



"We Service What We Sell"

December 19, 2016

Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053

ATTN: Misty A. Camardelle/Buyer

RE: Truck Mounted Combination Jet-Vacuum/Bid # 50-00118441

Dear Misty A. Camardelle,

Jack Doheny Companies Company, Inc. would like to thank you for the opportunity to submit Bid # 50-00118441 Truck Mounted Jet-Vacuum Truck PD to the Jefferson Parish East Bank Drainage Department. The proposed items have been designed and manufactured to exacting world class standards.

Jack Doheny Companies, Inc. is committed to exceptional customer services. We will stand behind your purchase with certified technicians and staff from our Northville, Michigan and Gonzales, Louisiana Service Centers. Additionally, our \$10.0 million parts inventory means you will not have to wait for parts or supplies.

Please review this proposal and feel free to call me if you have any questions or need any additional information.

Please keep us on your list for any further equipment or services requirements. Thanks!!

Sincerely,

Gary Dwane
JDC Regional Sales Representative
Louisiana Vactor Dealer
225-450-5645
garydwane@dohenycompanies.com



Bid Number 50-00118441

**PURCHASE OF TRUCK MOUNTED COMBINATION JET/VACUUM TRUCK
FOR THE JEFFERSON PARISH EAST BANK DRAINAGE DEPARTMENT**

BID DUE: DECEMBER 22, 2016 AT 2:00 PM

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053
Buyer Name: Misty A. Camardelle
Buyer Email: mcamardelle@jeffparish.net
Buyer Phone: 504-364-2683**



JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Brenda J. Campos
Director

CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES

******POSTPONING OPENING OF EB LOCATION TO JANUARY 9th, 2017******

In an effort to enhance services to our vendor community, the Purchasing Department will begin maintaining an EB Office location in the Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Suite 404, Jefferson, LA 70123. Beginning January 9, 2017 bidders may submit bid responses to this location, pending authorization in each bid package. **Bidders should carefully read and must respond accordingly per the requirements of the bid packages.** Please note that all bid openings will continue at 200 Derbigny Street, Suite 4400, Gretna, LA 70053.

Other Changes Continued:

- Affidavits (Non-Public Works Affidavit or Public Works Affidavit) – as you are aware, bidders are required to submit affidavits pursuant to LA public bid law and Jefferson Parish Code of Ordinances. Bidders must read each bid package to ensure compliance. Effective August 1st, ***affidavits are required with bid submission.*** While copies are acceptable to include with bid submission, original affidavits are required upon contract execution. Original affidavits are encouraged with bid submission.
- Current W9 Forms and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, a current W-9 form must be supplied upon contract execution, should you be awarded a contract and/or issued a purchase order.
- Upon contract execution, successful bidder must continue producing final insurance certificates per standard Jefferson Parish insurance requirements. Proof of insurance is required for bidding purposes. Bidders must read the insurance requirements attachment included in each bid package for specific instructions.

Bidders should reference the “Additional Requirements” section of the bid instructions and/or the “Important Notice to Bidders” included in the bid package for specific requirements to respond accordingly. These changes are pursuant Louisiana Public Bid Law more specifically, Act 406 of the 2016 Louisiana Legislative Regular Session. For the purposes of this communication, this change applies to Jefferson Parish Government bid solicitations only. For more information, please call Jefferson Parish Purchasing at 504-364-2678.

SPECIFICATIONS

TRUCK MOUNTED COMBINATION JET/VACUUM MACHINE

The intent of this specification is to define the minimum requirements of the **Parish of Jefferson** for a vacuum air conveying sewer cleaner. This unit is designed for and capable of simultaneous high pressure jetting and vacuuming for the removal of sand, grit, grease, sludge, stones and other materials from sanitary sewers, storm sewers, catch basins, pumping stations, and other facilities. The unit will have a self-contained water supply for use with a high pressure cleaner for breaking of blockages and removal of material contained therein. The unit will include an air conveying system capable of simultaneous removal of debris flushed to the manhole by the sewer cleaner system, or debris removal from catch basins, sumps, digesters, wet wells, etc. using the single chassis engine as the power source. The vacuum system will include a sealed body for storage and removal of the collected debris. The unit will be designed for ease of maintenance and be fully operational by one man and all controls will be located at an operator's station in front of the truck for convenience and safety. The combination machine will comply with all federal, state and local laws binding upon this type of equipment.

LOUISIANA DEALER'S LICENSE

In accordance with LA RS 32:1254 et seq and LA RS 38:2212.8, a Louisiana State Dealer's License is required. All bidders must provide a copy of their valid Louisiana Dealer's License with their bid submission. Failure to submit this copy will result in bid rejection.

TRUCK CAB & CHASSIS

State:

Chassis Make: Freightliner

Chassis Model: 114SD

GVWR: 60,000 lbs., minimum.

Wheelbase: 230 in., maximum.

Axles

Front axle shall be 20,000 lbs. minimum, Set Back Axle.

Rear axle shall be 40,000 lbs. minimum with heavy duty tandem axle housings and a ratio of 5.86.

Front & Rear oil seals shall be provided.

Front & Rear dust shields shall be provided

Suspension

Front suspension shall be 20,000 lbs. minimum, flat leaf style.

Front shock absorbers shall be supplied.

Rear suspension shall be 40,000 lbs. minimum with multi-leaf springs and 54" axle spacing.

Brake System – ABS

To ensure brake system performance, safety and service life of chassis, a WABCO 4S/4M ABS brake system will be supplied.

Front & rear service brakes shall be Q+ cast spider cam, double anchor, fabricated shoes.

Automatic slack adjusters shall be supplied on front and rear brakes.

Parking brake shall be spring set on rear axle and cab controlled.

Low air warning light and buzzer shall be supplied.

To provide clean, dry air to the chassis brake system, a brake line air dryer with shield, heater and integral reservoir will be provided.

A Cummins 18.7 CFM air compressor shall be supplied.

Steering

Complete power steering system, including pump, fluid reservoir and oil/air power steering cooler shall be provided.

The following gauges and controls shall be furnished:

- Oil pressure gauge
- Engine coolant temperature gauge
- Tachometer
- Odometer/trip/hour meter/voltage/diagnostic display
- Speedometer
- Primary and secondary air pressure gauges
- Transmission oil temperature gauge
- Fuel gauge with DEF gauge
- Key operated ignition switch

Engine

Engine shall be a four cycle diesel, turbo-charged and after-cooled.

Engine shall be rated at 370 HP @ 200 RPM, 2100 GOV RPM.

Engine shall have a torque rating of 1250 LB/FT. @ 1,400 RPM.

Engine shall be water cooled with antifreeze protection to -34 degrees Fahrenheit.

Engine shall have vertical muffler and exhaust pipe (11' 6") height and be equipped with a Diesel Particulate Filter & SCR system for 2008 EPA emission requirements.

Integral electronic protection shutdown system for low oil pressure and high water temperature shall be included.

Transmission

Transmission shall be an Allison 3000 RDS with PTO provision and water to oil cooler.

Transmission shall come installed with synthetic transmission fluid.

Engine Equipment

12 volt alternator shall have a minimum of 160 amp output rating.

Two (2) batteries shall be maintenance free and rated at 2,250 CCA with a master battery disconnect.

Air intake will be captured through the side of the hood with and directed to a firewall mounted Donaldson air cleaner.

A Horton Drivemaster on/off clutch engine fan shall be supplied with automatic controls.

A full flow/bypass oil filter shall be supplied.

Cab

Cab shall be conventional type.

Cab shall have high back air suspension driver seat with mechanical lumbar and integrated cushion extension and 3 point high visibility orange retractor seat belt.

Cab shall have 2 man tool box mid back non suspension passenger seat with headrest and 3-point high visibility retractor seat belt along with 2-point high visibility orange retractor center seat belt.

Seats shall be vinyl with vinyl inserts.

Sun visors shall be supplied on both sides.

Door armrests shall be supplied on both sides.

Heater, defroster and air conditioner shall be supplied.

Two speed electric intermittent windshield wipers with washers shall be supplied.

Dual bright finish West Coast type mirrors and 8" convex mirrors shall be supplied.

AM/FM radio with front & rear auxiliary inputs shall be supplied.

Cruise control shall be standard.

Fuel Tank

Minimum 100 gallon fuel tank shall supply chassis engine. Tank shall be manufactured from aluminum and located under LH side of the cab.

A fuel cooler mounted outside of rail as close as possible to tank shall be supplied.

SCR system tank shall be 6 gallons and located to the rear of the chassis fuel tank.

Lights

All lamps and reflectors shall comply with federal regulations.

Four-way hazard warning lights shall be supplied.

LED marker lights shall be supplied.

Daytime running lights (low beam only) shall be supplied.

Halogen composite headlamps with bright bezels shall be supplied.

Frame

Heavy duty frame shall have a minimum RBM of 2,590,000 lbf/in, per rail.

Frame Section Modulus of 21.6 cu. in. minimum, per rail.

Frame shall be tensile steel, 120,000 psi, minimum.

Steel front & rear bumpers shall be supplied

Wheels & Tires

Front wheel rims shall be 5-hand steel disc type 22.5 X 12.25.

Rear wheel rims shall be 2-hand steel disc type 22.5 X 8.25.

Front tires: radial tires; type 425/65R22.5-20 ply rated.

Rear tires: radial tires; type M/S 11R22.5-14 ply rated.

Warranty

The basic truck chassis & drive train shall be warranted by the manufacturer for two (2) years, unlimited miles, unless otherwise specified.

COMBINATION JET/VACUUM BODY

DEBRIS BODY

A dual radius designed vessel using high strength ASTM A572 grade 50 steel, 1/4" upper and lower radius section, 1/4" sidewalls, front bulkhead and 3/8" rear bulkhead shall be provided.

A rear door constructed of 1/2" high strength steel ASTM A572 grade 50 steel shall be provided.

The debris body shall have a volumetric capacity of 8 cubic yards, minimum.

The rear door shall hydraulically lock/unlock, raise and lower using one hydraulic cylinder to perform the function. The cylinder shall be equipped with a check valve for safety.

Tailgate locking wedges shall have a reverse bevel to maintain a mechanical lock if hydraulic pressure should be lost for any reason.

A replaceable, reversible neoprene seal shall be supplied for the tailgate.

Dumping and door controls will be located forward of the debris body on the driver's side for safety, so operator does not have to cross in front or behind vehicle at dumpsite and so driver will not be subject to debris from dumping.

An external, greaseable, float type debris level indicator with a stainless steel ball shall be provided.

Debris inlet tube shall enter at top, front of tank and continue into tank and extend 3/4 of the specified tank length. Airflow shall then exit at the front of tank for best possible material separation.

Debris shall hit bolted on deflector plate at top of tank rather than rear bulkhead (door) to prevent premature wear.

A float type automatic vacuum shutdown system with a stainless steel ball, housed in a carbon steel cage shall be provided. Systems requiring switches to accomplish this are unacceptable.

Body door hinges and pins shall be bolted to enable shim adjustment with grease fittings. Lock receivers shall also be shimmed for adjustment as seal wears.

Tailgate will hydraulically open, close & lock.

A decant system will be provided consisting of a 6" butterfly valve mounted at lowest point of rear door with 20' x 6" lay flat hose with rack.

Internal carbon steel decant screens, hinged to swing away for easy cleaning, shall be supplied; one for decant and one for sludge pump (two total).

Debris tank shall also be equipped with 4" sludge system capable of pumping 710 GPM @ 10' head while vacuuming if needed or independently. A 3" ball valve and male cam lock will be provided on outlet. System shall include a 4" valve on sludge pump inlet, to be brass slam type.

A 3" decant line plumbed to the front of the unit with ball valve at front bumper shall be supplied. Ball valve shall be equipped with male cam lock and include a jumper hose at rear with cam locks to hook pump to decant line at rear.

A safety body prop shall be supplied to secure body during repairs. It shall be remotely operated so that the operator does not have to get under the debris tank while engaging the prop.

An external rear door safety prop shall be provided as a secondary device to hold the door open for cleaning of debris body or inspection.

The debris body will be equipped with a full flow internal tank flusher system consisting of a minimum of seven (7) stainless steel nozzles mounted in a flush bar at the front bottom bulkhead of the debris body and sized to utilize the full capacity of the primary water pump to clean the debris body. Manifold shall be external and shall not encroach on inside of debris body.

A high pressure ball valve will be installed at the high pressure manifold to control water to the tank flush, and plumbed from manifold to tank flush.

A bolt-on carbon steel splash shield around sides and bottom of tailgate shall be supplied.

The debris body and water tanks shall be affixed on an independent frame, separate from the chassis and power frame.

Debris tank shall be mounted via a 3 point mounting system to allow flexing.

A manifold with all lube points plumbed so tailgate can be greased from ground shall be supplied.

Ground level lube provision for float level indicator shall be supplied.

HOIST

The hoist cylinder shall be a single post type with NTEA performance range. Double-acting cylinder pins must be removable with retaining bolts. It shall provide a minimum lifting capacity of 56,000 lbs. and a minimum dump angle of 50 degrees. The hoist cylinder shall have safety check valves to prevent collapse from hydraulic failure.

WATER TANKS

Dual water tanks shall have a combined capacity of 1000 U. S. gallons, minimum, and shall be internally baffled for safety.

Tanks shall be constructed of aluminum or stainless steel only. The shell and baffles shall be ¼" thick, minimum and the end plates shall be at least ½" thick.

Each tank will be equipped with 2" ball valve low point drains, internal baffles and a six (6) inch crossover tube between tanks for quick and level filling.

Water tanks will not rise with the debris body while dumping.

Water-tanks will not share a common wall with debris tank and will be easily removed in the event of replacement or repair.

Tanks will be located above chassis frame rails to provide a flooded inlet to the water pump and protection from road damage and off-road uses and for ease of service to drive line components.

Unit will have an anti-siphon device with 4" air gap and fill hose storage rack. Water fill connection will be on passenger side and requires a 2 ½" y- strainer.

Unit shall have an electronic water level indicator located at front operator control panel. A water level sight tube located on the passenger-side water tank shall also be included.

Water tanks shall have a lifetime warranty against rust, cracking, material and workmanship.

HIGH PRESSURE WATER SYSTEM

Water pump will produce 87 GPM @ 2000 PSI, minimum.

Pump will be a triplex, plunger-style, smooth-flow design. Pumps that require accumulators are unacceptable.

Starting from high pressure side of water pump, 1" I.D. plumbing will be used up to hose reel, including water manifold, control valve and swivels.

Swivel must be designed so it can be tightened as it wears and be rebuilt.

The water pump shall be driven from chassis engine via transmission, heavy-duty OMSI transfer case and hydrostatic drive. Driving the pump off of the front of the chassis engine crankshaft is unacceptable.

Water pump speed shall be fully adjustable without changing the engine RPM. Controls for starting and stopping the water pump and varying the flow and pressure shall be at the control panel. An integral oil to water heat exchanger with a 143,000 BTU per hour rating shall be included.

Water pump shall run independently from vacuum pump.

Will be equipped with full flow adjustable pressure regulator and include a strainer on the water pump inlet.

Pump shall be equipped with drain valve on the low-pressure side at the bottom, center of the pump.

Water pump and vacuum system shall be able to simultaneously operate in continuous duty at maximum water pressure and flow while achieving maximum vacuum.

Pressure and flow controls shall be located at the operator's station.

Water pump shall be located in a position so it has a positive feed from water tanks at all times, regardless of the water tank level. Pump shall be located so a mechanic does not have to remove pump from truck to repair when necessary and there shall be no obstructions in front of pump for ease of access.

The entire high pressure water system shall have an air purge system to dewater all plumbing for winterization. The air shall be supplied by chassis air system that is isolated by a high pressure ball valve and check valve.

Unit will have a spring retractable handgun hose reel with 50' of 1/2" hose.

A hydro excavator package shall be included and will be frame mounted. It shall operate off of the main water pump rated at 15-20gpm @ 2000 psi. Water pump will be hydrostatically driven with an on/off control. It shall include an auto-rewinding spring loaded hose reel with 50' of 1/2" hose and a single pistol-grip style hand gun w/ lance and nozzle rated for system performance.

VACUUM SYSTEM

The blower shall be a Dresser/Roots 8X24.

The vacuum system shall be provided by a positive displacement, rotary lobe-type blower capable of 4000 CFM inlet volume and maximum 18" Hg.

The blower shall have a load rating of 8X24 4000CFM@18"Hg (245 H₂O) 204HP@2470RPM.

It shall have dual vacuum relief valves with one set at 17.5" Hg and one set at 18" Hg.

The vacuum system shall have an air operated 4" vacuum relief valve to vent ambient air to the blower intake in order to relieve vacuum in the body and suction tubes/hoses and will be controlled at control panel and on remote, wireless pendant.

A means of starting, stopping and varying the vacuum suction from the operator's station shall be provided.

The blower shall be driven from chassis engine via transmission and heavy duty OMSI transfer case and direct drive via drive shaft.

The transfer case will have a driver's side, remote mounted fill port and sight glass.

The cyclone separator shall be built out of high strength ASTM A572 grade 50 steel, capable of separating material down to 50 micron particles or coarser from air stream. The cyclone shall taper down to a dropout box with a clean out hatch. Dropout box shall have a two (2) inch drain with ball valve mounted at bottom of box.

A stainless steel removable strainer basket shall be installed before blower inlet.

Unit shall have non-skid steps with handgrips allowing safe passage from ground level to a work platform at top of unit.

The blower shall contain a high efficiency exhaust silencer with an aluminum rain cap. It will have a built-in tube rack that will hold four (4) 8" diameter suction tubes for a total of 24' of tubes with positive lock tube retainer in lieu of bungee straps.

Unit shall also include an additional rear door tube rack that holds (two) tubes, with positive lock tube retainer system in lieu of bungee straps.

BOOM

Boom shall be designed for front-end operation with 8" ID pick-up hose mounted and stored at front bumper. Need or use of support rod for boom storage is unacceptable.

Hydraulically powered up/down, left/right, and in/out shall be accomplished with a single joy stick.

Unit will be equipped with a true tube in a tube boom telescoping section with a travel of eight (8) feet six (6) inches.

Boom shall have a total extended length of 24 feet 11 inches from centerline of the unit and a boom coverage area of 552 square feet. **Submit diagram.**

Boom will have a lifting capacity of 1000 lbs. with dual hydraulic lift cylinders. It will have a lifting capacity of 550lbs, minimum, when boom is fully extended.

Boom shall swing 90 degrees to each side of the truck via a hydraulic driven worm gear. A cylinder rotated boom is unacceptable.

Boom rotation and extension shall be greaseable remotely from ground level.

Boom shall remain stationary and not rise with debris body.

All connections between debris body and vacuum system will be self-aligning.

Boom with steel elbow must be able to extended and retract without affecting the length of the pickup hose. Rubber hose in place of steel elbow is unacceptable.

Extra heavy duty boom elbow shall have a preformed C channel welded to the outside radius of the elbow.

A remote manifold with all lube points plumbed so the boom can be greased from ground level shall be supplied.

ELECTRICAL SYSTEM

The entire electrical system shall be sealed to IP66 ratings that exceed NEMA four standards.

REEL AND OPERATOR STATION

The front mounted reel shall have the ability to articulate 230 degrees across the front of the unit, with a capacity of 800 feet of 1" hose. The operator will easily be able to rotate and lock the reel at any angle desired within the rotation.

The hose reel will be hydraulically powered in both directions by a hydraulic motor coupled to a planetary gearbox. Chain and sprockets are unacceptable due to excessive wear and maintenance.

All operations shall be routed through a Can-Bus control system. Hose reel control valve shall have a speed control device to regulate the rotational speed of the reel in both directions.

Hose reel will rotate on a turntable slewing bearing with a friction brake that can be applied in any rotated position. Gears mounted on hose reel bearing are not acceptable due to missed positions when teeth and pawl don't line up.

Hose reel brake band must be adjustable with turn buckle and be applied by an air cylinder.

Hose reel must be mounted in the center of the chassis frame rails and not rotate out of centerline of frame rails into traffic for safety. The need for / use of an outrigger leg for support is unacceptable.

The hose reel shall tilt forward for access to the truck engine via a hydraulic cylinder powered by an electric power pack. Electric power pack shall run independently from main system. Power pack shall operate whether truck engine is running or not.

Unit shall have a manual dual roller telescoping level wind on hose reel.

Hose reel control panel will be easily removable and able to be mounted to either side of the reel, giving the operator the ability to always be positioned away from traffic or any other safety hazard.

Hose reel control panel shall have a remote shift (hot shift) for transfer case to engage and disengage the blower from the hose reel control panel. Safety switches shall be installed on the transfer case.

A digital footage counter on center shaft of reel will be installed.

CONTROLS and GAUGES

Chassis Engine Tachometer/Hour Meter on LCD Display
Vacuum Gauge on Color LCD Display

Water Pressure Gauge on LCD Display
Water Pump Hour Meter on LCD Display
Vacuum Pump Hour Meter on LCD Display
Hydraulic Pressure Gauge
Truck Engine Throttle - Electrically Controlled
Water Pump Engage/Hydraulic Flow Control
Blower Engage/Disengage
Electric Throttle Safety Return to Idle Switch
Reel Tilt
On/Off Water Pressure Valve
Hose Reel Direction and Speed Control
Single Boom Control Joystick to Control All Boom Functions
Single Reel Control Joystick for Direction and Speed Control
Remote Pendant Push Button Control
Hose Reel Articulation Brake Valve
Electric Backup Alarm
Vacuum Relief
Boom Work Lights
Low Water Warning Light and Alarm
High Debris Level Indicator Hooked to Warning Light and Vacuum Relief

HYDRAULIC SYSTEM

Pump shall be transfer case-mounted piston pump with test ports for troubleshooting and shall produce 18 GPM at 2000 PSI, 1800 RPM, minimum.

The hydraulic reservoir shall be a modular component with a minimum of 40 gallons capacity and will have a level sight-eye and temperature gauge. Ten (10) microns filters shall be installed on both the suction and return lines and shutoff valves shall be installed on suction lines.

Unit shall be equipped with emergency 12 volt dc electric hydraulic powerpack to bypass system so boom, body and hose reel can be moved in the event of engine or hydraulic failure. Manual hand pump systems are not acceptable.

LIGHTING

LED D.O.T. Lighting includes stop, tail, turn and backup lights.

Boom will be equipped with two work lights.

Rear mounted 360 degree, super LED strobe light.

Side mirror mounted LED Strobe lights- one on left side, one on right side.

Rear mounted traffic advisor-bar type LED Whelen TACF85.

TOOLBOXES / ENCLOSURES

Unit shall have one lockable steel tool box, 18"x18"x36" on passenger side.

Unit shall have one lockable steel tool box, 18"x18"x36" on driver side.

Unit shall have one behind-cab tool cabinet for long-handled tool storage.

Unit shall have one traffic cone holder.

REQUIRED ACCESSORIES

Unit will be supplied with 24 feet of 8' aluminum tubing, including a catch basin tip.

600 feet of 1" x 2500-PSI sewer hose will be installed on the reel.

Clear Lexan type protective shield shall be installed on the hose reel.

One inch radial, dual degree nozzle

One inch flat bottom culvert cleaning nozzle with bottom oriented rear jets

Manhole bottom hose guide- tiger tail

25' x 2-1/2" fill hose

Hydrant wrench

Manhole hook

Emergency road kit triangles & 5lbs fire extinguisher

Electric back up alarm

Backup camera

Lube chart

Fenders with mud flaps

Front & rear tow hooks

One set of Operation & Maintenance manuals

One set of chassis Parts and Service manuals

MOUNTING

The unit will be factory mounted on the specified chassis and will not exceed a height of twelve (12) feet. No part of the unit will extend beyond specified height while traveling.

TRAINING

Product training will be provided upon delivery of new unit. The purpose shall be to train operating and maintenance personnel on proper O & M procedures.

PAINT

The unit will be powder coated singular color to match the owner's color specification.

WARRANTY

The unit will have a minimum of one-year warranty against defects in material and workmanship. The warranty will cover both parts and labor. All other warranties that exceed one year shall apply.

EXCEPTIONS / DEVIATIONS

Bidder shall fully explain every variance, exception and or deviation to the bid specification.
Additional sheets/lines may be added if required.

SEE ATTACHED

DATE: 12/07/2016

INVITATION TO BID
THIS IS NOT AN ORDER

BID NO.: 50-00118441

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

Page: 1

BUYER: MCamardelle@jeffparish.net

BIDS WILL BE RECEIVED IN THE PURCHASING DEPARTMENT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETN, LA 70053 UNTIL 2:00 PM, 12/22/2016 AND PUBLICLY OPENED THEREAFTER.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

If the bid exceeds \$30,000.00 and the company is duly authorized to do business in the state of Louisiana, a corporate resolution must be submitted with the bid or the person signing the bid documents must be listed on the Louisiana Secretary of State's website as an officer of the corporation, unless bidder has otherwise complied with LSA-R.S. 38:2212 (B)(5). If the bid is in excess of \$30,000 and bidder is registered out of the state of Louisiana, a corporate resolution must be submitted with the bid, unless bidder has otherwise complied with LSA-R.S. 38:2212 (B)(5). Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. Bids submitted by Owner or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. This documentation must be submitted with the bid. Failure to do so will result in bid rejection.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. SPLIT AWARDS MADE TO SEVERAL VENDORS WILL ONLY BE GRANTED TO THOSE DEEMED RESPONSIVE AND RESPONSIBLE.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

Preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA-R.S.38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online.

This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit the Purchasing Department webpage at <http://purchasing.jeffparish.net> to register and review Jefferson Parish solicitations.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE
CORRESPONDING INSTRUCTIONS BELOW.

13, 15

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(l), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise stated in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached "insurance requirements" sheet. All bidders must comply with the instructions in this sheet. Failure to comply will cause bid to be rejected.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations or warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required** in conformity with the provisions contained in LSA - RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.
17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment"). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owned on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session - Louisiana Revised Statute 47:301(8)(c). Owner will furnish contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

DATE: 12/07/2016

Page: 5

BID NO.: 50-00118441

BID FORM
Non Public Works

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO ☒

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF 12/2017

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

120-150 days

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) L-2016-00458

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Jack Doheny Companies, Inc.

ADDRESS: 777 Doheny Drive, P.O. Box 609

CITY, STATE: Northville, Michigan ZIP: 48167

TELEPHONE: (248) 349-0904 FAX: (248) 349-2774

EMAIL ADDRESS: InTeam@dohenycompanies.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: _____

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 359,544.10

AUTHORIZED
SIGNATURE: [Signature]

Richard Hughes

Printed Name

TITLE: Executive Vice President

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

DATE: 12/07/2016

INVITATION TO BID FROM JEFFERSON PARISH - continued

Page 6

BID NO.: 50-00118441

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	EA	<p>PURCHASE TRUCK MOUNTED COMBINATION JET/VACUUM TRUCK FOR THE JEFFERSON PARISH EAST BANK DRAINAGE DEPARTMENT</p> <p>0010 Truck Mounted Combination Jet/Vacuum Truck MAKE: FREIGHTLINER MODEL: AJV-810</p> <p>SEE SPECIFICATION ATTACHED</p> <p>Truck is for Eastbank Drainage</p>	\$359,544.10	\$359,544.10

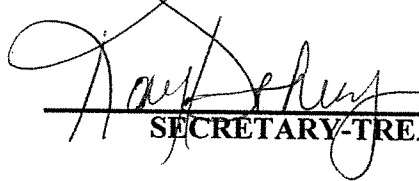
CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF
Jack Doheny Companies, Inc.
INCORPORATED.

AT THE MEETING OF DIRECTORS OF Jack Doheny Companies, Inc.
INCORPORATED, DULY NOTICED AND HELD ON 12/20/16,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT Richard Hughes, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.



SECRETARY-TREASURER

12/20/16

DATE

Non-Public Works Bid Affidavit Instructions

- Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.
- Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.
- Affidavit must be notarized or the affidavit will not be accepted.
- Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.
- Affiant **MUST** select either A or B when required or the affidavit will not be accepted.
- Affiants who select choice A must include an attachment or the affidavit will not be accepted.
- If both choice A and B are selected, the affidavit will not be accepted.
- Affidavit marked N/A will not be accepted.
- It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.

Instruction sheet may be omitted when submitting the affidavit

Non-Public Works Bid**AFFIDAVIT****STATE OF** _____**PARISH/COUNTY OF** _____

BEFORE ME, the undersigned authority, personally came and appeared: _____
_____, (Affiant) who after being by me duly sworn, deposed and said that
he/she is the fully authorized _____ of _____ (Entity),
the party who submitted a bid in response to Bid Number _____, to the Parish of
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B ☒ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

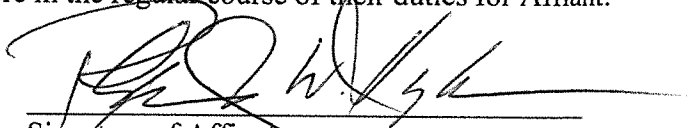
Choice B ✓ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



 Signature of Affiant

Richard Hughes
 Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE _____ DAY OF _____, 20__.

 Notary Public

 Printed Name of Notary

 Notary/Bar Roll Number

My commission expires _____.

EXCEPTIONS / DEVIATIONS**Fuel Tank**

Fuel tank will be 90 gallons

DEBRIS BODY

The debris storage body shall be constructed with a minimum 3/16" corrosion and abrasion resistant Ex-Ten steel.

Dumping and door controls are located forward of the debris body on the curb side for safety, so the operator is shielded from traffic during most street sewer cleaning requirements. The operator or driver will not be subject to debris while dumping.

Debris body will have 450 GPM, 3" submersible trash pump, internally mounted in the forward body wall, with 2 1/2" x 25' lay-flat hose, hose storage basket and 3" shutoff lever gate valve. System will be turned on/off with selector valve at curbside controls.

Debris body will have a body flush out system with a fan-type spray nozzle located in the front wall of the debris body to aid in the flushing of heavy debris. The nozzle shall also utilize (2) spray nozzles to flush the front most area of the debris body. System will produce a flow of 80 - 100GPM. Control valve will be on the curb side of the unit.

Vacuum System

Transfer case sight glass with be passenger side

Water Tanks

Water Tanks - 10 year warranty

High Pressure Water System

Jet rodder pump is a dual action single piston with an accumulator set up for a continuous smooth or either a pulsation to assist the water while cleaning plugged and inclined sewer cleaning applications.

Boom

Boom will rotate 180 degrees and shall be operated by an electric over hydraulic system. Lift and swing movements will be actuated by hydraulic cylinders.

Reel and Operator Station

The hose and reel is driven by adjustable gear reduction chain and sprocket assembly

The front entire reel assembly will rotate 270 degrees on a large diameter ball bearing.

Mounted hose reel will telescope 15" forward down centerline of truck allowing access to chassis engine.

Hose reel will include a dual locking device to positively lock reel in any position across operating range.

The hose reel will rotate about the reel assembly centerline so the reel will never extend beyond the truck width for safety.

All front operator controls will be accessible while operating either front or rear side of reel assembly.

Hydraulic System

Manual hand pump system

Toolboxes

Tool storage provided will be:

18" x 24" x 24" Aluminum Toolbox Mounted street side

48" x 22" x 24" Aluminum Toolbox Mounted curb side

Four Long Handle Tool Storage Locations behind Cab

14" x 36" x 96" Aluminum Behind the cab toolbox will be provided

License No. L - 2016-00458

2016-2018

Not Transferable
Valid Only at Address Below

Louisiana Motor Vehicle Commission

This Certifies that

Jack Doheny Companies, Inc.
38435 North Robert Wilson Road
Gonzales, LA 70737

is duly licensed as a

Motor Vehicle Lessor

For the period ending May 31, 2018, unless license is sooner revoked.

In Witness whereof, LOUISIANA MOTOR VEHICLE COMMISSION, under and by virtue of the authority vested in it by the laws of the State of Louisiana, has caused this license to be issued with its seal imprinted hereon.

Dated June 27, 2016
Signed, Sealed and Attested

LOUISIANA MOTOR VEHICLE COMMISSION



[Signature]
Executive Director

[Signature]
Chairman

(To be prominently displayed in place of business)

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

Print or type See Specific Instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Jack Doheny Companies, Inc.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶	
	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) 5 Exemption from FATCA reporting code (if any) <i>(Applies to accounts maintained outside the U.S.)</i>	
	5 Address (number, street, and apt. or suite no.) PO Box 609	Requester's name and address (optional)
	6 City, state, and ZIP code Northville, MI 48167-0609	
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

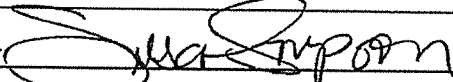
Social security number								
			-					
or								
Employer identification number								
3	8	-	2	0	2	6	9	7

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶ 	Date ▶ 1/28/16
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

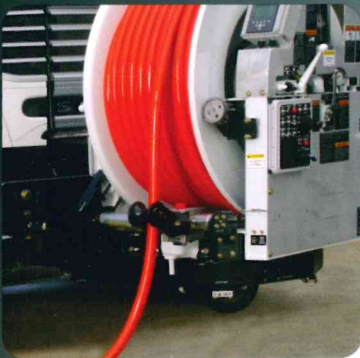
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

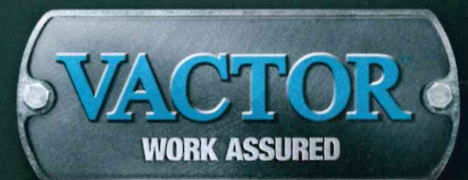
By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.



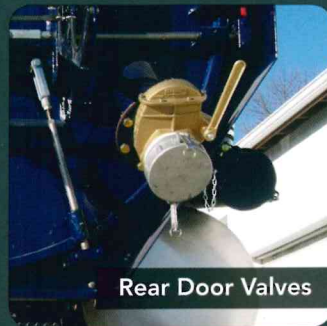
Performance Upgrades

Equipment and Retrofit Options



EQUIPMENT AND RETROFIT OPTIONS

Make the most of your machine... add more control.



Rear Door Valves



Accumulator



3" Y-Strainer



Belly Pack Control

REAR DOOR VALVES – Decant liquids or dump debris with more control. (Available in butterfly and knife designs; 6", 8" and 10" sizes; standard- or air-actuated versions.)

ACCUMULATOR – Choose smooth water flow for routine cleaning or switch to "jackhammer action" to open blocked lines. (Available in single- and dual-accumulator versions.)

3" Y-STRAINER AT PUMP – Located ahead of the JetRodder® pump water intake, this simple device provides excellent low pressure filtering to protect a critical component.

BELLY PACK CONTROL – This easy-to-use wireless remote operates the hose reel and boom functions, and includes an emergency-stop feature for site safety.

TELESCOPING/ROTATING HOSE REEL – Use the reel-mounted controls to move forward up to 18", then pivot up to 270 degrees to position the hose exactly where you need it.

SPLASH SHIELD – Keep debris away from the truck, bumper and taillights, and direct the flow into the pit or roll-off container.

AIR PURGE – Use the truck chassis air system to purge, protect and winterize the water lines during site standby, travel and storage.

DIGITAL HOSE COUNTER – Start using the weather-sealed digital counter and stop guessing where the sewer line blockage or break is located.



Telescoping/Rotating Hose Reel

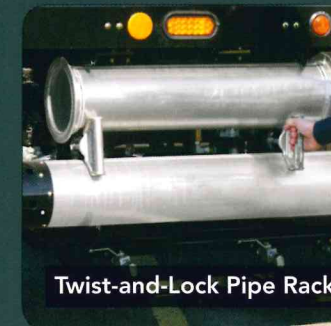


Splash Shield

Make the most of your machine... add more safety.



Twist-and-Lock Pipe Rack



Twist-and-Lock Pipe Rack



Safety Cone Storage



Camera System

TWIST-AND-LOCK PIPE RACK – Safe storage and quick retrieval of aluminum pipes or Higbee tubes from fold-down racks at ground-level. (Available in curb-side, street-side and rear-door versions.)

DEBRIS BODY WASHOUT – Send water to a high-pressure nozzle mounted at the forward end of the debris body and safely clean the interior surface. (Available in 60 and 80/100 gpm versions.)

SAFETY CONE STORAGE – Quickly establish a work site buffer zone by keeping safety cones in an accessible, bumper-mounted storage rack. (Available in upright or inverted versions.)

CAMERA SYSTEM – Keep a watchful eye on pedestrians, property and traffic with a high-resolution, color LCD monitor. (Available in front-, side- and/or rear-mount versions.)

Make the most of your machine... add more reach.



Telescopic Boom



Joystick Boom Control



Handgun Hose Reel



Pinch Roller

TELESCOPIC BOOM – With an 8-foot extension and 180-degree rotation, hard-to-reach areas have never been more accessible.

REINFORCED ELBOW – Some materials wear out the boom elbow faster than others, but you can delay this inevitable replacement by installing the steel-reinforced version.

JOYSTICK BOOM CONTROL – An existing wiring harness (after 2002) makes it easy to add this simple up, down, left and right boom control.

HANDGUN HOSE REEL – A spring-activated, retractable reel with 50' hose and spray gun makes it convenient to clean tools, boots and spills.

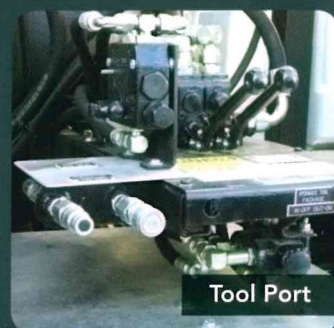
AUTOMATIC HOSE LEVEL WIND GUIDE – Stop wrestling with the hose, let the wind guide evenly spool the hose as the reel retrieves the hose.

PINCH ROLLER – Maintain even tension on the rodder hose and prevent it from unraveling while running it into the sewer line or winding it back on the reel.

Make the most of your machine... add more applications.



Hydroexcavation



Tool Port



Vanguard System



F.O.G. Buster System

HYDROEXCAVATION KIT – Use the existing water and vacuum power to safely locate and excavate buried utilities without disruption or damage.

TOOL PORT – Tap the existing hydraulic system with a port for power tools and eliminate the need for an additional truck and crew. (Available for Class 3 tools, 9-12 gpm.)

VANGUARD SYSTEM™ – This anti-bacterial wash system reduces operator contamination risks and related health consequences, right at the work site.

F.O.G. BUSTER SYSTEM – Emulsify the fat, oil and grease so it flows downstream and clean the entire pipe wall surface to slow future build-up in the line.

JOINED TANKS – Add more onboard water capacity for jetting operations by integrating the debris tank with the water tanks. (Debris tank must be clean and vacuum turned off.)

VAPOROOTER® SYSTEM – A chemical root control application can often be a more cost-effective way to eliminate pipeline roots and keep them from coming back for years.

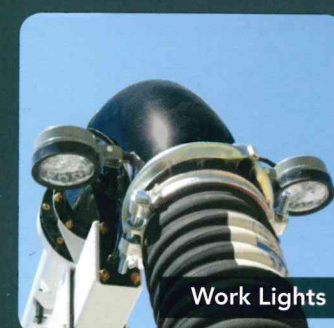


Joined Tanks

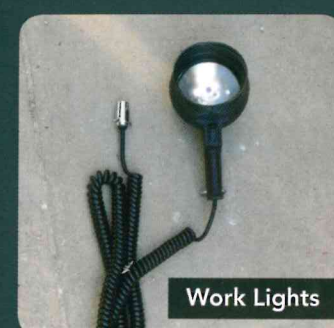


Vaporooter System

Make the most of your machine... add more productivity.



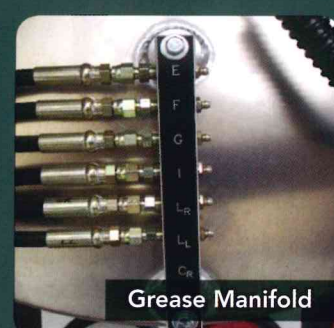
Work Lights



Work Lights



Boom Storage Post



Grease Manifold

WORK LIGHTS – The boom-mounted, hand-held and rear-door lighting options, improve visibility during poor weather and evening operations.

BOOM STORAGE POST – Safely store and secure the boom, right near the work, with an attachment post mounted to the front bumper.

GREASE MANIFOLD – Make routine maintenance easier, faster and safer by installing fixed hose connections at all the grease points.

TOOLBOXES – Having everything you need, when you need it, means utilizing every bit of accessible storage space.

TRASH PUMP – Unload liquids, even while vacuuming, with an interior- or exterior-mounted, hydraulically driven pump. (Available in side-to-hose and side-to-front discharge versions.)

COLD WEATHER RECIRCULATION – Protect water lines from freezing temperature when traveling between job sites. (Requires hydraulic system modifications.)



Toolboxes



Trash Pump

Make the most of your machine... add the features you need to match the work you do!

This brochure describes retrofit options that are available for most Vactor models. You will be asked to provide a Vactor serial number to determine if there are any special retrofit requirements. Installation of retrofit options by a factory-authorized Vactor dealer is recommended.

Performance Upgrades

3" Y-Strainer at Pump	Pinch Roller
Accumulator	Rear Door Valve – Butterfly
Air Purge	Rear Door Valve – Knife
Automatic Hose Level Wind Guide	Reinforced Elbow
Belly Pack Control	Safety Cone Storage
Boom Storage Post	Splash Shield
Camera System	Telescopic Boom
Cold Weather Recirculation	Telescoping/Rotating Hose Reel
Cyclone Separator*	Toolboxes
Debris Body Washout	Tool Port
Digital Hose Counter	Traffic Control Arrows – Rear*
DOT Safety Lighting*	Trash Pump
F.O.G. Buster System	Twist-and-Lock Pipe Rack – Rear
Grease Manifold	Twist-and-Lock Pipe Rack – Side
Handgun Hose Reel	Vacuum Relief System*
Hydraulic Shut-off Valves*	Vanguard System
Hydroexcavation Kit	Vaporooter System
Joined Tanks	Work Light – Boom Mount
Joystick Boom Control	Work Light – Handheld
Low Water Light and Alarm*	Work Light – Rear Mount

For more information about Performance Upgrades, visit www.vactor.com, or contact your local Vactor dealer.



www.vactor.com

Vactor and JetRodder are registered trademarks of Vactor Manufacturing
Vanguard System is a trademark of Hydro Products Corp. USA.
Vaporooter is a trademark of Douglas Products.
Effective 6/13 Part number 00129 *Options not shown

A Closer Look.

VACTOR *Plus* **2100**



IntelliView™ Electronic System

Gathering all functions into one easy-to-use, centrally located system, IntelliView saves time and money and keeps your workers and equipment safe.



Easy to Use.

Since it's similar to command modules found with other types of machinery, IntelliView is familiar and intuitive even to first-time users. The IntelliView screen offers image-based menu options and easy-to-read text. And to make it even easier, the command module screens can be customized to suit the operator's preferences.

Even More Efficient.

Not only does IntelliView display readings like system pressures in real time, it also allows you to log in settings such as water flow and hose footage deployed. This can help your operators reduce the use of water and other resources, as well as lower your cost of ownership.

Worry-Free.

Featuring a fully equipped, easy-to-use troubleshooting system, IntelliView is able to accurately diagnose fault codes. In addition, security measures within the IntelliView system will validate proper sequencing functions in order to prevent misuse of the equipment.

Safer and Smarter.

Protecting both your investment and the safety of your workers, IntelliView enables the electronic modules to perform self-diagnostics to ensure all safety interlocks are satisfied before a function can be completed.



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VACTOR

A Powerful Partner

vactor.com

A Closer Look.

VECTOR 2100 Plus

Multi-Flow System

Allowing you to attack the toughest jobs using less water and less fuel, the Multi-Flow System – now standard on all Vector® 2100 Plus units – is the smarter way to do your job every day.



Put the Pressure on Tough Jobs.

With Multi-Flow, more demanding jobs don't always mean more water. You can set the water flow at a lower rpm than competitive models, while still maintaining peak pressure, helping you clean both effectively and efficiently.

Three Levels for Three Types of Jobs.

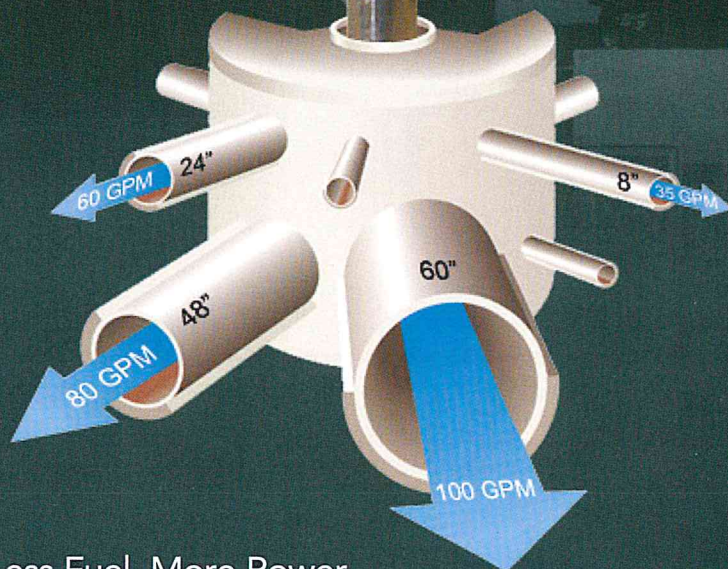
Multi-Flow allows you to pick the setting that's right for you:

- **Low Pump Mode** delivers 1 - 25 gallons per minute (GPM), which is perfect for hydro-excavation, lateral cleaning and lift station cleaning.
- **Medium Pump Mode** pumps out 25 - 60 GPM, an effective setting for small diameter pipes with small to medium levels of material accumulation. In fact, 30 GPM at 2500 psi is just as fast and effective at cleaning a 4" to 8" pipe as a 60 - 80 GPM* setting – all while staying safer and using less water.
- **High Pump Mode** powers out 60 - 80 GPM* for larger diameter pipes. This powerful setting eliminates the need to hire an outside contractor.



Precise
Performance for
Absolute Control.

Thanks to Multi-Flow and the Digital Flow Meter, operators will know exactly how much flow and pressure they are using, which can maximize performance and prevent them from using a worn or incorrect nozzle. And with this increased level of control, Multi-Flow can help operators get through jobs faster and more safely, increasing productivity.



Less Fuel. More Power.

Multi-Flow is designed to deliver the best of both worlds – the power to get through the toughest jobs and the smarts to do it as efficiently as possible. While Multi-Flow uses two PTOs to improve hydraulic system efficiency, it turns the second one off when it is not needed. Add to that the ability to control flow and pressure settings, and Multi-Flow ensures you're always using the perfect amount of horsepower – nothing more, nothing less.



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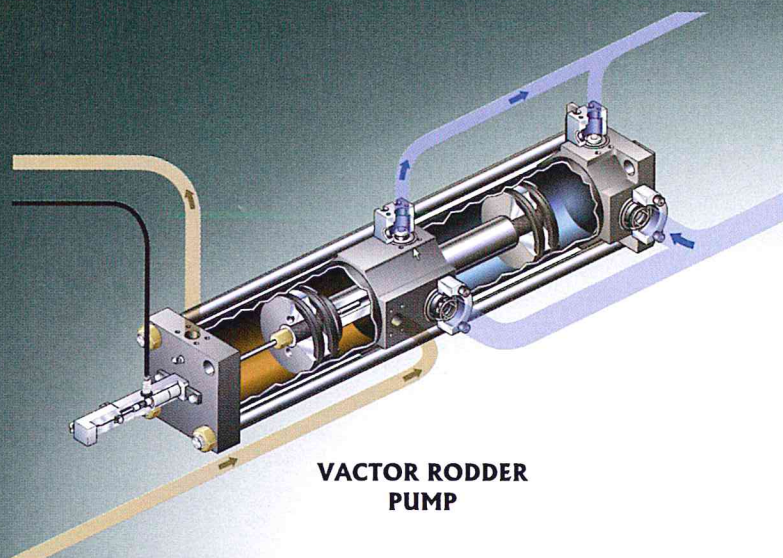
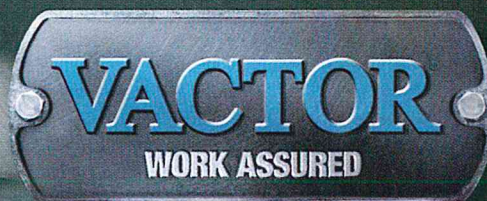
VECTOR®

A Powerful Partner

vector.com

*Assumes 80 GPM System. ©2009 Vector Manufacturing P/N 00110

A Closer Look.



Vactor JetRodder®

Single Piston Water Pump

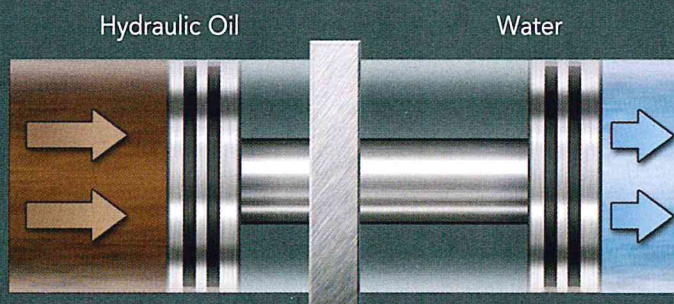
The dual action, single piston Vactor JetRodder water pump is now available with up to 3000 PSI. This is the only pump designed exclusively for sewer cleaning with "Jack Hammer" obstruction breaking operation. With pump options available up to 3,000 PSI, customers can have additional capabilities of high pressure if needed.

How the JetRodder pump works:

- The single piston dual acting water pump is designed to be driven hydraulically, and contains only 5 moving parts.
- The pump's simple design has a hydraulic cylinder on one side of a sealed center block and a water cylinder on the other side. A single shaft with specially constructed piston heads is slowly driven back and forth.
- The pump is constantly loading and expelling hydraulic oil and is constantly loading and expelling water.
- The JetRodder pump comes with an unconditional 30 minute run-dry certification.

A single pump accommodates the following flows and pressures:

Flow and Pressure				Hose Size	
gpm @ psi	lpm @ bar			inches	mm
40	2500	151	172	3/4" or 1"	19 or 25.4
50	3000	189	207	3/4" or 1"	19 or 25.4
60	2000	227	138	1"	25.4
60	2500	227	172	1"	25.4
70	3000	265	207	1"	25.4
80	2000	303	138	1"	25.4
80	2500	303	172	1"	25.4
100	2000	379	138	1-1/4"	31.75
120	2000	454	138	1-1/4"	31.75



Jack Hammer Action

The pump's Jack hammer action helps to further break up debris caked on pipe walls and provides additional cleaning power to break through obstructions in the line. The piston shift change in the direction naturally causes a surge in the thrust that acts like a jack hammer to obstructions.

Low Maintenance

A slow stroke design reduces friction, providing longer field life with less maintenance than other pumps. Because of the hydraulic drive, there are no belts to adjust or maintain and only 5 moving parts. It does not depend on water for lubrication and cooling, like other pumps which can then be damaged.

WARRANTY: The Vactor JetRodder water pump is warranted against defects in material or workmanship for a period of 2 years from date of delivery to the original purchaser.

NEW

Vactor® Vision Camera System



Part #48957 Quad-System Camera

A Multi-Camera System for Safer Operation of Any Vactor Truck

This camera system is designed to help all drivers operate any Vactor truck with optimum safety to surrounding pedestrians, traffic and property. It also helps truck personnel to work and operate more safely in dangerous conditions, such as high traffic areas.

The Vactor vehicle safety camera system provides clear camera views on a high-resolution, color LCD monitor. Camera inputs support up to four exterior cameras. All four images can be viewed on the monitor at the same time, viewed in any combination, or scanned one at a time in full screen mode.

Specific cameras can be triggered to activate with turn signals or reverse gear shifting. Additional features include soft touch backlit controls, on-screen display with user interface, integrated audio speaker, NTSC video output (RCA jack) and IR repeater for external navigation control.

Vactor's standard color camera features LED-enhanced low-light performance, a built-in microphone, and an "image

orientation" selector switch. These rugged cameras also feature waterproof cable connectors and come with non-corrosive, stainless steel mounting hardware.

Special side-body cameras help eliminate blind spots on both sides of the vehicle to provide greater safety and confidence for even the less experienced driver. These aerodynamic cameras feature impact resistant housing, and come complete with all hardware to mount easily to any flat surface.

Built and tested specifically for rugged outdoor use.

- Vision on all sides of truck
- No more "hidden" obstacles
- Helps protect workers
- Helps prevent vehicle damage
- Clear, high-definition LCD monitor
- Simultaneous camera viewing on one screen
- Rugged and dependable

VACTOR®
Subsidiary of Federal Signal Corporation

Vactor Manufacturing, Inc.
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815-672-2779 Fax
www.vactor.com

Call 800-672-3171 for more information.

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Effective 11/06

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ES-037 GRCO 3M 11/06

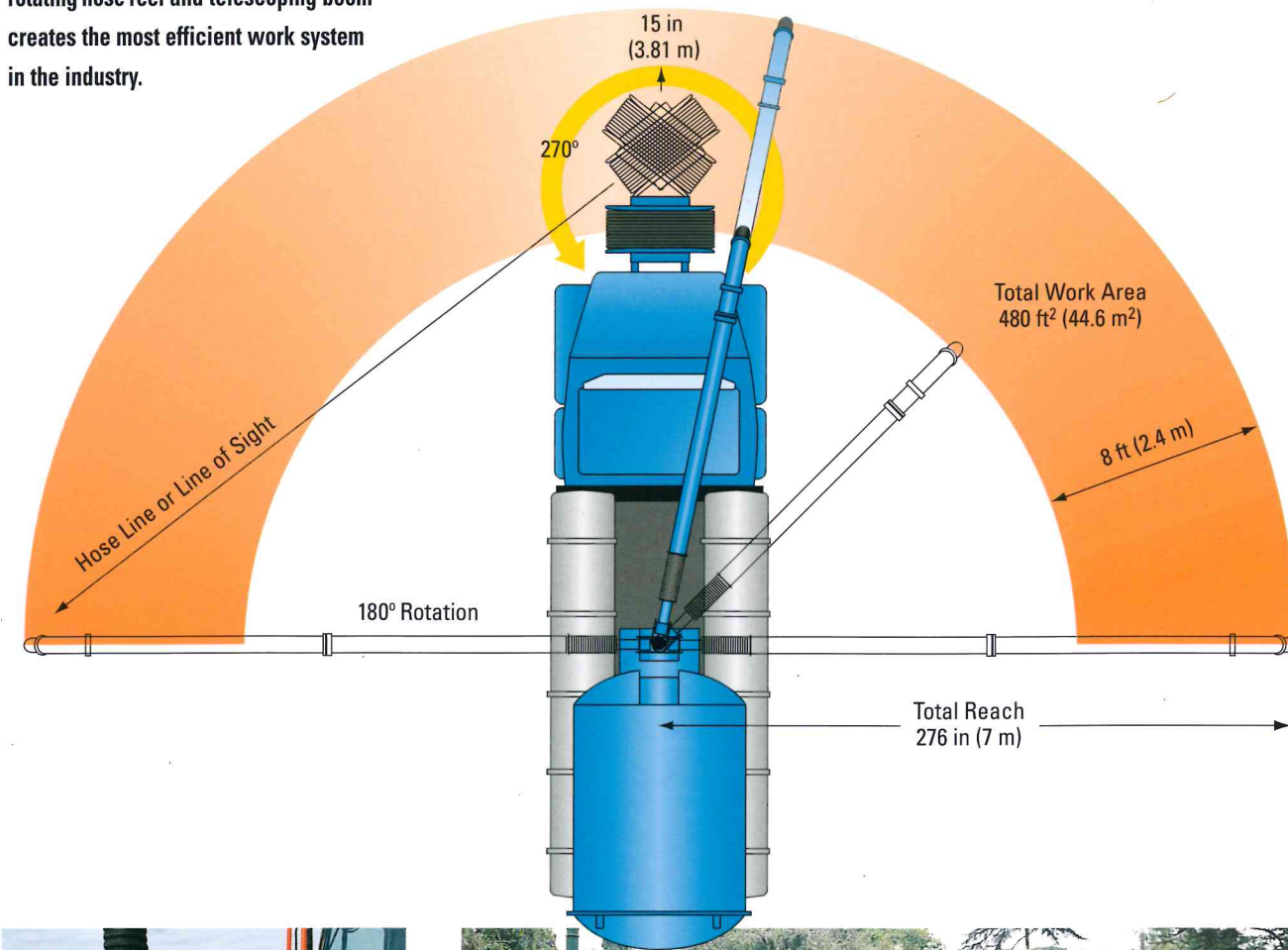
Vactor® Vision Camera System



VACTOR[®]
Subsidiary of Federal Signal Corporation

Outstanding Maneuverability

The synergy of the unique Vector telescoping, rotating hose reel and telescoping boom creates the most efficient work system in the industry.



Telescoping, Rotating Hose Reel

Easy-to-position design reduces the chance of hose damage due to misalignment. Permits cleaning multiple inlets without moving the truck chassis. Rotates a full 270° and telescopes out 15 in (381 mm) from the truck. Dual controls allow operator to work safely from either side.



Telescoping Boom

Provides 23 ft (7 m) of reach for optimum versatility and productivity. Extends and retracts; moves up, down, right and left, from a walk-around pendant control or the workstation control panel. Trouble-free hydraulic operation eliminates adjustment and maintenance problems common to belt and chain systems.

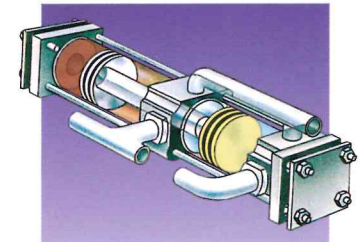
Photo illustrations on this page include optional components.

The World's Most Powerful Cleaning System

2100 Series machines offer Vector's proprietary system of integrated components, specifically designed for sewer cleaning applications. These components work together to deliver maximum cleaning power and efficiency where it counts, at the nozzle.

Exclusive Jet Rodder® Water Pump

- Jack Hammer® action drives the nozzle through obstructions and scours pipes clean
- Single-piston, slow-stroke design and hydraulic drive for longer life and less maintenance
- Located 100% below the water supply for greater power and no cavitation



Telescoping, Rotating Hose Reel & Hydraulic Boom

- Boom and reel work together to create outstanding maneuverability and productivity
- Allows cleaning of multiple inlets without relocating truck
- Complete controls located at reel for safety and efficiency
- Optional auto-wind helps operator concentrate on his work, instead of the hose reel



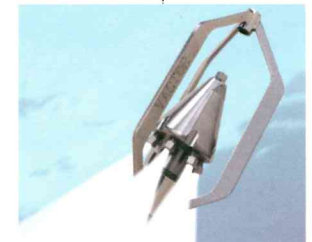
Shark High-Performance Hose™ (Option)

- Molecularly bonded, reinforced rubber construction offers unbelievable flexibility and maneuverability
- Allows tighter bends, longer runs, higher pressures
- Remains flexible in temperature extremes
- The longest-lasting hose available; lasts up to 5 times longer than plastic hose



High-Performance Nozzle (Option)

- Converts waterflow and pressure into thrust 22% more efficiently than ordinary nozzles
- Dramatically increases productivity; reduces number of man hours, water and fuel consumption
- Teamed with a Shark hose, creates the most effective, high-performance cleaning system in the industry



1 Fully Hydraulic Boom

Provides effortless in/out and up, down, left and right movement with full 180° rotation for easy positioning into hard-to-reach areas. Trouble-free hydraulic power eliminates adjustment and maintenance problems common to sprocket and chain systems.

2 Front-Mounted Hose Reel

Front mount provides the operator with a safe, efficient workstation. Optional compact design improves driver visibility. Heavy-duty high capacity reel with hydraulically powered forward and reverse. Optional telescopic action adds 15 in (381 mm) of reach and 270° rotation.

3 Complete Operator Control

Every control necessary for operation (boom, start/stop, rpm, hose reel functions and chassis throttle) is located right at the hose reel, for maximum safety and productivity. Dual controls (both sides of reel) are standard.

4 Powerful Positive Displacement Vacuum

Blower is chassis-driven directly through a 475 hp rated continuous-duty transfer case. Eliminates belts, pulleys, clutches, drive line slip and maintenance, while boosting efficiency and reliability. Inlet volume up to 5,000 cfm and 18 Hg significantly increases velocity pull of debris at greater working depths.

5 Direct-Driven Hydraulic Water Pump

The hydraulic water pump is direct-driven through a heavy-duty transfer case. Optional Multi-Flow control allows operator to adjust flow and pressure while maintaining a full and constant vacuum.

6 Multi-Stage Blower Filtration System

Exclusive Vector design provides unmatched blower protection to ensure optimum service life and productivity:

- a) Dual air ports maximize material separation in the debris body
- b) Stainless steel ball shutoffs prevent liquid debris carryover

c) Centrifugal cyclone (optional) for severe and dusty environments removes any escaping particles and condensation from the airstream

d) Final stainless steel screen strainer removes particles as small as 10 microns to provide ultimate blower protection

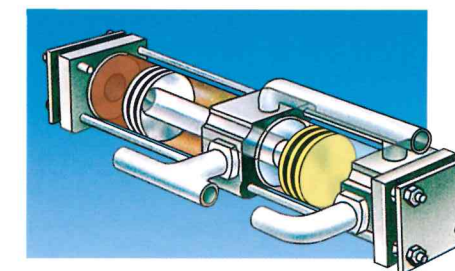
7 Easy Load, Fast Dump Debris Body

Safe and efficient design shields the operator from potential contamination. Made of 3/16 in (4.76 mm) Ex-Ten® corrosion- and abrasion-resistant steel, the full 50° dump angle is achieved with a single, double-acting hydraulic cylinder. Capacities available from 5 to 16 yd³ (4 to 12 m³).



8 Aluminum Water Tanks

Corrosion-, rust- and crack-resistant design backed by 10-year warranty. Baffled cylindrical shape adds high strength and durability.



Jet Rodder® Water Pump

Exclusively designed for sewer cleaning applications, the Jack Hammer® action pounds through blockages and virtually scours pipes clean. The slow stroke action delivers maximum continuous flow and pressure with minimal wear. Superior beltless hydraulic drive with instant on/off at operator's station. 5-year warranty available.

Vactor® 2100 Series Positive Displacement Sewer Cleaner

A Superior Machine Designed for Unmatched Job Versatility and Performance

1 Fully Hydraulic Boom

Provides effortless in/out and up, down, left and right movement with full 180° rotation for easy positioning into hard-to-reach areas. Trouble-free hydraulic power eliminates adjustment and maintenance problems common to sprocket and chain systems.

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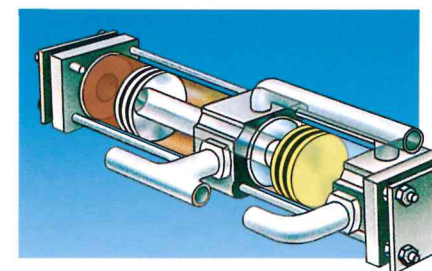
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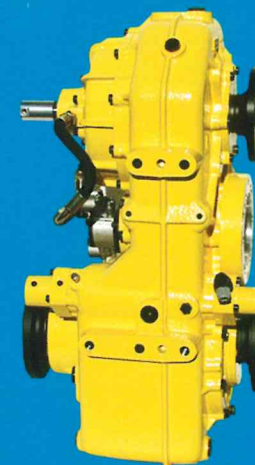


Enhance Productivity With Vactor's Advanced Options



High-Dump

- Dumps debris into roll-offs five-feet high without needing a lift or ramp
- Tilts up to a 50-degree dump angle
- Provides 66 inches of clearance
- Full rear splash shield



Hot-Shift Transfer Case

- Control the blower from outside the cab
- Blower won't engage, or consume fuel, when it's not necessary
- Engine and transmission wear are reduced
- Get in, out and on to the next job even faster



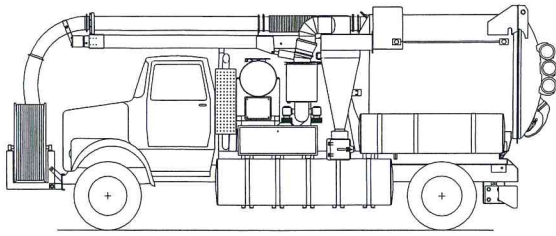
Wireless Remote Control System

- Highly reliable, 900 MHz, license-free wireless control with advanced signal processing for fast control response
- Operators can get the job done quicker, having no heavy cords to drag, tangle or get caught in debris, increasing your productivity
- Improved job control – operators have an enhanced view of the job
- Hazardous situations can be responded to immediately with an emergency shutdown feature

Vactor® 2100 Series Positive Displacement Sewer Cleaner
A Superior Machine Designed for Unmatched Job Versatility and Performance

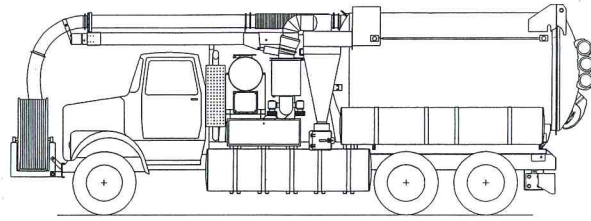
Dimension Specifications

Note: Dimensions are dependent on chassis selection, optional equipment and water capacity.



Vactor 2110 Positive Displacement

- Single rear axle
- WB 255 in (5,715 mm)
- CA 156 in (3,962 mm)
- AF 75 in min. (1,905 mm)
- 18,000 lb min. (8,165 kg)
rated front axle/suspension/tires
- 23,000 lb min. (10,433 kg)
rated rear axle/tire rating
- 24,500 lb min. (11,113 kg)
rated rear suspension
- 41,000 lb min. (18,598 kg) GVWR



Vactor 2115 Positive Displacement

- Tandem rear axle
- WB 243 in (6,172 mm)
- CA 174 in (4,419 mm)
- AF 75 in min. (1,905 mm)
- 20,000 lb min. (9,072 kg)
rated front axle/suspension/tires
- 40,000 lb min. (18,144 kg)
rated rear axle/suspension/tires
- 60,000 lb min. (27,216 kg) GVWR

Additional Options

- Over 100 precision-engineered safety and productivity enhancements
- Multi-flow Jet Rodder® system
- Cold weather recirculation system
- Liquid debris pump-off system
- Debris flush-out system
- Fail-safe hydraulic door locking system
- Water tank capacity up to 2,000 gallons (7,570 L)
- Pump delivery systems up to 200 gpm
- Hose reel capacity up to 1,000 ft (305 m)
- Accumulator

Value-Added Services

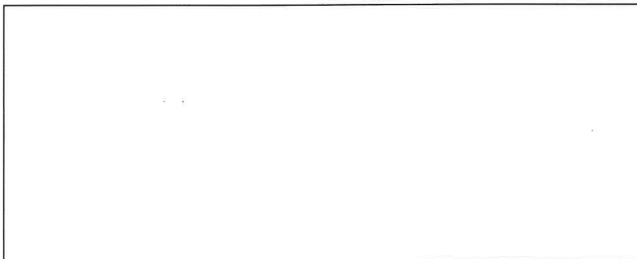
Vactor's commitment to the customer continues long after the sale.

- On-time delivery
- Factory-trained worldwide dealer network for assistance with service and maintenance
- Off-site regional training sessions and specific end-users training
- Genuine Performance Matched Parts™
- Training center with hands-on instruction for operator and service personnel
- Customized leasing and financial services

Warranty

The Vactor 2100 series is warranted against defects in material or workmanship for a period of 12 months from the date of delivery to the original purchaser; 1 year on the blower, 5 years on the debris tank and 10 years on the water tanks. Optional extended warranty packages are available. Consult your Vactor dealer for complete warranty information.

Your Vactor Dealer is:



VACTOR
Subsidiary of Federal Signal Corporation

Vactor Manufacturing, Inc.
1621 South Illinois Street
Streator, Illinois, U.S.A. 61364
(815) 672-3171 Phone
(815) 672-2779 Fax
www.vactor.com

Specifications subject to change without notice.

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Jack Doheny
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