

REPORT TO CITY COUNCIL

Approved by:

John Scarborough, Interim Public Works Director

Arnoldo Rodriguez, City Manager

Council Meeting of: February 20, 2019

Agenda Number: C-5

SUBJECT:

Consideration of a Resolution for Bid Award to Municipal Maintenance Equipment, Inc. for the Purchase of One Diesel PM Certified Street Sweeper in the Amount of \$249,530.65.

RECOMMENDATION:

Staff recommends that the City Council (Council) approve the award to Municipal Maintenance Equipment, Inc. (MME) for the purchase of one diesel PM Certified street sweeper in the amount of \$249,530.65.

SUMMARY:

The City has been granted up to \$220,000 of federal funding from the Congestion Mitigation & Air Quality Program (CMAQ) for the purchase of one diesel PM Certified street sweeper. CMAQ awards funding to assist with these purchases if the equipment upgrade will include the upgrade from a non-certified sweeper to a PM 10 Certified sweeper. On October 29, 2018, the City advertised a Request for Proposals (RFP) from which the City received three bids. Staff recommends that an award be made to the lowest responsible bidder, MME.

DISCUSSION:

The City Streets Maintenance Division currently houses three street sweepers, all of which are necessary to provide an adequate service level to the community. Of the three units, #329 a 2003 model year has been scheduled for replacement for the last two fiscal years. This replacement is necessary due to the CNG tanks reaching a predetermined expiration date and the overall unit exceeding its life cycle expectancy of ten years. The remaining two sweepers are 2008 and 2014 models respectively which indicates that the 2008 model year sweeper will be recommended for replacement soon.

Staff anticipated the replacement of unit #329 in 2015 and moved to secure CMAQ funding to assist with the purchase of a new street sweeper at that time, as outlined below:

- December 2015 – Council approved submitting a grant application for CMAQ funding for seven projects, including replacing unit #329 with a new PM-10 certified street sweeper.
- January 2016 – The Madera County Transportation Commission (MCTC) approved all seven projects.
- December 2016 – The sweeper replacement project was listed and approved in the 2017 Federal Transportation Improvement Program (FTIP).
- March 2017 – City applied for a Buy America Waiver.
- April 2017 – The Federal Government advises partner agencies that the Buy America Waiver requests were placed on hold pending program review.
- April 2018 – The Buy America Waiver request was approved.
- May 2018 – Unit #329 was retired from the City fleet.
- June 25, 2018 – City staff requested an Authorization to Proceed from Caltrans.
- August 3, 2018 – The Authorization to Proceed was received from Caltrans.

The RFP was advertised on the City's website and sent to several potential bidders by the Purchasing Department on October 29, 2018. Addendum Number 1 was posted to the City's website on November 20, 2018. On December 11, 2018, three bids were received, opened, and read as required. A committee comprised of staff from the Public Works and Fleet Departments reviewed and ranked the proposals based on price, conformity to specifications, and expected delivery date. The bid ranking is listed below:

1. MME	\$236,325.23
2. Haaker	\$270,949.75
3. Terry Equipment Inc.	\$263,956.80

MME met the specification required and was able to provide the street sweeper at the lowest price. MME will begin production on the street sweeper once a purchase order has been issued and estimates 90 days for delivery.

FINANCIAL IMPACT:

The total bid amount is \$236,325.23. Additionally, the City requested pricing on several optional items. Below is the break down of the total proposed cost:

Schwarze/Freightliner Sweeper	\$236,325.23
Optional Life Liner	\$ 6,987.54
Optional Front Spray Bar	\$ 752.34
<u>Optional Extended Warranty on Hopper</u>	<u>\$ 5,465.54</u>
TOTAL	\$249,530.65

The majority of this project will be funded by CMAQ in the amount of .88 percent of the purchase price, up to \$220,000. The City will be reimbursed by CMAQ for this amount once the purchase has been made. With the optional items included, CMAQ reimbursement will total \$219,586.97. The remaining local match of \$29,943.68 has been budgeted in the Fleet Equipment Replacement Fund, 30701250, for Fiscal Year 2018/19. This will have no impact to the City's General Fund.

CONSISTENCY WITH THE VISION MADERA 2025 PLAN:

Strategy 126 – Clean, attractive streets: Expand or develop programs to create clean, safe and aesthetically pleasing streets.

ATTACHMENTS:

1. Resolution
2. Request for Proposals and Addendum No. 1
3. Proposal from Municipal Maintenance Equipment, Inc.

RESOLUTION NO. _____

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MADERA, CALIFORNIA, AWARDED A BID TO MUNICIPAL MAINTENANCE EQUIPMENT, INC. FOR THE PURCHASE OF ONE DIESEL PM CERTIFIED STREET SWEEPER IN THE AMOUNT OF \$249,530.65.

WHEREAS, the City of Madera (City) has advertised for bids for one diesel PM Certified street sweeper; and

WHEREAS, bids were duly received, opened, and read by the City Purchasing Department as required; and

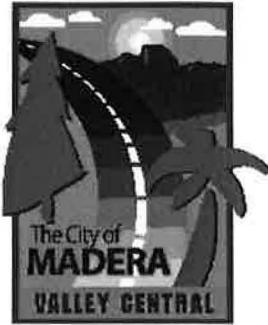
WHEREAS, a committee of staff from the Public Works and Fleet Departments reviewed and ranked each proposal based on price, delivery date, and conformity to specification; and

WHEREAS, Municipal Maintenance Equipment, Inc. was the lowest responsible bidder.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MADERA finds, orders and determines as follows:

1. The above recitals are true and correct.
2. The low bid submitted by Municipal Maintenance Equipment, Inc. is responsive.
3. The bid award to Municipal Maintenance Equipment, Inc. is hereby approved in the amount of \$249,530.65.
4. This Resolution is effective immediately upon adoption.

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REQUEST FOR PROPOSAL

**8 CUBIC YARD CLEAN DIESEL
REGENERATIVE AIR SWEEPER**

RFP # 201819-01

Federal Aid Project CMLNI-5157(105)

October 29, 2018

1. INSTRUCTIONS AND CONDITIONS

- A. No bid proposal will be considered for award unless submitted on the bid form included in this Request for Proposal (RFP). The bid must be fully complete and executed. Bidders shall send four (4) copies of the completed proposals which will include; three (3) bound and one (1) unbound copies with a copy of this RFP attached to the front of each proposal, with appropriate responses included.

Format: Proposal should be 8 ½ x 11 inches, printed two-sided on recycled paper with removable bindings, bound in a single document and organized in sections. Binding can be as simple as a staple. Original and copies may be submitted in one envelope/package.

Each bid proposal, consisting of the original and copies as directed above, must be submitted in a sealed envelope addressed to Rosa Hernandez, Procurement Services Manager, City of Madera, Purchasing Department, 1030 South Gateway Drive, Madera, California 93637, and delivered prior to the time and date specified in this document. Each sealed envelope containing a bid proposal must have, on the outside, the name of the bidder, bidder's address and the statement "DO NOT OPEN UNTIL THE TIME OF BID OPENING" and in addition, must be plainly marked on the outside as follows:

Bid: 8 CUBIC YARD CLEAN DIESEL REGENERATIVE AIR SWEEPER

RFP: 201819-01

Federal Aid Project: CMLNI-5157(105)

Filing Deadline: Tuesday, November 27, 2018 - 3:00 PM

Proposals shall be received as set forth in the advertisement. Proposals received after the scheduled time for opening will be returned to the proposer unopened. The opening of any proposal shall **NOT** be considered as acceptance of the Proposal as a responsive proposal.

- B. The Bid Documents consist of this Request for Proposal and any addenda which may have been issued. Bidder shall thoroughly examine and be familiar with all Bid Documents. Submission of a bid shall constitute bidder's acknowledgment upon which the City may rely that bidder has thoroughly examined and is familiar with the Bid Documents. Failure or neglect of bidder to receive or examine all or part of the Bid Documents shall in no way relieve the bidder from any obligations with respect to this RFP or any resultant award. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any part of the Bid Documents.
- C. Attention of bidders is especially directed to the specifications which, in addition to the bid proposal and these instructions, are the basis for evaluation and will be part of any agreement with the successful bidder. Any deviations from the specifications in this notice shall be proper reason for rejection of all of any part of the bid proposal.
- D. The City reserves the right to reject or accept any or all bids or parts thereof, and to accept or reject the alternatives individually or jointly, for any reason.
- E. The City reserves the right to consider any minor deviations from the specifications and determine the acceptance or rejection of such deviation.

Any proposal may be withdrawn at any time prior to the hour fixed for the opening, provided that a request in writing executed by the proposer or his/her duly authorized representative, for the withdrawal of such proposal is filed with Purchasing-Central Supply. The withdrawal of a proposal shall not prejudice the right of a proposer to file a new proposal prior to the time and date set for the opening. After the expiration of the time and date for receipt of proposals, a proposal may not be withdrawn or altered.

- F. The City of Madera recognizes its policy of providing equal opportunity to all qualified persons and reaffirms its commitment that there shall be no discrimination against qualified applicants, or employees on the basis of race, gender, color, national origin, religion, age, disability, sexual orientation or marital status. The City also specifically encourages interested Disadvantaged Business Enterprises to apply.
- G. The City reserves the right to seek supplementary information from any proposer at any time after official proposal opening and before the award. Such information will be limited to clarification or amplification of information asked in the original proposal.
- H. Issuance of the RFP and receipt of proposals does not commit the City to make an award. The City reserves the right to postpone the RFP process for its own convenience, to accept or reject any or all proposals received in response to this RFP, to negotiate with other than the selected company should negotiations with the selected company be terminated, or to cancel any section of this RFP.
- I. An award will be made as soon as possible after the opening of bids. Bid proposals

shall remain valid for at least sixty (60) days after the opening of bids. No bid proposal may be withdrawn after the bid opening.

- J. Contract shall be in the form of a City of Madera Purchase Order and attachments, including the Request for Proposal and response thereto which shall be a part thereof as though fully set forth therein. The Purchase Order will be very similar in content to Attachment A "Draft" Purchase Order which is provided for information purposes only and to help clarify City intent relevant to this RFP.
- K. There is no expressed or implied obligation for the City to reimburse responding firms for any expenses incurred in preparing proposals in response to this request.
- L. Bidder's Proprietary Information: Upon award, all documents provided by the successful bidder shall become public record. All documents provided by any bidders, other than the successful bidder, shall become public record in their entirety and subject to disclosure, unless said documents are retrieved by the bidder within ten (10) business days of the award. This shall also include but is not limited to documents for projects for which all proposals are rejected and projects for which an award is not made for any reason. In the event that one or more proposals are returned to the bidding parties, it is the intent of the City that such documents shall not become public records of the City unless required by the California Public Records Act or other provisions of law.
- M. The City reserves the right to modify RFP at any time. In the event it becomes necessary to modify or revise the RFP, a written amendment or addenda issued by City's Purchasing-Central Supply Division is the only method which should be relied on with respect to changes to the RFP. Bidder is responsible to contact City's Purchasing-Central Supply Division prior to submitting a bid to determine if any amendments were made to the RFP. Documents, amendments, addenda, etc. will be posted to the Purchasing page of the City's website at <http://www.cityofmadera.ca.gov/purchasing> under Bid Announcement and Results.

No prior, current, or post award verbal conversations or agreements with any officer, agent, or employee of the City shall affect or modify any terms or obligations of this RFP, or any contract resulting from this procurement.

No questions or inquiries should be directed to any individual(s) at the locations detailed in this document. All inquiries should be submitted in writing per the process described in this document.

Questions and suggestions concerning the RFP must be submitted in writing no later than 3:00 P.M. Monday, November 19, 2018. Written questions or inquiries should be e-mailed, mailed or faxed to:

Rosa Hernandez
Procurement Services Manager
City of Madera City

Purchasing-Central Supply
1030 South Gateway Drive
Madera, CA 93637

rhernandez@cityofmadera.com

FAX: (559) 661-0760

- N. Letters of Objection: Any Proposer believing that any part of the RFP, including the specifications and/or the bidding and evaluation procedures, is discriminatory against the Proposer or precludes the Proposer from being given reasonable consideration in the procurement process, must submit a letter ten (10) days prior to the scheduled filing deadline to City's Procurement Services Manager clearly stating the specific objection and the areas of concern to the Proposer and including a proposed method for resolution of such objections. Proposers are cautioned that any such objections not timely raised in the manner specified herein shall not be considered.

2. SPECIFICATIONS

INTENT:

It is the intent of these specifications to describe a conventional chassis which is sufficiently rated to transport a full load of sweeping debris at speeds up to 55 MPH. The chassis shall be equipped with dual steering and operator controls and an automatic transmission. All tires shall be the same size and have dual tires on each side of the rear axle (six-wheel configuration).

These specifications are intended to describe the type, size and quality of one (1) 8 Cubic Yard Clean Diesel Regenerative Air Sweeper which will best meet the needs of the City of Madera. Any bid received that does not contain a bid for diesel equipment will be rejected.

The unit shall be new of current manufacture. No prototype, demo, used, vacuum type, or mechanical type sweepers will be accepted.

All parts not specifically mentioned which are necessary to provide a complete street sweeper shall be included in the bid and shall conform in strength, quality of materials, and workmanship to what is normally provided to the trade in general.

The Owner reserves the right to consider "or equal" components that are substantially equal or better in every respect to that so indicated or specified in the sweeper specifications. Decisions of or equal or equivalency will be at the sole interpretation of the City of Madera.

TERMS:

All equipment furnished under this contract shall be new, unused, and the same as the

manufacturer's current production model. Accessories not specifically mentioned herein, but necessary to furnish a complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. The equipment furnished shall conform to all ANSI Safety Standards. Extra Heavy Duty (E.H.D.) as applied in this bid is interpreted to mean that the item to which it applies shall exceed the usual quality, capacity, strength and/or durability of standard production items as required in street sweeper service.

The City reserves the right to reject any or all proposals or portions thereof. The right is also reserved to waive any minor irregularities on the RFP. The City will Award to the lowest responsible Bidder whose proposal is the most advantageous to the City from the standpoint of suitability to purpose, quality, service, previous experience, price, date of delivery, and to accept the bid that is in the best interest of the City.

INFORMATION FOR BIDDERS:

All equipment must be PM-10 certified. All equipment must be legal to use on Federal and State Highways, must conform in all respects to the State of California Industrial Safety Orders, the Motor Vehicle Code, California Highway Patrol Regulations and must meet all Environmental Protection Agency Standards and Regulations.

Completed unit to be delivered to the City of Madera, City Yard, 1030 South Gateway Drive, Madera, California, 93637.

Prices quoted shall exclude all Federal Excise Tax.

Prices quoted shall include applicable State tax.

Bids must be submitted on the forms supplied by the City of Madera and include all applicable taxes and charges. It is required that the manufacturer's complete measurements and specifications be submitted and made a part of the bid.

Supplier shall keep records of parts used in the manufacture of the specified equipment and shall provide two copies to the City, of any improvement or modification that may improve the specified equipment.

Minimum requirements are detailed in these specifications. All dimensions, sizes, dates, and expressions of quality are minimum specifications, unless otherwise stated.

Bidders must indicate compliance for each item throughout the bid by writing "YES" or "NO". Failure to do so may be cause to reject the bid. All "NO" answers must be fully explained on the Exception to Specification Form and be attached to and submitted with bid. Failure to explain "NO" answers may be cause to reject bid.

SECTION A - CHASSIS

CHASSIS (2018 or newer Model Year Freightliner M2 (Dual) OR EQUAL):

Compliance

- _____ 1. Chassis will be conventional design with a minimum 33,000 GVW rating. State chassis make, model and point of manufacture
- _____ 2. Wheelbase shall not exceed 176 inches.
- _____ 3. Cab to axle shall be not more than 106 inches.
- _____ 4. For safety, the rear of the sweeper shall be equipped with a rear panel to provide under ride protection. When dumping debris, material shall not be discharged on top of the rear panel.
- _____ 5. Two frame mounted front tow hooks shall be provided
- _____ 6. One- (1) 25-gallon fuel tank shall be provided for single engine models. Dual engine models shall share one 50-gallon fuel tank. All tanks shall be easily accessible without raising or shifting any components. A fuel gauge, in cab, shall be supplied. Sight tube is not acceptable.
- _____ 7. Diesel emissions shall be EPA 2018, with on-board diagnostics (OBD) and have a minimum capacity of 6 U.S. gallons diesel emissions fluid

CHASSIS ENGINE:

- _____ 1. Truck engine shall be 2018 California Air Resources Board Emission Compliant, Cummins ISB 6.7-200 or equivalent, turbocharged diesel, 200 HP @ 2300 RPM, 520ft-lbs. @ 1600 RPM.
- _____ 2. Truck engine shall be equipped with a single vertical exhaust system. Exhaust shall not extend above top of sweeper housing.
- _____ 3. Engine shall be equipped with block heater.
- _____ 4. Radiator fan shall be viscous drive type.

AUXILIARY ENGINE: (OPTIONAL)

- _____ 1. If equipped, auxiliary engine to be mounted on sweeper for easy access and to minimize noise levels in cab during sweeping operation.
- _____ 2. The sweeper power unit shall be a diesel fueled, water cooled, CARB tier 4 Final emissions certified, industrial engine. Engine output shall not be less than 275 lb./ft of torque, developing not less than 99 HP @ 2400 RPM.
- _____ 3. If equipped, auxiliary engine shall incorporate a diesel fuel system that is B20

diesel compatible.

- _____ 4. 12 volt ignition, electric starter and minimum 95 amp alternator with charge indicator gauge mounted on control console in cab.
- _____ 5. Electric linear actuator/revolution limiter for power unit throttle control.
- _____ 6. A suitable size work platform will be provided to allow safe access to auxiliary engine area if the auxiliary engine placement, chassis wheelbase, and sweeper configuration provides sufficient area to allow a work platform to be installed.
- _____ 7. Access will be accomplished from the ground level by steel steps covered with anti-skid grating and proper size grab handle to insure maximum safe entry and exit from work platform.
- _____ 8. Work platform, if installed, will have suitable safety rails to provide a safe work area.

TRANSMISSION, AXLES, WHEELS & BRAKES:

- _____ 1. An Allison 2500 RDS series (or approved equal) automatic transmission shall be provided.
- _____ 2. Sweeper shall include a rear axle having a gear ratio properly suited for engine/chassis configuration and capable of maintaining speeds appropriate for maximum sweeping efficiency.
- _____ 3. Front axle shall be minimum 12,000 lb. and be equipped with taperleaf front suspension and shock absorbers.
- _____ 4. The rear axle shall be 21,000 lb. or greater.
- _____ 5. For safety, and to allow the emergency interchange of tires at a job site, the front and rear tires and rims shall be interchangeable.
- _____ 6. Tires shall be tubeless radial tires 14 ply 11R 22.5 "G" load rated. The rear axle shall include dual tires for load capacity; singles will not be acceptable.
- _____ 7. Rims shall be 10 hole steel hub piloted 22.5 x 8.25
- _____ 8. Parking brake shall be spring applied rear wheel drum and shoe.
- _____ 9. Brakes shall be full air brakes S Cam with 18.7 CFM capacity compressor, with automatic slack adjusters and ABS.
- _____ 10. Air system shall include a Bendix AD-9 air dryer with heater.

CAB:

- _____ 1. Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 8 feet for an SAE 98th percentile size operator.
- _____ 2. Steering shall be full power with dual operator controls.
- _____ 3. Seats shall be adjustable, high back, covered with cloth for air circulation and include 3 point seat belts. Seats shall be air ride on both sides.
- _____ 4. Sweeper shall include two (2) heated and remote control, outside west coast type mirrors with lower 8 inch convex lens for easy viewing of the side broom during sweeping.
- _____ 5. To maximize operator visibility of the curb and sweeping gear, a 12" outside RH and LH fender mirror shall be mounted forward of the front wheels.
- _____ 6. For safety during night sweeping, switches shall be illuminated so that they can be readily identified without the use of the cab dome light.
- _____ 7. Switches shall be clearly identified by name and symbol.
- _____ 8. Cab interior environment shall be fully air-conditioned including a fresh air heater/ventilator/defroster.
- _____ 9. Cab shall have full flow through ventilation for optimal temperature control and operator comfort.
- _____ 10. Wipers shall have intermittent feature.
- _____ 11. Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console.
- _____ 12. All glass shall be tinted safety glass.
- _____ 13. Each operator position shall have adjustable sun visor.
- _____ 14. Doors shall be equipped with keyed alike locks.
- _____ 15. Door windows shall be roll up type.
- _____ 16. Side windows shall have defogger.
- _____ 17. Cab shall include two 12V power supplies
- _____ 18. Radio shall be factory AM/FM with standard speakers.
- _____ 19. Dual Electric horns shall be provided.

_____ 20. Adjustable tilt steering wheel

INSTRUMENTS:

- _____ 1. Chassis left side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge, and volt gauge.
- _____ 2. Chassis right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge, and volt gauge.
- _____ 3. Chassis engine instruments shall include warning light and chime for low coolant level, low oil level, and high coolant temperature to warn the operator of a potential problem before any damage to the engine occurs.
- _____ 4. Console shall have left/right primary driver switch.
- _____ 5. Hydraulic functions shall be controlled by rocker switches located in the cab mounted control panel.
- _____ 6. Truck instruments shall include warning lights for battery.
- _____ 7. All console switches including transmission controls and all gauges shall be illuminated.
- _____ 8. Intake mounted air restriction indicator with graduations.

ELECTRICAL:

- _____ 1. Batteries should be located in an enclosed accessible environment for long life and ease of service.
- _____ 2. Chassis shall have two (2) maintenance free batteries rated at not less than 1850 CCA total, 12 volt.
- _____ 3. Chassis engine shall have a 160 amp alternator
- _____ 4. Chassis lighting shall include sealed multi-beam halogen head-lights, stop lights, tail lights, backup lights, license plate lights, clearance lights, signal lights, illuminated gauges and instrument panel, and directional lights with hazard switch.
- _____ 5. Chassis lighting shall include gutter broom spot light on each side, and two rear mounted work lights.

OTHER CAB ACCESSORIES:

- _____ 1. Unit to include 17" Catwalk behind cab to facilitate access to auxiliary engine, if applicable.

SECTION B – SWEEPER MODULE:

SWEEPER GENERAL:

Compliance

- _____ 1. Sweeper shall be new PM-10 certified regenerative air street sweeper.
- _____ 2. The sweeper shall be equipped with a variable speed device (Single engine models only) approved at 560 ft-lb of input torque and 240 (179 kW) of input power. The variable speed device uses the chassis engine to power the chassis propulsion and the sweeper components.
 - _____ a. The variable speed device shall be located between the chassis engine and the transmission for maximum efficiency.
 - _____ b. The variable speed device shall be capable of directly driving hydraulic pumps without the use of auxiliary Power Take Off's (PTO's) or belt drive systems.
 - _____ c. The variable speed device shall be a planetary gearbox design; varies the input to output ratio. The system provides variable sweep speed operation through the chassis transmission and also directs engine powered PTO for the sweeper components.
 - _____ d. The variable speed device "speed" control pump shall operate directly off the chassis engine coupling in all modes - "Work Mode" or "Road Mode". This pump shall provide variable operating flow - managing the ratio of input to output - for the variable speed device. The system shall include an electronic control module which manages pump flow.
 - _____ e. The variable speed device shall operate directly off of the chassis engine coupling in all modes - "Work Mode" or "Road Mode". For the sweeper, the variable speed device PTO shall power a blower drive and sweeper pump through a conventional drive shaft.
- _____ 3. To accommodate both easy access and sound attenuation, the front cowling shall be enclosed on both sides by two access doors, one on each side of the sweeper body. These doors provide access to serviceable items without tilting the hopper.

- _____ 4. Front cowling and access doors shall use Quiet Pak™ acoustical insulation to sustain minimal ambient noise levels.

BLOWER:

- _____ 1. Blower shall be hydraulically or belt driven. Hydraulically driven blowers shall be directly coupled to its motor to maximize efficiency. Minimum operating speed of the fan must be at least 3,300 RPM. Belt driven blowers shall be driven by a five (5) "V" groove power belt for maximum performance and simplicity of construction, with manual tension adjustment not requiring repositioning of the engine.
- _____ 2. The blower housing shall be constructed of 10 gauge steel and lined with Linatex (or equal) for maximum extended wear in abrasive environments.
- _____ 3. Blower housing shall have an inspection door for quick inspections without removing the blower housing or looking into the air exhaust opening.
- _____ 4. Blower housing shall not be an integral part of the hopper. Replacement of the blower housing must be possible without any cutting and/or welding of the housing and or hopper.
- _____ 5. The blower must not be directly exposed or open to the dust separator to preclude carry-over of material from the separator into the blower and blower housing.
- _____ 6. The (optional) single-engine system, driven by the variable speed device, shall provide all horsepower for blower speed to effectively convey the bulk of material into the debris hopper; debris types such as but not limited to trash, sand, gravel, dirt, leaves and other organics.
- _____ 7. Blower shall be a closed face turbine type, constructed of steel for optimal combination of hardness and abrasion resistance for maximum service life. An open-faced blower is not acceptable.
- _____ 8. The blower shall be mounted and supported on both sides by heavy-duty greasable bearings. Greasing of the bearings must be possible from ground level, without tilting the hopper. Only greasable bearings are capable of tolerating the blower speeds required to produce simultaneous high air flow and high vacuum levels.

PICKUP HEAD:

- _____ 1. The pickup head is a spring-supported, all steel fabricated pickup head with separated upper and lower chambers where pressurized air is blasted from the upper chamber through an elongated blast orifice, to the lower vacuum chamber.
- _____ 2. The pickup head shall not be less than 90 inches wide and 30 inches long for a

total area of 2700 square inches.

- _____ 3. The pickup head shall have a minimum of 14 inch diameter pressure hose that connects the blower outlet with the pickup head.
- _____ 4. The pickup head shall have a minimum 12 3/4 inch diameter suction hose with a quick disconnect coupling at the lower end near the pickup head. The quick disconnect enables the operator to inspect the suction hose as well as the inlet area of the pickup head without tilting the hopper.
- _____ 5. The pressure side shall be equipped with a pressure relief valve/vacuum enhancer/leaf bleeder, for optimum leaf and light debris sweeping.
- _____ 6. The front and rear debris curtains shall be removable without removing the pickup head from the unit.
- _____ 7. Sweeping paths: Pickup head only = 90 inches
One side broom and pickup head = 117 inches
Two side brooms and pickup head = 144 inches
- _____ 8. The pickup head shall be equipped with side mounted adjustable steel runners with carbide inserts with a minimum width of 1 1/8 inches for long life
- _____ 9. The pickup head shall be raised and lowered hydraulically by a rocker switch on the control panel inside the cab.

BROOMS:

- _____ 1. The right and left side broom shall be a free floating trailing arm design intended to prevent damage when sweeping and encountering a fixed obstacle.
- _____ 2. The side brooms shall be 42-inch diameter minimum, with hydraulically driven rotation.
- _____ 3. Brooms shall be pneumatically or hydraulically raised, lowered and suspended.
- _____ 4. Adjustable down pressure shall be controlled by the operator from the cab in order to maintain proper surface contact consistently during vertical broom travel.
- _____ 5. The broom hydraulic motor drive shall provide not less than 6045 in-lbs. of torque for superior digging power and speed.
- _____ 6. The side broom assemblies shall have greasable pivot pins.
- _____ 7. The side broom assemblies shall be held in the storage position by a positive means to support broom during travel.

- _____ 8. Each side broom shall be controlled from in the cab by rocker switches.
- _____ 9. When extended, brooms shall not exceed 60 inches from center of **FRONT** hub to center of broom head as measured along a line between the front and rear hubs oriented perpendicular to the front and rear axles.

Note: No exception to specification will be accepted for this item.

HOPPER:

- _____ 1. Volumetric capacity shall be approximately 8 cubic yards class hopper.
- _____ 2. Hopper shall be constructed of 10 gauge steel sides, and ¼ in. steel floor.
- _____ 3. The hopper floor angle when dumping shall be a minimum of 50°. Dumping shall be accomplished by tilting the hopper. Dump cylinder must have capacity to tilt and dump with full hopper.
- _____ 4. The hopper floor angle shall be a minimum of 10 ° to assist in easy dump off of debris.
- _____ 5. The hopper shall have an external hopper prop. No exception to this feature shall be accepted.
- _____ 6. The hopper rear door shall be hinged at the top and opened by means of a hydraulic cylinder. The hopper door shall open first prior to tilting the hopper. The hopper rear door should open at a minimum angle of 90 ° and be perpendicular to the hopper opening for maximum dumping action.
- _____ 7. Hydraulic cylinder movement shall be controlled by two hydraulic valve levers located on the right-hand side of the hopper to view discharging of debris out of the hopper during dumping for maximum safety.
- _____ 8. The rear hopper door shall have an external door prop. No exception to this feature shall be accepted.
- _____ 9. The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door.
- _____ 10. The rear door seal shall be a water resistant heavy-duty reinforced D style rubber seal for optimal sealing. Foam seals that can absorb moisture and freeze are not acceptable.
- _____ 11. Two 34½" x 43½" screens, for a total screen area 3000 square inches, of not less than 11 gauge steel shall be installed to allow air to move freely from the hopper into the centrifugal dust separator. The hopper screens shall be hinged and easily lowered for cleaning and inspection without tools or pin's removal.

DUST SEPERATOR:

- _____ 1. Dirt separation from the air stream shall be accomplished by means of a Labyrinth style dust separator that is installed at the air outlet of the hopper. The separator shall be designed so that it will not plug with debris.
- _____ 2. To allow inspection and cleaning of the separator interior, the dust separator shall have minimum of two hinged inspection doors. Both doors are self-opening when tilting the hopper.
- _____ 3. To allow automatic discharge of debris when tilting the hopper, the dust separator shall have a self-opening door made of abrasion resistant steel. Cable or other manual/mechanical means required for discharging the separator are not allowed.

SPRAY WATER SYSTEM:

- _____ 1. The water tank shall be a removable, 240 gal. total capacity. Constructed of rust-proof polyethylene.
- _____ 2. A 16 ft. 8 inch fill hose with NST coupling with strainer shall be supplied.
- _____ 3. A water level gauge shall be provided on the control console within the cab.
- _____ 4. All water lines shall be color coded for easy identification.
- _____ 5. The water filter must be accessible and cleanable from ground level without tilting the hopper. A ball valve must be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank.
- _____ 6. All water piping shall be external to the operator cab. No water lines capable of leaking or bursting shall be within the cab.
- _____ 7. Three (3) water spray nozzles are located at each side broom for optimal dust control. A pivoting bracket is provided to allow for optimum positioning of the side broom spray nozzles.
- _____ 8. Seven (7) easily removable water spray nozzles are located inside the pickup head. Water spray nozzles that spray only on the outside of the pickup head are not acceptable.
- _____ 9. Three (3) removable water spray nozzles are located at the lower portion of the suction hose for lubrication of the suction hose and to further enhance dust control.
- _____ 10. Two electric 12 volt, diaphragm type pumps will provide a capacity for 8 GPM @ 40PSI to the pickup head, the suction hose and the side brooms.

- _____ a. One water pump is dedicated to supplying water to the pickup head and the suction hose for dust control.
- _____ b. One water pump is dedicated to the side brooms for dust control.
- _____ 11. Each water pump must have two flow rates, selectable by the operator from within the cab and capable of running dry without damage.

HYDRAULIC SYSTEM:

- _____ 1. Hydraulic pump shall be a gear driven, gear style pump for maintenance free operation, having a minimum flow capacity of 22.5 GPM @ 3400 RPM. This shall be used for the sweeper brooms, hopper dump, and pickup head raise/lower system.
- _____ 2. Reservoir capacity shall be not less than 23 gallons and have an exterior sight gauge. The reservoir must be located for quick inspections without tilting the hopper.
- _____ 3. All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance.
- _____ 4. Hydraulic oil cooler shall be standard to provide adequate cooling with fresh air intake and accessible without raising the hopper. The hydraulic system shall operate below 200°F.
- _____ 5. To minimize the hazards of potential leakage, all high pressure fittings shall be O-Ring Face Seal (ORFS) type.
- _____ 6. Hydraulic system shall have 10 micron spin on filter.

PNEUMATIC SYSTEM:

- _____ 1. There shall be a PR4 protector type pressure protector for the chassis air system
- _____ 2. A separate air tank for the sweeper air components shall be provided.
- _____ 3. All pneumatic cylinders shall be interchangeable.
- _____ 4. Each cylinder shall be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.
- _____ 5. There shall be a filter with a polycarbonate bowl to filter out contaminants down to 5 microns to prevent contamination in the air system.

ELECTRICAL SYSTEM:

- _____ 1. Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse.
- _____ 2. Sweeper shall have a top beacon, four corner strobes, and a Whelen Model TACF85 traffic advisor with control head.
- _____ 3. Sweeper lighting shall include rear identification lights and rear clearance lights.
- _____ 4. Sweeper warning lights shall include hopper up, hopper door open and hopper full load.
- _____ 5. Sweeper wiring harnesses shall be color-coded and "function stamped" with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.
- _____ 6. All electrical circuits must be protected by automotive style blade fuses.
- _____ 7. All lights should be LED style.

CONTROLS:

- _____ 1. All sweeper controls shall be mounted on a stationary central console that allows for use and visibility from either right or left positions.
- _____ 2. The controls shall include sweep, spray water and lighting functions.
- _____ 3. The controls for sweeping, spray water, and lighting functions shall be rocker switches.
- _____ 4. Controls for sweep system shall include sweep/resume feature; allowing the automatic raise of side brooms and pickup head when chassis transmission gear selector is put into reverse, or with push of one button in cab.

INSTRUMENTS:

- _____ 1. If applicable, sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine, visible from both operator positions.
- _____ 2. Sweeper engine instruments shall include an auxiliary engine air intake restriction gauge for ease of maintenance.
- _____ 3. Sweeper instruments shall include diagnostic information for the sweeper engine and sweeper functional information to include water level, sweeping mode and

transport mode.

- _____ 4. Sweeper instruments shall include a "raised" hopper indicator, an "open" hopper door indicator and a "full" hopper indicator to notify the operator.

PAINT:

- _____ 1. All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint must be a minimum of 2 mils thick.
- _____ 2. Exterior color of cab and sweeper shall be factory white and the interior grey.
- _____ 3. Vehicle shall have an accent color of Grey or Black on the components and lower portions of the unit.

MANUALS:

- _____ 1. Two (2) copies of the operation manual shall be provided.
- _____ 2. A parts manual shall be provided (chassis, packer, hydraulic, electric systems).
- _____ 3. Maintenance manual, preferably in CDROM format if available.
- _____ 4. Two (2) copies of the lubrication chart.

WARRANTY:

- _____ 1. Manufacturer's warranty shall be not less than one (1) year on entire sweeper, including all parts and labor.
- _____ 2. Manufacturer's warranty shall be not less than three (3) years on chassis engine, including all parts and labor.
- _____ 3. Manufacturer's warranty shall be not less than lifetime protection against rust-through of the water tank.
- _____ 4. Documentation of all Warranty & Extended Warranties offered

SERVICE AND TRAINING:

- _____ 1. Vendors shall have a full parts and service facility within a reasonable distance from the City of Madera. State location and distance.
- _____ 2. A qualified technician shall provide complete training to City of Madera personnel at the City of Madera Public Works yard. Training shall include safety, operation,

maintenance and service.

DELIVERY:

- _____ 1. Sweeper shall be delivered F.O.B. City of Madera in operating condition.
- _____ 2. Acceptance shall be subject to the inspection and approval by the City.

QUALITY:

- _____ 1. Sweeper shall be manufactured by a company with a registered quality standard no less than ISO 9001.

OPTIONAL ITEMS:

The City of Madera may choose, at its sole discretion, to add any or all of the optional items to this purchase. Bidder shall state the amount to be added to the Bidder's Proposal, should each item be selected.

Cost

- \$_____ 1. Life Liner – hopper liner guaranteed for life of machine.
- \$_____ 2. Front spray bar
- \$_____ 3. Backup Camera
- \$_____ 4. Auxiliary hydraulic pump

3. EQUIVALENT PRODUCT

Bids will be accepted for consideration on any make or model that is equal or superior to the sweeper specified. Decisions of equivalency will be at the sole interpretation of the City. A blanket statement that equipment proposed will meet all requirements will **not** be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.

All modifications made to the standard production unit described in the sweeper manufacturer's brochures must have written chassis manufacturer approval and submitted with the bid, or the bid will be deemed "non-responsive" and rejected without further review. Bidder must be prepared to demonstrate a unit similar to the one proposed, if requested.

4. FORM OF BIDS

- A. Purchase price shall include all costs, options and delivery or freight charges. In addition to the bid page included in this RFP, proposer shall attach a detailed breakdown of costs.
- B. Price should not include any Federal Excise Taxes, if they can be identified. An exemption certificate will be provided, if necessary.

DELIVERY: Prior to delivery, merchandise shall be inspected by the dealer.

Approximate Delivery Date: _____

TITLE SHALL PASS AT POINT OF DELIVERY. FOR ITEMS DELIVERED TO CITY OF MADERA, SALES TAX IS 8.25%.

5. NOTICE TO CONTRACTOR OF SPECIAL PROVISIONS

Energy Conservation Requirements

Energy Conservation - The contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

No Obligation by the Federal Government

The Purchaser and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this contract and shall not be subject to any obligations or liabilities to the Purchaser, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.

Suspension and Debarment

1. This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.
2. The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into.
3. By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:
4. The certification in this clause is a material representation of fact relied upon by **City of Madera**. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to **City of Madera**, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

Disadvantaged Business Enterprises

This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, *Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs*. The national goal for participation of Disadvantaged Business Enterprises (DBE) is 10%. The agency's overall goal for DBE participation is 0 %. A separate contract goal **has not** been established for this procurement.

Breaches and Dispute Resolution

Disputes - Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of the City's Project Manager. This decision shall be final and conclusive unless within [ten (10)] days from the date of receipt of its copy, the Vendor mails or otherwise furnishes a written appeal to the Project Manager. In connection with any such appeal, the Vendor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the Project Manager shall be binding upon the Vendor and the Vendor shall abide by the decision.

Performance During Dispute - Unless otherwise directed by City, Vendor shall continue performance under this Contract while matters in dispute are being resolved.

Claims for Damages - Should either party to the Contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefor shall be made in writing to such other party within a reasonable time after the first observance of such injury or damage.

Remedies - Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the City and the Vendor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the State in which the City is located.

Rights and Remedies - The duties and obligations imposed by the Contract and incorporated documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the City or Vendor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

Non-Collusion Affidavit to be Executed by Bidder and Submitted with Bid

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*.)]
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

**NONLOBBYING CERTIFICATION
FOR FEDERAL-AID CONTRACTS**

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in conformance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

* * * * *

**CITY OF MADERA
 BID PROPOSAL
 8 CUBIC YARD CLEAN DIESEL REGENERATIVE AIR SWEEPER
 RFP #201819-01
 Federal Aid Project CMLNI-5157(105)**

Bidder hereby proposes to deliver to the City of Madera, 1030 South Gateway Drive, Madera, California, new equipment in accordance with the published specifications for the following prices.

MANUFACTURER _____ MODEL _____

Purchase Price		\$ _____
	Subtotal	\$ _____
	Applicable Taxes	\$ _____
	TOTAL PURCHASE PRICE	\$ _____

ADDENDA

This Proposal is submitted with respect to the changes to the contract included in addenda number/s

(Fill in addenda numbers if addenda have been received and insert, in this Proposal, any Engineer's Estimate sheets that were received as part of the addenda.)

**CITY OF MADERA
BID PROPOSAL AUTHORIZATION
8 CUBIC YARD CLEAN DIESEL REGENERATIVE AIR SWEEPER
RFP #201819-01
FEDERAL AID PROJECT CMLNI-5157(105)**

DATE _____

COMPANY NAME _____

STREET ADDRESS _____

CITY / STATE / ZIP _____

PHONE NUMBER _____

EMAIL _____

PERSON PREPARING BID _____

POSITION _____

SIGNATURE _____

(THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS PROPOSAL)

EXCEPTION TO SPECIFICATION

Bidder shall be presumed to be in agreement with the terms and conditions of the RFP unless the Bidder takes specific exception to one or more of the conditions on this form.

Bidders are cautioned that by taking an exception they may be materially deviating from the RFP specification. If a Bidder materially deviates from the RFP specification, their proposal may be rejected. A material deviation is an exception to a specification which 1. affords the Bidder taking the exception a competitive advantage over other Bidders, or 2. Gives the City something significantly different than the City requested.

Bidder Name:	
<u>Specification Description</u>	<u>Explanation of Exception</u>

By signing this form, I acknowledge that the above named Bidder accepts, without qualification, all terms and conditions stated in this RFP except those clearly outlined as exceptions above.

Signature


Title

Date

ADDENDUM NO. 1

**RFP #201819-01
Clean Diesel Regenerative Air
Sweeper**

Dated: 11/20/18



Issued by: Rosa Hernandez, Procurement Services Manager
CITY OF MADERA
Purchasing – Central Supply
1030 South Gateway Drive
Madera, CA 93637

The foregoing documents are amended in the respects as herein set forth. This addendum and the amendments herein shall become part of said documents and of any contract entered into pursuant to said documents.

Title of RFP – Replace “8 Cubic Yard Clean Diesel Regenerative Air Sweeper” to “Diesel Regenerative Air Sweeper”. Note that all references in the RFP to the previous title will adhere to the new title as amended in this Addendum.

Submission deadline has been extended from November 27, 2018 to December 11, 2018.

Deadline for Questions and suggestions has been extended from November 19, 2018 to December 3, 2018.

Section 1.0 added to Section 1. INSTRUCTIONS AND CONDITIONS as follows:

- O. An award under this RFP will not be based solely on the lowest price. Proposals will be evaluated by a committee and each proposer will be scored on a point system. If an award is made, it will go to the bidder with the highest score.

Each proposer will be scored on the following point system, with a maximum of 100 points.

Price	45 points
Delivery Date	20 points
Conformity to Specification	35 points

Section 2. A & B in it's entirety to be replaced with the following updated Specifications:

SECTION A - CHASSIS

CHASSIS 2018 or newer Model Year.

Compliance

- _____ 1. Chassis will be conventional design with a minimum 33,000 GVW rating. State chassis make, model and point of manufacture
- _____ 2. Chassis wheel base shall be configured to provide sufficient turning radius to allow efficient sweeping access to cul-de-sacs, turn lane nose-outs and other curved curbed areas. Manufacturer may be required to demonstrate turning radius capabilities.
- _____ 3. For safety, the rear of the sweeper shall be equipped with a rear panel to provide under ride protection. When dumping debris, material shall not be discharged on top of the rear panel.
- _____ 4. Two frame mounted front tow hooks shall be provided
- _____ 5. Unit to have the capacity to carry 50 gallons of onboard diesel fuel in one or two tank configurations. All tanks shall be easily accessible without raising or shifting any components. A fuel gauge, in cab, shall be supplied. Sight tube is not acceptable.
- _____ 6. Diesel emissions shall be EPA 2018, with on-board diagnostics (OBD) and have a minimum capacity of 3 U.S. gallons diesel emissions fluid

CHASSIS ENGINE:

- _____ 1. Truck engine shall be 2018 California Air Resources Board Emission Compliant, turbocharged diesel, approximately 200 HP @ 2300 RPM, 520ft-lbs. @ 1600 RPM.
- _____ 2. Truck engine shall be equipped with a single vertical or horizontal exhaust system. Exhaust shall not extend above top or sides of sweeper housing.
- _____ 3. Engine shall be equipped with block heater.
- _____ 4. Radiator fan shall be viscous drive type.

AUXILIARY ENGINE: (OPTIONAL)

- _____ 1. If equipped, auxiliary engine to be mounted on sweeper for easy access and to minimize noise levels in cab during sweeping operation.
- _____ 2. The sweeper power unit shall be a diesel fueled, water cooled, CARB tier 4 Final emissions certified, industrial engine.
- _____ 3. If equipped, auxiliary engine shall incorporate a diesel fuel system that is B20 diesel compatible.
- _____ 4. 12-volt ignition, electric starter and minimum 90 amp alternator with charge indicator gauge mounted on control console in cab.
- _____ 5. Electric linear actuator/revolution limiter for power unit throttle control.
- _____ 6. A suitable size work platform will be provided to allow safe access to auxiliary engine area if the auxiliary engine placement, chassis wheelbase, and sweeper configuration provides sufficient area to allow a work platform to be installed.
- _____ 7. Access will be accomplished from the ground level by steel steps covered with anti-skid grating and proper size grab handle to insure maximum safe entry and exit from work platform.
- _____ 8. Work platform, if installed, will have suitable safety rails to provide a safe work area.

TRANSMISSION, AXLES, WHEELS & BRAKES:

- _____ 1. An automatic transmission shall be provided. Transmission to be fitted with an external spin-on type filter
- _____ 2. Sweeper shall include a rear axle having a gear ratio properly suited for engine/chassis configuration and capable of maintaining speeds appropriate for maximum sweeping efficiency.
- _____ 3. Front axle shall be minimum 12,000 lb. and be equipped with taperleaf front suspension and shock absorbers.
- _____ 4. The rear axle shall be 21,000 lb. or greater.
- _____ 5. For safety, and to allow the emergency interchange of tires at a job site, the front and rear tires and rims shall be interchangeable.
- _____ 6. Tires shall be tubeless radial tires 14 ply 11R 22.5 "G" load rated. The rear axle shall include dual tires for load capacity; singles will not be

acceptable.

- _____ 7. Rims shall be 10-hole steel hub piloted 22.5 x 8.25
- _____ 8. Parking brake shall be spring applied rear wheel drum and shoe.
- _____ 9. Brakes shall be full air brakes S Cam with 18.7 CFM capacity compressor, with automatic slack adjusters and ABS.
- _____ 10. Air system shall include an air dryer with heater.

CAB:

- _____ 1. Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 8 feet for an SAE 98th percentile size operator.
- _____ 2. Steering shall be full power with dual operator controls.
- _____ 3. Seats shall be adjustable, high back, covered with cloth for air circulation and include 3 point seat belts. Seats shall be air ride on both sides.
- _____ 4. Sweeper shall include two (2) remote control, outside west coast type mirrors with lower 8-inch convex lens for easy viewing of the side broom during sweeping.
- _____ 5. To maximize operator visibility of the curb and sweeping gear, a 12" outside RH and LH fender mirror shall be mounted forward of the front wheels.
- _____ 6. For safety during night sweeping, switches shall be illuminated so that they can be readily identified without the use of the cab dome light.
- _____ 7. Switches shall be clearly identified by name and symbol.
- _____ 8. Cab interior environment shall be fully air-conditioned including a fresh air heater/ventilator/defroster.
- _____ 9. Cab shall have full flow through ventilation for optimal temperature control and operator comfort.
- _____ 10. Wipers shall have intermittent feature.
- _____ 11. Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console.
- _____ 12. All glass shall be tinted safety glass.

- _____ 13. Each operator position shall have adjustable sun visor.
- _____ 14. Doors shall be equipped with keyed alike locks.
- _____ 15. Door windows shall be roll up type.
- _____ 16. Side windows shall have defogger.
- _____ 17. Cab shall include two 12V power supplies
- _____ 18. Radio shall be factory AM/FM with standard speakers.
- _____ 19. Dual Electric horns shall be provided.
- _____ 20. Adjustable tilt steering wheel

INSTRUMENTS:

- _____ 1. Chassis left side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge, and volt gauge.
- _____ 2. Chassis right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge, and volt gauge.
- _____ 3. Chassis engine instruments shall include warning light and chime for low coolant level, low oil level, and high coolant temperature to warn the operator of a potential problem before any damage to the engine occurs.
- _____ 4. Console shall have left/right primary driver switch.
- _____ 5. Hydraulic functions shall be controlled by rocker switches located in the cab mounted control panel.
- _____ 6. Truck instruments shall include warning lights for battery.
- _____ 7. All console switches including transmission controls and all gauges shall be illuminated.
- _____ 8. Intake mounted air restriction indicator with graduations.

ELECTRICAL:

- _____ 1. Batteries should be located in an enclosed accessible environment for long life and ease of service.
- _____ 2. Chassis shall have maintenance free batteries rated at not less than 1850 CCA total, 12-volt.
- _____ 3. Chassis engine shall have a minimum 160 amp alternator
- _____ 4. Chassis lighting shall include sealed multi-beam halogen head-lights, stop lights, tail lights, backup lights, license plate lights, clearance lights, signal lights, illuminated gauges and instrument panel, and directional lights with hazard switch.
- _____ 5. Chassis lighting shall include gutter broom spot light on each side, and two rear mounted work lights.

OTHER CAB ACCESSORIES:

- _____ 1. Unit to include 17" Catwalk behind cab to facilitate access to auxiliary engine, if applicable.

SECTION B – SWEEPER MODULE:

SWEEPER GENERAL:

Compliance

- _____ 1. Sweeper shall be new PM-10 certified regenerative air street sweeper.
- _____ 2. The sweeper shall be equipped with a variable speed device (Single engine models only). The variable speed device uses the chassis engine to power the chassis propulsion and the sweeper components.
 - _____ a. The variable speed device shall be located between the chassis engine and the transmission for maximum efficiency.
 - _____ b. The variable speed device shall be capable of directly driving hydraulic pumps without the use of auxiliary Power Take Off's (PTO's) or belt drive systems.
 - _____ c. The variable speed device shall be a planetary gearbox design; varies the input to output ratio. The system provides variable sweep speed operation through the chassis transmission and

also directs engine powered PTO for the sweeper components.

_____ d. The variable speed device "speed" control pump shall operate directly off the chassis engine coupling in all modes - "Work Mode" or "Road Mode". This pump shall provide variable operating flow - managing the ratio of input to output - for the variable speed device. The system shall include an electronic control module which manages pump flow.

_____ e. The variable speed device shall operate directly off of the chassis engine coupling in all modes - "Work Mode" or "Road Mode". For the sweeper, the variable speed device PTO shall power a blower drive and sweeper pump through a conventional drive shaft.

_____ 3. To accommodate both easy access and sound attenuation, the front cowling shall be enclosed on both sides by two access doors, one on each side of the sweeper body. These doors provide access to serviceable items without tilting the hopper.

_____ 4. Front cowling and access doors shall use acoustical insulation to sustain minimal ambient noise levels.

BLOWER:

_____ 1. Blower shall be hydraulically or belt driven. Hydraulically driven blowers shall be directly coupled to its motor to maximize efficiency. Minimum operating speed of the fan must be at least 3,300 RPM. Belt driven blowers shall be driven by a "V" groove power belt for maximum performance and simplicity of construction, with manual tension adjustment not requiring repositioning of the engine.

_____ 2. The blower housing shall be constructed of 10-gauge steel and lined for maximum extended wear in abrasive environments.

_____ 3. Blower housing shall have an inspection door for quick inspections without removing the blower housing or looking into the air exhaust opening.

_____ 4. Blower housing shall not be an integral part of the hopper. Replacement of the blower housing must be possible without any cutting and/or welding of the housing and or hopper.

_____ 5. The blower must not be directly exposed or open to the dust separator to preclude carry-over of material from the separator into the blower and

blower housing.

- _____ 6. The (optional) single-engine system, driven by the variable speed device, shall provide all horsepower for blower speed to effectively convey the bulk of material into the debris hopper; debris types such as but not limited to trash, sand, gravel, dirt, leaves and other organics.
- _____ 7. Blower shall be a closed face turbine type, constructed of steel for optimal combination of hardness and abrasion resistance for maximum service life. An open-faced blower is not acceptable.
- _____ 8. The blower shall be mounted and supported on both sides by heavy-duty greaseable bearings. Greasing of the bearings must be possible from ground level, without tilting the hopper. Only greaseable bearings are capable of tolerating the blower speeds required to produce simultaneous high air flow and high vacuum levels.

PICKUP HEAD:

- _____ 1. The pickup head is a spring-supported, all steel fabricated pickup head with separated upper and lower chambers where pressurized air is blasted from the upper chamber through an elongated blast orifice, to the lower vacuum chamber.
- _____ 2. The pickup head shall not be less than 90 inches wide and 30 inches long for a total area of 2700 square inches.
- _____ 3. The pickup head shall have a minimum of 14-inch diameter pressure hose that connects the blower outlet with the pickup head.
- _____ 4. The pickup head shall have a minimum 12 3/4 inch diameter suction hose with a quick disconnect coupling at the lower end near the pickup head. The quick disconnect enables the operator to inspect the suction hose as well as the inlet area of the pickup head without tilting the hopper.
- _____ 5. The pressure side shall be equipped with a pressure relief valve/vacuum enhancer/leaf bleeder, for optimum leaf and light debris sweeping.
- _____ 6. The front and rear debris curtains shall be removable without removing the pickup head from the unit.
- _____ 7. Minimum sweeping paths:

Pickup head only = 87 inches

One side broom and pickup head = 117 inches

Two side brooms and pickup head = 144 inches

- _____ 8. The pickup head shall be equipped with side mounted adjustable steel runners with carbide inserts with a minimum width of 1 1/8 inches for long life
- _____ 9. The pickup head shall be raised and lowered hydraulically by a rocker switch on the control panel inside the cab.

BROOMS:

- _____ 1. The right and left side broom shall be a free floating trailing arm design intended to prevent damage when sweeping and encountering a fixed obstacle.
- _____ 2. The side brooms shall be 42-inch diameter minimum, with hydraulically driven rotation.
- _____ 3. Brooms shall be pneumatically or hydraulically raised, lowered and suspended.
- _____ 4. Adjustable, tilt, and down pressure shall be controlled by the operator from the cab in order to maintain proper surface contact consistently during vertical broom travel.
- _____ 5. The broom hydraulic motor drive shall provide not less than 6045 in-lbs. of torque for superior digging power and speed.
- _____ 6. The side broom assemblies shall have greaseable pivot pins.
- _____ 7. The side broom assemblies shall be held in the storage position by a positive means to support broom during travel.
- _____ 8. Each side broom shall be controlled from in the cab by rocker switches.
- _____ 9. When extended, brooms shall not exceed 60 inches from center of **FRONT** hub to center of broom head as measured along a line between the front and rear hubs oriented perpendicular to the front and rear axles. If compliance with this specification item is not achievable, manufacturer may be required to demonstrate units turning radius.

HOPPER:

- _____ 1. Volumetric capacity shall be at minimum 7.3 cubic yards class hopper.
- _____ 2. Hopper shall be constructed of 10-gauge steel sides, and ¼ in. steel floor.
- _____ 3. The hopper floor angle when dumping shall be a minimum of 50°. Dumping shall be accomplished by tilting the hopper. Dump cylinder must have capacity to tilt and dump with full hopper.
- _____ 4. The hopper floor angle shall be a minimum of 10 ° to assist in easy dump-off of debris.
- _____ 5. The hopper shall have an external hopper prop. No exception to this feature shall be accepted.
- _____ 6. The hopper rear door shall be hinged at the top and opened by means of a hydraulic cylinder. The hopper door shall open first prior to tilting the hopper. The hopper rear door should open at a minimum angle of 90 ° and be perpendicular to the hopper opening for maximum dumping action.
- _____ 7. Hydraulic cylinder movement shall be controlled by two hydraulic valve levers located on the right-hand side of the hopper to view discharging of debris out of the hopper during dumping for maximum safety.
- _____ 8. The rear hopper door shall have an external door prop. No exception to this feature shall be accepted.
- _____ 9. The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door.
- _____ 10. The rear door seal shall be a water resistant heavy-duty reinforced D style rubber seal for optimal sealing. Foam seals that can absorb moisture and freeze are not acceptable.
- _____ 11. Screens of not less than 11- gauge steel shall be installed to allow air to move freely from the hopper into the centrifugal dust separator. The hopper screens shall be hinged and easily lowered for cleaning and inspection without tools or pin's removal.

DUST SEPERATOR:

- _____ 1. Dirt separation from the air stream shall be accomplished by means of a Labyrinth style dust separator that is installed at the air outlet of the hopper. The separator shall be designed so that it will not plug with debris.

- _____ 2. To allow inspection and cleaning of the separator interior, the dust separator shall have minimum of two hinged inspection doors. Both doors are self-opening when tilting the hopper.
- _____ 3. To allow automatic discharge of debris when tilting the hopper, the dust separator shall have a self-opening door made of abrasion resistant steel. Cable or other manual/mechanical means required for discharging the separator are not allowed.

SPRAY WATER SYSTEM:

- _____ 1. The water tank shall be a removable, 240 gal. total capacity. Constructed of rust-proof polyethylene.
- _____ 2. A minimum 16 ft. fill hose with NST coupling with strainer shall be supplied.
- _____ 3. A water level gauge shall be provided on the control console within the cab.
- _____ 4. All water lines shall be color coded for easy identification.
- _____ 5. The water filter must be accessible and cleanable from ground level without tilting the hopper. A ball valve must be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank.
- _____ 6. All water piping shall be external to the operator cab. No water lines capable of leaking or bursting shall be within the cab.
- _____ 7. Three (3) water spray nozzles are located at each side broom for optimal dust control. A pivoting bracket is provided to allow for optimum positioning of the side broom spray nozzles.
- _____ 8. Seven (7) easily removable water spray nozzles are located inside the pickup head. Water spray nozzles that spray only on the outside of the pickup head are not acceptable.
- _____ 9. Three (3) removable water spray nozzles are located at the lower portion of the suction hose for lubrication of the suction hose and to further enhance dust control.
- _____ 10. Electric 12-volt, diaphragm type pumps will provide a capacity for 8 GPM @ 40PSI to the pickup head, the suction hose and the side brooms.
 - _____ a. One water pump is dedicated to supplying water to the pickup

head and the suction hose for dust control.

- _____ b. One water pump is dedicated to the side brooms for dust control.
- _____ 11. Each water pump must have two flow rates, selectable by the operator from within the cab and capable of running dry without damage.

HYDRAULIC SYSTEM:

- _____ 1. Hydraulic pump shall be a gear driven, gear style pump for maintenance free operation, having a minimum flow capacity of 22.5 GPM @ 3400 RPM. This shall be used for the sweeper brooms, hopper dump, and pickup head raise/lower system.
- _____ 2. Reservoir capacity shall be not less than 20 gallons and have an exterior sight gauge. The reservoir must be located for quick inspections without tilting the hopper.
- _____ 3. All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance.
- _____ 4. Hydraulic oil cooler shall be standard to provide adequate cooling with fresh air intake and accessible without raising the hopper. The hydraulic system shall operate below 200°F.
- _____ 5. To minimize the hazards of potential leakage, all high-pressure fittings shall be O-Ring Face Seal (ORFS) type.
- _____ 6. Hydraulic system shall have 10-micron spin on filter.

PNEUMATIC SYSTEM:

- _____ 1. There shall be a PR4 protector type pressure protector for the chassis air system
- _____ 2. A separate air tank for the sweeper air components shall be provided.
- _____ 3. All pneumatic cylinders shall be interchangeable.
- _____ 4. Each cylinder shall be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.
- _____ 5. There shall be a filter with a polycarbonate bowl to filter out contaminants down to 5 microns to prevent contamination in the air system.

ELECTRICAL SYSTEM:

- _____ 1. Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse.
- _____ 2. Sweeper shall have a top beacon, four corner strobes, traffic advisor with control head.
- _____ 3. Sweeper lighting shall include rear identification lights and rear clearance lights.
- _____ 4. Sweeper warning lights shall include hopper up, hopper door open and hopper full load.
- _____ 5. Sweeper wiring harnesses shall be color-coded and "function stamped" with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.
- _____ 6. All electrical circuits must be protected by automotive style blade fuses.
- _____ 7. All lights should be LED style.

CONTROLS:

- _____ 1. All sweeper controls shall be mounted on a stationary central console that allows for use and visibility from either right or left positions.
- _____ 2. The controls shall include sweep, spray water and lighting functions.
- _____ 3. The controls for sweeping, spray water, and lighting functions shall be rocker switches.
- _____ 4. Controls for sweep system shall include sweep/resume feature; allowing the automatic raise of side brooms and pickup head when chassis transmission gear selector is put into reverse, or with push of one button in cab.

INSTRUMENTS:

- _____ 1. If applicable, sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine, visible from both operator positions.

- _____ 2. Sweeper engine instruments shall include an auxiliary engine air intake restriction gauge for ease of maintenance.
- _____ 3. Sweeper instruments shall include diagnostic information for the sweeper engine and sweeper functional information to include water level, sweeping mode and transport mode.
- _____ 4. Sweeper instruments shall include a "raised" hopper indicator, an "open" hopper door indicator and a "full" hopper indicator to notify the operator.

PAINT:

- _____ 1. All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint must be a minimum of 2 mils thick.
- _____ 2. Exterior color of cab and sweeper shall be factory white and the interior grey.
- _____ 3. Vehicle shall have an accent color of Grey or Black on the components and lower portions of the unit.

MANUALS:

- _____ 1. Two (2) copies of the operation manual shall be provided.
- _____ 2. A parts manual shall be provided (chassis, packer, hydraulic, electric systems).
- _____ 3. Maintenance manual, preferably in CDROM format if available.
- _____ 4. Two (2) copies of the lubrication chart.

WARRANTY:

- _____ 1. Manufacturer's warranty shall be not less than one (1) year on entire sweeper, including all parts and labor.
- _____ 2. Manufacturer's warranty shall be not less than three (3) years on chassis engine, including all parts and labor.
- _____ 3. Manufacturer's warranty shall be not less than lifetime protection against rust-through of the water tank.
- _____ 4. Documentation of all Warranty & Extended Warranties offered

SERVICE AND TRAINING:

- _____ 1. Vendors shall have a full parts and service facility within a reasonable distance from the City of Madera. State location and distance.
- _____ 2. A qualified technician shall provide complete training to City of Madera personnel at the City of Madera Public Works yard. Training shall include safety, operation, maintenance and service.

DELIVERY:

- _____ 1. Sweeper shall be delivered F.O.B. City of Madera in operating condition.
- _____ 2. Acceptance shall be subject to the inspection and approval by the City.

QUALITY:

- _____ 1. Sweeper shall be manufactured by a company with a registered quality standard no less than ISO 9001.

OPTIONAL ITEMS:

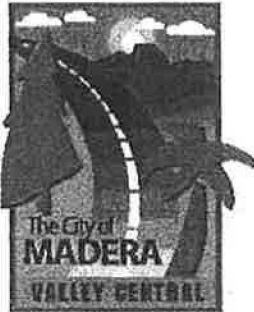
The City of Madera may choose, at its sole discretion, to add any or all of the optional items to this purchase. Bidder shall state the amount to be added to the Bidder's Proposal, should each item be selected.

Cost

- \$_____ 1. Life Liner – hopper liner guaranteed for life of machine.
- \$_____ 2. Front spray bar
- \$_____ 3. Backup Camera
- \$_____ 4. Auxiliary hydraulic pump

Purchasing – Central Supply 559/661-5463 fax.- 559/661-0760

End of Addendum No. 1.



REQUEST FOR PROPOSAL

8 CUBIC YARD CLEAN DIESEL
REGENERATIVE AIR SWEEPER

RFP # 201819-01

Federal Aid Project CMLNI-5157(105)

October 29, 2018

1. INSTRUCTIONS AND CONDITIONS

- A. No bid proposal will be considered for award unless submitted on the bid form included in this Request for Proposal (RFP). The bid must be fully complete and executed. Bidders shall send four (4) copies of the completed proposals which will include; three (3) bound and one (1) unbound copies with a copy of this RFP attached to the front of each proposal, with appropriate responses included.

Format: Proposal should be 8 ½ x 11 inches, printed two-sided on recycled paper with removable bindings, bound in a single document and organized in sections. Binding can be as simple as a staple. Original and copies may be submitted in one envelope/package.

Each bid proposal, consisting of the original and copies as directed above, must be submitted in a sealed envelope addressed to Rosa Hernandez, Procurement Services Manager, City of Madera, Purchasing Department, 1030 South Gateway Drive, Madera, California 93637, and delivered prior to the time and date specified in this document. Each sealed envelope containing a bid proposal must have, on the outside, the name of the bidder, bidder's address and the statement "DO NOT OPEN UNTIL THE TIME OF BID OPENING" and in addition, must be plainly marked on the outside as follows:

Bid: 8 CUBIC YARD CLEAN DIESEL REGENERATIVE AIR SWEEPER

RFP: 201819-01

Federal Aid Project: CMLNI-5157(105)

Filing Deadline: Tuesday, November 27, 2018 - 3:00 PM

Proposals shall be received as set forth in the advertisement. Proposals received after the scheduled time for opening will be returned to the proposer unopened. The opening of any proposal shall **NOT** be considered as acceptance of the Proposal as a responsive proposal.

- B. The Bid Documents consist of this Request for Proposal and any addenda which may have been issued. Bidder shall thoroughly examine and be familiar with all Bid Documents. Submission of a bid shall constitute bidder's acknowledgment upon which the City may rely that bidder has thoroughly examined and is familiar with the Bid Documents. Failure or neglect of bidder to receive or examine all or part of the Bid Documents shall in no way relieve the bidder from any obligations with respect to this RFP or any resultant award. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any part of the Bid Documents.
- C. Attention of bidders is especially directed to the specifications which, in addition to the bid proposal and these instructions, are the basis for evaluation and will be part of any agreement with the successful bidder. Any deviations from the specifications in this notice shall be proper reason for rejection of all of any part of the bid proposal.
- D. The City reserves the right to reject or accept any or all bids or parts thereof, and to accept or reject the alternatives individually or jointly, for any reason.
- E. The City reserves the right to consider any minor deviations from the specifications and determine the acceptance or rejection of such deviation.

Any proposal may be withdrawn at any time prior to the hour fixed for the opening, provided that a request in writing executed by the proposer or his/her duly authorized representative, for the withdrawal of such proposal is filed with Purchasing-Central Supply. The withdrawal of a proposal shall not prejudice the right of a proposer to file a new proposal prior to the time and date set for the opening. After the expiration of the time and date for receipt of proposals, a proposal may not be withdrawn or altered.

- F. The City of Madera recognizes its policy of providing equal opportunity to all qualified persons and reaffirms its commitment that there shall be no discrimination against qualified applicants, or employees on the basis of race, gender, color, national origin, religion, age, disability, sexual orientation or marital status. The City also specifically encourages interested Disadvantaged Business Enterprises to apply.
- G. The City reserves the right to seek supplementary information from any proposer at any time after official proposal opening and before the award. Such information will be limited to clarification or amplification of information asked in the original proposal.
- H. Issuance of the RFP and receipt of proposals does not commit the City to make an award. The City reserves the right to postpone the RFP process for its own convenience, to accept or reject any or all proposals received in response to this RFP, to negotiate with other than the selected company should negotiations with the selected company be terminated, or to cancel any section of this RFP.
- I. An award will be made as soon as possible after the opening of bids. Bid proposals

shall remain valid for at least sixty (60) days after the opening of bids. No bid proposal may be withdrawn after the bid opening.

- J. Contract shall be in the form of a City of Madera Purchase Order and attachments, including the Request for Proposal and response thereto which shall be a part thereof as though fully set forth therein. The Purchase Order will be very similar in content to Attachment A "Draft" Purchase Order which is provided for information purposes only and to help clarify City intent relevant to this RFP.
- K. There is no expressed or implied obligation for the City to reimburse responding firms for any expenses incurred in preparing proposals in response to this request.
- L. Bidder's Proprietary Information: Upon award, all documents provided by the successful bidder shall become public record. All documents provided by any bidders, other than the successful bidder, shall become public record in their entirety and subject to disclosure, unless said documents are retrieved by the bidder within ten (10) business days of the award. This shall also include but is not limited to documents for projects for which all proposals are rejected and projects for which an award is not made for any reason. In the event that one or more proposals are returned to the bidding parties, it is the intent of the City that such documents shall not become public records of the City unless required by the California Public Records Act or other provisions of law.
- M. The City reserves the right to modify RFP at any time. In the event it becomes necessary to modify or revise the RFP, a written amendment or addenda issued by City's Purchasing-Central Supply Division is the only method which should be relied on with respect to changes to the RFP. Bidder is responsible to contact City's Purchasing-Central Supply Division prior to submitting a bid to determine if any amendments were made to the RFP. Documents, amendments, addenda, etc. will be posted to the Purchasing page of the City's website at <http://www.cityofmadera.ca.gov/purchasing> under Bid Announcement and Results.

No prior, current, or post award verbal conversations or agreements with any officer, agent, or employee of the City shall affect or modify any terms or obligations of this RFP, or any contract resulting from this procurement.

No questions or inquiries should be directed to any individual(s) at the locations detailed in this document. All inquiries should be submitted in writing per the process described in this document.

Questions and suggestions concerning the RFP must be submitted in writing no later than 3:00 P.M. Monday, November 19, 2018. Written questions or inquiries should be e-mailed, mailed or faxed to:

Rosa Hernandez
Procurement Services Manager
City of Madera City

Purchasing-Central Supply
1030 South Gateway Drive
Madera, CA 93637

rhernandez@cityofmadera.com

FAX: (559) 661-0760

- N. Letters of Objection: Any Proposer believing that any part of the RFP, including the specifications and/or the bidding and evaluation procedures, is discriminatory against the Proposer or precludes the Proposer from being given reasonable consideration in the procurement process, must submit a letter ten (10) days prior to the scheduled filing deadline to City's Procurement Services Manager clearly stating the specific objection and the areas of concern to the Proposer and including a proposed method for resolution of such objections. Proposers are cautioned that any such objections not timely raised in the manner specified herein shall not be considered.

2. SPECIFICATIONS

INTENT:

It is the intent of these specifications to describe a conventional chassis which is sufficiently rated to transport a full load of sweeping debris at speeds up to 55 MPH. The chassis shall be equipped with dual steering and operator controls and an automatic transmission. All tires shall be the same size and have dual tires on each side of the rear axle (six-wheel configuration).

These specifications are intended to describe the type, size and quality of one (1) 8 Cubic Yard Clean Diesel Regenerative Air Sweeper which will best meet the needs of the City of Madera. Any bid received that does not contain a bid for diesel equipment will be rejected.

The unit shall be new of current manufacture. No prototype, demo, used, vacuum type, or mechanical type sweepers will be accepted.

All parts not specifically mentioned which are necessary to provide a complete street sweeper shall be included in the bid and shall conform in strength, quality of materials, and workmanship to what is normally provided to the trade in general.

The Owner reserves the right to consider "or equal" components that are substantially equal or better in every respect to that so indicated or specified in the sweeper specifications. Decisions of or equal or equivalency will be at the sole interpretation of the City of Madera.

TERMS:

All equipment furnished under this contract shall be new, unused, and the same as the

manufacturer's current production model. Accessories not specifically mentioned herein, but necessary to furnish a complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. The equipment furnished shall conform to all ANSI Safety Standards. Extra Heavy Duty (E.H.D.) as applied in this bid is interpreted to mean that the item to which it applies shall exceed the usual quality, capacity, strength and/or durability of standard production items as required in street sweeper service.

The City reserves the right to reject any or all proposals or portions thereof. The right is also reserved to waive any minor irregularities in the RFP. The City will Award to the lowest responsible Bidder whose proposal is the most advantageous to the City from the standpoint of suitability to purpose, quality, service, previous experience, price, date of delivery, and to accept the bid that is in the best interest of the City.

INFORMATION FOR BIDDERS:

All equipment must be PM-10 certified. All equipment must be legal to use on Federal and State Highways, must conform in all respects to the State of California Industrial Safety Orders, the Motor Vehicle Code, California Highway Patrol Regulations and must meet all Environmental Protection Agency Standards and Regulations.

Completed unit to be delivered to the City of Madera, City Yard, 1030 South Gateway Drive, Madera, California, 93637.

Prices quoted shall exclude all Federal Excise Tax.

Prices quoted shall include applicable State tax.

Bids must be submitted on the forms supplied by the City of Madera and include all applicable taxes and charges. It is required that the manufacturer's complete measurements and specifications be submitted and made a part of the bid.

Supplier shall keep records of parts used in the manufacture of the specified equipment and shall provide two copies to the City, of any improvement or modification that may improve the specified equipment.

Minimum requirements are detailed in these specifications. All dimensions, sizes, dates, and expressions of quality are minimum specifications, unless otherwise stated.

Bidders must indicate compliance for each item throughout the bid by writing "YES" or "NO". Failure to do so may be cause to reject the bid. All "NO" answers must be fully explained on the Exception to Specification Form and be attached to and submitted with bid. Failure to explain "NO" answers may be cause to reject bid.

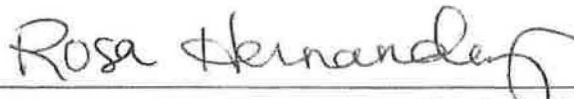
SECTION A - CHASSIS

CHASSIS (2018 or newer Model Year Freightliner M2 (Dual) OR EQUAL):

ADDENDUM NO. 1

**RFP #201819-01
Clean Diesel Regenerative Air
Sweeper**

Dated: 11/20/18



Issued by: Rosa Hernandez, Procurement Services Manager
CITY OF MADERA
Purchasing – Central Supply
1030 South Gateway Drive
Madera, CA 93637

The foregoing documents are amended in the respects as herein set forth. This addendum and the amendments herein shall become part of said documents and of any contract entered into pursuant to said documents.

Title of RFP – Replace “8 Cubic Yard Clean Diesel Regenerative Air Sweeper” to “Diesel Regenerative Air Sweeper”. Note that all references in the RFP to the previous title will adhere to the new title as amended in this Addendum.

Submission deadline has been extended from November 27, 2018 to December 11, 2018.

Deadline for Questions and suggestions has been extended from November 19, 2018 to December 3, 2018.

Section 1.0 added to Section 1. INSTRUCTIONS AND CONDITIONS as follows:

- O. An award under this RFP will not be based solely on the lowest price. Proposals will be evaluated by a committee and each proposer will be scored on a point system. If an award is made, it will go to the bidder with the highest score.

Each proposer will be scored on the following point system, with a maximum of 100 points.

Price	45 points
Delivery Date	20 points
Conformity to Specification	35 points

Section 2. A & B in it's entirety to be replaced with the following updated Specifications:

SECTION A - CHASSIS

CHASSIS 2018 or newer Model Year.

Compliance

- Yes 1. Chassis will be conventional design with a minimum 33,000 GVW rating. State chassis make, model and point of manufacture
Freightliner Model M2, manufactured in Charlotte, NC
- Yes 2. Chassis wheel base shall be configured to provide sufficient turning radius to allow efficient sweeping access to cul-de-sacs, turn lane nose-outs and other curved curbed areas. Manufacturer may be required to demonstrate turning radius capabilities.
- Yes 3. For safety, the rear of the sweeper shall be equipped with a rear panel to provide under ride protection. When dumping debris, material shall not be discharged on top of the rear panel.
- Yes 4. Two frame mounted front tow hooks shall be provided
- Yes 5. Unit to have the capacity to carry 50 gallons of onboard diesel fuel in one or two tank configurations. All tanks shall be easily accessible without raising or shifting any components. A fuel gauge, in cab, shall be supplied. Sight tube is not acceptable.
- Yes 6. Diesel emissions shall be EPA 2018, with on-board diagnostics (OBD) and have a minimum capacity of 3 U.S. gallons diesel emissions fluid

CHASSIS ENGINE:

- Yes 1. Truck engine shall be 2018 California Air Resources Board Emission Compliant, turbocharged diesel, approximately 200 HP @ 2300 RPM, 520ft-lbs. @ 1600 RPM.
- Yes 2. Truck engine shall be equipped with a single vertical or horizontal exhaust system. Exhaust shall not extend above top or sides of sweeper housing.
- Yes 3. Engine shall be equipped with block heater.
- Yes 4. Radiator fan shall be viscous drive type.

AUXILIARY ENGINE: (OPTIONAL)

- Yes 1. If equipped, auxiliary engine to be mounted on sweeper for easy access and to minimize noise levels in cab during sweeping operation.
- Yes 2. The sweeper power unit shall be a diesel fueled, water cooled, CARB tier 4 Final emissions certified, industrial engine.
- Yes 3. If equipped, auxiliary engine shall incorporate a diesel fuel system that is B20 diesel compatible.
- Yes 4. 12-volt ignition, electric starter and minimum 90 amp alternator with charge indicator gauge mounted on control console in cab.
- Yes 5. Electric linear actuator/revolution limiter for power unit throttle control.
- Yes 6. A suitable size work platform will be provided to allow safe access to auxiliary engine area if the auxiliary engine placement, chassis wheelbase, and sweeper configuration provides sufficient area to allow a work platform to be installed.
- Yes 7. Access will be accomplished from the ground level by steel steps covered with anti-skid grating and proper size grab handle to insure maximum safe entry and exit from work platform.
- Yes 8. Work platform, if installed, will have suitable safety rails to provide a safe work area.

TRANSMISSION, AXLES, WHEELS & BRAKES:

- Yes 1. An automatic transmission shall be provided. Transmission to be fitted with an external spin-on type filter
- Yes 2. Sweeper shall include a rear axle having a gear ratio properly suited for engine/chassis configuration and capable of maintaining speeds appropriate for maximum sweeping efficiency.
- Yes 3. Front axle shall be minimum 12,000 lb. and be equipped with taperleaf front suspension and shock absorbers.
- Yes 4. The rear axle shall be 21,000 lb. or greater.
- Yes 5. For safety, and to allow the emergency interchange of tires at a job site, the front and rear tires and rims shall be interchangeable.
- Yes 6. Tires shall be tubeless radial tires 14 ply 11R 22.5 "G" load rated. The rear axle shall include dual tires for load capacity; singles will not be

acceptable.

- Yes 7. Rims shall be 10-hole steel hub piloted 22.5 x 8.25
- Yes 8. Parking brake shall be spring applied rear wheel drum and shoe.
- Yes 9. Brakes shall be full air brakes S Cam with 18.7 CFM capacity compressor, with automatic slack adjusters and ABS.
- Yes 10. Air system shall include an air dryer with heater.

CAB:

- Yes 1. Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 8 feet for an SAE 98th percentile size operator.
- Yes 2. Steering shall be full power with dual operator controls.
- Yes 3. Seats shall be adjustable, high back, covered with cloth for air circulation and include 3 point seat belts. Seats shall be air ride on both sides.
- Yes 4. Sweeper shall include two (2) remote control, outside west coast type mirrors with lower 8-inch convex lens for easy viewing of the side broom during sweeping.
- Yes 5. To maximize operator visibility of the curb and sweeping gear, a 12" outside RH and LH fender mirror shall be mounted forward of the front wheels.
- Yes 6. For safety during night sweeping, switches shall be illuminated so that they can be readily identified without the use of the cab dome light.
- Yes 7. Switches shall be clearly identified by name and symbol.
- Yes 8. Cab interior environment shall be fully air-conditioned including a fresh air heater/ventilator/defroster.
- Yes 9. Cab shall have full flow through ventilation for optimal temperature control and operator comfort.
- Yes 10. Wipers shall have intermittent feature.
- Yes 11. Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console.
- Yes 12. All glass shall be tinted safety glass.

- Yes 13. Each operator position shall have adjustable sun visor.
- Yes 14. Doors shall be equipped with keyed alike locks.
- Yes 15. Door windows shall be roll up type.
- Yes 16. Side windows shall have defogger.
- Yes 17. Cab shall include two 12V power supplies
- Yes 18. Radio shall be factory AM/FM with standard speakers.
- Yes 19. Dual Electric horns shall be provided.
- Yes 20. Adjustable tilt steering wheel

INSTRUMENTS:

- Yes 1. Chassis left side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge, and volt gauge.
- Yes 2. Chassis right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge, and volt gauge.
- Yes 3. Chassis engine instruments shall include warning light and chime for low coolant level, low oil level, and high coolant temperature to warn the operator of a potential problem before any damage to the engine occurs.
- Yes 4. Console shall have left/right primary driver switch.
- Yes 5. Hydraulic functions shall be controlled by rocker switches located in the cab mounted control panel.
- Yes 6. Truck instruments shall include warning lights for battery.
- Yes 7. All console switches including transmission controls and all gauges shall be illuminated.
- Yes 8. Intake mounted air restriction indicator with graduations.

ELECTRICAL:

- Yes 1. Batteries should be located in an enclosed accessible environment for long life and ease of service.
- Yes 2. Chassis shall have maintenance free batteries rated at not less than 1850 CCA total, 12-volt.
- Yes 3. Chassis engine shall have a minimum 160 amp alternator
- Yes 4. Chassis lighting shall include sealed multi-beam halogen head-lights, stop lights, tail lights, backup lights, license plate lights, clearance lights, signal lights, illuminated gauges and instrument panel, and directional lights with hazard switch.
- Yes 5. Chassis lighting shall include gutter broom spot light on each side, and two rear mounted work lights.

OTHER CAB ACCESSORIES:

- No 1. Unit to include 17" Catwalk behind cab to facilitate access to auxiliary engine, if applicable.

SECTION B – SWEEPER MODULE:

SWEEPER GENERAL:

Compliance

- Yes 1. Sweeper shall be new PM-10 certified regenerative air street sweeper.
- Yes 2. The sweeper shall be equipped with a variable speed device (Single engine models only). The variable speed device uses the chassis engine to power the chassis propulsion and the sweeper components.
 - N/A a. The variable speed device shall be located between the chassis engine and the transmission for maximum efficiency.
 - N/A b. The variable speed device shall be capable of directly driving hydraulic pumps without the use of auxiliary Power Take Off's (PTO's) or belt drive systems.
 - N/A c. The variable speed device shall be a planetary gearbox design; varies the input to output ratio. The system provides variable sweep speed operation through the chassis transmission and

also directs engine powered PTO for the sweeper components.

N/A

- d. The variable speed device "speed" control pump shall operate directly off the chassis engine coupling in all modes - "Work Mode" or "Road Mode". This pump shall provide variable operating flow - managing the ratio of input to output - for the variable speed device. The system shall include an electronic control module which manages pump flow.

N/A

- e. The variable speed device shall operate directly off of the chassis engine coupling in all modes - "Work Mode" or "Road Mode". For the sweeper, the variable speed device PTO shall power a blower drive and sweeper pump through a conventional drive shaft.

No

3. To accommodate both easy access and sound attenuation, the front cowling shall be enclosed on both sides by two access doors, one on each side of the sweeper body. These doors provide access to serviceable items without tilting the hopper.

Yes

4. Front cowling and access doors shall use acoustical insulation to sustain minimal ambient noise levels.

BLOWER:

No

1. Blower shall be hydraulically or belt driven. Hydraulically driven blowers shall be directly coupled to its motor to maximize efficiency. Minimum operating speed of the fan must be at least 3,300 RPM. Belt driven blowers shall be driven by a "V" groove power belt for maximum performance and simplicity of construction, with manual tension adjustment not requiring repositioning of the engine.

Yes

2. The blower housing shall be constructed of 10-gauge steel and lined for maximum extended wear in abrasive environments.

Yes

3. Blower housing shall have an inspection door for quick inspections without removing the blower housing or looking into the air exhaust opening.

Yes

4. Blower housing shall not be an integral part of the hopper. Replacement of the blower housing must be possible without any cutting and/or welding of the housing and or hopper.

No

5. The blower must not be directly exposed or open to the dust separator to preclude carry-over of material from the separator into the blower and

blower housing.

- N/R 6. The (optional) single-engine system, driven by the variable speed device, shall provide all horsepower for blower speed to effectively convey the bulk of material into the debris hopper; debris types such as but not limited to trash, sand, gravel, dirt, leaves and other organics.
- Yes 7. Blower shall be a closed face turbine type, constructed of steel for optimal combination of hardness and abrasion resistance for maximum service life. An open-faced blower is not acceptable.
- Yes 8. The blower shall be mounted and supported on both sides by heavy-duty greaseable bearings. Greasing of the bearings must be possible from ground level, without tilting the hopper. Only greaseable bearings are capable of tolerating the blower speeds required to produce simultaneous high air flow and high vacuum levels.

PICKUP HEAD:

- Yes 1. The pickup head is a spring-supported, all steel fabricated pickup head with separated upper and lower chambers where pressurized air is blasted from the upper chamber through an elongated blast orifice, to the lower vacuum chamber.
- Yes 2. The pickup head shall not be less than 90 inches wide and 30 inches long for a total area of 2700 square inches.
- Yes 3. The pickup head shall have a minimum of 14-inch diameter pressure hose that connects the blower outlet with the pickup head.
- Yes 4. The pickup head shall have a minimum 12 3/4 inch diameter suction hose with a quick disconnect coupling at the lower end near the pickup head. The quick disconnect enables the operator to inspect the suction hose as well as the inlet area of the pickup head without tilting the hopper.
- Yes 5. The pressure side shall be equipped with a pressure relief valve/vacuum enhancer/leaf bleeder, for optimum leaf and light debris sweeping.
- Yes 6. The front and rear debris curtains shall be removable without removing the pickup head from the unit.
- Yes 7. Minimum sweeping paths:

Pickup head only = 87 inches

One side broom and pickup head = 117 inches

Two side brooms and pickup head = 144 inches

- Yes 8. The pickup head shall be equipped with side mounted adjustable steel runners with carbide inserts with a minimum width of 1 1/8 inches for long life
- Yes 9. The pickup head shall be raised and lowered hydraulically by a rocker switch on the control panel inside the cab.

BROOMS:

- Yes 1. The right and left side broom shall be a free floating trailing arm design intended to prevent damage when sweeping and encountering a fixed obstacle.
- Yes 2. The side brooms shall be 42-inch diameter minimum, with hydraulically driven rotation.
- Yes 3. Brooms shall be pneumatically or hydraulically raised, lowered and suspended.
- Yes 4. Adjustable, tilt, and down pressure shall be controlled by the operator from the cab in order to maintain proper surface contact consistently during vertical broom travel.
- Yes 5. The broom hydraulic motor drive shall provide not less than 6045 in-lbs. of torque for superior digging power and speed.
- Yes 6. The side broom assemblies shall have greaseable pivot pins.
- Yes 7. The side broom assemblies shall be held in the storage position by a positive means to support broom during travel.
- Yes 8. Each side broom shall be controlled from in the cab by rocker switches.
- No 9. When extended, brooms shall not exceed 60 inches from center of **FRONT** hub to center of broom head as measured along a line between the front and rear hubs oriented perpendicular to the front and rear axles. If compliance with this specification item is not achievable, manufacturer may be required to demonstrate units turning radius.

HOPPER:

- Yes 1. Volumetric capacity shall be at minimum 7.3 cubic yards class hopper.
- Yes 2. Hopper shall be constructed of 10-gauge steel sides, and ¼ in. steel floor.
- Yes 3. The hopper floor angle when dumping shall be a minimum of 50°. Dumping shall be accomplished by tilting the hopper. Dump cylinder must have capacity to tilt and dump with full hopper.
- Yes 4. The hopper floor angle shall be a minimum of 10 ° to assist in easy dump-off of debris.
- Yes 5. The hopper shall have an external hopper prop. No exception to this feature shall be accepted.
- Yes 6. The hopper rear door shall be hinged at the top and opened by means of a hydraulic cylinder. The hopper door shall open first prior to tilting the hopper. The hopper rear door should open at a minimum angle of 90 ° and be perpendicular to the hopper opening for maximum dumping action.
- Yes 7. Hydraulic cylinder movement shall be controlled by two hydraulic valve levers located on the right-hand side of the hopper to view discharging of debris out of the hopper during dumping for maximum safety.
- Yes 8. The rear hopper door shall have an external door prop. No exception to this feature shall be accepted.
- Yes 9. The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door.
- Yes 10. The rear door seal shall be a water resistant heavy-duty reinforced D style rubber seal for optimal sealing. Foam seals that can absorb moisture and freeze are not acceptable.
- Yes 11. Screens of not less than 11- gauge steel shall be installed to allow air to move freely from the hopper into the centrifugal dust separator. The hopper screens shall be hinged and easily lowered for cleaning and inspection without tools or pin's removal.

DUST SEPERATOR:

- Yes 1. Dirt separation from the air stream shall be accomplished by means of a Labyrinth style dust separator that is installed at the air outlet of the hopper. The separator shall be designed so that it will not plug with debris.

Yes 2. To allow inspection and cleaning of the separator interior, the dust separator shall have minimum of two hinged inspection doors. Both doors are self-opening when tilting the hopper.

Yes 3. To allow automatic discharge of debris when tilting the hopper, the dust separator shall have a self-opening door made of abrasion resistant steel. Cable or other manual/mechanical means required for discharging the separator are not allowed.

SPRAY WATER SYSTEM:

Yes 1. The water tank shall be a removable, 240 gal. total capacity. Constructed of rust-proof polyethylene.

Yes 2. A minimum 16 ft. fill hose with NST coupling with strainer shall be supplied.

Yes 3. A water level gauge shall be provided on the control console within the cab.

Yes 4. All water lines shall be color coded for easy identification.

Yes 5. The water filter must be accessible and cleanable from ground level without tilting the hopper. A ball valve must be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank.

Yes 6. All water piping shall be external to the operator cab. No water lines capable of leaking or bursting shall be within the cab.

Yes 7. Three (3) water spray nozzles are located at each side broom for optimal dust control. A pivoting bracket is provided to allow for optimum positioning of the side broom spray nozzles.

Yes 8. Seven (7) easily removable water spray nozzles are located inside the pickup head. Water spray nozzles that spray only on the outside of the pickup head are not acceptable.

Yes 9. Three (3) removable water spray nozzles are located at the lower portion of the suction hose for lubrication of the suction hose and to further enhance dust control.

Yes 10. Electric 12-volt, diaphragm type pumps will provide a capacity for 8 GPM @ 40PSI to the pickup head, the suction hose and the side brooms.

Yes a. One water pump is dedicated to supplying water to the pickup

head and the suction hose for dust control.

Yes b. One water pump is dedicated to the side brooms for dust control.

No 11. Each water pump must have two flow rates, selectable by the operator from within the cab and capable of running dry without damage.

HYDRAULIC SYSTEM:

Yes 1. Hydraulic pump shall be a gear driven, gear style pump for maintenance free operation, having a minimum flow capacity of 22.5 GPM @ 3400 RPM. This shall be used for the sweeper brooms, hopper dump, and pickup head raise/lower system.

Yes 2. Reservoir capacity shall be not less than 20 gallons and have an exterior sight gauge. The reservoir must be located for quick inspections without tilting the hopper.

Yes 3. All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance.

Yes 4. Hydraulic oil cooler shall be standard to provide adequate cooling with fresh air intake and accessible without raising the hopper. The hydraulic system shall operate below 200°F.

Yes 5. To minimize the hazards of potential leakage, all high-pressure fittings shall be O-Ring Face Seal (ORFS) type.

Yes 6. Hydraulic system shall have 10-micron spin on filter.

PNEUMATIC SYSTEM:

Yes 1. There shall be a PR4 protector type pressure protector for the chassis air system

No 2. A separate air tank for the sweeper air components shall be provided.

Yes 3. All pneumatic cylinders shall be interchangeable.

Yes 4. Each cylinder shall be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.

Yes 5. There shall be a filter with a polycarbonate bowl to filter out contaminants down to 5 microns to prevent contamination in the air system.

ELECTRICAL SYSTEM:

- Yes 1. Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse.
- Yes 2. Sweeper shall have a top beacon, four corner strobes, traffic advisor with control head.
- Yes 3. Sweeper lighting shall include rear identification lights and rear clearance lights.
- Yes 4. Sweeper warning lights shall include hopper up, hopper door open and hopper full load.
- Yes 5. Sweeper wiring harnesses shall be color-coded and "function stamped" with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.
- Yes 6. All electrical circuits must be protected by automotive style blade fuses.
- Yes 7. All lights should be LED style.

CONTROLS:

- Yes 1. All sweeper controls shall be mounted on a stationary central console that allows for use and visibility from either right or left positions.
- Yes 2. The controls shall include sweep, spray water and lighting functions.
- Yes 3. The controls for sweeping, spray water, and lighting functions shall be rocker switches.
- Yes 4. Controls for sweep system shall include sweep/resume feature; allowing the automatic raise of side brooms and pickup head when chassis transmission gear selector is put into reverse, or with push of one button in cab.

INSTRUMENTS:

- Yes 1. If applicable, sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine, visible from both operator positions.

- Yes 2. Sweeper engine instruments shall include an auxiliary engine air intake restriction gauge for ease of maintenance.
- Yes 3. Sweeper instruments shall include diagnostic information for the sweeper engine and sweeper functional information to include water level, sweeping mode and transport mode.
- Yes 4. Sweeper instruments shall include a "raised" hopper indicator, an "open" hopper door indicator and a "full" hopper indicator to notify the operator.

PAINT:

- No 1. All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint must be a minimum of 2 mils thick.
- Yes 2. Exterior color of cab and sweeper shall be factory white and the interior grey.
- Yes 3. Vehicle shall have an accent color of Grey or Black on the components and lower portions of the unit.

MANUALS:

- Yes 1. Two (2) copies of the operation manual shall be provided.
- Yes 2. A parts manual shall be provided (chassis, packer, hydraulic, electric systems).
- Yes 3. Maintenance manual, preferably in CDROM format if available.
- Yes 4. Two (2) copies of the lubrication chart.

WARRANTY:

- Yes 1. Manufacturer's warranty shall be not less than one (1) year on entire sweeper, including all parts and labor.
- Yes 2. Manufacturer's warranty shall be not less than three (3) years on chassis engine, including all parts and labor.
- Yes 3. Manufacturer's warranty shall be not less than lifetime protection against rust-through of the water tank.
- Yes 4. Documentation of all Warranty & Extended Warranties offered .

SERVICE AND TRAINING:

- Yes 1. Vendors shall have a full parts and service facility within a reasonable distance from the City of Madera. State location and distance.
- Yes 2. A qualified technician shall provide complete training to City of Madera personnel at the City of Madera Public Works yard. Training shall include safety, operation, maintenance and service.

DELIVERY:

- Yes 1. Sweeper shall be delivered F.O.B. City of Madera in operating condition.
- Yes 2. Acceptance shall be subject to the inspection and approval by the City.

QUALITY:

- Yes 1. Sweeper shall be manufactured by a company with a registered quality standard no less than ISO 9001.

OPTIONAL ITEMS:

The City of Madera may choose, at its sole discretion, to add any or all of the optional items to this purchase. Bidder shall state the amount to be added to the Bidder's Proposal, should each item be selected.

Cost

- \$6,455.00 1. Life Liner – hopper liner guaranteed for life of machine.
Stainless Steel Hopper with Lifetime Warranty will be provided
- \$695.00 2. Front spray bar
- \$Included 3. Backup Camera
- \$Included 4. Auxiliary hydraulic pump

Purchasing – Central Supply 559/661-5463 fax.- 559/661-0760

End of Addendum No. 1.

maintenance and service.

DELIVERY:

- Yes 1. Sweeper shall be delivered F.O.B. City of Madera in operating condition.
- Yes 2. Acceptance shall be subject to the inspection and approval by the City.

QUALITY:

- Yes 1. Sweeper shall be manufactured by a company with a registered quality standard no less than ISO 9001.

OPTIONAL ITEMS:

The City of Madera may choose, at its sole discretion, to add any or all of the optional items to this purchase. Bidder shall state the amount to be added to the Bidder's Proposal, should each item be selected.

- | Cost | |
|--------------------|--|
| <u>\$ 6,455.00</u> | 1. Life Liner – hopper liner guaranteed for life of machine. High Strength Stainless Steel Hopper Will be provided . |
| <u>\$ 695.00</u> | 2. Front spray bar |
| <u>\$ Included</u> | 3. Backup Camera |
| <u>\$ Included</u> | 4. Auxiliary hydraulic pump |

3. EQUIVALENT PRODUCT

Bids will be accepted for consideration on any make or model that is equal or superior to the sweeper specified. Decisions of equivalency will be at the sole interpretation of the City. A blanket statement that equipment proposed will meet all requirements will **not** be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.

All modifications made to the standard production unit described in the sweeper manufacturer's brochures must have written chassis manufacturer approval and submitted with the bid, or the bid will be deemed "non-responsive" and rejected without further review. Bidder must be prepared to demonstrate a unit similar to the one proposed, if requested.

4. FORM OF BIDS

- A. Purchase price shall include all costs, options and delivery or freight charges. In addition to the bid page included in this RFP, proposer shall attach a detailed breakdown of costs.
- B. Price should not include any Federal Excise Taxes, if they can be identified. An exemption certificate will be provided, if necessary.

DELIVERY: Prior to delivery, merchandise shall be inspected by the dealer.

Approximate Delivery Date: 45-90 Days A.R.O.

TITLE SHALL PASS AT POINT OF DELIVERY. FOR ITEMS DELIVERED TO CITY OF MADERA, SALES TAX IS 8.25%.

5. NOTICE TO CONTRACTOR OF SPECIAL PROVISIONS

Energy Conservation Requirements

Energy Conservation - The contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan Issued in compliance with the Energy Policy and Conservation Act.

No Obligation by the Federal Government

The Purchaser and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this contract and shall not be subject to any obligations or liabilities to the Purchaser, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.

Suspension and Debarment

1. This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.
2. The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into.
3. By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:
4. The certification in this clause is a material representation of fact relied upon by **City of Madera**. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to **City of Madera**, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

Disadvantaged Business Enterprises

This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, *Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs*. The national goal for participation of Disadvantaged Business Enterprises (DBE) is 10%. The agency's overall goal for DBE participation is 0 %. A separate contract goal has not been established for this procurement.

Breaches and Dispute Resolution

Disputes - Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of the City's Project Manager. This decision shall be final and conclusive unless within [ten (10)] days from the date of receipt of its copy, the Vendor mails or otherwise furnishes a written appeal to the Project Manager. In connection with any such appeal, the Vendor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the Project Manager shall be binding upon the Vendor and the Vendor shall abide by the decision.

Performance During Dispute - Unless otherwise directed by City, Vendor shall continue performance under this Contract while matters in dispute are being resolved.

Claims for Damages - Should either party to the Contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefor shall be made in writing to such other party within a reasonable time after the first observance of such injury or damage.

Remedies - Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the City and the Vendor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the State in which the City is located.

Rights and Remedies - The duties and obligations imposed by the Contract and incorporated documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the City or Vendor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

Non-Collusion Affidavit to be Executed by Bidder and Submitted with Bid

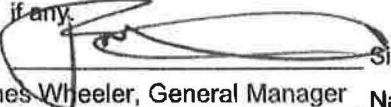
The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*.)]
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, Municipal Maintenance Equipment, Inc, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.



Signature of Contractor's Authorized Official

James Wheeler, General Manager

Name and Title of Contractor's Authorized Official

12-3-18

Date

**NONLOBBYING CERTIFICATION
FOR FEDERAL-AID CONTRACTS**

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in conformance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

* * * * *

**CITY OF MADERA
 BID PROPOSAL
 8 CUBIC YARD CLEAN DIESEL REGENERATIVE AIR SWEEPER
 RFP #201819-01
 Federal Aid Project CMLNI-5157(105)**

Bidder hereby proposes to deliver to the City of Madera, 1030 South Gateway Drive, Madera, California, new equipment in accordance with the published specifications for the following prices.

MANUFACTURER Schwarze / Freightliner MODEL A7 Tornado / M2

Purchase Price		\$ <u>218,304.60</u>
	Subtotal	\$ <u>218,304.60</u>
	Applicable Taxes	\$ <u>18,010.13</u>
	8.25% Sales Tax	10.50
	CA Tire Fee	
	TOTAL PURCHASE PRICE	\$ <u>236,325.23</u>

ADDENDA

This Proposal is submitted with respect to the changes to the contract included in addenda number/s

Addendum #1

(Fill in addenda numbers if addenda have been received and insert, in this Proposal, any Engineer's Estimate sheets that were received as part of the addenda.)

**CITY OF MADERA
BID PROPOSAL AUTHORIZATION
8 CUBIC YARD CLEAN DIESEL REGENERATIVE AIR SWEEPER
RFP #201819-01
FEDERAL AID PROJECT CMLNI-5157(105)**

DATE 12-3-2018

COMPANY NAME Municipal Maintenance Equipment, Inc.

STREET ADDRESS 4634 Mayhew Road


CITY / STATE / ZIP Sacramento, CA 95827

PHONE NUMBER 916-922-1101

EMAIL jwheeler@source-mme.com

PERSON PREPARING BID James Wheeler

POSITION General Manager

SIGNATURE 

(THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS PROPOSAL)

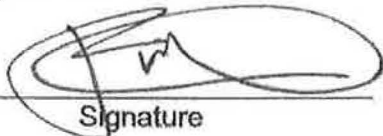
EXCEPTION TO SPECIFICATION

Bidder shall be presumed to be in agreement with the terms and conditions of the RFP unless the Bidder takes specific exception to one or more of the conditions on this form.

Bidders are cautioned that by taking an exception they may be materially deviating from the RFP specification. If a Bidder materially deviates from the RFP specification, their proposal may be rejected. A material deviation is an exception to a specification which 1. affords the Bidder taking the exception a competitive advantage over other Bidders, or 2. Gives the City something significantly different than the City requested.

Bidder Name:	
<u>Specification Description</u>	<u>Explanation of Exception</u>
Page 6 - Other Cab Accessories: include 17" catwalk	17" Catwalk not available on the 164" WB required by specified Maximum 176" Wheelbase. If optional 184" Wheelbase would be allowed the Catwalk would be supplied at no additional cost.
Page 7 - Sweeper General ,Item 3: Access doors for Serviceing without tilting the Hopper.	Not available by design.
Page 7 - Blower, Item 1: Manual Tension not requiring repositioning of the engine	Tension on Belt does require manual adjustment repositioning the Auxiliary Engine.
Page 7 - Blower, Item 5: Blower not directly open to Centrifual Sperator	Not required by design.
Page 9 - Brooms, Item 9: Not to exceed 60"	63" Distance will be supplied
Page 12 - Water System, Item 11	Not required by design
Page 12 - Pneumatic System , Item 2	Not required by design
Page 14 - Paint, Item 1	Powder Coat not available at this time

By signing this form, I acknowledge that the above named Bidder accepts, without qualification, all terms and conditions stated in this RFP except those clearly outlined as exceptions above.


General Manager
12-3-18

Signature
Title
Date

Detailed breakdown of costs:

Schwarze A7 Tornado Street Sweeper Body	\$138,939.60
Freightliner M2 Cab and Chassis	<u>\$ 79,365.00</u>
Sub-Total	\$218,304.60
8.25% Sales Tax	18,010.13
California Tire Fee	<u>10.50</u>
Total Purchase Price	\$236,325.23

Sweeper Extended Warranties*:

Standard – 1 Year or 1200 Hours	Standard, included in bid price
Silver – 2 Years or 2400 Hours, add	\$2,035.00
Gold – 3 Years or 3600 Hours, add	\$5,049.00
Platinum – 4 Years or 4800 Hours, add	\$7,315.00
Diamond – 5 Years or 6000 Hours, add	\$9,295.00

*Chassis and auxiliary power are both separate and need to be purchased through their local dealers/distributors. Please let us know what you would like covered on an extended warranty and we will be happy to ask Freightliner and/or John Deere for pricing.

S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-10M	M2 PRL-10M (EFF:02/11/15)		
Data Version			
DRL-001	SPECPRO21 DATA RELEASE VER 001		
Interior Convenience/Driver Retention Package			
055-998	NO INTERIOR CONVENIENCE PACKAGE		
Vehicle Configuration			
001-172	M2 106 CONVENTIONAL CHASSIS	5,759	3,503
004-219	2019 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-012	PREP FOR LH PRIMARY STEERING LOCATION AND CUSTOMER SUPPLIED RH SIT-DOWN SECONDARY STEERING LOCATION WITH DUAL INSTRUMENT CLUSTER		
General Service			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-011	FIXED LOAD COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-091	MEDIUM TRUCK WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 21000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 33000.0 lbs		
Truck Service			
AA3-022	STREET SWEEPER BODY		
A88-99D	EXPECTED TRUCK BODY LENGTH : 11.75 ft		
AF3-197	SCHWARZE INDUSTRIES		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		
Engine			
101-21N	CUM B6.7 200 HP @ 2400 RPM, 2600 GOV, 520 LB/FT @ 1600 RPM		

Data Code	Description	Weight Front	Weight Rear
Electronic Parameters			
79A-072	72 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-015	PTO MODE ENGINE RPM LIMIT - 2100 RPM		
79P-004	PTO RPM WITH CRUISE SET SWITCH - 900 RPM		
79Q-004	PTO RPM WITH CRUISE RESUME SWITCH - 900 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-011	PTO GOVERNOR RAMP RATE - 1000 RPM PER SECOND		
79V-001	ENABLE REGENERATION IN PTO MODE		
80G-004	PTO MINIMUM RPM - 900		
80J-001	REGEN INHIBIT SPEED THRESHOLD - 0 MPH		
Engine Equipment			
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
99D-009	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE OF HOOD)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
133-004	ONE PIECE VALVE COVER		
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED		
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-1D8	(2) ALLIANCE MODEL 1131, GROUP 31, 12 VOLT MAINTENANCE FREE 1900 CCA THREADED STUD BATTERIES, NON FCCC ONLY		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
131-013	AIR COMPRESSOR DISCHARGE LINE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		

Data Code	Description	Weight Front	Weight Rear
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20	
016-101	RH INBOARD FRAME MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH HORIZONTAL TAILPIPE	-50	-50
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-001	STANDARD EXHAUST SYSTEM LENGTH		
237-052	RH STANDARD HORIZONTAL TAILPIPE		
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
273-035	HORTON HT650 FRONTAL AIR ON/OFF ENGINE FAN CLUTCH		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-001	FULL FLOW OIL FILTER		
266-078	950 SQUARE INCH ALUMINUM RADIATOR		
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
138-010	PHILLIPS-TEMRO 750 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		

Transmission

342-1MN	ALLISON 2500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
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Transmission Equipment

343-301	ALLISON VOCATIONAL PACKAGE 354 - AVAILABLE ON 1000/2000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, EVS, HS, MH, PTS AND SPS
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Data Code	Description	Weight Front	Weight Rear
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
84C-007	PRIMARY MODE GEARS, 6 FORWARD GEARS WITH MANUAL SELECTION FOR 3, 2 AND 1, AVAILABLE FOR 1000/2000 PRODUCT FAMILIES ONLY		
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
84V-998	TCU-DIRECTION CHNG,NOT CONFIGURED		
84M-998	TCU-PUMP MODE OPTION NOT CONFIGURED		
85B-998	TCU-RANGE INDICATION NOT CONFIGURED		
353-022	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-075	DASH MOUNTED T-HANDLE SHIFT CONTROL, PROVIDE 83 INCH CABLE FOR SUPPLIER RELOCATION OF T-HANDLE SHIFTER WITHOUT PARK BRAKE POSITION TO CENTER CONSOLE		
97G-006	TRANSMISSION PROGNOSTICS - DISABLED (N/A) 2013, FOR USE IN 1000/2000 ONLY		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-001	TRANSMISSION OIL CHECK AND FILL		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1A6	DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE		
402-020	MERITOR 15X4 Q+ CAM FRONT BRAKES		
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS		5
409-006	FRONT OIL SEALS		

Data Code	Description	Weight Front	Weight Rear
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-003	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS		
536-050	TRW THP-60 POWER STEERING		
539-003	POWER STEERING PUMP		
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE		
Front Suspension			
620-1F0	12,000# DUAL TAPERLEAF FRONT SUSPENSION	42	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
62H-998	NO FRONT SUSPENSION SPRING BRACKET OPTIONS		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-1N0	MS-21-14X 21,000# R-SERIES SINGLE REAR AXLE		10
421-643	6.43 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES		
393-998	NO DRIVELINE GUARD		
423-019	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-012	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		
440-006	REAR OIL SEALS		
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
Rear Suspension			
622-003	23,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		120
621-001	SPRING SUSPENSION - NO AXLE SPACERS		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
623-005	FORE/AFT CONTROL RODS		
Brake System			
018-002	AIR BRAKE PACKAGE		

Data Code	Description	Weight Front	Weight Rear
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20	
479-012	AIR DRYER MOUNTED UNDER HOOD		
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL		
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
Trailer Connections			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
30L-998	NO HIGH CURRENT TRAILER/BODY CABLE		
Wheelbase & Frame			
545-417	4175MM (164 INCH) WHEELBASE		
546-092	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8/0.344X10.94 INCH) 80KSI	-40	130
552-018	1625MM (64 INCH) REAR FRAME OVERHANG		
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH		
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 98.45 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 95.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 257.39		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 98.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 83.46 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 83.29 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REAR MOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
556-1AN	THREE-PIECE 14 INCH STEEL CENTER BUMPER WITH FLEXIBLE PLASTIC ENDS		
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	

Data Code	Description	Weight Front	Weight Rear
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
489-998	NO TIRE PRESSURE CONTROL/SENSOR		
Fuel Tanks			
204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
218-005	RECTANGULAR FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-1J2	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND HAND PRIMER	-5	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-1V4	CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRE	16	
094-1V4	CONTINENTAL HSR2 11R22.5 14 PLY RADIAL REAR TIRES		32
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Wheels			
502-657	ACCURIDE 51408 ACCU-LITE 22.5X8.25 10-HUB PILOT 6.16 INSET 2-HAND STEEL DISC FRONT WHEELS,		
505-657	ACCURIDE 51408 ACCU-LITE 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS		
50W-998	NO RIM/WHEEL TIRE PRESSURE SENSOR		
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-009	RUBBER CAB MOUNTS		
678-001	LH AND RH GRAB HANDLES		
646-009	PAINTED PLASTIC GRILLE		
65X-001	ARGENT SILVER HOOD MOUNTED AIR INTAKE GRILLE		

Data Code	Description	Weight Front	Weight Rear
644-004	FIBERGLASS HOOD		
690-016	CAB FLOOR, TOE BOARD AND FIREWALL HEAT SHIELD	5	
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK	4	
726-002	DUAL ELECTRIC HORNS		
728-001	SINGLE HORN SHIELD		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-043	INTEGRAL HEADLIGHT/MARKER ASSEMBLY		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-001	DAYTIME RUNNING LIGHTS		
294-046	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TURN WIRES TO 4 FEET BEYOND END OF FRAME		-5
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74B-080	RH AND LH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	8	
729-001	STANDARD SIDE/REAR REFLECTORS		
677-016	DUAL LEVEL CAB ENTRY STEPS ON BOTH SIDES		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
663-013	TINTED WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
742-007	(2) CUP HOLDERS LH AND RH DASH		

Data Code	Description	Weight Front	Weight Rear
680-006	GRAY/CHARCOAL FLAT DASH		
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-034	PREMIUM INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-017	GRAY CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-017	GRAY CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		
532-027	ADJUSTABLE STEERING COLUMN, SUPPLIER CONVERSION TO LH AND RH ADJUSTABLE TILT STEERING COLUMNS	10	
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		

Data Code	Description	Weight Front	Weight Rear
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
73B-998	NO LANE DEPARTURE WARNING SYSTEM		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-1B4	AM/FM/WB WORLD TUNER RADIO WITH CD PLAYER, BLUETOOTH, IPOD INTERFACE, USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-998	NO VEHICLE PERFORMANCE MONITOR	-5	
8D1-998	NO DETROIT CONNECT SERVICES SELECTED		
8Z1-998	NO ZONAR SERVICES SELECTED		
162-011	IDLE LIMITER, ELECTRONIC ENGINE		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		
869-998	NO MISCELLANEOUS GAUGES		
Design			
065-000	PAINT: ONE SOLID COLOR		
Color			
980-3F6	CAB COLOR A: N0006EA WHITE ELITE SS		

Data Code	Description	Weight Front	Weight Rear
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
98K-998	NO FUEL TANK CABINET PAINT		
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX		
963-003	STANDARD E COAT/UNDERCOATING		

Certification / Compliance

996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
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Secondary Factory Options

99B-012	SHIP TO THIRD PARTY (CHARLOTTE, NC) PRIOR TO DELIVERY
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Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight [†]	5913 lbs	3750 lbs	9663 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight[†]	5913 lbs	3750 lbs	9663 lbs

Extended Warranty

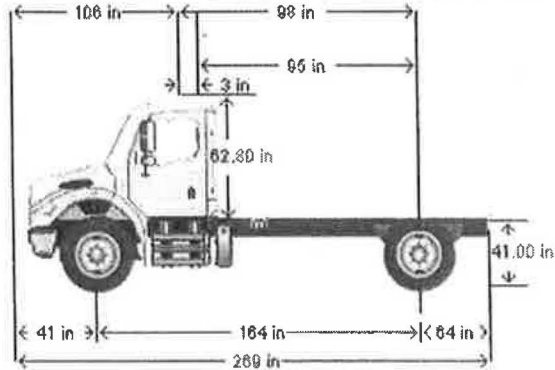
WAG-010	TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP FEX APPLIES
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Dealer Installed Options

	Weight Front	Weight Rear
FONTAINE DUAL STEERING AND DEF TANK RELOCATION	0	0
Total Dealer Installed Options	0 lbs	0 lbs

(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.

DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	M2106
Wheelbase (545)	4175MM (164 INCH) WHEELBASE
Rear Frame Overhang (552)	1625MM (64 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	0.0
Cab Size (829)	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682)	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016)	RH INBOARD FRAME MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH HORIZONTAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	106.3
Bumper to Centerline of Front Axle (BA)	40.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	98.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	95.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	162.4
Cab Height (CH)	62.8
Wheelbase (WB)	164.0
Frame Overhang (OH)	64.0
Overall Length (OAL)	268.7
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	41.0

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

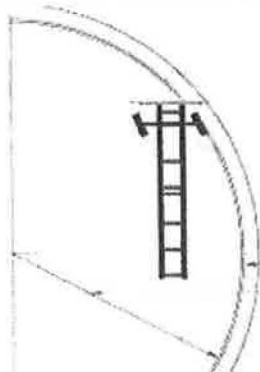
Wheelbase (545)	4175MM (164 INCH) WHEELBASE
Frame Rails (546)	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8/0.344X10.94 INCH) 80KSI(546)
Yield Strength (psi)	80000
Section Modulus (per rail) (cu in)	17.21
RBM (per rail) (lbf-in)	1358400
Inner Frame Reinforcement (547)	NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement (548)	NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	4175MM (164 INCH) WHEELBASE
Frame	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8/0.344X10.94 INCH) 80KSI
Inner Frame Reinforcement	NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	80000
Section Modulus - per rail (cu. in.)	16.98
Frame RBM - per rail (lbf-in)	1358400

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

TURNING RADIUS



Turning radius graphic and data provided for general estimate purposes only. For specific figures regarding your configuration, please contact your CAE representative.

	Left Turn	Right Turn	Tolerance
Wall to Wall Diameter (ft)	39.1	39.1	+/- 3.0
Curb to Curb Diameter (ft)	37.2	37.2	+/- 3.0
Turning Radius (ft)	18.1	18.1	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model M2106
 Cab Size (829) 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Wheelbase (545) 4175MM (164 INCH) WHEELBASE
 Front Tires (093) CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRE
 Width (in) 11.1
 Front Axle (400) DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
 Kingpin Intersection (in) 71.5
 Bumper (556) THREE-PIECE 14 INCH STEEL CENTER BUMPER WITH FLEXIBLE PLASTIC ENDS
 Width (in) 93.5
 Bumper Miter to Front Axle (in) 21.458
 Primary Steering Location (003) PREP FOR LH PRIMARY STEERING LOCATION AND CUSTOMER SUPPLIED RH SIT-DOWN
 SECONDARY STEERING LOCATION WITH DUAL INSTRUMENT CLUSTER
 Steering Gear (536) TRW THP-60 POWER STEERING
 Dual Steering Gear NONE
 Ram NONE
 Rear Axle (420) MS-21-14X 21,000# R-SERIES SINGLE REAR AXLE
 Axle Spacing (624) NO AXLE SPACING

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



SCHWARZE SWEEPER 12 MONTH LIMITED WARRANTY

UNIT MODEL	UNIT SERIAL NUMBER	ENGINE MODEL	ENGINE SERIAL NUMBER	ORDER NUMBER
CHASSIS MAKE	CHASSIS MODEL	YEAR	VEHICLE IDENTIFICATION NUMBER	

Schwarze Industries, seller, provides warranty coverage to the original purchaser for all new equipment manufactured by Schwarze Industries, Inc. Schwarze-built sweepers are warranted to be free from defects in materials and/or workmanship under normal operating conditions, and when used in a proper application, for a period of twelve (12) consecutive months from the date placed into service, or twelve hundred (1200) hours of operation, whichever occurs first, provided all recommended maintenance is performed as scheduled.

WHAT WE WILL DO: Seller's sole obligation with respect to this Warranty shall be to replace or repair, at Seller's option, any part, parts or workmanship which may prove to be defective during the Warranty Period. Warranty work shall be performed at Seller's home office (1055 Jordan Road, N.E., Huntsville, Alabama 35811) or, at Seller's sole option, at the Schwarze authorized Dealer nearest to the purchaser's location.

WHAT IS NOT COVERED: This warranty shall not apply to damage or defects caused by negligence, carelessness, unauthorized repair work, use of unauthorized repair parts or to damage due to accident, misuse or abuse on the part of the purchaser or his or her or its servants, agents, representatives or employees, or to damage caused by acts of God. This Warranty shall not apply to routine maintenance, repair and adjustments, or to the wear parts, including but not limited to the following:

- A-Series & S-Series Sweepers:** flaps, drive belt, hoses, broom bristles, seals, low arms, throttle cable, fan housing liner, door trim, filters, light bulbs, tires, water nozzles, spray tips, screens, springs, switches, batteries, mud flaps and mirrors.
- M-Series Sweepers:** brooms, rubber sprockets, bearings, flaps, drive couplings, drag brush, caster wheels, light bulbs, tires, water nozzles, spray tips, belts, control cables, filters, switches, batteries, mud flaps and mirrors.

WARRANTY DISCLAIMER

Except for the warranties stated herein, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SELLER SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES SUCH AS, BUT NOT LIMITED TO, DAMAGE OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, COST OF PURCHASE OR REPLACEMENT GOODS, OR CLAIMS OF CUSTOMERS OF PURCHASER FOR SERVICE INTERRUPTIONS.

The remedies of the Purchaser set forth herein are exclusive, and the liability of Seller with respect to the manufacture, sale, delivery, resale, installation or use of any goods covered by or furnished under this Limited Warranty shall not, in any event, exceed the price of the goods upon which such liability is based. Any parts or accessories not manufactured by Schwarze are warranted only to the extent that the manufacturer's Warranty may be passed on to Purchaser, and such parts and accessories are not subject to this Warranty or to any other warranty, expressed or implied. The limitations of remedies to repair or replacement and the disclaimer of all special, incidental or consequential damages are intended to be separate and independent limitations of Seller's liability.

HOW TO OBTAIN SERVICE: If a problem that is covered by this Warranty develops with this Schwarze Sweeper during the Warranty Period, PURCHASER MUST NOTIFY THE SCHWARZE IN WRITING PRIOR TO THE EXPIRATION OF THE WARRANTY PERIOD OR WAIVE ALL CLAIMS. Purchaser must then deliver the unit, at Purchaser's expense and risk of loss during transport, to Seller's Huntsville, Alabama address, or to the nearest Schwarze Industries, Inc. authorized Dealer. In lieu of presenting the unit for service, parts covered under this Warranty will be shipped at Purchaser's expense if the total weight of the parts is less than 25 lbs. If the Purchaser agrees to pay \$10.00 over the normal freight charges, parts covered under this 12 Month Warranty will be shipped via air freight for next-day delivery, when available. Those parts not shipped on an expedited basis, or weighing more than 25 lbs, will be shipped by Seller's normal methods (U.P.S. ground, common carrier, etc.) at the Purchaser's expense unless Purchaser specifies differently, and agrees to be liable for any additional shipping and freight charges. All parts covered under Warranty will be shipped C.O.D. unless the Purchaser has previously established an account with Schwarze and provided that such account is not past due and that the Purchaser has not exceeded his/ her/its credit limit. Warranty credit will be available only on parts which are received by Seller within thirty (30) days of the Purchaser's receipt, and if the replacement or repaired part is returned freight prepaid, and only if the component manufacturer approves it for warranty replacement. In NO case will credit be available for defective parts received by Seller later than (30) days after Schwarze ships the replacement part.

TRANSFER OF WARRANTY: This Warranty is nontransferable without prior approval, in writing, by Schwarze Industries, Inc., 1055 Jordan Road, N.E., Huntsville, Alabama, 35811. To be considered, any Transfer request must include the following information.

1. The vehicle identification number of the chassis.
2. Model and serial number of the sweeper
3. Original purchaser's name and address
4. Name and address of the current registered owner.
5. Name and address of the party to whom the Warranty is requested to be reassigned.

No employee or agent of Seller is authorized to alter or extend this Warranty or to assume any other liability on Seller's behalf. Any alterations or extensions shall not be valid or binding upon Schwarze. To get further help, notify the Schwarze Warranty Department by calling 1-800-879-7933, and identify yourself as a bearer of the Schwarze Sweeper 30 Day Limited Warranty.

SCHWARZE 5 YEAR HYDRAULIC COMPONENT LIMITED WARRANTY

Schwarze Industries, Inc. ("seller") provides warranty coverage to the original purchaser on Hydraulic Components (as defined below) for all new equipment sold and operated in the United States of America, manufactured by seller, and purchased from an authorized Schwarze dealer. The Hydraulic Components are warranted to be free from defects in materials and/or workmanship, under normal operating conditions, and when used in a proper application, for a period of 5 years from the date of retail sale to the original purchaser, or 6000 hrs of operation, whichever occurs first, provided all recommended maintenance is performed as scheduled.

Seller's sole obligation with respect to this Schwarze 5 Year Hydraulic Component Limited Warranty (the "Limited Warranty") shall be to replace or repair, at seller's sole option, any part, parts or workmanship which proves to be defective during the warranty period.

This Limited Warranty shall not apply unless purchaser uses OEM approved filters and has annual warranty inspections performed by an authorized Schwarze dealer. Failure to perform the annual inspections will result in forfeiture of the Limited Warranty and coverage will revert to the Schwarze Sweeper 12 Month Limited Warranty. Proof of purchase will be required to substantiate all warranty claims. All warranty work must be performed by an authorized Schwarze dealer. Any work done on or to the equipment by anyone other than an authorized Schwarze dealer, including the original purchaser, voids all provisions of this Limited Warranty except those provisions which limit seller's liability.

Hydraulic Components include hydraulic pumps, hydraulic motors, and fittings. This Limited Warranty does not cover cylinders, valves, hoses, filters, seals, reservoirs, or anything else other than the Hydraulic Components.

Warranty repairs and annual inspections shall be performed at the seller's home office (1055 Jordan Rd, NE Huntsville, AL. 35811) or, at the seller's sole option, at the Schwarze authorized dealer nearest to the purchaser's location. The cost of delivering the equipment for repairs and inspections shall be the responsibility of the original purchaser.

WARRANTY DISCLAIMER

Except for the warranties stated herein, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SELLER SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL SUCH AS, BUT NOT LIMITED TO, DAMAGE OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, COST OF PURCHASE OR REPLACEMENT GOODS, OR CLAIMS OF CUSTOMERS OF PURCHASER FOR SERVICE INTERRUPTIONS

This warranty is not transferable, without prior written approval by seller.



The People You Know. The Products You Trust.

Schwarze Industries, Inc. ("seller") provides lifetime protection against rust-through of the water tanks.

Freightliner (FTL)



Freightliner Medium Truck

Coverage ¹		
Description	Time ²	Distance ²
Basic Vehicle	2 Years	Unlimited
Battery	1 Year	100,000 mi/161 000 km
Brightwork	6 Months	Unlimited
Cab Corrosion/Perforation	5 Years	Unlimited
Cab Structure	5 Years	Unlimited
Corrosion	6 Months	Unlimited
Crossmembers	5 Years	Unlimited
Diesel Emission 2010 ³	5 Years	100,000 mi/161 000 km
Frame Rails	5 Years	Unlimited
GHG14 ⁴ (Light Heavy Duty Trucks)	5 Years	50,000 mi/80 500 km
GHG14 ⁴ (Medium Heavy Duty to Heavy Heavy Duty Trucks)	5 Years	100,000 mi/161 000 km
GHG14 ⁴ (Medium Heavy Duty to Heavy Heavy Duty Tractors)	5 Years	100,000 mi/161 000 km
GHG14 ⁴ Tire	2 Years	24,000 mi/38 400 km
Hybrid Transmission – Eaton ⁵	3 Years	150,000 mi/240 000 km
Paint	1 Year	100,000 mi/161 000 km
Paint, Chassis	6 Months	Unlimited
Front Axle ⁶	2 Years	Unlimited
Rear Axle	2 Years	Unlimited
Transfer Case	2 Years	Unlimited
Transmission ⁵	2 Years	Unlimited
Detroit Front Axle ⁶ (File Direct)		
Post-Model Year 2011 ⁷	2 Years	Unlimited
Post-Model Year 2011 ⁸	4 Years	Unlimited
Detroit Rear Axle (File Direct)		
Post-Model Year 2011 ⁷	2 Years	Unlimited
Post-Model Year 2011 ⁸	4 Years	Unlimited
Detroit DT-12 Transmission ^{5,9} (File Direct)	5 Years	750,000 mi/1 200 000 km

¹Coverage may vary; check vehicle's actual warranty coverage online via OWL's Coverage Info/Check Coverage screen.

²Time or distance, whichever comes first

³Applies to vehicles equipped with EPA 2010 compliant diesel engines.

⁴Applies to models 2013 and later domiciled in the United States, check actual warranty online via OWL's Coverage Info/Check Coverage screen for coverage listed as GHG14...".

⁵Customers will have only one (1) type of transmission coverage, depending on how the vehicle is spec'd.

⁶Front axle coverage is also applicable to gliders.

⁷Medium Duty – General Service: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see www.ddcsn.com for specific coverage details.

⁸Medium Duty – General Service Plus: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see www.ddcsn.com for specific coverage details.

⁹Detroit Transmission: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see www.ddcsn.com for specific coverage details.

Warranty Statement & Warranty Coverage Descriptions follow on page two of this document.

The information provided in this document is for general information only and is not offered as customer's warranty.

This coverage may be superseded without notification.

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Warranty Statement

1.1 New Vehicle Coverage

The following section outlines Company standard warranty coverages for all Company vehicles, apparatus or chassis or cabs sold by Daimler Trucks North America and domiciled in the USA (50 states and Washington, D.C.) and Canada. This information is also included in the Owner's Warranty Information Booklet.

See Warranty Coverage Descriptions for standard warranty coverages by make and model. Additional coverage may apply, verify actual coverages with your local dealership for specific vehicle warranty.

1.2 New Vehicle Limited Warranty

Under this New Vehicle Limited Warranty ("Warranty"), Company warrants that each new vehicle will be free from defects in material and workmanship that occur under normal use within the applicable warranty period, subject to certain limitations and exclusions as specified in this document.

This limited warranty applies only to new vehicles sold by an authorized Daimler Trucks North America (DTNA) dealer or ordered directly from DTNA; vehicles sold at auction or as a result of repossession retain the warranty coverage from the original in-service date or factory invoice date if the vehicle has not been warranty registered.

Daimler Trucks North America LLC reserves the right to reduce or remove coverage on vehicles in salvage condition.

This Warranty covers all components and parts unless specifically covered by other warranties or otherwise excluded by this document.

1.3 Limitations

This Warranty does not apply to vehicles that are sold or domiciled outside of the United States (50 states and Washington, D.C.) or Canada.

This Warranty does not apply to engines, Allison transmissions, tires, or other components or parts that are not manufactured by Company and that are warranted directly by their respective manufacturers. Progressive damage caused by these manufacturers' components to any other parts including, but not limited to, parts installed by Company is excluded from Company warranty coverage. With respect to the foregoing, Company makes no warranty whether express, implied, statutory or otherwise including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND WHETHER WRITTEN, ORAL, OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SPECIFICALLY EXCLUDES ANY OTHER

WARRANTIES OR CONDITIONS PROVIDED FOR BY LAW, WHETHER STATUTORY OR OTHERWISE.

COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, ANY DEFECTIVE COMPONENT OR PART. SUCH REPAIR OR REPLACEMENT SHALL BE WITHOUT COST TO PURCHASER WHEN PERFORMED WITHIN THE APPLICABLE WARRANTY PERIOD (TIME, DISTANCE, OR HOUR LIMIT, WHICHEVER OCCURS FIRST).

Purchaser must notify Company within the applicable warranty period, of any failure of the vehicle to comply with this Warranty and Purchaser must, at Purchaser's expense, promptly return the vehicle to an Authorized Service Facility for inspection and repair or replacement of any defect in material or workmanship occurring within the applicable warranty period. During New Vehicle coverage, warranty reimbursement will not be paid on repairs performed by customers on their own vehicles without a current Customer Performed Warranty Agreement (CPWA).

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuals. Receipted bills and other evidence that required maintenance and service have been performed are required by Company as a condition of this Warranty.

After the Company's obligations under this Warranty expire, all liabilities of Company to Purchaser under this Warranty shall terminate. Repairs made under this Warranty do not constitute an extension of the original Warranty period for the vehicle or for any specific component or part.

To the extent that any provision of this Warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction, and the remainder of the warranty shall not be affected.

1.4 Purchaser's Exclusive Remedy

THIS WARRANTY SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST COMPANY, WHETHER IN CONTRACT, UNDER STATUTE (INCLUDING STATUTORY PROVISIONS AS TO CONDITIONS AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF GOODS SUPPLIED PURSUANT TO THE CONTRACT OF SALE), WARRANTY, TORT, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.

1.5 Limitation of Liability

COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE COST TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, THE DEFECTIVE COMPONENT OR PART THAT IN NO EVENT SHALL EXCEED THE FAIR MARKET VALUE OF THE VEHICLE AT THE TIME THE DEFECT IS DISCOVERED.

IN NO EVENT SHALL COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, INJURIES TO PERSONS OR DAMAGE

TO PROPERTY, LOSS OF PROFITS OR ANTICIPATED PROFITS, OR LOSS OF VEHICLE USE.

1.6 Exclusions

The following components, parts, or conditions are specifically excluded from coverage under this Warranty:

AERODYNAMIC WHEEL COVERS

Aerodynamic wheel covers are excluded from coverage under this Warranty.

AIR SPRINGS

Tolerance buildup can occur during the assembly process of the rear suspension and rear cab air springs, and can cause the springs to have the appearance of being crooked, misaligned or improperly installed. This tolerance buildup is not detrimental to the operation of the vehicle and will not have an effect on either the quality of the ride or the durability of the components or vehicle. Straightening of these springs is not covered under this Warranty.

ALIGNMENT OF AXLES/WHEELS/STEERING

Each DTNA vehicle manufacturing plant uses an integrated alignment system to align axles and wheels and to center the steering wheel to Daimler Trucks North America LLC specifications. Realignment or readjustment of these items, including steering stops and steering poppets, is not covered under warranty.

Any special alignment settings at the request of the Owner must be handled between the Dealer and Owner after delivery from factory. These special adjustments are not covered under Warranty.

AXLE BREATHER VENTS

During the vehicle manufacturing process, an oil run or drip stain may appear at the breather vent. Removing the vent, applying pipe sealant to the threaded vent fitting and re-installing the vent is unnecessary. Removing the axle breather vent and re-sealing the threaded fitting is not covered under this Warranty.

CAB INTERIOR COMPONENTS

The repair or replacement of cab interior components that are rendered unserviceable due to normal wear or abuse are not covered under this Warranty.

These components include, but are not limited to:

- Curtains
- Floor coverings (including floor mats)
- Painted trim components
- Steering wheel
- Steering wheel wrap
- Upholstery
- Window shades

CHROME SURFACES, ALUMINUM AND STAINLESS STEEL COMPONENTS

The following items ARE covered under this Warranty:

- Chrome peeling off in sheets
- Chrome cut at mounting bolts due to over-torque at the factory
- Bubbles in the chrome that are not caused by rock chips and/or general rust conditions
- Isolated rust along seams or welds

The following items are NOT covered under this Warranty:

- General rust, for example, rust on the unfinished backside of a bumper
- Dimpling at the mounting bolts
- Staining, bluing, and/or yellowing that can be cleaned with a quality cleaning-product
- Rust, pits, and/or nicks caused by road wash or road debris breaking the chrome surface
- Streaks/stains/corrosion caused by severe wash solutions or corrosive road salts/chemicals

Claims pertaining to failures of chrome surfaces, aluminum, and stainless steel components will not be processed unless a clear digital picture is provided that adequately shows the defect.

CLUTCH ADJUSTMENT

Clutch adjustments are normally required due to clutch wear and are considered normal maintenance. However, if the clutch adjustment is found to be outside of Company specifications during, or prior to, in-service of the vehicle, a warranty claim will be accepted on a one-time basis.

Claims for clutch adjustments will not be accepted unless the adjustment is found to be outside of Company specifications using the special clutch adjustment measuring tools provided by Company (e.g., adjusting the clutch to satisfy feel will not be accepted as warranty).

COMPETITION

Warranty will become void on any vehicle that is used in competition, including but not limited to:

- Racing
- Tractor pulls
- Other motor sports

CONSUMABLE PARTS

Parts that are subject to consumption during their normal service life and are routinely replaced during normal maintenance services are covered up to 15,000 miles (24 000km) for all Daimler Trucks North America LLC vehicles except for Thomas Built Bus (TBB) bodies and chassis. TBB consumable parts are covered up to 30 days from date of in-service.

These items are:

- Antennas
- Ashtrays
- Belts
- Brake Linings
- Cigarette lighter assembly
- Clutch brake
- Clutch linings
- Data logger batteries
- Desiccant cartridges
- Fire extinguishers
- Fluorescent ballast and tubes
- Fuses
- Gladhand
- Hosetennas
- Light bulbs
- Mattresses
- Mud flaps
- Mud flap mounting brackets
- Caps (radiator, surge, fuel tank)
- Receiver-dryer filter
- Trailer air hoses
- Trailer electrical cables

- Windshield washer nozzles
- Wiper arms and blades (TBB makes – wiper blades only)

Consumable parts NOT covered under this Warranty include, but are not limited to, the following:

- Antifreeze
- Filters (fuel, air, oil, water)
- Fluids (unless low due to a warrantable failure)
- Lubricant

CORROSION

A detailed list of exclusions for CORROSION is listed under Warranty Coverage Descriptions.

DAMAGE

The following are not covered under this Warranty:

- Damage caused by use of the vehicle in any application that is not approved or is inconsistent with build specifications
- Damage resulting from improper use or misuse or abuse, negligence, improper operation, improper or insufficient maintenance (including, but not limited to failure to maintain vehicle as outlined in the driver's/operator's and maintenance manuals), overloading, unauthorized modifications, accidents, or operation at excessive speeds
- Environmental damage, including airborne fallout (including chemicals, tree sap, etc.), or other atmospheric conditions, hailstones, or other acts of nature
- Damage caused by road salts/chemicals or cleaning solvents, detergents or compounds
- Storage deterioration including damage caused by improper or insufficient storage or maintenance
- Damage caused by road hazards or road conditions
- Damage caused during shipping/transport after initial delivery of vehicle
- Damages (including peeling or flaking) caused by high-pressure washing or steam-cleaning
- Damages occurring after in-service (e.g., from rock chips)
- Damages caused by customer-installed sealer in air conditioning systems
- Damages caused by engine horsepower/torque upgrades
- Damage due to vibration associated with misapplication or improper operation of drivetrain components
- Damage due to terrorist activities
- Damage due to acts of war

ENGINE

The engine, including all of its components as supplied by the engine manufacturer, is not covered under this Warranty, but is warranted separately by the manufacturer of the engine. For engine warranty or service, contact the engine manufacturer's authorized sales and service facility.

ENGINE BRAKES, AIR COMPRESSORS, AND OTHER PROPRIETARY ENGINE COMPONENTS

The engine manufacturer installs most air compressors and engine brakes. Any failure of a proprietary engine component or Jacob[®] Brake component must be filed directly to the engine manufacturer. Failures on non-proprietary engine components can be filed through DTNA.

EXHAUST SYSTEM CLAMPS

During the early life of the vehicle or when the engine is cold, many exhaust clamps exhibit a soot trace. This condition is self-correcting and does not require adjustment, tightening, or replacement of the clamp. Claims for adjusting or tightening will not be paid under warranty.

FIFTH WHEELS

Adjustment of the locking mechanism, bushings, slide locking plungers, and the repair or replacement of lock guards are considered routine maintenance and are not covered under this Warranty.

GLASS, MIRRORS, LENS

Glass, mirror, or lens breakage or chips or scratches of glass, mirrors, or lenses are not covered by this Warranty.

MISAPPLICATION OF VEHICLE

The warranty on any vehicle used inconsistent with its specified vocation/application will be downgraded to the warranty that is consistent with the vehicle use. Any and all claims associated with the misapplication of the vehicle will be subject to chargeback.

MISCELLANEOUS EXPENSES

Premium charges and work not directly related to the repair or replacement of a warranted part are not covered under this Warranty. Examples include, but are not limited to:

- Federal, state, provincial, and local taxes
- Travel expenses
- Loss of revenue
- Customer labor, including overtime labor
- Downtime
- Driver's expenses
- Cost of rental equipment
- Loss of cargo, including perishable cargo
- General housekeeping supplies (i.e., rags, solvents, sweeping compounds, coveralls, etc.)
- Communication charges
- Towing/road call assistance (unless coverage is specifically stated in the applicable warranty coverage table)
- Repair or replacement of optional items not sold or installed by company
- Removal or replacement of dealer, body builder, or customer installed equipment
- Environmental fees, cleanup, or other charges
- Cost of emergency services

MODIFICATIONS TO ORIGINAL EQUIPMENT

Company does not warrant vehicle component or chassis modifications, or equipment installations arranged by Dealers or Customers. In addition, the extra time necessary to remove body builder installed items and/or equipment to work on a warranted repair is not covered under this Warranty unless Company sells the complete chassis/body/equipment as a package.

If Dealers or Customers perform any vehicle modifications or equipment installations, to the extent these modifications or equipment installations adversely affect other vehicle components or vehicle performance, Company shall not accept any product liability or claims under the terms of the vehicle warranty. These claims become the sole responsibility of the person performing the modifications or equipment installations.

PAINT

The following exclusions to paint warranty include, but are not limited to:

- Complete chassis re-painting to repair paint damages
- Damages occurring after in-service (e.g., from rock chips)
- Peeling/flaking caused by high-pressure washing or steam cleaning
- Rusting of painted bumpers
- Removal and/or replacement of decals, striping, and/or lettering not applied by Company
- Specific areas of the vehicle are deliberately not painted or are not painted to any standard; paint repairs are not warrantable to such areas. These areas include:
 - Underside of the hood, including the inside of the wheel wells
 - Underside of the roof-mounted air fairings
 - Underside of the exterior sun visor
 - Inside of the side-mounted air fairings
 - Inside of the bumper
 - Aftertreatment devices

Gloss

Gloss Warranty claims pertaining to gloss issues on vehicles painted with low-gloss colors (identified in the Data Books) will not be covered under this Warranty.

SHIP LOOSE ITEMS AND COMPONENTS

During the manufacturing process, certain vehicle components are normally placed in the cab of the vehicle or strapped down to the chassis for security reasons. It is the Dealer's responsibility to mount these "ship loose" items in the correct location on the vehicle. Mounting of "ship loose" items will not be covered under warranty.

These items include, but may not be limited to, the following:

- Aerodynamic wheel covers
- Antennas
- Fire extinguishers
- Trailer air hoses
- Trailer electrical cables
- Winter fronts
- Tire inflation hoses
- Spare wheels/tires
- Chrome lug nut covers
- Driver's pouch
- Jacks

Daimler Trucks North America has established a Roof Fairing Removal program in order to reduce transport related damage. The Transporter will remove the fairing during the decking process and secure the fairing on the frame rail of the unit. Benefits for this program include fewer units towed in reverse and an overall improved delivery process.

Some units will continue to be received with the fairing collapsed. It is the Dealer's responsibility to mount these fairings correctly. Claims for mounting of these collapsed fairings will not be covered under warranty.

Those units received with the fairing removed, DTNA warranty will reimburse for the re-installation of the roof fairing prior to delivery to the end customer.

If vehicle is drop shipped directly to customer:

Transporter notifies customer that roof fairing has been removed for transport and arranges for re-installation prior to or at delivery.

- If customer has facilities for re-installation of roof fairings, then fairings will be re-installed at final delivery location.
- If customer does not have facilities to re-install fairings, transporter will arrange with nearest authorized DTNA dealership to have fairings re-installed and shuttle units to customer location at no additional cost to our customer.

TRANSMISSIONS

Allison transmissions and components are not covered under this Warranty, but are warranted separately by Allison. Information regarding Allison's warranty is provided for informational purposes only and is subject to change. For warranty or service information, contact Allison's authorized sales and service facility.

The Detroit DT-12 Transmission is not covered under this Warranty. Please see www.ddcsn.com for coverage details.

ROUTINE MAINTENANCE

Routing maintenance, servicing, and adjustment, as defined in the applicable Vehicle Maintenance Manual and Driver's Manual, are excluded from Warranty.

Periodic adjustment or re-torque of wheel bearings, wheel lug nuts, and suspension U-bolts are considered maintenance adjustments and are not covered under warranty.

Vibrations, squeaks, rattles, loose fittings/clamps, hose fitting leaks, loose nuts/bolts/screws, and loose electrical connections may develop during the initial trip(s) of the vehicle and these types of repairs/adjustments are covered under warranty one time during the following applicable initial operating periods unless excluded in the paragraphs below.

Reminder: After the following initial operating periods, these developments are the result of use and their repair/adjustment activities are considered routine maintenance and thus excluded from warranty.

INITIAL OPERATING PERIOD

The Initial Operating Period (IOP) for Daimler Trucks North America LLC vehicles is as follows:

Make	Initial Operating Period
Freightliner, Sterling, Western Star	Up to 15,000 miles/ 24 000 km
Freightliner Custom Chassis Corporation (FCCC)	Up to 25,000 miles/ 40 000 km
Thomas Built Bus (TBB) bodies and TBB chassis*	Up to 6 months from date of in-service

* TBB applications utilizing FCCC chassis retain the FCCC IOP separate from the TBB body.

See CONSUMABLE PARTS elsewhere in this section.

Exclusions from warranty during the IOP are:

- Cab, hood, and fender-mounted mirrors are adjusted at the factory but may be retracted by the transporter to prevent damage during transport. Subsequent adjustments and tightening of mirror

mounting hardware are considered part of the routine preparation of the vehicle before Customer delivery. Claims for adjusting the mirrors or tightening of the attaching hardware will not be paid under warranty during or after the initial operating period.

- Claims for re-routing of electrical wiring, hoses, or lines which meet Daimler Trucks North America's routing standards will not be paid under warranty during or after the initial operating period.
- Final preparation of the vehicle for Customer delivery to include cleaning/vacuumping interior of cab, washing windows, washing the exterior of the vehicle, polishing exterior chromed or painted surfaces are considered as ordering-Dealer responsibilities. Claims for these activities will not be paid under warranty during or after the initial operating period.

TEST VEHICLES

Any vehicles being used in testing or used to test specific components must be identified to the Warranty Department and accommodations must be made for claims that relate to the test item(s).

Any vehicles used in endurance testing, such as the Altoona Test, are void of all warranty, new or used.

TIRES AND TIRE BALANCING

The tires are not covered under this Warranty, but are warranted separately by the tire manufacturer. Tire balancing is not covered under warranty.

1.7 Transfer of Warranty

This Warranty is transferable to a subsequent Owner if it has not expired. To ensure the Owner receives proper warranty recognition, the ownership information should be updated in the Company system.

1.8 Change of Owner Address Information

To ensure Company's ability to reach the current Owner with Recall and Field Service campaign information, the Owner's information must be updated whenever there is a change to the Owner's name or address.

1.9 Product Improvement

Company reserves the right to make improvements or changes to the product at any time without incurring any obligation to make such changes or improvements to any other vehicle.

1.10 Owner's Responsibilities

It is the Owner's responsibility to ensure the vehicle is maintained as outlined in the Driver's/Operator's and Maintenance Manuals. It is important that the new Owner becomes familiar with the contents of the warranty information. When the Owner first receives the vehicle, Dealer should review the Owner's Warranty Information booklet with the Owner.

To initiate warranty for all makes except TBB Bodies and TBB Chassis, customer must complete and sign the Warranty Start Form (WAR275). Dealer must attach the Warranty Start Form to the Product Registration screen in OWL.

For TBB Bodies and TBB Chassis, customers should contact their TBB dealership to initiate warranty.

Coverage Descriptions

Axles

Coverage includes all factory-installed front axles; rear axles; steer axles; drive axles; tag axles; and pusher axles. Detroit axles are warranted directly through Detroit. *Excludes any axle installed by a dealer or body builder.*

Detroit Axle(s)

All warranty inquiries and claims are filed directly to Detroit Axles. Please see www.ddcsn.com for specific coverage details.

Drive Axle(s)

Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. *Excludes suspension and torque rod brackets, tie rod ends, wheel end equipment, wiring, yokes, and attaching hardware.*

Front Axle(s)

Coverage is for non-Detroit front axle(s) only. Coverage includes I-beam, steering knuckles, differential on drive steer axle, spindles, kingpin bearings, and steering arms. *Excludes tag axle(s), pusher axle(s), wheel end equipment, steering linkage components, driveline(s), U-joints, and kingpin bushings/kingpin seals.*

Pusher Axle

A pusher axle is a non-driven, weight-bearing axle that can be raised when not required to bear a portion of the load. Since the pusher axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

Rear Axle(s)

Coverage is for non-Detroit rear axle(s) only. Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. *Excludes tag axle(s), pusher axle(s), suspension and torque rod brackets, wheel end equipment, wiring yokes, driveline(s), U-joints, and attaching hardware.*

Steer Axle(s)

Coverage includes I-beam, steering knuckles, differential on drive steer axle, spindles, kingpins, kingpin bearings and steering arms. *Excludes wheel end equipment, tie rod ends, steering linkage components, kingpin bushings, and king pin seals.*

Tag Axle

A tag axle is a non-driven, continuous weight-bearing axle. Since the tag axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

Battery

Coverage includes Alliance Brand Batteries only; claims for all other brands must be submitted directly to the supplier. Includes starting battery assemblies and factory-installed APU battery assemblies. *Excludes non-*

Alliance Brand batteries, battery cables, battery mounting box and hardware.

Basic Chassis

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty or by special agreement or described as having a different time, or distance or hours, or listed separately on each new vehicle warranty coverage chart.

Basic Vehicle

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time or distance, or listed separately on each new vehicle warranty coverage chart.

Brightwork

Coverage includes all factory-installed components with chrome, polished aluminum, or polished stainless steel surfaces. *Excludes any damage backside of bumpers, and concealed or inner surfaces.*

Cab Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cab and integral sleeper structure and sleeper box (if applicable) due to corrosion from within. *Excludes all conditions of rust or corrosion that has not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.*

Cab Structure

Coverage includes cab and integral sleeper structural components, structural components of factory-installed sleeper boxes (if applicable), sheet metal panels, doors, and hoods. *Excludes all bolt-on components including door and hood hinges, latches, guides, and other mounting hardware.*

Corrosion

Coverage provides warranty against corrosion to any metal or metal alloy part of the vehicle. Rust or corrosion to specific components and/or caused by certain conditions are excluded from all Company warranty coverage and will not be paid under Basic Vehicle, Cab Structure, Cab Corrosion, or Aftermarket Parts Warranty.

Exclusions to corrosion warranty include, but are not limited to, the following:

- *Corrosion caused by general rust (for example, rust on the unfinished backside of a bumper)*
- *Surface rust caused by chips or scratches in the paint or chrome surfaces*
- *Corrosion caused by high-pressure washing, severe wash solutions, cleaning solvents, detergents, compounds*
- *Corrosion caused by salinity in the environment or corrosive salts and/or chemicals used on the road surface.*

- *Corrosion caused by acid rain or other industrial fallout*
- *Corrosion due to improper prevention measures during storage or use*
- *Corrosion or rust on tone rings, rotors or drums (rotor exclusion does not apply to hydraulic discs with Magna-Coat Rotors)*
- *Corrosion due to environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature*
- *Corrosion due to improper use, misuse or abuse, negligence, including improper or insufficient maintenance*

Cowl Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cowl due to corrosion from within. *Excludes all conditions of rust or corrosion that have not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.*

Cowl Structure

Coverage includes cowl structural components, sheet metal panels, and hood. *Excludes all bolt-on components including hood hinges, latches, guides, or other mounting hardware.*

Crossmembers

Coverage includes crossmembers, gussets, and huck-mounting bolts that attach gussets to crossmembers and gussets/crossmembers to frame rails. *Excludes any bolt-on item attached with either conventional or huck bolts.*

Driveline

Coverage includes driveshaft tubing, U-joints, yokes, support bearings, and splines.

Frame Rails

Coverage is limited to breaking or cracking of factory-installed frame rails, frame rail liners, frame rail extensions, and any item(s) factory welded to them. *Excludes all bolt-on items regardless if attached with conventional or huck bolts.*

GHG14*

Daimler Trucks North America LLC (DTNA) warrants that its vehicles are (1) designed, built and equipped so as to conform, at the time of sale, with requirements of vehicle manufacturers whose vehicles are designed to meet applicable 2014 and later U.S. Environmental Protection Agency and National Highway Traffic and Safety Administration Standards greenhouse gas and fuel efficiency standards, and (2) free from defects in material and workmanship which cause the vehicle to fail to conform with the vehicle manufacturer's requirements for all vehicle emission control items listed below.

*Coverage name/description may vary, check actual warranty online via OWL's *Coverage Info/Check Coverage* screen for coverage listed as "GHG14..."

GHG14 Tire*

Daimler Trucks North America LLC (DTNA) warrants that its vehicles are (1) designed, built and equipped with tires that conform, at the time of sale, with requirements of vehicle manufacturers whose vehicles are designed to meet applicable 2014 and later U.S. Environmental Protection Agency and National Highway Traffic and Safety Administration greenhouse gas and fuel efficiency standards, and (2) those tires are free from defects in material and workmanship which cause the vehicle to fail to conform with the vehicle manufacturer's requirements for a period of 2 years or 24,000 miles, whichever occurs first. Claims for failures under this coverage are filed directly to the tire manufacturer.

*Coverage name/description may vary, check actual warranty online via OWL's *Coverage Info/Check Coverage* screen for coverage listed as "GHG14..."

Glider

An incomplete vehicle which may be ordered with or without engine and/or major drivetrain components; warranty coverage includes all components as specified in the specific build specification.

Hybrid Transmission - Eaton

Eaton requires that only hybrid-authorized dealerships work on units equipped with Eaton hybrid parts. Pre-authorization is required prior for repair of these vehicles in order to obtain technical assistance and a pre-authorization number for replacement parts. Eaton hybrid parts will be shipped directly from Eaton and will not be stocked in the PDCs due to the short shelf life and low volume. The following hybrid parts are covered under this Warranty: power electronics carrier (PEC), motor generator, inverter, DC/DC converter, hybrid control module (HCM), transmission control module (TCM), clutch, and electronic clutch actuator (ECA). Coverage does NOT include oil cooler or cooling systems. Please reference Roadranger Warranty Guide TCWY0900 for more information on complete listing of limits and exclusions, as well as terms and conditions.

Off Road On-Site Assistance

Coverage is exclusively available for off road vehicles that are prohibited from use on public streets. If this coverage is provided, it will be specifically included in the coverage table as a separate category. Coverage includes on-site assistance and/or equipment transportation to the nearest authorized repairing location for a Daimler Trucks North America LLC warrantable repair.

Paint (Body, Cab, & Cowl)

Paint coverage *excludes lack-of gloss issues on vehicles painted with low gloss colors; the underside of hoods and roof and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.*

Body Paint

Coverage includes all factory-painted exterior body surfaces. Warranted against orange peel; peeling/delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Cab Paint

Coverage includes all factory-painted surfaces (except those included in chassis paint coverage). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Cowl Paint

Coverage includes all factory-painted exterior surfaces of cowl structure (except those included in chassis paint). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Paint, Chassis (Chassis Paint)

Coverage includes all factory painted surfaces on frame rails, crossmembers/gussets, front and rear bumpers, suspension components, power train components, drivelines, fuel tanks, air tanks, wheel end equipment, tool boxes, battery boxes, access steps, and attaching brackets and hardware. Warranted against peeling or non-adhesion. *Excludes U-joints and any damages to the paint or painted surface such as chips and scratches.*

Towing/Roadside Assistance

Coverage includes roadside assistance or towing (to the nearest authorized repair location) for a Daimler Trucks North America LLC warrantable repair in a vehicle-down situation that prevents the safe and lawful operation of the vehicle. If this coverage is provided, it will be specifically included in the coverage table as a separate category.

Transfer Case

Coverage includes housing and all internally lubricated parts. *Excludes broken synchronizer pins, PTOs, airlines, gauge, clutch assemblies, driveline(s), and U-joints.*

Transmission

Coverage does not include Allison transmissions, Detroit transmissions, or Eaton Hybrid transmissions. Coverage includes housing and all internally lubricated parts, electric/air shift/control units, valves, gaskets, and seals. *Excludes broken synchronizer pins, PTOs, airlines, gauge, gauge senders, yoke(s), clutch assemblies, clutch and clutch control components including clutch brake, driveline(s), and U-joints.*

Wheel End Equipment

Coverage includes brake components, wheels, hubs, drums, rotors, wheel seals/ bearings, slack adjusters, and attaching hardware.

Exhibit B - DF2369E New Off-Highway Engine Warranty

Exhibit B - DF2369E New Off-Highway Engine Warranty

JOHN DEERE NEW OFF-HIGHWAY ENGINE WARRANTY

Warranty Duration

Unless otherwise provided in writing, John Deere* makes the following warranty to the first retail purchaser and each subsequent purchaser (if purchase is made prior to expiration of applicable warranty) of each John Deere new off-highway engine marketed as part of a product manufactured by a company other than John Deere or its affiliates and on each John Deere engine used in an off-highway repower application:

- 12 months, unlimited hours of use, or
- 24 months and prior to the accumulation of 2000 hours of use

Note: In the absence of a functional hour meter, hours of use will be determined on the basis of 12 hours of use per calendar day.

Warranty Coverage

This warranty applies to the engine and to integral components and accessories sold by John Deere, and delivered to the first retail purchaser on or after 1 May 2010.

All John Deere-warranted parts and components of John Deere engines which, as delivered to the purchaser, are defective in materials and/or workmanship will be repaired or replaced, as John Deere elects; without charge for parts or engine repair labor, including reasonable costs of labor to remove and reinstall non-engine parts or components of the equipment in which the engine is installed, and, when required, reasonable costs of labor for engine removal and reinstallation, if such defect appears within the warranty period as measured from the date of delivery to the first retail purchaser.

Emissions Warranty

Emissions warranties appear in the Operator's Manual, that is furnished with the engine/machine.

Obtaining Warranty Service

Warranty service is to be performed by a local John Deere engine service outlet before the expiration of the warranty. An authorized service outlet is a John Deere engine distributor, a John Deere engine service dealer, or a John Deere equipment dealer selling and servicing equipment with an engine of the type covered by this warranty. Authorized service outlets will use only new or remanufactured parts or components furnished or approved by John Deere.

Authorized service locations can be found by using the dealer locator on www.johndeere.com, or by calling 1-800-JDENGINE (800-533-6446). At the time of requesting warranty service, the purchaser must be prepared to present evidence of the engine's delivery date.

John Deere reimburses authorized service outlets for limited travel expenses incurred in making warranty service repairs in non-John Deere applications when travel is actually performed. Contact your local authorized service dealer for current travel reimbursement limits. If distances and travel times are greater than reimbursed by John Deere, the service outlet will charge the purchaser for the difference.

Purchaser's Responsibilities

The cost of normal maintenance and depreciation.

Periodic cleaning of the Diesel Exhaust Filter.

Consequences of negligence, misuse, or accident involving the engine, or improper application, installation, or storage of the engine.

Consequences of service performed by someone other than a party authorized to perform warranty service, if such service, in John Deere's judgment, has adversely affected the performance or reliability of the engine.

Consequences of any modification or alteration of the engine not approved by John Deere, including, but not limited to, tampering with fuel and air delivery systems.

Consequences of fuels, lubricants or coolant that fails to meet the specifications and requirements listed in the Operator's Manual.

*"John Deere" means John Deere Power Systems with respect to users in the United States, John Deere Limited with respect to users in Canada, and Deere & Company or its subsidiary responsible for marketing John Deere equipment in other countries where the user is located.

DF2369E (29 July 2013)

Continued on next page

QU00075,0002006-19-07OCT14-1/2

Exhibit B - DF2369E New Off-Highway Engine Warranty

The effects of cooling system neglect as manifested in cylinder liner or block cavitation ("pitting", "erosion", "electrolysis").

Any premium for overtime labor requested by the purchaser.

Costs of transporting the engine or the equipment in which it is installed to and from the location at which the warranty service is performed, if such costs are in excess of the maximum amount payable to the service location were the warranty service performed at the engine's location.

Costs incurred in gaining access to the engine; i.e., overcoming physical barriers such as walls, fences, floors, decks or similar structures impeding access to the engine, rental of cranes or similar, or construction of ramps or lifts or protective structures for engine removal and reinstallation. Incidental travel costs including meals, lodging, and similar.

Service outlet costs incurred in solving or attempting to solve non-warrantable problems.

Services performed by a party other than an authorized John Deere engine service dealer, unless required by law.

Charges by dealers for initial engine start-up and inspection, deemed unnecessary by John Deere when operation and maintenance instructions supplied with the engine are followed.

Costs of interpretation or translation services.

Periodic cleaning of the Diesel Exhaust Filter.

John Deere will not be responsible for the cost of Exhaust Filter or Diesel Particulate Filter (DPF) cleaning unless:

- The need for cleaning resulted from the failure of a part that is covered by the engine's Standard Product Warranty or Extended Warranty, or
- The engine is located in California and the need for cleaning was caused by a failure covered under applicable CARB emissions regulations.

No Representations or Implied Warranty

Where permitted by law, neither John Deere nor any company affiliated with it makes any guarantees, warranties, conditions, representations or promises, express or implied, oral or written, as to the nonoccurrence of any defect or the quality or performance of its engines other than those set forth herein, and DOES NOT MAKE ANY IMPLIED WARRANTY OR CONDITIONS OF MERCHANTABILITY OR FITNESS otherwise provided for in the Uniform Commercial Code or required by any Sale of Goods Act or any other statute. This exclusion includes fundamental terms. In no event will a John Deere engine distributor or engine service dealer, John Deere equipment dealer, John Deere or any company affiliated with John Deere be liable for incidental or consequential damages or injuries including, but not limited to, loss of profits, loss of crops, rental of substitute equipment or other commercial loss, damage to the equipment in which the engine is installed or for damage suffered by purchaser as a result of fundamental breaches of contract or breach of fundamental terms, unless such damages or injuries are caused by the gross negligence or intentional acts of the foregoing parties.

Remedy Limitation

The remedies set forth in this warranty are the purchaser's exclusive remedies in connection with the performance of, or any breach of warranty, condition, or warranty in respect of new John Deere engines. In the event the above warranty fails to correct purchaser's performance problems caused by defects in workmanship and/or materials, purchaser's exclusive remedy shall be limited to payment by John Deere of actual damages in an amount not to exceed the cost of the engine.

No Seller's Warranty

No person or entity, other than John Deere, who sells the engine or product in which the engine has been installed makes any guaranty or warranty of its own on any engine warranted by John Deere unless it delivers to the purchaser a separate written guaranty certificate specifically guaranteeing the engine, in which case John Deere shall have no obligation to the purchaser. Neither original equipment manufacturers, engine or equipment distributors, engine or equipment dealers, nor any other person or entity, has any authority to make any representation or promise on behalf of John Deere or to modify the terms or limitations of this warranty in any way.

Additional Information

For additional information concerning the John Deere New Off-Highway Engine Warranty, see the Operator's Manual

DF2369E (29 July 2013)

OUO6078,0802DD8 -18-07OCT14-2/2



The People You Know. The Products You Trust.



A7 Tornado™

8.4 Cubic Yard Regenerative Air Street Sweeper

*Sweeper shown with optional equipment



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Fax: 916-922-1034

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Fax: 530-243-1447

1913 Nancita Circle
Placenta, CA 92870
Office: 714-528-8770
Fax: 714-528-8744

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- Schwarze Sweeps-in-Reverse
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Quality	Performance	Public Safety	Value	Customer Support

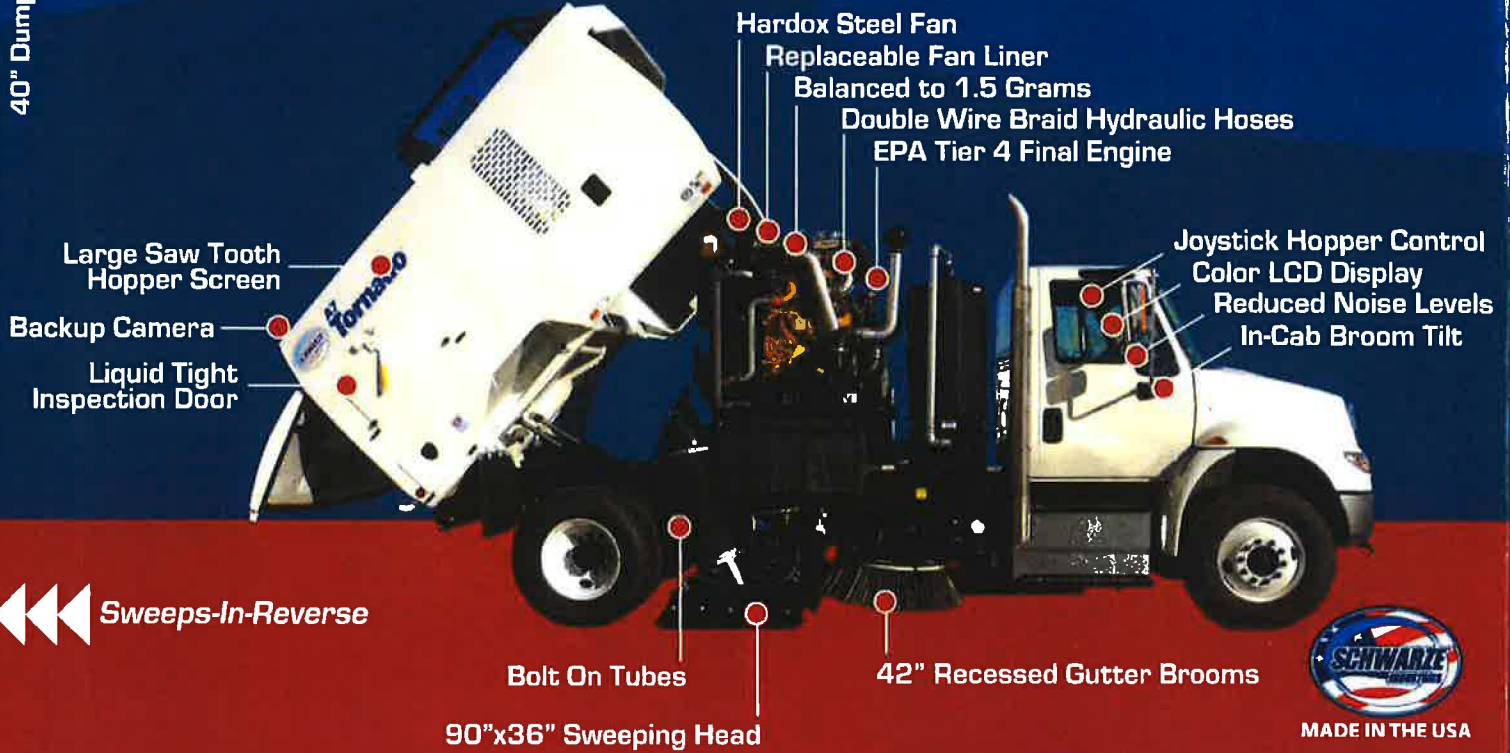
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↑ A7 Tornado™

8.4 Cubic Yard Regenerative Air Street Sweeper

40" Dump Height



◀◀ Sweeps-In-Reverse

Increased hopper screen surface area through saw-tooth design.

Easy to use backlit switches with text and icon labels.



Shielded broom motor reduces entanglement of strings & twine.

Also available on short wheel base M2 chassis.

MUST HAVE OPTIONS

INCREASED WATER

Extra 350 gallon polyethylene water tank

INCREASED SIDE BROOM USABILITY

Add The Gutter Broom Extension Override (Schwarze GEOSM)

GREATER DURABILITY

Choose the Stainless Steel Hopper option

AT YOUR FINGERTIPS

In-cab down pressure control

CLEANING IN TIGHT AREAS

8" auxiliary hand hose



Now with
TIER 4 FINAL
POWERFUL | GREEN

VALUE

We are dedicated to satisfying our customers by providing the most advanced training for their specific needs. Our training programs are designed to help operators of all skill levels learn the best operating practices for their Schwarze equipment.



PERFORMANCE

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology, but doesn't always have to be. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



QUALITY

In a Schwarze product, end user concerns like fuel efficiency, serviceability, durability, purchase cost, service cost, etc. are all taken into account. We also consider the needs and strive for ease of use and application optimization. It should be obvious, because when it comes to cost of ownership, quality pays.



PUBLIC SAFETY

No other name speaks safety louder than Schwarze. Protecting operators, those around them, and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.



CUSTOMER SUPPORT

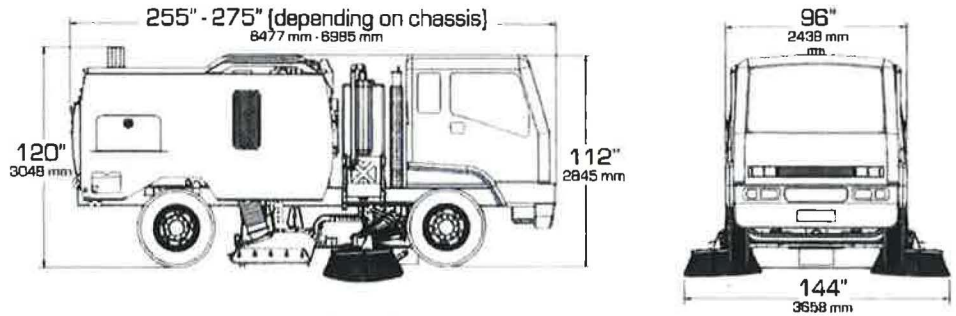
Being a Schwarze customer means having a complete set of services at your fingertips. Schwarze can offer you a long-term relationship, protect your revenue and provide a full range of customer solutions, delivered by passionate people. At Schwarze, we don't see effective service and support just as an added value to your purchase, but as an integral part of it.



Also Available from Schwarze Industries, Inc:



A7 Tornado



*TYPICAL MEASUREMENTS SHOWN. EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER

SWEEPING PATH

Pickup head only	90 in (2286 mm)
Head and 1 broom	117 in (2972 mm)
Head and 2 brooms	144 in (3658 mm)

CHASSIS

Mounts on various chassis to meet requirements

SWEEPER BODY

Construction	Welded 10-gauge stainless steel plate
Safety props	Lift spacers

STANDARD ENGINE

Model/type	4045T in-line 4 cylinder
Aspiration	Tier 4 Final turbo-charged diesel
Manufacturer	John Deere
Displacement	275 cu in. (4.5 L)
Brake horsepower	115 hp (86 kw) @ 2400 rpm
Torque	317 ft lb (430 Nm) @ 1500 rpm
Air cleaner	Centrifugal precleaner; dry type with safety element and restriction indicator
Oil filter	Full-flow/spin-on
Stroke	5 in (127 mm)
Bore	4.20 in (106 mm)
Compression ratio	19 to 1
Safety shutdown	Three-point automatic
Throttle control	Electronic

SWEEPER ELECTRICAL SYSTEM

Voltage	12 V
Engine alternator	90 amp

DUST CONTROL SYSTEM

Type	High pressure/low volume
Capacity	250 gallon (946 L)
Tank construction	Polyethylene filter; 50 mesh; cleanable
Fill diameter	2.5 in (63.5 mm)
Fill hose	25 ft (7620 mm)
Controls	Electric; in-cab
Nozzles	2 on each broom; 5 around suction head; 2 inside suction nozzle; 2 on front axle; 2 inside hopper
Water level gauge	In-cab

INSTRUMENTATION

Auxiliary engine	Flat panel display; tachometer; hourmeter; voltmeter; temperature gauge; oil pressure gauge; warning icons
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FAN SYSTEM

Type	Closed-face radial
Drive	Direct via 5 groove; banded power belt
Construction	Hardox steel
Balance	1.5 grams on 2 sides
Diameter	32.75 in (832 mm)
Housing lining	Bolt-in corded rubber
Mounting	2 regreasable sealed bearings
Vacuum enhancer	For heavy/light material; in-cab indicator

PICKUP HEAD

Type	Dual chambered full-width blast orifice
Operating direction	Forward and reverse
Suspension	Adjustable spring balanced
Length	90 in (2286 mm)
Pressure hose diam	14 in (355.6 mm)
Suction hose diam	14 in (355.6 mm)
Hose construction	3/8 in (9.5 mm) wire-reinforced molded rubber
Head area	3240 sq in (20903 sq cm)
Controls	Hydraulic raise and lower
Skids	Double wide tungsten carbide
Construction	Abrasion-resistant steel inlet and outlet transitions.

SIDE BROOMS

Type	Vertical steel digger
Location	Right; left; forward of pickup head
Diameter	42 in (1118 mm)
Drive	Hydraulic
Suspension	Torque-sensing spring
Wear adjustment	Automatic
Pressure	Manual
Speed	Variable; non-reversing
Segments	5 each side; disposable
Tilt angle adjustment	In-cab controls

DEBRIS HOPPER

Volumetric capacity	8.4 cu yd (6.4 cu m)
Usable Capacity	7.0 cu yd (5.4 cu m)
Dump angle	51 degrees
Floor angle	3 degrees
Lifting	Twin hydraulic cylinders
Hopper dump door	Hydraulic open, close, lock
Inspection doors	1 on each side, pressure vessel lock
Hopper dump height	40 in (1016 mm)
Debris screens	Sawtooth drop down

HYDRAULIC SYSTEM

Type	Dual output 2 section
Pump capacity	8 gpm @ 1800 rpm (30 lpm) per section for 16 gpm total
Drive	Direct gear
Maximum pressure	2750 psi (190 bar)
Reservoir	25 gal (94 L)
Filter	10 micron; spin on
Protection	Pressure relief valve
Controls	Electro-hydraulic

AUXILIARY HYDRAULIC SYSTEM

Type	Gear type; driven by electric motor
Function	Lower hopper; open/close hopper door; raise brooms and pickup head

PAINT

One coat of sealer/primer and two coats of Dupont imron elite polyurethane in standard white color

Note: Design and specifications subject to change without notice.

*Ask us about our optional:



Affiliates:



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1055 Jordan Road
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**MUNICIPAL
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ABOUT MME

At a Glance

Founded: 1992

Employees: 35+

Locations: 5

Average Years of Experience
With Product Lines: 17

Industries Served

Municipal:

- Cities
- Counties
- States
- Special Districts

Industry:

- Power
- Sanitary
- Water/Wastewater
- Trucking

Contractor:

- Sweeping
- Plumbing
- Excavation
- HD Vehicle Maintenance

Agriculture:

- Vineyards
- Farms

Truck/Bus/RV Maintenance

Corporate Executives

Helen Mackenzie Wheeler
President/CFO

James Wheeler
Vice President/Operations

Frank Wheeler
Vice President

Bob Egli
Vice President

Nancy Steffan
Corporate Secretary

We are dedicated to making a difference, one relationship at a time.

Corporate Overview

Municipal Maintenance Equipment, Inc. (MME) is a distributor for municipal and industrial equipment serving the western states of California, Nevada, and Utah from our four facilities in California and our facility in Nevada.

Headquartered in Sacramento, California, MME began with Tiger Mowers and vehicle lifts, that same year adding the Vac-Con and GO-4 lines, all of which we still represent to this day. In 1996 MME opened an office in Southern California, in 2005 MME opened an office in the northern part of California, in 2008 MME opened an office in the San Francisco Bay Area, and in 2018 MME opened an office in Las Vegas, Nevada. MME currently represents leading manufacturers of sewer, storm, and culvert cleaners, hydro-excavators, industrial vacuum loaders, flood trucks, pipeline closed circuit video inspection equipment, sweepers for streets, parking lots and pathways, tractor and truck mounted mowers, leaf loaders, material spreaders, asphalt patchers, parking enforcement vehicles, heavy duty vehicle lifts, garage equipment, and more. To see our full product listing, see Products or visit us at www.source-mme.com.

Our Mission

To provide outstanding customer service:

- By understanding our customer needs
- By responding to our customer's requests in a timely and professional manner

To maintain vendor relationships:

- By being committed to our key product lines
- By exceeding our sales goals and objectives

To find and maintain the best qualified employees:

- By treating each employee on our team with respect
- By equipping our employees with the tools to be successful
- By holding each employee accountable for their performance

To provide profits to our company:

- By purchasing and selling responsibly
- By controlling expenses
- By being consistent and fair in policies and business transactions



PRODUCT LINES

Products and services that are setting industry-wide standards for quality, durability and performance.

Sewer/Storm Drain/Culvert Maintenance

Combination Sewer and Storm Drain Cleaners:

- Single Engine or Dual Engine
- Fan or PD Blowers
- 5 to 16 Yard Debris
- Truck and Trailer Mounted

High Pressure Jetters/Flushers:

- Truck and Trailer Mounted

Specialized Cleaning Nozzles

- Rotating
- Chain Scrapers
- Cutters
- High Pressure

Hydro-Excavators

To handle the toughest and challenging excavating jobs

Industrial Vacuum Loaders

Wet and Dry Vacuum Capabilities

Sewer CCTV Inspection

- Van, Truck, and Trailer Mounted
- Mainline 5.5" to 72" diameter
- Portable Push Systems 0.6" to 16"
- Lateral Launch
- Custom Applications

Street Sweepers

- Regenerative Air
- Mechanical
- Pure Vacuum
- For Streets, Runways, Bike Paths, Parking Lots

Mowers, Heavy Duty Roadside

- Tractor or Truck Mounted
- Boom Mowers
- Side Mowers
- Flail or Rotary

Leaf Loaders

- Truck and Trailer Mount
- Collect leaves, litter, grass, debris

Material Spreaders

- Ice and Snow Control
- V-Box design for salt, sand, mixtures, and chips

Vehicle Lifts, Heavy Duty

- Mobile Column
- In-Ground Piston and Scissor
- Platform
- 2-Post
- 4-Post

Garage Equipment

- Wheel Dollies
- Transmission Stands
- Axle Stands

Parking Enforcement Vehicles

Gas and Electric Task Specific Vehicles

Asphalt Patchers

- Truck, Trailer, and Slip-In
- Crack sealers, melt kettles, tack trailers





PARTS, SERVICE & REPAIR CAPABILITIES

At your site or in our shops, MME is available 24/7 to service your equipment.

Parts

At MME we understand the importance of uptime. Therefore all of our facilities carry a large stock of OEM genuine parts and trained parts specialists with the right knowledge and experience to assist you. The right part is just a phone call away.



Field Service

24/7 On-Call Service

Factory-Trained, Experienced Technicians

Fully-Equipped Service Trucks

Preventive Maintenance (PM)

Contracts for all product lines we sell

Hydraulic, Mechanical, and Electrical Troubleshooting

Start-Up, Warranty Work and On-site Repair of:

- Pumps
- Hydraulics
- Electrical
- Stertil-Koni Vehicle Lifts
- ALI Certified Lift Inspectors 

In-House Full Service Repair

Factory-Trained, Experienced Technicians

Protect Your Investment with our Service Programs:

- Detailed Inspection
- Proper Maintenance

Repair and Rebuild Services on most makes and models of sewer cleaning, hydro-excavation equipment, and street sweepers

Oil & Filter Change

More than \$1M in OEM Parts

Call 888-484-9968 for 24/7 Service.

