

**BOROUGH OF SEASIDE PARK
OCEAN COUNTY, NEW JERSEY
OUR FILE: 1528-U-088**

**NJIB CLEAN WATER APPLICATION STORMWATER MAINTENANCE
EQUIPMENT REBID**

ADDENDUM #1

April 6, 2026

The following additions to the Contract Documents will be written into any Contract for the “NJIB CLEAN WATER APPLICATION STORMWATER MAINTENANCE EQUIPMENT REBID” project and must be taken into account in rendering a Proposal for the work.

The following items shall be revised as follows at this time:

1. Section 11200 “VACUUM COMBINATION STORM SEWER CLEANER” of the technical specifications has been revised. The revised Section 11200 “VACUUM COMBINATION STORM SEWER CLEANER” can be found attached to this addendum.

All specifications and bids shall be revised accordingly.

Please complete the “Acknowledgement of Receipt of Addenda” (Page P-3), attached hereto, for receipt of this Addendum letter and include with bid documents submission.

The Acknowledgement of receipt of addenda page is a mandatory required document and failure to submit shall be deemed a fatal defect.

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SEAL



SECTION 11200

VACUUM COMBINATION STORM SEWER CLEANER

PART I – GENERAL

1.01 SUMMARY

This section includes the requirements for furnishing and delivering a Vactor 2100i 10 Yd. Debris Combo (or approved equal) Vacuum Combination Storm Sewer Cleaner with a water Capacity of 1000 gallons. The contractor shall perform all necessary operations and furnish all tools, equipment, labor, and materials in strict accordance with the Bid documents to complete the required work of this section. The unit shall be a new model. No discontinued models will be accepted. The equipment must be BABA (Build America, Buy America) compliant. Federal infrastructure investments obligated on or after May 14, 2022, must comply with the Build America, Buy America (BABA) Act, which requires the use of domestic iron and steel, manufactured products, and construction materials in covered infrastructure projects. Products that qualify for a de minimis waiver cumulatively may comprise no more than a total of five percent of the total project cost, otherwise a project specific SRF Waiver must be obtained.

Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the Purchasing and Public Services Director.

Bidder may be required to demonstrate a reasonable likeness of the equipment being offered within a reasonable time of request. The equipment demonstrated shall be equipped with all accessories and components required in this specification to ascertain equivalence.

1.02 RELATED SECTIONS

1. Appendix: The Appendix, located within the Technical Specifications, contains a Compliance Worksheet for Contractor's submitting "approved equal" equipment and accessories.

1.03 SERVICE AND SUPPORT

1. Location of warranty service center and amount of inventory shall be noted which may be verified and inspected.

1.04 SUBMITTALS

- A. **A submittal shall be made with the Bid Package** for the proposed Vacuum Combination Storm Sewer Cleaner. The submittal shall consist of one concise document containing the following:

1. Cover page
2. An information section for the Vacuum Combination Storm Sewer Cleaner containing at least the following:
 - a. Catalog Cut containing descriptive literature of model features
 - b. Equipment Specifications (Water capacity, debris capacity, body color, tool storage, transmission intake pipe sizing, controls, rotatable boom inlet hose specifications, camera system specifications, dimensions, operating specifications, cab features, chassis specifications, length, height, and Engine specifications)
 - c. Manufacturer warranty information (see 1.05)

Vacuum Combination Storm Sewer

- d. Completed compliance worksheet found in the appendix for Contractor's seeking an approved equal vacuum truck and accessories.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Schedule delivery of the vacuum truck and associated equipment as to avoid delays and disruptions to the Borough.
- B. Schedule by coordinating with the Engineer's Office. Delivery will be at a location specified by the Borough in the Borough of Seaside Park.
- C. Handle and transport equipment in compliance with the manufacturer's recommendation and in a manner satisfactory to the Engineer.
- D. If damage, theft, or loss of materials occurs prior to documented completion of unit delivery, the Contractor shall be held responsible with no additional payment(s). Damage after documented completion of unit delivery, if by fault of the Contractor or related parties shall also be the Contractor's responsibility.

1.05 WARRANTY

- A. Truck chassis shall be covered by a (1) One year base warranty 100% parts & labor. Base warranty shall include (1) Year towing coverage for up to 500.00 per occurrence. Diesel engine warranty shall be Five (5) years / 100,000 miles 100% parts and labor. Coverage shall include: turbocharger, injectors, engine electronics, and water pump as well as the Emission Aftertreatment System. Chassis/Frame warranty shall be five (5) years/ unlimited miles 100% parts and labor.
- B. The manufacturer shall provide a warranty of a minimum of five (5) years for the water tank, five (5) years on debris tank, one (1) year Positive displacement blower, and two (2) years on the water pump. All other equipment including the truck/chassis shall be warranted a minimum of one (1) year from the date of receipt and acceptance of the equipment. The engine shall be covered by the warranty for five (5) years including after treatment and the transmission shall be covered by the warranty for three (3) years. The warranty shall cover both parts and labor to repair any defective parts or assemblies. Bidders must include warranty statement for both chassis and body. It is the responsibility of the manufacturer to deliver the entire unit to the Borough.
- C. Copies of all warranty certificates shall be submitted with the bid to allow personnel to compare warranties. If no warranty certificates are submitted, the bid will be considered incomplete and will be rejected.
- D. The bidding dealer shall be perform all warranty work and shall not sub-contract any warranty work.

PART 2 – PRODUCTS

2.01 MANUFACTURED UNITS

The equipment shall be of the quality and rating as specified herein, and the manufactured units shall be as follows:

Vacuum Combination Storm Sewer

A. Truck Mounted Single Engine Combination Sewer Cleaner and chassis:

1. Vactor 2100i 10 Yd. Debris Combo
2. Approved Equal

2.02.1 COMPONENTS AND FEATURES

A. Engine:

1. The engine shall be designed, manufactured and warranted by the machine manufacturer to ensure maximum compatibility to the other major components.
2. The engine shall meet U.S. EPA Tier 4 Interim emission standards.
3. The rated net power shall be 370 hp.
4. The air cleaner shall feature a two stage filter and include an air filter service indicator to identify the need for filter cleaning or changing.
5. A 120-volt engine coolant heater and glow plugs shall be provided for improved starting in cold weather.
6. The engine shall have replaceable valve guides and valve seats for extended service life
7. There shall be an electric fuel priming pump to facilitate engine starting after servicing the fuel system.
8. The engine shall have fan guards to prevent access when the engine is running.
9. There shall be a quick release fuel filter / water separator for protection of the engine fuel system from contaminated fuel.
10. The starting and charging system shall be 12 volt.
11. Extended life coolant shall be used.
12. The engine compartments shall be lockable
13. A non-spill engine oil drain valve shall be provided

B. Transmission / Power Train (Allison 3000 RDS Automatic Transmission):

1. An inching function transmission neutralizer shall be provided
2. The machine design shall not allow starting the machine when the transmission shifter is engaged in forward or reverse.
3. The transmission shall neutralize when the parking brake is applied, making it impossible to drive through the parking brake.
4. Maximum torque to the wheels shall be possible without down shifting the transmission.

C. Automatic Chassis:

The machine shall be mounted on a 2026 Peterbilt model 548 or equal Automatic Chassis.

D. Subframe:

1. The equipment shall be of modular design consisting of vacuum system, water tanks system, debris body and drive system.
2. A sub frame shall be fabricated to the exact dimensions of the truck chassis for mounting of modular components.
3. All components of the module shall attach to the sub frame and not directly to the chassis.
4. Sub frame shall be designed to ASME standards for maximum applied loads, chassis frame movement and even distribution of weight to the chassis and suspension.

5. Sub frame shall be continuous and uninterrupted from back of cab to end of frame.

E. Debris Body:

1. The debris body is to be made of abrasion and corrosion resistant steel with 3/16" thickness, a minimum yield point of 50,000 PSI, and minimum tensile strength of 70,000 PSI. Mild steel of any thickness is deemed unacceptable.
2. The debris body is to be round for maximum strength and ease of dumping and is to have a minimum useable capacity of 10 cubic yards. **(Not to exceed 35 ft).**
3. The body is to have a full-sized rear door hydraulic open and close that is hinged at the top and that is equipped with a replaceable neoprene type seal to prevent leakage. A hydraulic door lock system is to be mounted on a flat rear door of the debris body. The system is to be activated at the same curbside location as the debris body dump control to protect the operator from discharged materials, The dump controls are enclosed in a locking control box.
4. Dual outward mounted rear door props shall be included as standard to prevent operator from entering door swing path when engaging rear door prop.
5. For optimal particulate separation, vacuum shall be drawn from separate ports in the top of the debris body.
6. Body shall be dumped by raising the body to a 50-degree angle utilizing a forward mounted, double acting hydraulic dump cylinder.
7. Dump controls, accessory controls, e-stop control shall be provided at a central curb side location directly behind the cab of the truck.
8. For stability and safety, dumping must be accomplished while the pivot point of the body remains fixed to the subframe.
9. Industrial style rear debris body door shall be flat and shall open and close hydraulically by cylinders mounted at the top of the body. Door shall open 50 degrees from the fully closed position. Door shall be unlocked, opened, closed, and locked by a failsafe hydraulically activated sequential positive locking system, cam operated by a single hydraulic cylinder, with all controls located behind truck cab, forward of the debris body, so operator is not subject to sewage when dumping.
10. The body is to be equipped with a load level indicator to show the load level and when the body is loaded to capacity. The rear door is to be equipped with two 6" body drain valve and drain hose that will allow the operator to drain off excess liquids while retaining solids for greater on-site productivity. (Located at 6:00 and 3:00 position with knife valve).
11. The debris body shall be equipped with a rear door drain to drain off excess liquids while retaining solids. No valve included
12. The debris body shall be equipped with a rear door drain at bottom dead center to drain off excess liquids with an internal screen to prevent large solids from passing. A manually operated 6" knife valve with cam-lock coupler and 25' of lay flat hose having camlock quick connects shall be included at this location.
13. Full Swinging Decant Screen: Available Only on Valve Installed At Lowest Point In Door shall be provided.
14. (4) Dual vertical (cyclone) centrifugal separators shall be installed in-line between the debris body and the air mover, (2) per side for each debris body discharge port. Each dual separator shall include large fallout chamber cleanout door.
15. For safety, a minimum of (5) vacuum tubes shall be stored on curbside storage racks to minimize operator exposure to traffic side of unit. Shall include quick release retainer handles (no bungees or clamps).
16. A curbside, folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted. Shall include quick release retainer handles (no bungees or clamps).

17. A street-side, folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted. Shall include quick release retainer handles (no bungees or clamps).
18. (2) Pipe Storage Racks on rear door with quick releases and (2) Pipe Storage Racks Curbside waist level.
19. A splash shield shall be mounted around the lower 60% of door opening to direct liquid and debris away from the chassis. Shield shall be minimum 10" deep bolted assembly with no openings.
20. A 6" valve, electrically activated, air operated valve debris body vacuum relief system shall be in the inlet of the vacuum system to allow the venting of the tank and relieve vacuum at the debris intake hose. (3) Kunkel relief valves shall be included.
21. A debris inlet deflector distributing load evenly in debris body shall be included.
22. A blocking valve shall be provided at the inlet of the debris body to prevent liquids from splashing up into the boom during transport.

F. Water Tanks:

1. Water tanks must have a minimum certified capacity of 1000 gallons of useable water. The water supply is to be contained in no more than (4) aluminum, cylindrical, baffled tanks. The tanks must carry a ten (5) year warranty against defects in workmanship and potential cracking or corrosion caused by water, sunlight, and variable weather conditions. Further, the water supply is to be located at or below the frame rail of the truck chassis and located from behind the cab to the end of the frame rail in such fashion to assure optimum center of gravity and weight distribution from front to rear of the truck. Under no circumstances is the height of the water tanks to extend above the midline height of the debris body, nor may the tanks extend beyond the width or length of the truck. The tanks are to be mounted on the rubber lined J-straps of the sub frame assembly. The tanks are to be interconnected with minimum 4" lines for ease of rapid filling and are to be filled from a single curb-side point equipped with an anti-siphon device, and 25' of fill hose with hydrant connectors, fittings, and a hydrant wrench.
2. The tanks must be removable from the chassis to allow for the equipment to continue to be operable if a tank must be repaired. The tanks are not to be integral with the raising of the debris body during dumping. A system or valving must be provided for each tank to allow for draining. A winter recirculation system shall be provided to prevent freezing of the water while in transit or idling at the site
3. The water tanks shall be manufactured from a non-corrosive material to prevent rust yet still provide for maximum strength.
4. The water tank material shall require no internal coating and shall be repairable if patching is required.
5. The water tanks shall be easily removed from the subframe to provide complete access to the truck chassis for maintenance purposes.
6. The water tanks shall be adequately vented and connected to provide complete filling.
7. The water tanks shall be totally separate from the debris tanks and provide no structural support.
8. The water tanks shall share no common walls with the debris tanks to prevent corrosion.
9. The water tanks shall come equipped with an anti-siphon device and 25' of hydrant fill hose and fittings.
10. The water tanks shall carry a 10-year warranty against corrosion or cracking.
11. All water tanks shall be fully baffled to form a maximum compartment storage of 150 gallons for each compartment. has determined that for the stability of the vehicle when turning and stopping and for safety of personnel that systems baffled at 150 maximum gallon compartments are preferred. Exceptions of requirement shall be explained in detail accompanied with detailed engineering drawings.

12. The water tank shall be located for the lowest possible center of gravity while providing 100% gravity flooded intakes to water pump.
13. Fresh water shall enter the tanks through an in line 6" air gap, all aluminum covered anti-siphon device.
14. Water level sight tubes of non-yellowing plastic shall be installed on both tanks.
15. The sides of these water tanks shall not extend more than 48" out from the centerline of the truck chassis.
16. A fresh water drain system shall be provided to completely drain the freshwater system from one location utilizing the 3" Y-strainer on the pump.
17. A minimum 6" connection between tanks shall be provided.
18. For stability safety, the water tanks shall not elevate with debris body during dump cycle.
19. An air purge system utilizing the chassis air system shall be provided to assist displacing of residual water out of the high- pressure water system. System shall utilize the truck chassis air compressor to fill a 13-gallon auxiliary air storage chamber with pressure gauge and pressure protection valves to isolate the holding tank from the chassis compressor. System shall be equipped with ball valve and all necessary high pressure piping hoses, couplings and controls.
20. A 3 in-line "Y" trap strainer shall be located at inlet of water tank fill airgap.
21. A 3 in-line "Y" trap stainless steel strainer shall be located between the water cells and water pump.
22. A 3" Gate Valve shall be provided at water pump.
23. Water tank must be a certified metered capacity of 1000 gallons. Certification shall be necessary upon delivery.
24. The water supply is to be contained in no more than (4) aluminum, cylindrical, baffled tanks. The tanks must carry a ten (5) year warranty against defects in workmanship and potential cracking or corrosion caused by water, sunlight, and variable weather conditions.
25. Liquid Float Level Indicator shall be provided.
26. High alloy stainless steel water barrel designed to improve water barrel life in application where harsh water is used.

G. Water Pump System:

1. For most efficient use of horsepower and reduced fuel consumption, high pressure rodder pump shall be hydraulically driven via (1) load sensing utility pump, (1) variable displacement pump and (1) fixed displacement pump.
2. For most efficient use of horsepower and reduced fuel consumption, high pressure rodder pump shall be hydraulically driven via (2) variable displacement pumps.
3. Hydraulic powered rodder pump via twin variable displacement hydraulic pumps and (1) fixed displacement utilizing (2) 10-bolt PTO's.
4. Hydraulic powered rodder pump via (2) variable displacement hydraulic pumps utilizing (2) 10-bolt PTO's.
5. High pressure water pump shall be rated capable of continuous delivery of 80 GPM at 2500 PSI (submit manufacturer support documentation).
6. High-pressure water (rodder) pump system shall allow front- mounted controls for operation of three modes: (1) Low flow range 0-22 GPM; (2) medium-flow range, 22-60 GPM / 2500 psi; and (3) High-flow range: 60 up to 100 GPM / 2500 psi.
7. High-pressure water (rodder) pump system shall be completely controlled through the range with use of the MultiFlow Control and throttle located on the control panel.
8. This hydraulic drive system shall allow variation of water pump speed independent of required vacuum drive speed within maximum drive engine speed of 1760 RPM.
9. Water pump speed to remain fully adjustable via an independent operator input regardless of the selected vacuum drive speed.

10. Variable flow systems routing water back-to-tank are not considered equal due to additional wear, horsepower and fuel consumption. Any deviation from this drive requirement should have full explanation of horsepower consumption.
11. Water (rodder) pump shall include smooth and pulsation operation mode feature without altering pump flow.
12. When required to assist nozzle breaking through obstructions, water pump "pulsation mode" shall provide a forward-acting nozzle surge. Pulsation surge wave shall allow nozzle to punch forward 2" to 18" depending on flow dynamics and length of hose in sewer pipe.
13. Explanation of forward-acting pulsation method shall be submitted with bid.
14. Explanation of forward-acting pulsation method shall be submitted with bid. Systems that require the use of air induction into the water pump shall not be accepted.
15. Water pump location shall provide a flooded gravity suction inlet to eliminate potential cavitations damage.
16. An oil to water heat exchanger will be provided in the water system to cool all hydraulic fluids on the unit. State horsepower requirement to operate hydraulics at full speed:
17. The water pump shall provide precise 0-80 GPM controlled flow at variable pressure up to 2500 PSI.
18. An extreme cold weather recirculation system - minimum 25 GPM via transmission PTO at chassis engine idle speed.
19. A hydro-pneumatic nitrogen charged accumulator system shall be provided with all control valves, piping and hoses for either continuous flow or jackhammer rodding. Accumulator shall be a 2.5 gallon capacity and 1400 to 2500 PSI pressure rating.
20. A hydro-pneumatic nitrogen charged accumulator system shall be provided with all control valves, piping and hoses for either continuous flow or jackhammer rodding. Accumulator shall be a 2.5 gallon capacity and 1000 to 2500 PSI pressure rating.
21. Two (2) 1/2" high pressure ball valves shall be provided for draining the water pump and flushing sediment from the bottom of the pump.
22. A nozzle rack accommodating (3) nozzles shall be provided in curbside toolbox. The nozzles shall be labeled on storage rack for pipe size/flow and application.
23. System shall be relieved to protect operator.
24. Handgun shall be supplied that allows for changing of flow pattern from a fine mist to a steady stream.
25. Handgun shall come equipped with quick connect couplers.
26. An additional 1" water relief valve shall be provided.
27. A mid-ship quick disconnect handgun couplers shall be provided.

H. Vacuum/Vacuum Drive System:

1. The system shall include a positive displacement rotary lobe type pump capable of 3600 CFM @ 200 inches of water column inlet volume. The pump shall be of quality of Roots 821 ,16" blower or approved equal. Bidder shall provide with the bid documents certification and curves indicating the vacuum rating in inches of water column, maximum CFM with vacuum system operating at peak condition, rpm and horsepower required to perform at standard operating conditions. The system shall be capable of vacuum debris, sludge, stones and silt while underwater without the need for reduced size intake tubes, nozzles or requiring the liquid be removed first.
2. For added protection, the vacuum system shall have three (3) relief valves set at 16" hg, heavy duty horizontal mounted noise muffler, removable and cleanable stainless steel filter screen, and shall be enclosed with a steel cage guard for safety.
3. Transfer case shall be activated by air via a one touch control located in cab with animated confirmation on screen.

4. A secondary hydro-pneumatic nitrogen charged accumulator system shall be provided with all control valves, piping, and hoses for either continuous flow at lower pressures or jackhammer rodding.
 5. Ball valve drains shall be provided for both the final filter and silencer to be able to drain any carryover that comes from the debris body.
- I. Vacuum Boom System:
1. The unit must be provided with a front mounted boom and front mounted hose reel. The boom may not raise with the debris body during dumping. Boom lock down shall be provided to keep booms stationary while unit is in transit.
 2. The boom will telescope a minimum of 10 feet out and extend the debris hose 15 feet with 7" diameter debris hose . The boom and hose will have ability to transport with collection tube attached All actions are to be hydraulically controlled. The boom is to have an electric-over-hydraulic solenoid system, with a means of adjusting speeds of the boom actions; there must be an override on the hydraulic circuit to relieve the boom should it fall at any telescoped or rotated positions. It is to be hydraulically driven in all directions and controlled with a remote push button control station with a cable connected to the lower frame of the hose reel.
 3. Sufficient pipe to vacuum to depths or lengths of 20 feet is to be supplied and is to include a specially tipped vacuum nozzle. Sufficient pipe storage is to be supplied to accommodate a minimum of 20' of extra pipe.
 4. All connections between the debris body and vacuum system must be self-adjusting, pressure fittings couplings.
- J. Hose Reel:
1. The front rear mounted hose reel assembly will be mounted on an independent frame. The reel will not require any other form of support than the frame mounting. Use of an outrigger for stability of the hose reel when extended is an acceptable method of additional support. Further, it will be mounted at a height that will assure the operator a good visibility while driving the unit. A 1/4" spun steel design is required and it should have a minimum capacity of 500 feet of 1" inside diameter jet rodder hose. It is to be hydraulically driven via hydraulic motor with dual sprockets and chain system. The hose shall be located behind the steel housing and provided with a flexible leader hose for ease of placement and protection of the hose within the manhole.
 2. The reel is to telescope and retract 15" on a straight line along the centerline axis of the truck with the reel in its fixed position parallel to the truck grill. Arced lines of travel do not meet this requirement. The reel is to rotate about the centerline on a large diameter ball bearing through 270 degrees to afford an unobstructed line along which the rodder hose can reach the working end of the boom in any of the work positions along the booms 180 degrees of rotation. The extension will allow the operator to check fluids on tilt type cabs without tilting the reel.
 3. For operator safety and productivity, the hose reel must be equipped with controls on each side. Under no circumstances, may the reel extend beyond the safe width of the truck in any of its working positions. The reel will have auto level wind with tensioning device .
- K. Washdown Equipment:
1. Hand sprayer with adjustable spray-pattern to be provided with trigger-style gun.
- L. Front Operating Station and Controls:

1. Primary operator station will be located at front of hose reel.
2. All front operator controls shall be accessible while operating either front or rear side of reel assembly. All operations to either side of unit shall position operator in front of vehicle affording protection from oncoming traffic.
3. All operator controls should be located on a single control panel that can be rotated on a 90-degree arc for an operator customizable location. The control panel shall also feature the ability to raise and lower through a range to accommodate operators of different height.
4. Station shall include truck engine throttle, water pump (on/off), water pump mode, water pump flow meter, hose reel control valve (forward / reverse), adjustable hose reel speed control, oil dampened water pressure gauge, boom controls, digital water pump flow meter, and low water warning light.
5. Station shall include a Touch enabled display screen with corresponding tactile buttons for reading critical machine data including (hose footage, hose reel speed settings, water pressure, water flow. Air mover information, chassis data, mode indicator, chassis fuel level, and diagnostic controls), Back lit button keypads with, laser etched function icons, and 4 light feedback indicators. These buttons shall operate the following functions: All setup functions (remote/panel selector, work lights, hose reel extend/retract, hose reel lock, and pinch roller activation) and Vacuum functions. Additionally, there will be separate sealed rocker switches for Water Pump on/off and Throttle up/down. There shall be a multi flow control dial for controlling the full range of the water pump.
6. There shall be a hose reel joystick to control the pay in and pay out of the hose reel, this joystick shall offer speed control that increases the further the joystick is moved in either direction. There shall be an additional hose reel speed dial for setting specific speed ranges of the reel. There shall be a boom joystick that controls all function of the boom including up/down, left/right, and extend/retract. There shall be a E-Stop button to bring all machine
7. Tachometer and hour meter for chassis engine provided at control station shall be provided.
8. All Hydraulic Functions - Color Coded, Sealed Electric/Hydraulic NEMA 4 switches shall be provided.
9. Front control screen shall display a water level indicator to show level of water through the range of the tank.
10. Front control screen shall display the debris body level.

M. Front Operating Station and Controls:

7" In –Cab Touch screen control with Tactile buttons – Single viewing screen for camera, controls for lighting, Recirculation, and PTO transfer case activation are all accessed on control screen. The operator can view operating mode, recirculation status, flows, and pressure. One touch park and clean / PTO Transfer case engaged. Operator can gain function of the water and air system by pressing one button on control screen. Front hose reel control panel gives operator the option to adjust controls to most individually comfortable position. The operator has full access to controls at any point in a 90degree arc. The operator can see their dashboard data on screen while operating the hose reel and boom functions. The 7" dashboard screen offers all of the information, water pressure , and flow, hose footage , chassis RPM, Vacuum information, water level , debris tank level.

- | | |
|--|--------------------------------|
| • Boom Controls | (Left/Right/Up/Down) |
| • Water Pump (Rodder) On/Off | • Engine Throttle Control |
| • Boom joystick | • Multi-flow variable GPM |
| • Hose Reel-Out/Reel-In Control | • Hose Reel Speed Control Knob |
| • Hose Reel Telescope In/Telescope out | • Hose Reel Rotation |

- Lock/Unlock
- Hose Reel Pinch Roller Lock/Unlock
- Hose Footage Counter digital
- Hose reel rotation and speed control
- Sewer jet pump control valve
- Handgun control valve
- Vacuum blower
- Vacuum gauge
- High pressure water gauge
- Boom remote pendant plug-in
- Vacuum breaker controls
- Digital flow meter
- Electronic E- stops at each control station

N. Paint

Exterior paint shall be acrylic. The color shall be white as selected by the Borough. Paint shall be warranted not to chip, flake, fade, bubble or otherwise deteriorate for a period of not less than 5 years. All modules are to be painted prior to assembly.

O. In Cab Controls:

1. All In cab controls are to be located on a single in cab control screen. This shall be a full color display screen. It shall utilize 12 back lit tactile (glove ready) buttons on the sides of the screen as well as feature touch screen operation.
2. All Back up camera Features shall be displayed on the In Cab Control Screen.
3. All work lights shall be able to be activated or deactivated in cab with on screen controls.
4. All work lights shall be able to be activated or deactivated in cab with on screen controls.
5. Jet or Combo mode shall be activated via one touch button on the control panel. Control screen must display an on screen representation of the chassis drive system and must animate to show as drive systems activate or deactivate.

P. ACCESSORIES

- Tow hooks - To be mounted at the front and rear of the chassis
- Rear mounted Arrow board
- Cold weather recirculation system is to be provided on the unit to prevent freezing of the jet rodder water supply while driving to and from work sites. The system must be operable at all vehicle road speeds and while the chassis is stationary. It must be driven from a hydraulic source other than the chassis engine or via a front mounted crank shaft drive. It must be capable of recirculating a minimum of 20 gallons per minute through the entire water system, including the high pressure pump and hose reel.
- Hydraulic shut off valves
- (1) cone rack
- Low water warning alarm
- PUMP DRAINS (2).
- 3'' Y strainer at water pump
- Final filter and silencer ball drain valve
- Fold down pipe storage racks / Curbside and street side

- For greater pipe storage capacity and for operator safety to avoid potential injury while removing or replacing pipe, a spring-loaded, fold down storage rack design must be provided at curbside location as required in this specification. .
- Front blower controls @ operator station
- One full width aluminum tool box Mounted behind cab / 96x 30x 16
- Toolbox subframe 18x24x24
- Continuous fill
- Vacuum relief system
- Rear and front Mounted camera
- Lube manifold system
- High pressure hose reel with 35 ft hose max 3000 psi
- Front joystick boom control
- LED lights, stop. Tail and turn
- Digital footage counter
- LED boom lights
- Quad cyclone separators two on each side rear mounted
- Belly pack wireless remote
- Debris body flush out system
- 1- Additional 7'x 3' extension and 7'x5
- 4 additional hose clamps
- Rear door splash shield
- Lighting package Led work light /rear door / operator station / hose reel / curb side
- Street side and 6 light strobe package / Hand light with plug
- Rear door valve flush out with full rear door swinging screen
- Hydraulic trash pump /with lay flat hose

Q. Electrical & Safety Lighting:

1. The entire system shall be vapor sealed to eliminate moisture damage, "Nema-4" type or equal.
2. All electrical connections shall be void of exposed wires or terminals nor should they be painted. Paint process shall be completed prior to installation of wiring.
3. All wiring shall be color-coded and encased in conduit to scaled terminal boxes with circuit breakers.
4. All other lights required by State and Federal Laws.
5. A pistol grip hand light with bumper plug and 25' coiled cord shall be provided.
6. Handheld, Pistol Grip LED Spotlight with rechargeable Lithium Ion battery.
7. Operator station work lights shall be provided
8. Operator station shall have back lit buttons for low light operation.
9. (2) L.E.D. Boom work lights shall be provided.
10. L.E.D. Lights, Clearance, Back-Up, Stop, Tail & Turn shall be provided.
11. A LED split arrow board shall be installed at the rear of the unit to provide directional control for approaching traffic.

R. Safety Equipment:

1. E-stop shall be located at each operator interface location.
2. Standard locations to include front hose reel, mid-ship curbside dump controls, & wireless controller (if equipped.)

3. Electrical system controls shall be configured to allow for single point operation only. Upon engagement of controls at specified locations, additional controls shall be disabled.
4. Electrical system must enable self-check to ensure all switches are in home position prior to critical function enablement. System must "lock out" controls when switch is not in home position.
5. (1) Emergency Flare Kit
6. (1) 5 lb Fire Extinguisher.
7. 7" dash monitor, 2-camera system shall be provided. A Front Hose Reel Color Camera with 130 deg Viewing Angle shall be provided to provide a front visual of the manhole cover to aid in equipment set-up. A rear back-up color camera with 130 deg viewing angle shall be provided. Camera to have automatic activation when the unit is switched to reverse.
8. Debris Body Out of Position Alarm to indicate when debris body is not in the proper stowed position.

S. Sewer Tools and Accessories:

1. (1) 30 Sand Nozzle
2. (1) 30 deg. Sanitary Nozzle
3. (1) 15 deg. Penetrator Nozzle
4. (1) 1" Small finned nozzle pipe skid

T. Vacuum Tools and Accessories:

1. The basic vacuum tube package shall include the following:
2. (1) 3' aluminum pipe
3. (2) 5' aluminum pipe
4. (1) 6'6" catch basin tube
5. (4) quick clamps

U. Chassis Specification:

1. 10 3/4" Steel rails/steel crossmembers (3/8" rail thickness) (10.75 x 3.5 x 3.75) RBM = 2,136,000 Section Modulus = 17.8
2. Full length stl inner liner RMB = 3,175,000
3. Section Modulus = 14.8 cubic inched
4. Huck bolt all accessible frame components
5. Three Piece cross members
6. 24" bumper extension
7. 46,000 lb GVWR
8. 20,000 lb. Frt. Axle Set forward / with 38" bumper to axle
9. Taper Leaf Springs w/shocks 20,000 lbs.
10. Power Steering TRW THP60 Dual
11. PHP10 Iron HB/Cast Drums/16.5x 6.0" Cam Brakes
12. Haldex/Dana Auto Slack Adjusters
13. Standard oil seals
14. 26,000 lbs. Rear axle
15. Magnetic Rear Axle Oil Drain Plug
16. Outboard mounted brake drums
17. PHP10 Iron HB/Cast Drums/16.5x7.0 Cam Brakes
18. Parking Brakes Both Axles
19. Auto Slack Adjusters

20. Oil Seals
21. Anti-Lock Braking System (ABS) 4S4M W/SBM
22. Bendix Smart ATC (Automatic Traction Control)
23. Synthetic Axle Lubricant-All Axles
24. Reyco spring 26,000 lbs. Suspension
25. Paccar PX-9 Diesel Engine (2024 Emissions)
26. 370 Gross Horse Power @ 1900 rpms 1250 lb-ft Torque @ 1400 rpm
27. Belly Pan
28. Remote PTO & Throttle Provision
29. CARB Engine Idling Compliance (Includes factory installed serialized sticker)
30. Magnetic Engine Oil Drain Plug
31. Paccar 160 Amp Alternator, Brushed
32. Immersion Type Pre-Heater 110-120V (Phillips)
33. 12V Starter
34. (3) Optima DT31T Batteries 2700 CCA Threaded mounted in cab.
35. Battery Disconnect Switch mounted in cab.
36. 18.7 CFM Air Compressor
37. VGT Exhaust Brake. (Variable Geometry Turbo)
38. Cruise Control
39. High Efficiency Cooling System Radiator
40. Silicone Radiator Hoses
41. Engine Protection Shutdown (Includes oil pressure, oil temperature, coolant temperature, & intake manifold temperature)
42. Exhaust Single RH Side of Cab
43. DPF/SCR RH under cab. Includes cab entry RH under cab & full round stainless steel exhaust guard.
44. Single Curved Chromed Standpipe
45. Radial Seal, Dry Type Air Cleaner, Frontal Air Intake.
46. Spin-on Fuel Filter Frame Mounted Heated
47. Allison 3000 RDS
48. Magnetic Transmission Oil Drain Plug
49. Six speed / dash board mounted push button
50. Bendix AD-IS EP Air Dryer W/Heater
51. Nylon Chassis Hose
52. FF: ACCUR 29806PK 22.5x12.25" Aluminum
53. RR: ACCUR 29300PK 22.5x9.00" Aluminum
54. FF: GY 20 ply 425/65R22.5 G296 MSA or Equal
55. RR: GY 16 ply 12R22.5 G751 MSA or Equal
56. On off road tires
57. Alum 80 Gallon Fuel Tank LH under Cab
58. Wire Braided Fuel Line
59. Battery Box & Bumper
60. Battery disconnect
61. Aluminum. Cab 109" BBC CAB & SMC Fepto hood w/ stationary grill (Galvanizing will not be accepted)
62. One Piece Hood Minimum 90 deg. Tilt
63. Sever Service Cab Package to include: Alum. Side Skins, Alum. Rear Skin, Alum. Windshield Mask, Steel Firewall, Steel Front Floor Sheet, Steel Isolator Insert
64. 2-Piece Windshield (Cuts Down on Cost)
65. Bulkhead Style Doors (85 deg. Door opening)

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66. Inside Grab Handles
67. 3-Pt. Seat Belt/Shoulder Harness
68. 2 Inside Sun visors
69. Steering Wheel with Adjustable Column – Tilt/Telescope
70. Extended Rear Window
71. View Window RH Door
72. Power Package includes power door locks & power windows
73. Air Horn
74. Plug in Auto Reset Circuit Breakers
75. CB Term Wiring
76. Cab Mate Cab Air Suspension
77. Dual Door Stops driver & passenger
78. Driver seat Ultraride Hiback Vinyl Air
79. Passenger Seat Ultraride Hiback Vinyl Non-Air
80. Stainless Steel Mirrors 7x16" w/Heat Element
81. (2)Convex 8" SS Mirror w/Heat Element
82. AM/FM w/Weather band
83. Oil Temp Gauge Transmission
84. Water Temp Gauge
85. Oil Pressure Gauge Engine
86. Fuel Level Gauge
87. Warning Light Parking Brake
88. Electronic Speedometer
89. Electronic Tachometer
90. Voltmeter
91. Hour meter
92. (2) Air Press Gauges (Primary & Secondary)
93. Combo Fresh Air Htr./Air Conditioner
94. Headlights Composite Fender Mounted w/Integral park, turn, & side marker
95. Daytime Running Lights
96. (5) Marker Lights
97. Paint Color (WHITE)

Warranty:

Truck chassis shall be covered by a (1) One year base warranty 100% parts & labor. Base warranty shall include (1)Year towing coverage for up to 500.00 per occurrence. Diesel engine warranty shall be Five (5) years / 100,000 miles 100% parts and labor. Coverage shall include: turbocharger, injectors, engine electronics, and water pump as well as the Emission Aftertreatment System. Chassis/Frame warranty shall be five (5) years/ unlimited miles 100% parts and labor

PART 3 – EXECUTION

3.01 GENERAL

- A. All equipment and materials shall be assembled in accordance with the manufacturer's recommendations.

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- B. Prior to acceptance, Owner shall inspect and test all equipment. The manufacturer's warranties shall commence upon acceptance by the Owner.
- C. The bidder shall demonstrate that he is in a position to render prompt service to the equipment and to be able to furnish replacement parts. The bidder shall have a service facility located in the State of New Jersey.

3.02 OPERATOR TRAINING

An eight (8) hour training instruction at the Borough of Seaside Park Department of Public Works (exact location to be provided by Borough) including operation and safety shall be provided to the Owner by the bidder upon delivery of the equipment.

3.03 MANUALS

Deliver with Machine:

1. One paper parts book shall be delivered with the machine.
2. One shop service manual shall be delivered with the machine.
3. Two operator / maintenance manuals shall be delivered with the machine.

PART 4 – QUANTITY AND PAYMENT

4.01 GENERAL

The item "Stormwater Inlet Vacuum Truck, 10 CY Debris Capacity" shall be measured for payment on a Unit Basis, which price shall include all labor, equipment, materials, delivery to the Borough of Seaside Park, in Seaside Park, New Jersey, warranty, training, and all else as specified herein.

Note please include all chassis warranty and body warranty information with bid.

END OF SECTION 11200

