

**VILAS COUNTY
HWY. DEPT.
P.O. Box 1568
2104 North Railroad St.
Eagle River, WI 54568
715-479-4641**

Specifications for one single axle patrol truck

Proposal DEADLINE: May 16, 2017 AT 9:00 AM

All bids will be opened at the Vilas County Highway Department, located at 2104 N. Railroad Street, Eagle River, WI 54521 upon bid closing. Awarding of the bid is contingent upon Vilas County Highway Committee approval at their May 16, 2017 meeting. All bids must be sealed and clearly marked Single Axle Patrol Truck Chassis. Contact the Highway Dept at the above address for bid specification package. You may also go to the departments website.

The Vilas County Highway Committee reserves the right to accept or reject any or all bids, or accept the bid deemed most advantageous to the Department.

SPECIFICATIONS FOR ONE SINGLE AXLE PATROL TRUCK

1. **SINGLE AXLE TRUCK** 43,000 Lbs. GVW. Wheelbase 185.00. This truck will be a single axle truck with dump body. Chassis clear frame with 20 – 24 inches of ground clearance from back of transmission to front drive axle. High ground clearance package to accommodate turnable underbody scraper.
2. **ENGINE** – PX9 engine with engine brake, emission system to be equipped with manual and inhibit regeneration switches mounted in cab, liquid cooled, 380 hp minimum with minimum 1,250 foot pounds of torque. Automatic on/off control cooling clutch fan. Oil, coolant, and fuel filters with water separator and fuel heater. Fuel priming pump. Engine mount air cleaner single element. Automatic engine shut down system with manual override. Heavy-duty radiator with coolant reservoir. PTO mount on front of engine for front mount hydraulic pump. PTO shaft must be under radiator.
3. **EXHAUST SYSTEM** - Horizontal SCR/DPF will be located under cab with vertical pipe, turn out stack tip and safety guard. Exhaust stack tip will be low enough as not to obstruct the strobe light bar. 2:1 DEF tank capacity.
4. **TRANSMISSION** - Allison 3000-RDS automatic 5th generation controls. Oil level sensor. Vehicle must have a speed signal wire connection in cab for spreader control using closed loop and ground speed sensing, oil cooler water to oil. Transmission shift control to be standard push-button type for Allison 3000 & 4000 series. Transmission ECU to be mounted inside cab.
5. **AXLES** - 20,000 pound set forward front axle. Dana Spicer 23,000 pound rear axle with driver controlled locking differential. Iron ConMet preset plus hubs. All wheels include dust shields.

6. **SUSPENSION** - Front 20,000 pound minimum capacity set forward axle with tapered leaf springs. Rear suspension to be 23,000 pound minimum capacity Neway suspension with dual leveling valves to be adjusted individually to accommodate rear mounted wing. Rear suspension must provide a clear frame behind drive axle.
7. **FRAME** - Heavy-duty full channel reinforced frame with a minimum 120,000 PSI heat treated, single channel. Integral front frame, factory extended a minimum of 18 inches ahead of radiator grille, no bolt on or weld on extension will be accepted. Leave frame clearance for turnable underbody.
8. **WHEELS & TIRES** – Front Michelin XDN2 Grip 315/80R22.5 20 ply tires with 22.5x9.00 Alcoa aluminum wheel compatible with air disc brakes. 10-Stud Hub Pilot. Rear XDN2 11R22.5 14 ply tires with 22.5x8.25 Alcoa aluminum wheel compatible with air disc brakes.
9. **BRAKES** – Bendix air disc brakes. Air compressor to be minimum 13.2 C.F.M. Air tanks must be mounted so as not to interfere with the dump body, underbody scraper and wing plow. Low pressure buzzer and air pressure gauges. Bendix AD-1S air dryer with heater, vertical mount, located on frame rail clear of underbody scraper.
10. **POWER STEERING** - Hydraulic power steering with dual steering gears.
11. **FUEL TANK** – 60-80 gallon fuel tank mounted behind cab.
12. **CAB** - Standard Interior and trim. Conventional air ride cab with tilt hood, stationary grille with rock guard, air conditioning, AM/FM radio, Electric horn and two air horns, sun visors and arm rests, lower right door window with non-magnifying glass, two corner and one rear cab window. Heavy duty rubber floor with separate floor mats, exterior grab handles on both sides, cruise control, tilt steering wheel, high back air suspension. Panel instruments to include speedometer, tachometer, transmission temperature, voltmeter, engine oil pressure, engine coolant temperature, air pressure, fuel level, DEF level, hour meter. Warning light for manual differential lock. 12 volt power outlet, heavy-duty fresh air heater with dual defrosters to cover entire windshield, electric operated intermittent windshield wipers with washer. Heated windshield. Heated mirror assembly approximately 7" X 16", with separate 8" convex mirror mounted below. Factory installed spot mirrors on both sides of hood to see wing. Vehicle must be compatible with 2-way radio. Factory backup alarm. Cab steps to be outfitted with safety grating.
13. **ELECTRICAL SYSTEM** - Heavy-duty starter. 160 amp alternator. Three heavy-duty 12 Volt, 700 CCA, 31 series Optima threaded post, to be mounted in the cab. Four extra circuit breakers in panel for extra lighting. Halogen headlights. Factory installed switch and electrical wiring harness for plow lights. Minimum of four (4) factory mounted switches in cab for auxiliary lighting with control module to be mounted inside cab.
14. **PAINT** - Truck cab to be painted Omaha orange. Frame to be painted black.
15. **STANDARD EQUIPMENT** - All usual standard equipment to be included.
16. **SERVICE MANUALS & PARTS BOOKS** - Operator, parts, and service manual including schematics for: engine, drive train, chassis, and electrical (in printed and or computer form. A separate list of part numbers for consumables for unit, parts include all filters, belts, lights, fluids, and all lubricants required.

17. **WARRANTY** – 5 year extended warranty. Engine, transmission, after treatment and chassis.
18. **TAXES & LICENSE** - No Federal or State taxes are to be included in bid. **Bid price includes License and Registration fees.**
19. **Sealed BID** - Must be submitted on or before time and date as published. Mark **“SINGLE AXLE TRUCK CHASSIS BID”** on outside of envelope. Include all factory literature and specification sheets of complete unit with bid.
20. **Trade In** – 2004 Sterling L8513. Single axle. Cat 3126. Allison 6 spd. transmission. 150k mi.