REQUEST FOR TENDER

TENDER	New Truck Mounted Combination Sewer Cleaner
DATE:	September 17, 2020
FROM:	Bill Adams, Utility Manager

TOWN OF DRUMHELLER REPRESENTATIVE

DATE TENDER REQUIRED:

YEAR:	2020	MONTH:	October	DAY:	06	TIME:	2:00 PM

SUBMIT TENDER IN A CLEARLY- MARKED AND SEALED ENVELOPE

SEND or DELIVER TO MAILING ADDRESS:

TOWN OF DRUMHELLER,
224 Centre Street
Drumheller, Alberta T0J 0Y4

ATTENTION: Purchasing Department
Tender: Truck Mounted Combination Sewer Cleaner

Your firm is invited to submit a tender, pursuant to the general conditions for the scope of work as described. The tender must include labor, materials, equipment, delivery and overhead. This request shall not be considered authorization to proceed with the work herein described.

All Procurement processes will be in compliance with the Town of Drumheller purchasing policy.

SECTION #1

INITIATOR OF REQUEST: Bill Adams, Utility Manager

DATE: YEAR: 2020 MONTH: September DAY: 17

1. **SCOPE OF WORK:**

The Town of Drumheller wishes to pursue the purchase one (1) new single engine combination sewer and catch basin cleaner used for removing all debris commonly found in storm basins and leads and/or sanitary sewer lines and manhole structures using a front mounted operating station. The unit shall consist of a centrifugal compressor vacuum system, a hydraulically driven high pressure water pump, an enclosed sealed body for storage of collected debris and equipped with a self-contained water supply as the source for the water pump system. The unit shall have the capability of operating both vacuum and water system simultaneously at full operating speeds continuously. The Centrifugal Compressor system shall be powered by a hydrostatic drive system.

The Town of Drumheller may consider demo units or used 2019/2020 units.

As part of the purchasing process, All tenders must include the trade in value for:
2010 VacCon V311/1300 International 7400 SFA.
Purchase Date: 2009
Mileage: 44,613 KM
Hours: 4,855
Please Note: This unit is still working

The 2010 VacCon can be viewed between the hours of 8:00 am to 4:30 pm
Monday to Friday at the Town of Drumheller Public Works Building located at 702 Premier Way, Drumheller, Alberta
Please call Kevin Blanchett, Operations Manager at 1-403-823-1351
or Bill Adams, Utility Manager at 1-403-8231354 to arrange viewing.

EQUIVALENT PRODUCT

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 Operations and/ or Utility Manager.

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

A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.

BIDDER REFERENCES

To ensure adequate local availability of parts and competent service from experienced suppliers, bids are preferred from local vendors who have sold and serviced at least 4 units of same manufacturer within the service area of The Town of Drumheller is preferred and should include contacts with phone numbers.

The supplier is requested to complete all sections of Appendix A and submit with tender documents.

Appendix A.

New Truck Mounted Combination Sewer Cleaner	Yes	No

1.0	**SUBFRAME**		
1.01	Equipment shall be of modular design consisting of vacuum system, water tanks system, debris body and drive system.		
1.02	Sub frame shall be fabricated to the exact dimensions of the truck chassis for mounting of modular components.		
1.03	Components of the module shall attach to the sub frame and not directly to the chassis.		
1.04	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.		
1.05	Sub frame shall be continuous and uninterrupted from back of cab to end of frame.		
2.0	**MINIMUM CHASSIS REQUIREMENT:**		
2.1	Minimum GVWR: Front Axle 20,000 LBS – Rear Axle 46,000 lbs. – Total GVWR – 66,000 lbs.		
2.2	Allison 3000 series automatic transmission		
2.3	Minimum Engine rating 360 to 390 HP. At 2000 rpm. (For blower/water pump drive purposes only road speeds may require a higher HP.) Provided power train must support simultaneous use of water pump and fan at 100% output.		
2.4	Engine operating design speed: 1700 rpm		
2.5	Provisions for PTO mounted to the transmission		
2.6	Set forward front axle.		
2.7	Driver and passenger air ride seats		
2.8	Minimum 100 Gallon fuel tank		
2.9	Unit may be similar to a Freightliner 114SD or a Western Star 4700 Cab and Chassis		
3.0	**DEBRIS BODY**		
3.01	The body shall be cylindrical having a minimum usable capacity of 10 to 12 cubic yards.		
3.02	The body shall be capable of high dump height of 60". Dump height of 60" must be achieved without the use of scissor lift mechanism.		
3.03	Debris storage body shall be constructed with a minimum 1/4" corrosion and abrasion resistant Ex-Ten steel.		
3.04	Debris storage body shall have a minimum yield point of 50,000 PSI and a minimum tensile strength of 70,000 PSI.		
3.05	Body shall have a rear door that is hinged at the top and is equipped with a replaceable neoprene type seal. Adjustable for periodic compensation of door seal wear.		
3.06	Dual outward mounted rear door props shall be included as standard to prevent operator from entering door swing path when engaging rear door prop.		
3.07	For optimal particulate separation, vacuum shall be drawn from separate ports in the top of the debris body.		
3.08	Body shall be dumped by raising the body to a 50-degree angle utilizing a forward mounted, double acting hydraulic dump cylinder.		
3.09	Dump controls, accessory controls, e-stop control shall be provided at a central curb side location directly behind the cab of the truck.		
3.10	For stability and safety, dumping must be accomplished while the pivot point of the body		

	remains fixed to the sub frame.		
3.11	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.		
3.12	Debris body shall 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 must produce a flow of 80GPM. Control valve shall be on the curb side of the unit.		
3.13	Body shall have a float type automatic shut-off system protecting the Fan System with (2) 10" stainless steel shut-off balls located in the debris body. Each float ball housing shall be within a non-corrosive slide-out screen assembly and be accessed without the use of tools.		
3.14	Debris body shall be equipped with a rear door drain to drain off excess liquids while retaining solids. No valve included		
3.15	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.		
3.16	(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.		
3.17	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).		
3.18	Curb-side, folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted. Shall include quick release retainer handles (no bungees or clamps).		
3.19	Fixed rear door mounted 2-pipe rack shall be provided. Shall include quick release retainer handles (no bungees or clamps).		
3.20	(2) Pipe Storage Racks Curbside waist level and (2) on rear door with quick releases.		
3.21	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.		
3.22	Lubrication manifold system shall be provided to allow ground level greasing of boom lift and swing cylinders, float level indicator, top rear door hinges and debris body hoist cylinder pins.		
3.23	10" valve with 2" vent to atmosphere, electrically activated, air operated valve debris body vacuum relief system shall be located in the inlet of the vacuum system to allow the venting of the tank and relieve vacuum at the debris intake hose.		
3.24	Debris inlet deflector distributing load evenly in debris body shall be included.		
4.0	**WATER TANKS**		
4.01	Water tanks shall be manufactured from a non-corrosive material to prevent rust yet still provide for maximum strength.		
4.02	Water tank material shall require no internal coating and shall be repairable if patching is required.		
4.03	Water tanks shall be easily removed from the sub frame to provide complete access to the truck chassis for maintenance purposes.		
4.04	Water tanks shall be adequately vented and connected to provide complete filling.		
4.05	Water tanks shall be totally separate from the debris tanks and provide no structural support.		
4.06	Water tanks shall share no common walls with the debris tanks to prevent corrosion.		
4.07	Water tanks shall come equipped with an anti-siphon device and 25' of hydrant fill hose and fittings.		

4.08	The water tanks shall carry a 10-year warranty against corrosion or cracking.		
4.09	All water tanks shall be fully baffled to form a maximum compartment storage of 150 gallons for each compartment. Exceptions of requirement shall be explained in detail accompanied with detailed engineering drawings.		
4.10	Water tank shall be located for the lowest possible center of gravity while providing 100% gravity flooded intakes to water pump.		
4.11	Fresh water shall enter the tanks through an in line 6" air gap, all aluminum covered anti-siphon device.		
4.12	Water level sight tubes of non-yellowing plastic shall be installed on both tanks.		
4.13	Sides of these water tanks shall not extend more than 48" out from the centerline of the truck chassis.		
4.14	Fresh water drain system shall be provided to completely drain the fresh water system from one location utilizing the 3" Y-strainer on the pump.		
4.15	Minimum 6" connection between tanks shall be provided.		
4.16	For stability safety, the water tanks shall not elevate with debris body during dump cycle.		
4.17	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.		
4.18	3 in-line "Y" trap strainer shall be located at inlet of water tank fill air-gap.		
4.19	3 in-line "Y" trap Monel stainless steel strainer shall be located between the water cells and water pump.		
4.20	3" Gate Valve shall be provided at water pump.		
4.21	Water tank must be a certified metered capacity of 1300 gallons. Certification shall be necessary upon delivery.		
4.22	Water tanks shall be constructed of 1/8" aluminum with baffled compartments maximum 150 gallons each.		
4.23	Liquid Float Level Indicator shall be provided.		
5.0	**VACUUM/VACUUM DRIVE SYSTEM**		
5.01	Vacuum shall be provided by compressing air within a two-stage 38" diameter centrifugal compressor.		
5.02	Quotes will be considered for a Positive Displacement system, please provide specifications.		
5.03	Compressor fans to be constructed of non-corrosive material.		
5.04	Each centrifugal compressor fan shall be constructed of non-corrosive, hardened chrome blades.		
5.05	Centrifugal compressor shall be warranted against corrosion for five years.		
5.06	Outer housing shall be constructed of 1/4" spun steel.		
5.07	Compressor housing shall be equipped with a drain not exceeding 2" diameter.		
5.08	Complete compressor and housing assembly shall be warranted against materials and workmanship for five years.		
5.09	Transfer case shall be activated by air via a one touch control located in cab with animated confirmation on screen.		
5.10	Compressor Hydrostatic drive system shall utilize electronic controls located at the front operator station. The system shall be controlled on/ off with a switch that may be engaged or disengaged at any operating speed.		
5.11	Compressor controls will have a speed selection switch at the operator station to control compressor speed; manual levers on the hydrostatic pump to control compressor speed will not be accepted.		
5.12	Centrifugal compressor should be driven direct through a helical gear type step-up transmission drive with a step-up ratio 2 to 1.		
5.13	Hydraulic shut off valves shall be provided at the suction, return and filter lines to permit		

	servicing of the hydraulic system.		
5.14	Drive shaft shall be supported via ball bearings and gears.		
5.15	Compressor shall be driven from a closed loop hydrostatic drive system utilizing available chassis power via split-shaft transfer case. The transfer case shall drive a variable displacement hydrostatic pump to energize a closed loop.		
5.16	The pump shall be mounted directly to the split shift transfer case. The pump will have a B10 life Rating of 10,000 hrs. continuous duty.		
5.17	Hydraulic motor powering the compressor shall be a bent axis, bi-directional motor. Motor speed shall not exceed 2,500 RPM.		
5.18	The hydrostatic drive system shall utilize electronic soft start speed control to manage ramping speed.		
5.19	Control system shall provide a mode selection switch to control the compression drive in low vacuum, combination mode and full vacuum settings.		
5.20	Gear drive should attach directly to the rotor shaft without the use of multiple stage V-belts or jack shafts.		
5.21	Gears and bearings shall be lubricated with splash lubrication system, requiring no manual greasing.		
5.22	Drive system shall not utilize pillow block bearings that require excessive daily greasing.		
6.0	**VACUUM BOOM SYSTEM**		
6.01	Vacuum hose shall be designed for front operation with hose mounted and stored at front mounted work station. The hose must also allow for transport with a 5' catch basin tube attached for quick setup. The hose must also be able to be transported fully retracted to eliminate any obstruction to a driver's view of the road. A front mounted location is required for ease of positioning vacuum hose as well as minimizing need for operator to swing hose into traffic.		
6.02	All connections between debris body and vacuum system will be of the self-adjusting pressure fitting type.		
6.03	Vacuum hose will remain stationary and not rise with debris body.		
6.04	Sub-frame mounted cab guard shall be mounted behind cab with boom rest cradle.		
6.05	All vacuum pipes shall be connected to vacuum pick up tube and extension pipes by adjustable over-center quick clamps to join the aluminum flanges on pipes.		
6.06	One (1) quick clamp for each pipe supplied shall be provided.		
6.07	Boom pedestal shall be directly mounted to module sub frame.		
6.08	Boom support used for travel mode shall not interfere with access or require removal to tilt hood forward.		
6.9	Control station shall be equipped with a control joystick for all directions as well as a safety emergency shut-down button, which shall automatically eliminate power to boom.		
6.10	Vacuum boom shall have a heavy-duty flexible hose assembly joining the transition pipe to the debris body make break, and a 7" heavy duty hose at the suction end of the boom.		
6.11	Boom shall rotate 180 degrees and shall be operated by an electric over hydraulic system. Lift and swing movements shall be actuated by hydraulic cylinders.		
6.12	The 10x15 RDB style hydraulic telescopic boom with 180 degree rotation shall be located at the front work station in its retracted position, providing 282" minimum reach off the longitudinal axis of unit, providing a boom work area will be 850 square feet. The moving boom hose shall be 7" x 279" with yellow liner for durability. The boom hose shall hydraulically telescope a minimum of 10 feet forward from the operator's station storage position and shall have the ability to extend the hose downward 15' vertically without activating the hydraulic up/down function.		
6.13	Boom shall be fully controlled by a remote push button pendant control station with 25 ft. cable. Controls to include up / down, left / right, in / out boom functions, vacuum relief, e-stop and main power switch.		
6.14	Joystick for hydraulic control of the boom shall be installed on hose reel front panel.		
6.15	Removable 4" diameter storage "Post" to stabilize the lower boom hose during		

	transport. Storage device shall not interfere with raising hood.		
6.16	Cordless remote boom control system equipped to activate boom functions, throttle, water pump on/off, hose reel in/out, hose reel speed, vacuum relief on/off and emergency disengagement e-stop shall be provided.		
6.17	Detailed engineering drawing must be supplied showing the relationship of the hose reel in relation with the vacuum boom range of motion. Drawing shall show module mounted on chassis, full arc of vacuum hose both retracted and extended, full rotation of arc for hose reel in the extended position and dimension all arc lengths of vacuum boom retracted and extended. Drawing shall highlight intersection areas whereby combination cleaning is possible (within full arc on telescoping boom system).		
7.0	**WATER PUMP AND DRIVE**		
7.01	For most efficient use of horsepower and reduced fuel consumption, high pressure rodder pump shall be hydraulically driven via (2) variable displacement pumps		
7.02	Hydraulic powered rodder pump via (2) variable displacement hydraulic pumps utilizing (2) 10-bolt PTO's.		
7.03	High pressure water pump shall be rated capable of continuous delivery of 100 GPM at 2500 PSI (submit manufacturer support documentation).		
7.04	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.		
7.05	Digital flow meter shall be displayed in front LCD display. Flow meter shall be capable of displaying system flow in all pump operating modes. In addition, a low water alarm shall be provided.		
7.06	Water pump speed to remain fully adjustable via an independent operator input regardless of the selected vacuum drive speed.		
7.07	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.		
7.08	Water (rodder) pump shall include smooth and pulsation operation mode feature without altering pump flow.		
7.09	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.		
7.10	Explanation of forward-acting pulsation method shall be submitted with bid or explained below. Systems that require the use of air induction into the water pump shall not be accepted.		
7.11	Water pump location shall provide a flooded gravity suction inlet to eliminate potential cavitation damage.		
7.12	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:		
7.13	Water pump to provide precise 0-80 GPM controlled flow at variable pressure up to 2500 PSI.		
7.14	Extreme cold weather recirculation system - minimum 25 GPM via transmission PTO at chassis engine idle speed.		
7.15	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.		
7.16	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.		
7.17	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.		
7.18	System shall be relieved to protect operator.		
7.19	Handgun shall be supplied that allows for changing of flow pattern from a fine mist to a steady stream.		

7.20	Handgun shall come equipped with quick connect couplers.		
7.21	An additional 1" water relief valve shall be provided.		
7.22	Mid-ship quick disconnect handgun couplers shall be provided.		
7.23	Hydro-Excavation Package to include lances, nozzles, storage tray, and vacuum tubes. Water system shall allow precise variable flow control range of 0-22 GPM at 2500 PSI with digital flow meter in clear view of adjustment control.		
7.24	A water pump hour meter shall be provided.		
8.0	**WATER RECYCLING SYSTEM**		
8.1	Water lines for the recycling system will be wrapped heat traced, and wrapped with insulation to prevent freezing in cold weather operation		
9.0	**HOSE REEL**		
9.01	Hose reel assembly shall be direct frame mounted.		
9.02	Hose reel assembly shall be mounted on an independent frame that can be removed from brackets attached permanently to front of main truck frame members.		
9.03	Reel will be manufactured out of 1/4" spun steel for added structural strength and shall require no internal or external reinforcements that could damage rodder hose.		
9.04	Hose reel shall be driven by adjustable gear reduction chain and sprocket assembly.		
9.05	Hose reel shall operate at full rotational speed while chassis engine is at idle.		
9.06	Hydraulic Telescoping Rotating Hose Reel – 800’ capacity of 3/4" hose shall be provided.		
9.07	Front mounted hose reel shall telescope 15" forward down centerline of truck.		
9.08	Entire reel assembly shall rotate 270 degrees on a large diameter ball bearing.		
9.09	Hose reel shall include a dual locking device to positively lock reel in any position across operating range.		
9.10	Hose reel shall rotate about the reel assembly centerline so the reel shall never extend beyond the truck width. Reel coverage diagram shall be submitted with bid.		
9.11	Controls shall accessible on both sides of the hose reel via a mounting station for the belly pack wireless remote control, allowing operator to work at either side of unit for safety purposes.		
9.12	500' x 1" Piranha Sewer Hose / 2500 Psi shall be provided		
9.13	Hose footage counter shall be supplied to indicate the amount of hose travel within pipe.		
9.14	Digital footage counter displaying footage values shall be provided. System must be capable of resetting value to ensure operator safety. Accuracy to within one percent of actual distance, large easy to read LCD screen located on the 7” front control panel screen.		
9.15	Lateral cleaning kit shall be provided, behind truck cab, equipped with 1/2 x 150' x 2000 psi hose and jetting nozzle.		
9.16	10' Leader Hose		
10.0	**HYDROEXCAVATION PACKAGE**		
10.01	Water heater shall be rated at 400,000 BTU.		
10.02	Heater shall have a no flow or high temperature burner shutdown, a dial type thermostat for temperature control, a pressure gauge on the inlet of the heater and a temperature gauge on the outlet of the heater.		
11.0	**WASHDOWN EQUIPMENT**		
11.01	Handgun with 1/2" x 35' hose shall be provided at mid-ship to which allow the operator to deliver water to area served by pick up hose and to the inside of the debris body for clean out.		
11.02	Hand sprayer with adjustable spray-pattern to be provided with trigger-style gun.		
12.0	**IN CAB CONTROLS**		
12.01	All in cab controls are to be located on a single in cab control screen. This shall be a 7” 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.		
12.02	Back up camera features shall be displayed on the In-Cab Control Screen.		
12.03	Work lights shall be able to be activated or deactivated in cab with on screen controls.		

12.04	Standard arrow boards or arrow stick shall be controlled via an on-screen controller		
12.05	Safety strobes and beacons shall be controlled via on screen controller		
1206	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.		
12.07	Recirculation must be activated on the in-cab control screen and visibly show that it is active at all times.		
13.0	**FRONT OPERATING STATION AND CONTROLS**		
13.01	Primary operator station will be located at front of truck on right curb side of hose reel.		
13.02	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 of not less than 8’ to accommodate operators of different height.		
13.03	Station shall include a 7” 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.		
13.04	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		
13.05	Tachometer and hour meter for chassis engine provided at control station shall be provided.		
13.06	Hydraulic Functions - color coded, sealed electric/hydraulic NEMA 4 switches shall be provided.		
13.07	Fan Engagement/Vacuum Relief - sealed electric/Air NEMA 4 switch shall be provided.		
13.08	Water pump hour meter shall be provided.		
13.09	PTO hour meter shall be provided.		
13.10	Front control screen shall display a water level indicator to show level of water through the range of the tank.		
14.0	**ELECTRICAL & SAFETY LIGHTING**		
14.01	The entire system shall be vapor sealed to eliminate moisture damage, "Nema-4" type or equal.		
14.02	IQAN Electronic Package: Chassis Tachometer, Blower Tachometer, Operating Mode, PTO Mode, Hydraulic Oil Temperature shutdown, Hose Reel Speed, Water Pressure, and E-Stop shall be included. E-Stop activation must turn off rodder pump, shutdown Hydraulics, set chassis throttle to idle, stop vacuum E-stop must be located at each operator interface; including hose reel controls, pendant control, wireless control (if equipped) diagnostics for basic machine functions and all inputs and outputs shall be accessible via the display. Advanced diagnostics, updates, data retrieval, and remote diagnostics will be available via PC or Bluetooth connection.		
14.03	Logs, reports, and hour meters will be accessible via the display.		
14.04	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.		
14.05	Wiring shall be color-coded and encased in conduit to scaled terminal boxes with circuit breakers.		
14.06	All other lights required by State and Federal Laws.		

14.07	Two-piece directional LED 10-strobe-light arrow board shall be mounted on rear door of debris body, with controls mounted in cab.		
14.08	Handheld, Pistol Grip LED Spot light with rechargeable Lithium Ion battery.		
14.09	Strobe L.E.D. Amber Beacon-Rear Door-Facing rear shall be provided.		
14.10	Strobe L.E.D. Amber Beacon- Front Cab Guard mounted shall be provided.		
14.11	Operator station shall have back lit buttons for low light operation.		
14.12	(2) L.E.D. Boom work lights shall be provided.		
14.13	L.E.D. Work light at midship curbside shall be provided.		
14.14	L.E.D. Lights, Clearance, Back-Up, Stop, Tail & Turn shall be provided.		
14.15	Light Package, 6 Strobe lights to include Mirrors		
15.0	**SAFETY EQUIPMENT**		
15.01	E-stop shall be located at each operator interface location. Standard locations to include: front hose reel, mid-ship curbside dump controls, & wireless controller (if equipped.)		
15.02	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.		
15.03	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.		
15.04	(1) Emergency Flare Kit		
15.05	(1) 5# Fire Extinguisher.		
15.06	7" dash monitor, 1-camera system shall be provided. A rear back-up color camera with 130 degree viewing angle shall be provided. Camera to have automatic activation when the unit is switched to reverse.		
15.07	Digital water pressure shall be displayed in front LCD display. Pressure gauge shall be capable of displaying water system pressure in all pump operating modes.		
16.0	**SEWER TOOLS AND ACCESSORIES**		
16.01	(1) 30 Sand Nozzle		
16.02	(1) 30 deg. Sanitary Nozzle		
16.03	(1) 15 deg. Penetrator Nozzle		
16.04	(1) 1" Small finned nozzle pipe skid		
17.0	**VACUUM TOOLS AND ACCESSORIES**		
17.01	The basic vacuum tube package shall include the following:		
17.02	(1) 7" x 3' aluminum pipe		
17.03	(2) 7" x 5' aluminum pipe		
17.04	(1) 7" x 6'6" catch basin tube		
17.05	(4) 7" quick clamps		
18.0	**CHASSIS EQUIPMENT AND STORAGE**		
18.01	Two (2) front tow hooks shall be provided.		
18.02	Two (2) rear tow hooks shall be provided.		
18.03	Partial Aluminum Toolbox - Behind Cab		
18.04	(1) Aluminum Toolbox with nozzle storage and dump controls mounted curbside shall be provided.		
18.05	Insulated and heated toolbox shall house HXX hose reel, handgun hose reel, or both, with as many water valves as possible located inside this cabinet.		
18.06	Reels shall operate with heated cabinet doors closed.		
19.0	**MODULE FINISH**		
19.01	Painting of the module shall be with a DuPont Imron Elite Polyurethane Enamel Top Coat. Application is to be a wet top coat applied to a dried and sanded primer base.		
20.0	**CHASSIS SPECIFICATION**		
20.01	The unit shall be a new model. No discontinued models will be accepted		

EVALUATION CRITERIA:

Each tender received will be evaluated on the basis listed below. The Town of Drumheller will have the sole and unfettered discretion to award up to the maximum number of points for each criterion listed below.

By submitting a tender, each supplier acknowledges and agrees to waive any right to contest through legal proceedings. The decision to award points in respect to the criteria noted below will be at the sole discretion of the Town of Drumheller.

Criteria	**Weighting (%)**
Cost	65%
Specification Requirements	10%
Warranty: Bumper to Bumper and Power Train	10%
Warranty: Vacuum Unit and all components	5%
Availability (Delivery Time)	10%

SECTION #2 *(TO BE COMPLETED BY CONTRACTOR)*

Cost for new Truck Mounted Combination Sewer Cleaner $_____
Less trade in value for the 2010VacCon V311/1300 International $_____
Total cost with trade in $_____

Tender submission price in effect for _____ days from date of acceptance from the Town of Drumheller.

Warranty will commence on the date the unit is delivered to the Town of Drumheller Shop, located at 702 Premier Way and after the supplier has completed a machine orientation with Town Staff.

Project completion date _____ Calendar days from award date.

TENDER INELIGIBILITY

The specification herein states the minimum requirements of the Town of Drumheller. All bids must be regular in every respect. Tenders that are unsigned, incomplete, improperly signed or sealed, conditional, illegible, late, obscure, contain arithmetical errors, erasures, alterations or irregularities of any kind may be considered invalid.

Any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the Town of Drumheller to make a reasonable determination of compliance to the specification will be considered "non-responsive" and grounds for rejection.

The lowest, or any evaluated tender, may not necessarily be accepted. The Town of Drumheller reserves the right to reject any or all tender or to accept the tender evaluated to be in the best interest of the Town of Drumheller.

SECTION #3

INTENT

The undersigned contractor hereby provides a tender to supply and deliver the equipment as described within its entirety for the cost as described in section #1 Item 1.

CONTRACTOR: _____

Print name of authorized personnel: _____

Signature: _____

Email address: _____

TOWN OF DRUMHELLER: _____

Print name of authorized personnel: _____

Signature: _____ signature: _____

Date: Year 2020 Month _____ Day _____

Upon completion of signatures above, this document will represent a contract agreement between the contractor and Town of Drumheller.

Acknowledgement of Receive Of Addenda

Addendum No._____ Date: _____

Addendum No._____ Date: _____

Addendum No._____ Date: _____

Addendum No._____ Date: _____

Addendum No._____ Date: _____