

## Appendix E – Unit Specification / Description

All Respondents are required to complete Appendix E. The University has provided a list of specifications. Respondents are to provide detailed information for scoring, at the University's sole discretion, of the Respondent's unit in comparison to the University's specifications. All Respondents are required to attach detailed specifications informational documentation of the item(s) submitted. For specifications that are an exact match to the University's specification a simple Yes in the center column is sufficient. For specifications that are less than OR more than the University's listed specification indicate what that is in the right column under Respondent's Specification.

<b>Tandem Axle Dump/Plow Truck</b>		
<b>University's Requested Specification</b>	<b>Meets Spec? Yes/No</b>	<b>Respondent's Specification</b>
<b><i>Truck Specifications</i></b>		
Must be a new unit, either model year 2021, 2022 or 2023		
Truck to be painted red and wheel rims to be painted white		
Hendrickson 46K Haulmaxx HMX-54 rear axle with shock absorbers and brake dust shields (or equal or better)		
Front axle to be set-back type for tighter turning radius with front shock absorbers		
<b>Front axle Detroit 20,000# rated Flat Leaf</b>		
Front left spring to be 9,500# rated, no air bag with brake dust shield		
Front tires to be Goodyear F12R225-16ply standard radial		
Rear tires to be Goodyear R11R225-16ply radial mud and snow rated		
Minimum 58,000# GVWR		
24" integrated front frame extension for mounting snow plow rigging		
Wheelbase shall be 120" from cab to center of tandem axle and be sufficient to accept a 12 CUYD capacity, 13 foot long minimum side dump left front discharge spreader body. Chassis must also accommodate plow rigging		

<p>Diesel Engine</p> <ul style="list-style-type: none"> <li>• Glow Plugs</li> <li>• Minimum 350 HP</li> <li>• Magnetic oil drain plug</li> <li>• Preferred all filters are to be screw-on type</li> <li>• Electronic governor</li> <li>• Equipped with a minimum 1,500 watt, 110 volt engine block heater with spring operated lid mounted on the front of the truck</li> </ul>		
Allison 3000-series automatic 5-speed transmission with magnetic oil drain plug and oil cooler system (or equal or better)		
Electronic transmission data access connector to be mounted on firewall		
Minimum 50 gallon aluminum fuel tank with stainless steel tank straps		
Heavy duty single frame		
Semi-trailer connections		
Break-away valve to be mounted on rear cross member in such a way to prevent interference with lights or license plate		
Hand control trolley valve shall be mounted either on the steering column or dashboard		
The trailer air supply valve shall be mounted on the dashboard		
7-way semi-trailer round peg socket shall be mounted on the rear cross member		
Must be fully compatible with and capable of hauling an Interstate Model 40DLA trailer without any further modifications or additions		
OEM front bumper shall be provided with delivery of the truck		
Tilt Steering wheel preferred		
Vertical exhaust with heat shield behind cab on right hand (passenger) side of truck		
Frame, under cab and undercarriage components shall be fully coated with Valuguard wax and undercoating rustproofing system ( <b>NO Fluidfilm</b> )		
4-way locking differential		
Rear axle to be 46,000# with automatic brake rear slack adjusters		

Rear axles to have magnetic drain plugs		
Heavy duty power steering with 4-quart reservoir suitable for snow plowing service		
Dual steering gear boxes		
Air brakes with aluminum air tanks		
Air dryer with heater		
Air drain valves shall be equipped with remote pull cables		
Hood to tilt forward with a factory-installed side access panel for safe and easy daily inspections. This panel must be located on the oil fill side of the engine		
Snow damper door to protect engine compartment intake while plowing		
12-volt electrical system with a minimum 160-amp charging system		
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Emergency positive lead electrical disconnect mounted in the cab within reach of the driver's seat		
Factory 7' long wiring harness extension at rear of truck to power auxiliary lights on dump body		
Factory wiring for marker light switch integral with headlight switch and single connector and switch for snow plow lights, low beams off with high beams for connection of plow rigging to truck.		
Backup lights on chassis		
<p>Cab Specs:</p> <ul style="list-style-type: none"> <li>• Standard cab maker lights</li> <li>• All exterior mirrors are to be heated and power adjustable</li> <li>• Right hand door shall have an unheated down view mirror</li> <li>• Heated windshield</li> <li>• Power windows</li> <li>• Switches in cab to be illuminated rocker 6-pack type</li> <li>• Air conditioning</li> <li>• 2-Speed delay windshield wipers</li> <li>• Cab grab handles for cab entry</li> <li>• Floor mats</li> <li>• 3-point lap/shoulder seat belts</li> </ul>		

<ul style="list-style-type: none"> <li>• Driver Seat - Air suspension high back seat with adjustable lumbar with arm rest on both sides, if available</li> <li>• Passenger Seat – Match Driver Seat</li> <li>• Dash instruments shall include: <ul style="list-style-type: none"> <li>○ Tachometer</li> <li>○ Speedometer</li> <li>○ Oil Temperature</li> <li>○ Oil Pressure</li> <li>○ Water Temperature</li> <li>○ Volt Meter</li> <li>○ Amp Meter</li> <li>○ Fuel Gage</li> <li>○ Air Gage</li> <li>○ Brake warning light</li> <li>○ Low air pressure alarm</li> <li>○ Engine hour meter</li> </ul> </li> <li>• Backup alarm</li> <li>• AM/FM Radio with installed speaker and with hands free Bluetooth and microphone</li> <li>• Air and electric horn</li> <li>• Defroster / heater</li> <li>• Cab mounted fire extinguisher is <b>excluded</b> from this specification</li> </ul>		
<p>Manuals shall include one (1) set of the following:</p> <ul style="list-style-type: none"> <li>• Operator Manual</li> <li>• Maintenance and repair manual</li> <li>• Parts manual</li> </ul>		
<p>The hydraulic system shall operate the sander, dump body, plow and wing systems.</p>		
<p>The hydraulic pump shall be a tandem system and run off from the engine crankshaft as direct drive at the front of the engine. The pump shall have two stages – one stage will supply the plow, wing and body hydraulics and the other stage will supply the sander control.</p>		
<p>Hydraulic tank to be mounted on truck frame and have a level sight gage and a shut-off valve</p>		
<p>Hydraulic controller shall be a Cirus Controls EZ Spread 3-channel controller mounted in cab on the control tower.</p> <ul style="list-style-type: none"> <li>• First channel to run the feed</li> <li>• Second channel to run the spinner</li> <li>• Third channel to run the liquid system</li> </ul>		
<p>4 sets of factory keys with door remotes</p>		

Plastic Fender Kit to cover dual wheels on both sides		
<b>Dump Body Specifications</b>		
Minimum 12 - 14 CUYD capacity, 13 foot long minimum side dump combination dump and sander with front spreader		
3/16 <sup>th</sup> Corten steel construction		
Dump body to be painted black		
Heated dump body		
¼" Hardex floor		
Double-acting telescopic lift cylinders on the sander body		
Heavy duty bed chain with grease chain adjusters		
Centrally located lubrication system to service all required lubrication points on rear of truck		
Steel channel iron sideboards, flat side out		
Inside corner steel step with traction safety serrations on inside of dump body on driver's side		
Ladder with fold-down extension on driver's side		
Cab shield headboard		
Air tailgate		
Mud flaps in front of and behind the tandem axles. The rear flaps are to be mounted under and separate from the dump body such that they swing independent of the dump body.		
4 LED strobe lights mounted in the rear of the dump body (a upper left, a lower left, a upper right, and a lower right orientation) All strobe lights to be Buyers Amber / Green 6" oval (Model # SL66A6). Primed and painted black		
LED Stop and turning lights in the rear post		
LED Sander lights		

2 LED Amber / Green Strobe lights mounted on the front of the cab shield and one LED strobe light mounted on each side of the cab shield. Lights shall be single style Buyers Product Oval light box models LB383. Exact mounting location to be specified at time of bid award		
Bed floor indicator light to indicate raised bed		
Safety kick-out cable (if available)		
Donovan Bullet 7000 electric load cover (or equal or better)		
Liquid calcium system mounted on frame <ul style="list-style-type: none"> <li>• Minimum 50-gallon poly tank with shutoff valve and filter, tank mounted with filler port on driver side of truck frame</li> <li>• In-cab activated from the EZ Spread controller</li> <li>• Minimum 150 PSI working pressure on the spray system</li> </ul>		
<b><i>Plow Specifications</i></b>		
Power tilt front plow hitch to include a remote lever to control the hydraulic cylinder for ease of plow attachment		
Fisher High-intensity headlights with blinkers		
Front wing post not to exceed 72" in height		
Front post to be an 8" I-Beam and the rear post to be a 10" I-Beam		
11' steel wing with 10' bolt-on carbide cutting edge and curb shoe		
11' Reversible steel plow with bolt-on carbide cutting edge with curb shoes on each side		
Push frame to be heavy duty hydraulic double ram with cushion valve		
Plows to be primed and painted black		
Tandem gear hydraulic pump		
In-cab cable operated controls. Unit must be adjustable for different size operators.		

LED Wing light		
<b><i>Pintle Hook System Specifications</i></b>		
¾" pintle plate with 30-ton swivel style pintle hitch preferred with D-rings		
Pintle shall be mounted 29" above ground level		
Glad handles to be mounted on the left and right hand sides of the frame		
Stop, reverse, and directional LED lights to be mounted in the back plate cutouts such that the lenses are flush with the back plate surface		
Single pole socket to be mounted on the right hand side of the pintle plate for auxiliary power to trailer ramps		
<b><i>General Requirements</i></b>		
All steps to assemble the truck with the above items are the responsibility of the bidder		
Unit, plow and dump body shall be delivered fully serviced, tuned up, wheels balanced and ready to go.		
Painted steel front bumper to be delivered with truck when delivered to UMaine.		
All locks on the vehicle shall be keyed alike to the ignition key.		
Statement of warranty.		
Statement of warranty for truck and dump body		
Valid temporary plates		