from the final vehicle manufacturer for the Gross Vehicle Weight Rating (GVWR) on each axle of each completed unit on the Purchase Order shall be supplied at time of delivery.

An original weight certificate from a California Weigh Master must be supplied at the time of delivery of each completed unit.

Documentation for **each** vehicle shall include Manufacturer; Model Number or name; VIN Number; and GCWR. Documentation from the vehicle supplier or dealer **is not** acceptable.

## OPTIONS

The following options or accessories shall be furnished on the cab and chassis only when specified on the Invitation For Bid and the Purchase Order. Price on options shall be per unit.

1. HEAVY DUTY CHASSIS: The heavy duty chassis will have a minimum Gross Vehicle Weight Rating (GVWR) of 33,000 lbs and a minimum Gross Combined Weight Rating (GCWR) of 45,000 lbs. The cab chassis shall have a minimum payload of 15,000 lbs with the center of mass located 90 to 95 inches behind the CNG tank enclosure. The following portions of the specifications will be changed:
  - A. CHASSIS DIMENSIONS: The effective dimension from the back of the CNG tank enclosure to the end of frame (CF) shall be 200 inches to 205 inches. The effective dimension from the back of the cab to center of the rear axle (CA) shall be 120 inches (+/- 3 inch). The usable cab-to-axle (CA) distance shall be defined as the clear distance from the rear of the CNG tank enclosure and accessories and the centerline of the rear axle. Splicing or lengthening the original frame will not be acceptable.
  - B. FRONT AXLE: The front axle shall have a minimum manufacturer's Gross Axle Weight Rating (GAWR) of 14,000 lbs. for the axle, springs, and brakes.
  - C. FRONT SUSPENSION: The front spring shall be parabolic taper leaf spring and have a rated capacity of not less than 14,000 lbs. Shock absorbers shall be supplied and installed.
  - D. FRAME: The frame shall be full "C" channel construction. The RBM (Resistance Bending Moment) of the frame shall not be less than 1,750,000 in.-lbs. per rail, with a Section Modulus of not less than 15 cubic inches. The rails shall be fabricated from steel with minimum yield strength of 110,000 PSI. Each rail shall be full length with no splicing or added extensions.
  - E. REAR AXLE: The rear axle shall be single reduction unit with a minimum manufacturer's GAWR of 21,000 lbs. for the axle, springs, and brakes. The drums shall be steel, outboard mounted, with ten studs per wheel on a bolt circle diameter of 11.25 inches. The differential shall be filled with a synthetic type gear lubricant (Ref. Emgard 75W-90 or comparable), with an extended change interval. The fill location(s) shall be labeled to indicate the differentials have been filled with a synthetic lubricant and the recommended change interval. The gear ratio supplied shall provide a road speed between 65 mph and 70 mph at governed engine RPM with the transmission in 6<sup>th</sup> gear position.

- F. REAR SUSPENSION: The rear suspension shall have a rated capacity of not less than 21,000 lbs. The rear suspension shall be equipped with either multi-leaf auxiliary springs or an anti-roll torsion type stabilizer bar. The multi-leaf auxiliary springs shall have a minimum rated capacity of 2250 pounds each and are 70% loaded at rated axle GAWR.
- G. A 2-axle trailer-towing package completes with all controls (foot and hand controls). Controls shall be mounted and airlines terminated at the end of the frame with glad hands and covers. The service line shall be on the left side of the truck and the emergency line on the right side. The parking brake controls shall include either a tractor only parking brake control or an integrated type control that will allow the release of the trailer spring brakes without releasing the truck parking brakes.
- H. TIRES: Seven (7) steel belted radial tubeless type tires, mounted and balanced on the wheels, shall be furnished. All tires shall be size 12R22.5 with a minimum Load Range H, and shall meet the GAWR of the highest axle capacity on the vehicle. Tires shall have a highway type tread.
- I. One (1) or more air accessory outlets with pressure protection valves. Any air accessories shall be fed through a pressure protection valve.

Option No. 1 Price \$ 178,450<sup>00</sup>

2. EXTENDED LENGTH HEAVY DUTY CHASSIS: The extended length heavy duty chassis will have a minimum Gross Vehicle Weight Rating (GVWR) of 33,000 lbs and a minimum Gross Combined Weight Rating (GCWR) of 45,000 lbs. The cab chassis shall have a minimum payload of 15,000 lbs. The following portions of the specifications will be changed: all other capacities shall be equal to the heavy duty chassis specification.

- J. CHASSIS DIMENSIONS: The effective dimension from the back of the CNG tank enclosure to the end of frame (CF) shall be 215 inches to 220 inches. The effective dimension from the back of the cab to center of the rear axle (CA) shall be 145 inches (+/- 3 inch). The usable cab-to-axle (CA) distance shall be defined as the clear distance from the rear of the CNG tank enclosure and accessories and the centerline of the rear axle. Splicing or lengthening the original frame will not be acceptable.

Option No. 2 Price \$ 179,500<sup>00</sup>

3. FOUR YARD DUMP BODY CHASSIS: The following portions of the specifications will be changed:

- A. CHASSIS DIMENSIONS: The effective dimension from the back of the CNG tank enclosure to the end of frame (CF) shall be 170 inches to 175 inches. The effective dimension from the back of the cab to center of the rear axle (CA) shall be 108 inches (+/- 3 inch). The usable cab-to-axle (CA) distance shall be defined as the clear distance from the rear of the CNG tank enclosure and accessories and the centerline of the rear axle. Splicing or lengthening the original frame will not be acceptable. Additional specifications shall remain the same as Option 1 Heavy Duty Chassis.

Option No. 3 Price \$ 178,250<sup>00</sup>

4. 10 SPEED MANUAL TRANSMISSION: In lieu of the automatic transmission, a manual transmission shall be supplied and installed. The transmission shall be of a twin countershaft design and shall have 10 speeds forward with a deep ratio first gear and reverse. The transmission shall be rated at not less than the maximum torque delivered from the engine. The transmission shall be complete with oil pump, auxiliary oil cooler, and PTO provisions. (Ref. Fuller Model No. RT-8908LL, or comparable.)

The transmission shall be filled with a synthetic type gear lubricant (Ref. Emgard 50W, or comparable), with an extended change interval. The fill location(s) shall be labeled to indicate the transmission has been filled with a synthetic lubricant.

A shifting pattern diagram shall be submitted for the transmission supplied.

The clutch shall be a two-plate design, not less than 14 inches in diameter, faced with ceramic buttons and a minimum torque capacity of 800 ft-lb. Means for lubricating the clutch release bearing without removing a cover on the clutch housing shall be supplied and installed.

Option No. 4 Price \$ N/A

**QUESTIONNAIRE FOR CNG TRUCK CAB AND CHASSIS**

Year & Make 2008-2009 Sterling  
Model L8513

1. **CAPACITY:** Manufacturer's GVWR 35,600  
Manufacturer's GCWR 45,000  
Total Curb Weight \_\_\_\_\_
  
2. **WHEELBASE:** Wheelbase 212 in.  
Usable Cab-to-axle 122 in.
  
3. **ENGINE:** Make/Model Cummins ISL-G  
Displacement 8.9L  
Gross HP 300HP @ 2100 rpm  
Gross torque 860 ft. lbs. @ 1300 rpm
  
4. **FRAME:** Resistance Bending Moment (RBM) 1,810,000 inches/lbs./rail  
Minimum RBM at Engine Notch \_\_\_\_\_ inches/lbs./rail  
Section Modulus 15.069 cubic inches  
Yield Strength 120,000 PSI
  
5. **TRANSMISSION:** Make/Model Allison 3500 RDS  
Filled with Transynd transmission fluid? (y/n) y  
Transmission with retarder: Make/Model N  
Filled with Transynd transmission fluid? (y/n) Y
  
6. **COOLING SYSTEM:**  
Coolant product name Antifreeze pre charged with Glycol SCA HD  
Coolant change interval 100,000 months/miles
  
7. **EXHAUST:** Muffler – Horizontal or Vertical? Horizontal  
How far behind cab does muffler extend? 1.4  
Exhaust stack – Horizontal or Vertical? Verticle  
How far does exhaust stack intrude into CA? \_\_\_\_\_
  
8. **FRONT AXLE:** Make/Model AF-.7-3  
Manufacturer's Rating 14,700 Lbs.  
Set-back Distance? 49.1 Inches  
GAWR 14,600 Lbs.

Hubs filled with synthetic lubricant? (y/n) Y  
Lubricant product name Mobil  
Lubricant change interval 100,000 2 Year months/miles

9. REAR AXLE: Make/Model RS-21-145 R Series  
Manufacturer's Rating 21,000 Lbs.  
Ratio 4.88  
21,000 GAWR  
Electronic traction control (y/n) n  
Top geared speed 65  
Differential filled with synthetic lubricant/ (y/n) Y

10. FRONT SUSPENSION: 14,600 lbs.

11. REAR SUSPENSION: 23,000 lbs.  
Capacity of auxiliary spring(s) 2,250+ lbs.

12. BRAKES: ABS 2- or 4-channel? 4

<u>WHEELS</u>	<u>FRONT</u>	<u>REAR</u>
Rim Size	<u>22.5x8.25</u>	<u>22.5x8.25</u>
Manufacturer's rating	<u>14,600</u>	<u></u>
Hub Piloted? Y/N	<u>Y</u>	<u>Y</u>

<u>TIRES</u>	<u>FRONT</u>	<u>REAR</u>
Size	<u>12R22.5</u>	<u>Same</u>
Load Range	<u>H</u>	<u>Same</u>
Manufacturer/Model	<u>Goodyear G149</u>	<u>Same</u>

15. HOOD AND FENDERS: Tilt? (Yes/No) Y

16. SWITCH PANELS: Chassis supplied w/ multi-plex wiring? (Yes/No) Y  
Number of Remote Power Modules (RPM's)? one  
Number of switches supplied? 7  
Configuration of switches? 6 and one rocker

17. FUEL CAPACITY (diesel-gallon equivalent): 75 DGE
18. WARRANTY: Warranty provider(s) address, phone number, and contact person:  
Engine AFV Fleet Service
19. INSPECTION: Address of pre-delivery inspection location:  
14642 Rancho Vista Dr. Fontana CA  
13443 E. Freeway Dr. Santa Fe Springs, CA "Final"

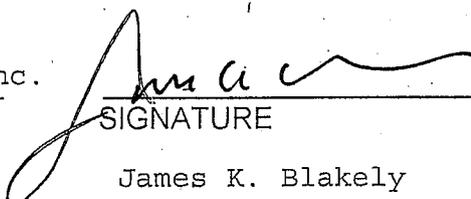
LIST ANY ADDITIONAL INFORMATION OR EXCEPTIONS TO THE SPECIFICATIONS BELOW: Arvin Meritor Slack adjusters "as equal"

Carmenita Ford Truck Sales Inc.  
NAME OF FIRM

13443 E. Freeway Dr  
STREET ADDRESS

Santa Fe Springs, CA 90670  
CITY, STATE, ZIP CODE

562-921-1411-203  
PHONE NUMBER



SIGNATURE

James K. Blakely  
NAME

Fleet Sales  
TITLE

Contact Information for Specification: 02450-128-072, PE No. 32-12-5335

<b>DURING BIDDING AND PRIOR TO PURCHASE ORDER AWARD CONTACT INFORMATION</b>		
<b>Purpose</b>	<b>Name</b>	<b>Telephone No.</b>
Any technical or administrative questions concerning this bid.	BUYER: As listed on the Invitation For Bid	As listed on the Invitation For Bid Fax 916-375-4613
<b>AFTER PURCHASE ORDER AWARD CONTACT INFORMATION</b>		
Administrative questions, first inspection request, payment ...	Bob Ceccato Shipping and Receiving Division of Equipment	916-227-9636
All technical issues, equivalent parts, print discrepancies, Spec interpretation...	Stanley Jacobs Specification Engineer	916-227-9710
Follow up inspections, scheduling after inspection request, copy of inspection report ...	ROSS SNYDER Quality Assurance Division of Equipment	916-227-9709
Establish training plan.	ED NUNES	916-227-9695
Warranty questions.	JOHN VICTORINO	916-227-9724

### CALTRANS IN-SHOP WARRANTY AGREEMENT

Name of Supplier/Manufacturer AFV FLEET SERVICE  
Warranty Representative (print or type) CARL CARLSON  
Street Address 14520 WHITTRAM AVE.  
City, State, Zip Code FONTANA, CA 92335  
Telephone Number 909-350-4088  
Solicitation No. 56847 Due Date 6/3/2008  
Item (Quantity/Brand/Model) 10 STERLING L8513 ENGINE - Fuel System

---

When equipment is purchased for Caltrans, a section of the specifications requires the supplier/manufacturer to enter into an In-Shop Warranty Agreement.

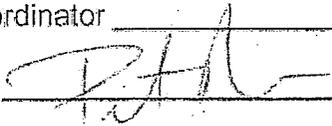
The terms of the In-Shop Warranty Agreement for this equipment are as follows:

1. Labor rate charged by Caltrans will be \$100.00 per hour.
2. Warranty claims will be processed on a Caltrans Work Order unless the supplier/manufacturer furnishes standard warranty forms.
3. Suppliers'/manufacturers' standard flat rate time schedules shall be used as a guide for In-Shop Warranty repair time. If a supplier's/manufacturer's flat rate time schedule is not available, Caltrans will use the time that is recorded on the Caltrans Work Order.
4. Replacement parts will be available within 5 working days from the date of receipt by supplier/manufacturer of a Purchase Order, whether the order is made by telephone or in writing.
5. Replaced parts will be held 60 days for inspection by the supplier/manufacturer.
6. Original Equipment Manufacturers' parts will be used as replacement parts; or, if OEM parts are not available, after-market parts of equal or better quality will be utilized.
7. Copies of invoices for all parts will be provided to the supplier/manufacturer.

Caltrans will contact the supplier/manufacturer for authorization to perform In-Shop Warranty repairs as stated in this agreement. Only under extreme emergency conditions will In-Shop Warranty be performed without prior authorization. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48 hours of notification, written or verbal.

In-Shop Warranty Agreement shall remain in effect until all conditions of warranty in the State of California specifications and in the original manufacturer's warranty expire.

Signature, Caltrans Warranty Coordinator \_\_\_\_\_

Signature, Supplier/Manufacturer 

Date

5/27/08

Date

### CALTRANS IN-SHOP WARRANTY AGREEMENT

Name of Supplier/Manufacturer Carmenita Truck Center  
Warranty Representative (print or type) Steve Coglan/ Tom Clifton  
Street Address 13443 E. Freeway Dr.  
City, State, Zip Code Santa Fe Springs, CA 90670  
Telephone Number 562-921-1411  
Solicitation No. 56847 Due Date 6/3/2008  
Item (Quantity/Brand/Model) Sterling L8513 Chassis

When equipment is purchased for Caltrans, a section of the specifications requires the supplier/manufacturer to enter into an In-Shop Warranty Agreement.

The terms of the In-Shop Warranty Agreement for this equipment are as follows:

1. Labor rate charged by Caltrans will be \$100.00 per hour.
2. Warranty claims will be processed on a Caltrans Work Order unless the supplier/manufacturer furnishes standard warranty forms.
3. Suppliers'/manufacturers' standard flat rate time schedules shall be used as a guide for In-Shop Warranty repair time. If a supplier's/manufacturer's flat rate time schedule is not available, Caltrans will use the time that is recorded on the Caltrans Work Order.
4. Replacement parts will be available within 5 working days from the date of receipt by supplier/manufacturer of a Purchase Order, whether the order is made by telephone or in writing.
5. Replaced parts will be held 60 days for inspection by the supplier/manufacturer.
6. Original Equipment Manufacturers' parts will be used as replacement parts; or, if OEM parts are not available, after-market parts of equal or better quality will be utilized.
7. Copies of invoices for all parts will be provided to the supplier/manufacturer.

Caltrans will contact the supplier/manufacturer for authorization to perform In-Shop Warranty repairs as stated in this agreement. Only under extreme emergency conditions will In-Shop Warranty be performed without prior authorization. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48 hours of notification, written or verbal.

In-Shop Warranty Agreement shall remain in effect until all conditions of warranty in the State of California specifications and in the original manufacturer's warranty expire.

Signature, Caltrans Warranty Coordinator \_\_\_\_\_

Signature, Supplier/Manufacturer *Tom Clifton* \_\_\_\_\_

Date

5-27-08  
Date

FEDERAL EXCISE TAX  
EXEMPTION CERTIFICATE

NAME OF VENDOR <i>Carmonita Truck Center</i>		
NAME OF AGENCY <i>Department of Transportation</i>		
THIS ORDER - KIND <input type="checkbox"/> SUB-PURCHASE ORDER	NUMBER <i>62145</i>	DATE <i>September 12, 2008</i>
<input checked="" type="checkbox"/> PURCHASE ORDER		

THE UNDERSIGNED HEREBY CERTIFIES THAT HE IS AN OFFICER OR EMPLOYEE OF THE STATE OF CALIFORNIA AND THAT HE IS AUTHORIZED TO EXECUTE THIS CERTIFICATE AND THAT THE ARTICLE OR ARTICLES SPECIFIED IN THE ACCOMPANYING ORDER OR ON THE REVERSE SIDE HEREOF ARE PURCHASED FOR THE EXCLUSIVE USE OF THE GOVERNMENTAL UNIT NAMED ABOVE.

IT IS UNDERSTOOD THAT THE EXEMPTION FROM TAX IN THE CASE OF SALES OF ARTICLES UNDER THIS EXEMPTION CERTIFICATE TO THE STATE OR ANY POLITICAL SUBDIVISION THEREOF IS LIMITED TO THE SALE OF ARTICLES PURCHASED FOR THEIR EXCLUSIVE USE, AND IT IS AGREED THAT IF ARTICLES PURCHASED TAX-FREE UNDER THIS EXEMPTION CERTIFICATE ARE USED OTHERWISE OR ARE SOLD TO EMPLOYEES OR OTHERS, SUCH FACT MUST BE REPORTED TO THE MANUFACTURER OF THE ARTICLE OR ARTICLES COVERED BY THIS CERTIFICATE. IT IS ALSO UNDERSTOOD THAT THE FRAUDULENT USE OF THIS CERTIFICATE TO SECURE EXEMPTION WILL SUBJECT THE UNDERSIGNED AND ALL GUILTY PARTIES TO A FINE OF NOT MORE THAN \$10,000, OR TO IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH, TOGETHER WITH COSTS OF PROSECUTION.

OFFICER OR EMPLOYEE - TITLE OR POSITION <i>Contract Administrator</i>	SIGNATURE <i>Jim Moore</i>
--	-------------------------------

STD. 802 (REV. 4-59)

STATE OF CALIFORNIA