BID PRICING FORM - ATTACHMENT B

FOB POINT

The FOB Point, in terms of loss or damage, as well as where title to the goods is passed, shall be FOB - Destination.

Cab and Chassis

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
1	Axles/Suspension				
	Axles and springs shall be sized to handle catch				
	basin/sewer vacuum and body				
	20,000 lb front axle and springs				
	40,000 lb rear axle minimum				
	20,000 lb flat leaf front suspension				
	40,000 lb flat leaf rear suspension				
	Shock absorbers front and rear				
	Synthetic oil lube for both axles				
	Axle ratio = 5.57, 70 to 75 mph @ governed rpm				
	Hendricks RT-403 rear suspension				
2	Brakes				
	Air antilock brakes with traction control				
	Heated air dryer with automatic drain				
	Long stroke brake chambers with automatic slack				
	adjusters				
	Engine exhaust brake				
3	Bumper				
	3 piece with breakaway ends				
4	Cab and Chassis				
	Conventional day cab				
	Straight frame rail chassis suitable for mounting				
	catch basin/sewer vacuum				
	Cab to axle: 210 inches, AF: 63 inches minimum				
	276" Wheelbase				
	Overhead console with reading lights, map				
	pockets in doors, power windows and locks,				
	lighted cab steps, cup holders				
	All interior sheet metal covered, extra sound				
	insulation package				
5	Electrical	T	<u> </u>		
	2 battery heavy-duty 12-volt, 1950 CCA total with				
	remote jump start stud, battery box under cab				
	Alternator, 200 amp				
	Accessory switch panel with 8 switches with				
	indicator lamps, switches 1-3 fed from battery,				
	others from ignition circuit (provide template for				
	selecting switch locations if possible)				
	Gear reduction starter with thermal overload				
	protection		<u> </u>		
6	Engine		T	1	
	370 HP @ 2000 RPM; 2500 GOV1150 LB/FT @				
	1300 RPM Cummins ISL9 Engine shall be capable of providing total required				
	horsepower plus reserve for catch basin/sewer vacuum				
	vacuuiii	<u> </u>		1	

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
7	Engine Warning System	'			
	Buzzer and light for low oil pressure, low water				
	level and high water temperature required				
8	Exhaust System			•	
	Right hand side vertical				
9	Frame			•	
	2,800,000 – 3,000,000 RBM				
	Front frame extension				
10	Fuel Tank				
	One (1) 100-gallon (or 2 50-gallon) fuel tanks				
11	Grab Handles				
	Exterior left and right sides; interior right side				
12	Heater/Defroster/AC				
	Heavy-duty heater with defroster and standard air				
	conditioning				
13	Instrumentation				
	Full gauge package: oil pressure, engine				
	temperature, voltmeter, odometer, speedometer,				
	tachometer, fuel, air pressure				
	Engine hour meter				
	Electronic throttle control				
	Transmission temperature gauge				
14	Interior Lights	T	T		
	Standard dome light				
15	Mirrors	1			
	Break away heated power convex mirrors, power				
10	adjustable				
16	Power Outlets Pack mounted 12 yells quantity of 2	Ī			
17	Dash mounted 12-volt, quantity of 2 Radio				
1/	AM/FM/WB stereo with clock, antenna shall be	1			
	clear of boom operation, relocate as necessary				
	(mirror or fender mount antenna OK)				
18	Seating				
	Two (2) air-ride cloth-covered seats w/armrest				
	(both driver and passenger)				
19	Steering	L			
	Power steering, 53 degree wheel cut				
	Tilt and telescoping adjustable				
20	Sun Visors			•	
	Dual padded				
21	Tires				
	G286 425/65R22.5 20-ply radial front tire				
	G164 RTD 11R22.5 14-ply radial rear tires				
22	Tow Hooks				
	2 tow hooks on front and rear, frame mounted				
23	Transmission				
	Allison 3000 RDS automatic 6-speed wide ratio				
	heavy-duty transmission with push button keypad,				
	PTO provisions, with synthetic lubricant				
24	Color	1			1
	White paint on cab				

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
25	Windshield Wipers				
	Dual intermittent wiper system				
26	Back-up Alarm				
	95 dB minimum				
27	Additional Specifications				
	Cold weather cover for grille				
	Dual saddle tanks each side of cab				
	Extended life antifreeze to -34 degrees F				
	Front license plate holder				
	Battery disconnect in cab located next to driver's				
	seat				
	One pair rear mud flaps and aluminum fenders				

Catch Basin/Sewer Vacuum

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
1	General Requirements	Wicer Spec	Spec	Эрсс	Comments
-	The combination catch basin/sewer and high				
	pressure cleaner, hereafter referred to as				
	"machine", shall be capable of removing stones,				
	grit, sand, grease, sludge and other debris from				
	sanitary sewer and/or storm drain lines by				
	flushing action of high pressure water				
	The machine shall include a vacuum system to				
	provide for the simultaneous removal of the				
	debris flushed to the manhole or for the removal				
	of debris from sewers, sumps, catch basins, wet				
	wells, digesters, bar screens, etc.				
	The machine shall be capable of being operated				
	by one person with all operating controls for				
	high-pressure water pump, hose reel and vacuum				
	located at the front of the machine				
2	Instrumentation				
	Electronic throttle control for engine(s)				
	An emergency shutdown/kill switch located at				
	the operating station and at side controls				
	Hose reel direction, flow control valve and speed				
	control located at operator's station by reel				
	Single lever water control valve shall regulate				
	direction of water to hose reel or back to tank				
	utilizing a high-pressure valve assembly				
	Water pressure gauge built into data screen				
	The control panel shall move with the hose reel				
	when it is articulated for operators' safety and				
	ease of operation				
	Single lever for alternating hydraulic control				
	between both hose reels				
	All gauges, switches and levers necessary for the				
	operation of the unit shall be grouped on a single				
	control panel adjacent to the hose reel so the				
	operator may have complete control of the				
	cleaning operation while standing at one location				
				•	•

Minimum Specification Electronic throttle control for engine(s) Two quick disconnect connections for water handgun supplied: One at the control station and one mid truck Receptacle for boom control pendant Control box in cab, mounted on back wall of cab in between seats 3 Water Supply Tank The capacity of the water supply tank shall be at least 1500 gallons Construction shall be high-density polyethylene with ultraviolet inhibitors to prevent undue brittleness when exposed to sunlight and shall be of round design for additional strength with built in baffles Alumina can be substituted for tank material Tank shall have sight gauge visible from operator's station and also sight gauge built into data screen at control panel The tank shall be mounted over the rear axle for optimum load distribution The tank shall have a minimum 10 year standard manufacturer's warranty A 2-1/2" overhead- type tank filling assembly shall be a dual crossover filling system to fill both tanks simultaneously and from either side of the truck A positive air gap anti-siphon system shall be incorporated to protect the potable water supply A 25' X 2-1/2" curbside filler hose with fittings and carrying rack will be included; City will supply unique type fittings The tank shall be vented and fitted with a suitable removable port to permit inspection and access into the tank The system shall incorporate a suction line and a sloped bottom tank to permit utilizing the entire	
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sloped bottom tank to permit utilizing the entire	
bottom portion of the tank and settling chamber	
for heavy materials and to eliminate the	
possibility of these materials reaching the pump A final strainer shall be provided in the main	
water pump feed line	
Minimum 4 inch interconnects between tanks	
with ability to isolate a tank for repair	
Low water alarm warning with warning light	
The tank shall be mounted in such a manner as to	
prohibit torsional racking of the frame from	
transmitting through the tank	
The tie down securement shall be painted; nylon	
tie down straps will not be accepted	
The tank shall have a minimum 2-1/2" ball valve	
for isolating the filter strainer	

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
4	Pump	1	1 54 55	1 -1	1
	The pump shall have a minimum 5-year standard				
	manufacturer's warranty				
	The pump shall have a minimum oil capacity of 2				
	quarts of tri-plex design				
	Pump to have continuous rating of 100 GPM at				
	3000 PSI at the nozzle with variable hydraulic				
	flow control				
	Provide 2 accumulators as required to eliminate				
	pulsation				
	Valves shall be hardened stainless steel disc type with stainless steel valve springs				
	Electric dial at control panel to engage and				
	disengage water pump				
	Pump shall be capable of running dry for purpose				
	of purging water from entire system of water				
	lines including hose				
	One 2-way ball valve for sewer nozzle operation				
	located at front of unit				
	Odometer shall not operate when pump is in				
	operation to eliminate premature truck warranty				
	expiration				
	Hour meter to record pump use				
	Pump shall remain flooded at all times when				
	water is in the tank to eliminate pump cavitations				
	Pump must not require priming				
	Pressure regulator set at 80 gallons/minute, 2500				
	PSI with water return to water tank				
	Regulator shall be repairable				
	Pump driven hydraulically by a tandem hydraulic				
	pump powered by a transmission mount hot shift PTO				
	Air purge system with air valve and needle valve				
	located on a pressure outlet on the water pump				
	will be provided				
	Powered by a variable speed, closed- loop				
	hydrostatic system				
	Minimum 30 gallon hydraulic reservoir with sight				
	eye and thermometer				
	Working hydraulic hoses to be a minimum of 1.25				
	inches I.D.				
	Hydraulic pump to be capable of pressures to				
	6000 PSI and flows to 89 GPM				
	Integrated to the hydrostatic pump shall be a				
	charge pump				
	Hydrostatic pump case pressure not to exceed				
	240 PSI to assure long seal life and not				
	contaminating the environment due to leaking of hydraulic oil				
	Filters shall include a 10 micron filter for the				
	charge pump and a 10 micron spin on filter for oil				
	returning to the reservoir				
	An oil cooler rated at 153,000 BTU per hour, with				
	double 12 volt electric fans shall be included				
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	Minimum Charification	Does Not	Meets	Exceeds	Commonts
	Minimum Specification	Meet Spec	Spec	Spec	Comments
	Fans shall turn on automatically when water pump is engaged				
	The hydrostatic motor shall have a minimum				
	rating of 89 GPM / 6000 PSI, be flange mounted				
	to the water pump, and be controlled by an				
	operator panel mounted variable speed, dial type				
	potentiometer				
	Water pump will provide continuous water flow				
	and pressure				
	Piston and/or packing must not require greasing				
5	Tank Drains				
	6-inch diameter tailgate drain with standpipe,				
	knife valve with locking handle and 10 feet of				
	fabric drain hose supplied				
	Drain hoses equipped with quick-lock clamps for				
	easy removal				
	Automatic pump off system with 420 gpm				
	plumbed to front bumper with 3-inch ball valve		<u> </u>		
	Pump to be located outside of tank toward front				
	of tank				
	Body drains capable of pneumatic back flushing				
6	in order to unclog without opening tailgate				
6	Air Purging System Supply self-contained system for purging water	Ι	T T		
	from jetting hose, handgun lines and pump to				
	prevent freeze-up				
	Air supplied by truck air compressor with				
	appropriate safety check valves for brake system				
7	Winter Recirculation				
	A system will be supplied to prevent freeze-up by				
	pumping water through system including hose				
	reel while driving to job site				
	Winter recirculation system will enable travel				
	over the road without damaging pump, drive				
	systems or truck transmission				
8	Tool Boxes				
	Two horizontal aluminum toolbox on passenger				
	side, 18"H x 18"W x 60"L				
	Toolbox to be weather tight and lockable				
	If space allows, size of toolbox can be increased				
	One horizontal open channel, with coat brackets				
	to carry long-handled tool/hose tray along curb				
	side of machine, and one on the street side				
	One vertical, aluminum storage compartment located behind cab, 60"W x 60"H x 20"D				
	minimum				
	Tool compartment to be weather tight and		<u> </u>		
	lockable				
	If space allows, size of toolbox can be increased				
9	Hose Reel				
	The hose reel shall be front mounted near the				
	center of the unit with 180-degree articulation to				
	facilitate manhole entry and reduce traffic				
	interruption				
	facilitate manhole entry and reduce traffic				

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
	Hose reel minimum capacity of 1000' of 1" sewer	wicet spec	Spec	Spec	Comments
	hose				
	Hose reel to be self-supporting				
	800' reel of 1" sewer hose supplied, capable of				
	2500 PSI working pressure and burst pressure of				
	6250 psi				
	Hose footage counter to be built into data screen				
	Reel frame must be capable of extending out and				
	pivoting down for full opening of the engine				
	compartment cab hood by use of an electric over				
	hydraulic system powered by a 12 volt DC power				
	pack Auto/Manually controlled level wind with tension				
	guide and backlash prevention system				
	The hydraulic power for driving the hose reel				
	shall consist of a hydraulic pump gear direct				
	driven by the engine, a direction and a speed				
	control valve with a built in overload relief and				
	hydraulic hose rated to withstand the maximum				
	system pressure			<u> </u>	
10	Power Boom				
	The power boom shall have a minimum of 250-				
	degree hydraulic rotation and be lockable in any				
	position				
	Boom rest mounted behind cab				
	Boom shall not rise with debris body				
	Minimum 8' telescopic boom extension Joystick mounted to hose reel control station for				
	boom functions: up, down, left and right				
	Remote 20 function pendant control of 25 feet			1	
	Flapper valve and vent door or equivalent				
11	Vacuum Tubes and Brackets	1	1	1	l .
	8" O.D. aluminum tubes with male/female				
	fittings				
	One 7-foot section, two 5-foot sections, and one				
	3-foot section supplied, including one gasket and				
	over center clamp for each tube supplied				
	Behind-the-cab vertical tube storage rack, two (2)				
	3-tube vertical storage racks				
	Hydraulic up/down four tube rack on back of tailgate				
	One 8" x 2' fluidizer tube capable of removing				
	material below water at depths of up to 75'				
12	Water Wash Down System	I 		•	
	Pump will supply water with means of regulating				
	pressure from 0 to 2000 PSI available at handgun				
	35' retractable hose reel mounted curbside, no				
	higher than 6'				
	Quick disconnects (front/side-behind cab,				
	passenger side) for handgun				
13	Piping All piping systems subjected to high pressure				
	All piping systems subjected to high pressure shall be fabricated of schedule 80 pipe with				
	forged steel fittings				
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Minimum Specification Pump suction lines and low pressure return piping systems may be standard weight pipe with maleable fittings Dual hydraulic real 35' retractable spool, current hammer is 20 gpm max. Psi 150 Hose connections mounted curbside, no higher than 6' A strainer shall be installed in the suction line to prevent foreign material from damaging the pump, and at location permitting ease accessibility for cleaning The unit design shall incorporate steel tubing running from the water pump area to the hose reel; this design will provide less down time and quicker repairs Hoses running the total length of the unit are unacceptable Pressure to the sewer-cleaning nozzle shall be regulated by a relief valve adjustable from 0-4000 PSI The valve must be repairable; throwaway type sealed units are not acceptable 14 Debris Vacuum Tank Minimum useable liquid capacity of 12 cu yard Designed to withstand 360' of water vacuum Abrasion and corrosion resistant 1/4" minimum steel plate construction, cylindrical in shape Minimum steel yield point of 50,000 psi and minimum steel itensile strength of 70,000 psi if Corten or Exten steel is supplied inside the debris body, it must be coated and carry a 10 year warranty against coating, scuffing or peeling causing accelerated deterioration One internal stainless steel float hall supplied for automatic vacuum system shut off when unit is full Hydraulic powered open full height and width rear door, hinged at top with self-compensation neoprene seal located on door; hydraulic wedge only Exterior liquid level gauge, visible from operator station Controls for latching/unlatching, operating/closing, and raising/lowering the debris body must be located on the side and forward of the debris tank internal tank flushing system with 1" diameter Schedule 20 high-pressure pipe Flushing system capable of 2500 psi Front gravity drân valve shall be a minimum 6" diameter opening for deanting of liquids Quick disconnect fittings			Does Not	Meets	Exceeds	
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		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
15	Body Unloading System	ı		T	
	Ejector type body with push plate dump with				
	compact system and full diameter splash shield				
	The body is to have a minimum dump angle of 24				
	inches				
	Body wash out system shall be installed forward				
	in the vacuum tank				
	The body washout system shall have a 3 way ball				
	valve for utilizing the main water pump pressure				
	The rear door to be full diameter open in accordance with OSHA safety features for lock-				
	out/tag-out				
	Rear pivot pins to be greaseable				
16	Vacuum Pump				
10	Vacuum system to be a positive displacement,	I			
	rotary lobe blower				
	Pump shall be rated for continuous duty at 18"				
	Hg vacuum with a bearing B10 life of 30,000				
	hours				
	Blower to be capable of airflow from 0-4500 CFM				
	with capabilities of 3650 CFM inlet volume at 18"				
	Hg vacuum at 2250 RPM; Roots Model 824 or				
	approved equivalent				
	Three vacuum relief valves				
	System to incorporate a centrifugal (Cyclone)				
	separator, 2000 square inches				
	Final filter/strainer between debris body outlet				
	and vacuum blower inlet to protect blower				
	Screen to be stainless steel and removable for				
	cleaning				
	Unit equipped with a high efficiency exhaust				
	silencer				
	Noise level limited to 100 decibels at 6' height				
	within 5' and around perimeter of machine				
	Control panel to engage and disengage vacuum				
	pump located at front work area				
	Vacuum source shall not require daily greasing				
	Odometer shall not operate when vacuum				
	system is operating to eliminate premature truck warranty expiration				
	Hour meter to record vacuum usage				
	The pump and hydraulic motor shall be mounted				
	for easy access				
	The Filtration system shall utilize a minimum of				
	the following:				
	a. Primary moisture trap and float ball				
	b. Final filter				
	c. All traps shall incorporate full opening access				
	doors for cleaning and maintenance				
	The hydraulic system on off and speed controls				
	shall be mounted on the hose reel control panel				
17	Miscellaneous				
17A	Jackhammer – to be determined at pre-bid				

Minimum Specification Nozzles Three standard cleaning nozzles for the size of hose for: cleaning, penetrating, and rotating, Root Rat Three skids for 6, 8, 10 inch for the nozzles Minimum 5000 PSI rated handgun with 50' of 1/2" hose with retractable reel A self-lubricating/no maintenance chain hydro cutter/saw that uses chain or cable for cutting 2-1/2" x 25' fill hose with fittings for filling water tanks One tiger tail hose guide with rope 17C Lights 2 - Revolving light Whelen R1LPPA mounted to be clearly visible front and rear One mounted front over the cab and visible from the front One on vac body visible from the rear and clearly visible to oncoming traffic Rear mounted arrow stick ECCO LED 3300 series Three evenly spaced Vertex strobes down each side of truck, Whelen VTX609A, at car/eye level ECCO arrow stick on front of vehicle over cab for traffic direction, mounted over cab on a bracket with one of the top lights Hand light rechargeable with mounting station in cab Two LED work lights at operator station Two adjustable LED work lights at midship on both sides of unit Cordless handlight with 12v charging station mounted in cab Jetter body color – safety orange	
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Cordless handlight with 12v charging station mounted in cab	
mounted in cab	
letter hody color – safety orange	
· · ·	
Tow hooks with chassis, front and rear	
Backup camera with 7 inch display screen	
Circuit Boss – Circuit isolator #70207 (7 circuits)	
Painless is the current product line we use	
configured as follows:	
Circuit 1-3 – constant power	
Circuit 4-7 – ignition powered	
Exact connection to particular component will	
be determined with successful bidder	
18 Training Fight hours of machanic lovel training to include	
Eight hours of mechanic level training to include	
preventative maintenance, adjustments and	
common maintenance insights from the manufacturer	
Eight hours of operator level training to be	
determined by customer after purchase	
determined by customer after purchase	

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
19	Electrical Connections (all connections must met t			Spec	Comments
19	All lighting used shall be, at a minimum, a two (2)	ilis stallualu li			I
	wire light grounded through a wired connection				
	to the battery system				
	Wiring shall be run in loom where exposed, and				
	have grommets or other edge protection where				
	wires pass through metal				
	Exterior exposed wire connectors shall be				
	positive locking, and environmentally sealed to				
	withstand elements such as temperature				
	extremes, moisture and automotive fluids				
	Electrical wiring and equipment shall be installed				
	utilizing the following guidelines:				
	All wire ends not placed into connectors shall be				
	sealed with a heat shrink end cap. Wires without				
	a terminating connector or sealed end cap shall				
	not be allowed.				
	All holes made in the roof shall be caulked with				
	silicon (no exceptions)				
	Corrosion preventative compound shall be				
	applied to non-waterproof electrical connectors				
	located outside of the cab or body. All non-				
	waterproof connections shall require this				
	compound in the plug to prevent corrosion and				
	for easy separation of the plug.				
	Any lights containing non-waterproof sockets in a				
	weather-exposed area shall have corrosion				
	preventative compound added to the socket				
	terminal area				
	Rubber coated metal clamps shall be used to				
	support wire harnessing and battery cables				
	routed along the chassis frame rails				
	Heat shields shall be used to protect harnessing				
	in areas where high temperatures exist.				
	Harnessing passing near the engine exhaust shall				
	be protected by a heat shield				
	For ease of identification, battery cables shall be				
	color coded. All positive battery cables shall be				
	red in color or wrapped in red loom the entire				
	length of the cable. All negative battery cables				
	shall be black in color.				
	Wire connections shall be made using crimp style				
	heat shrink butt splice connectors or soldered				
	connection covered with heat shrink. If crimp				
	style connector is used, crimping tool Westward				
	13H876 or equivalent must be used to prevent				
	piercing heat shrink. Solder sleeve butt splice				
	type connectors shall not be allowed.				

Description				Firm fixed price		
Price	e for one (1) tandem axle sewer vacuum truck per the s	pecifications in the bid docum	ents	\$		
Tandem axle chassis manufacturer Model Year						
Is chassis dealer authorized by the manufacturer to sell, warrant and service equipment as bid Yes No						
Sewer vacuum manufacturer						
Is sewer vacuum dealer authorized by the manufacturer to sell, warrant and service equipment as bid Yes No						
Descriptive literature included with the bid submittal Yes No						
Warranty information included with the bid submittal Yes No						
<u>OPTIONS:</u> (may be required): price the following options accordingly. In addition, provide your option order number for use when placing an order for this vehicle. Additionally, please include any options or optional configurations that might be of interest to the City. Include the cost adjustment to be added to or subtracted from the base price.						
	DESCRIPTION			TION ER NO.	UNIT PRICE	
1.	Stainless steel debris tank in lieu of steel (put price difference between the 2 in the Unit Price column)	Standard w/Model Not Available w/Model			\$	
2.	10-year warranty on the debris tank	Standard w/Model Not Available w/Model			\$	
3.	Hydro excavation kit	Standard w/Model Not Available w/Model			\$	
4.	Central grease fitting manifold (centralizing common grease fittings in one location)				\$	
5.	Extended warranty package				\$	
6.	2000-gallon water supply tank (put price difference				\$	
	between the 2 in the Unit Price column)					
7.	Wireless 20-function remote for all hydraulic functions				\$	
Estimated Delivery Time Upon Receipt of Purchase Order Calendar Days Dealer Name						
Dealer Representative Signature Date						
DELIVERY ADDRESS BILLING ADDRESS						
		Finance Department – Accounts Payable				
Joy Huber Fleet Services Division		City of Cedar Rapids				
500 15 th Ave SW		101 1 st St SE				
	ar Rapids, IA 52404	PO Box 2148				
		Cedar Rapids, IA 52406-2148				