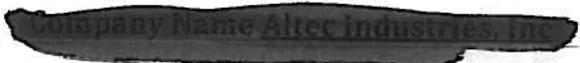


Vehicle Delivery Checklist (provide at time of delivery if awarded)

Supplier Specification Confirmation	Supplier Initials and Date
The supplier will ensure all of the annotated items listed below are inspected prior to delivery.	
Supplier is 100 % compliant with the bid specification(s) as bid by the supplier.	
The unit is clean inside/outside upon delivery to WSDOT	
All required documentation as per the WSDOT and OSP bidding requirements are presented at time of delivery. Example:	
1. MSO	
2. Title Application	
3. Axle weight slip (if required)	
4. Supplier Confirmation of Specification Compliance (this form)	
5. Invoice	
All safety equipment is provided and in proper working condition. (Lights, reflectors, seatbelts, etc.)	
All required publications are brought with the unit upon delivery.	
Workmanship Issues:	
a) All hoses and wiring are protected from damage.	
b) All fluid levels have been checked and are at the manufacturer's suggested levels.	
c) All components are in proper working condition.	
d) Welds are consistent and without cracks	
e) No runs, cracks or chips in the paint.	
Printed Vendor Name _____	
Vendor Signature _____	Date _____



C.3 TECHNICAL SPECIFICATIONS – revision 2

Item 1: Digger Derrick 38K

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
I. General:		
1. This specification describes Washington State Department of Transportation's requirements for a Derrick Digger without body.	✓	
2. Bidders shall include all components (less personal computer) of software and hardware (cabling) needed to perform a complete diagnostics of the chassis, major chassis components, (Engine, Transmission) and the Digger.	✓	
3. Bidders shall provide a detailed measured drawing of the unit bid, to include all compartment dimensions, and a weight distribution analysis at time of equipment order.	✓	
4. The successful bidder will be required to deliver the completed unit to one of the delivery locations annotated below.	✓	
<ul style="list-style-type: none"> a. 6431 Corson Ave Seattle WA 98108 b. 2830 Euclid Ave Wenatchee WA 98807 c. 5720 Capitol Blvd. Tumwater WA 98501 d. 4200 Main St Vancouver WA 98668 e. 2809 Rudkin Rd Union Gap WA 98909 f. 221 E North Foothills Dr Spokane WA 99207 	✓	
II. Chassis, Load Capacity and Measurements:		
1. Wheel Base shall be determined by the body manufacturer.	✓	
2. Cab to Axle (CA) shall be determined by the body manufacturer.	✓	
3. The unit shall meet all Washington State bridge laws while meeting the GVWR of the unit.	✓	
4. Bumper to Back of Cab (BBC) shall be determined by the body manufacturer.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
III. Frame:		
1. The entire length of the frame rails shall be full depth.	✓	
2. The frame rails will be treated with at least 2 mils of two part epoxy primer and at least 2 mils of top coat finish paint.	✓	
3. There shall be no holes or bolts in the top flange of the frame rails.	✓	
IV. Cab & Related Equipment:		
1. Shall be a premium cab to include the following. a. Molded header pockets for the driver and passenger. b. Sun visors for both driver and passenger, with an auxiliary sun visor on driver's side. c. Coaxial speakers.	✓	
2. The unit shall be equipped with the following:	✓	
a. Engine voltmeter	✓	
b. Engine oil pressure gauge.	✓	
c. Tachometer	✓	
d. Hour-meter	✓	
e. Engine coolant temperature gauge.	✓	
f. Shall have a heater with a minimum output rating of 30,000 BTU to include both fresh air and cab recirculation features.	✓	
g. Factory installed air conditioning.	✓	
h. Visual and audible low oil pressure and high coolant temperature warning system.	✓	
3. Dual, heated and motorized 6 x 15 inch side mounted rearview mirrors. The mirrors shall be equipped with an integral convex spot mirror.	✓	
4. Shall be equipped with an air horn.	✓	
5. Shall be equipped with cowl mounted, electric, intermittent, windshield wipers.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
6. The interior cab noise level shall meet or exceed FMVSS requirements during normal operating conditions.	✓	
7. Shall be equipped with both interior and exterior, egress / ingress assist handles, on the driver's side and interior grab handles on the passenger side	✓	
8. Shall be equipped with left and right egress / ingress assist handles.	✓	
9. Shall be equipped with an AM/FM Radio with weather band.	✓	
10. Shall have a steel front bumper.	✓	
V. Radio Installation:		
1. The cab shall be outfitted with a header pocket to accommodate the WSDOT radio. The measurements of the radio are as follows:	✓	
a. Width 7 ³ / ₁₆ inches.	✓	
b. Length 8 ⁵ / ₁₆ inches.	✓	
c. Thickness 2 ¹ / ₈ inches.	✓	
2. The radio shall be located in a manner that allows the operator to read the LCD without detracting from road visibility. The radio shall be accessible by the operator and be within arm's reach of an average person.	✓	
3. When installed; the face of the radio shall not extend further than one inch out of the pocket.	✓	
4. WSDOT will loan a radio to the successful bidder, as a production aid.	✓	
5. Within the radio pocket, there shall be a radio-mounting bracket which will accept the state provided radio. The radio shall have the ability to be removed and re-installed without removing the header panel.	✓	
6. To the left of the radio pocket and as close as possible to the radio, a microphone-mounting clip shall be installed.	✓	



Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
7. On the exterior of the cab roof, there shall be a factory installed Larson NMO-K-DS-FME antenna base. The specific mounting location shall provide the antenna with at least 18 inches of clear area around the antenna base and at the tip of the antenna when a body is used.	✓	
8. The roof mount antenna base shall be sealed and capped with a protective cover for shipping.	✓	
9. The antenna cable shall extend to the center radio pocket, and extend at least six inches outside of the radio pocket.	✓	
10. Above the rear window and centered in the cab, shall be a factory installed and functional two-way radio speaker for the EFJ radio.	✓	
11. There shall be a labeled, dedicated, and <u>fused</u> , 15-amp constant duty circuit for the EFJ Radio. This circuit shall run directly from a battery power source. At the same location, there shall be a labeled 3 amp <u>fused</u> circuit. This circuit shall be switched at the ignition switch, and shall operate in the run or accessory positions.	✓	
12. Connected to the 15amp EFJ circuit shall be a power wire. With the same connectors, gauge, and length of the (EFJ Part#023-9750-010 or equal) with no splices. This wire shall extend up to the header with no splices, and extend at least twelve inches outside of the pocket.	✓	
13. Shall have a sensing circuit for the EFJ radio. The circuit shall be a fused 3 amp switched through the ignition switch, and active in the run or accessory positions.	✓	
14. Connected to the 3 amp EFJ circuit shall be a sense wire with the same connectors, gauge and length of the (EFJ Part # 023-9750-011 or equal) with no splices. This wire shall extend up to a header pocket, and extend at least twelve inches outside of the pocket	✓	
15. All wiring associated with the EF Johnson radio will be continuous with no splices or wire gauge change.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
16. Each mirror bracket will be outfitted with a CB radio antenna base.	✓	
VI. Seats:		
Both Driver's and passenger seat shall be a vinyl covered high back air ride seats with lumber support and arm rest.	✓	
VII. Fuel Tank:		
1. Shall have a 80 gallon aluminum fuel tank.	✓	
2. The tank shall be equipped with the required amount of entry steps as required by FMVSS.	✓	
3. The tank shall have full encompassing rubber between the tank straps and the tank.	✓	
VIII. Electrical & Lighting System		
1. All chassis lighting shall be conventional LED lighting (International lighting is not acceptable).	✓	
2. Shall be a 12-volt system.	✓	
3. Batteries shall have at least 2,200 cold cranking amps (CCA) and be maintenance-free.	✓	
4. Shall have a 160-amp alternator.	✓	
5. The batteries shall be equipped with an additional ground cable, which will be attached to the frame rail. All cable ends shall be sealed, and equipped with rubber retainers and covers.	✓	
6. All battery cables exiting the battery box shall be routed through rubber grommets.	✓	
7. Shall have an additional OEM in dash 6 position switch panel powered by the ignition switch in both run and accessory positions. All switches shall be on/off and configured as follows: All 6 switches shall be on the same row. <u>The successful vendor will notify WSDOT to obtain the switch positions within the panel.</u>	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
8. Bidder must ensure that the switches on all equipment associated with this purchase, are wired uniformly.	✓	
9. Shall be equipped with halogen headlamps.	✓	
10. Supplier splices into the factory wiring harness is unacceptable.	✓	
11. The unit shall be equipped with a 7-pole trailer connector and all required trailer towing electrical connections.	✓	
IX. Engine:		
1. Shall have a minimum 305 gross hp. delivering 1150 ft. lbs. of torque.	✓	330 HP @ 1150 LB-FT TORQUE
2. Shall be equipped with an engine compression brake.	✓	
3. Electronic engine controls shall have the following settings:	✓	
a. Maximum road speed to governed at 65 mph.	✓	
b. Shall have idle bump up/down, Cruise and tilt.	✓	
4. Shall be equipped with the manufacturers' standard 110 volt block heater, with the plug-in receptacle located on the left side under the driver's door.	✓	
5. The engine shall have a zinc plated nickel alloy oil pan or equal.	✓	
X. Air Cleaner:		
1. Shall be a dual element, with fresh air intake	✓	
2. A filter minder restriction indicator shall be mounted in the cab; and it must indicate restriction for both elements.	✓	
XI. Engine Cooling System:		
1. Shall be equipped with a two speed temperature controlled, fan clutch.	✓	
2. Radiator shall be the manufacturers' standard	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
system to include a coolant filter.		
3. All coolant hose clamps shall be Constant Torque.	✓	
XII. Engine Exhaust System:		
1. Shall be a single horizontal muffler and vertical pipe. The vertical pipe shall not protrude more than 3 -5 inches behind the cab.	✓	
2. Shall have an under cab mounted horizontal DPF and DOC.	✓	
3. The end of the exhaust pipe shall have a 45-degree tip out, positioned approximately 118 inches from the ground to the highest point of the tip out when the truck is empty.	✓	
XIII. Transmission:		
Shall be a Fuller Ultra Shift Plus or an Allison HD series transmission.	✓	ALLISON 3000 RDS 6 SP
XIV. Steering System:		
1. Shall have a dual power steering system.	✓	
2. Steering wheel shall be 18 inches in diameter.	✓	
3. Steering column shall be fully adjustable.	✓	
XV. Axles and Suspension:		
1. <i>Front Axle</i> shall be a minimum of 18,000 lbs. with oil filled hub, sight glass and double acting shock absorbers.	✓	
2. <i>Rear Axle</i> shall have a 23,000 lbs. rating and a driver controlled traction differential.	✓	
3. Shall have a vari-rate or progressive suspension with 31,000 lbs. capacity. Additionally the unit shall be equipped with 4,500 lbs., Multi-leaf auxiliary springs.	✓	
XVI. Wheels and Tires:		
1. <i>Front wheels</i> shall be Hub Pilot steel wheels with 385/65R 22.5 LRJ steel belted radial tires.	✓	
2. <i>Rear wheels</i> shall be Hub Pilot steel wheels with 11R 22.5 LRJ steel belted traction radial tires.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
XVII. Brake System:		
1. Shall be a Bendix anti-lock series air braking system.	✓	
2. Shall have self-adjusting "S" cam air brakes front and rear, with shields installed.	✓	
3. Shall have outboard mounted brake drums, and the size of the drums will accommodate the manufacturers GVWR of the chassis. WSDOT will accept power disc brakes if offered.	✓	
4. All brake blocks shall be non-asbestos.	✓	
5. In the event the chassis supplier is providing drum brakes. The chassis shall be equipped with 30 sq. in. MGM TR-T series rear brake chambers.	✓	
6. Shall have the manufacturers standard air compressor, with the intake plumbed to the filtered side of the air cleaner.	✓	
7. The air dryer, shall be mounted in a serviceable location and the filter will be a spin on style.	✓	
8. The chassis shall be equipped with all required items for trailer air brakes to include glad hands.	✓	
9. Shall be equipped with a lanyard style air drain located in an accessible location. If applicable, located near the driver's door (Under chassis configuration is unacceptable)	✓	
XVIII. Boom:		
1. Shall be a hydraulically extending three section insulated boom, with a turret mount winch, a 12,000 pound planetary digger a 24 inch full flight auger. The boom shall be mounted over the rear axle.	✓	
2. All requirements below are minimums	✓	
3. Boom Angle Retracted Extended		
10 foot radius at least 9,900 8,800	✓	
0 degrees at least 4,600 1,550	✓	



Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
Range of -15 to -20 degrees 2 nd section fully extended 1,000.	✓	
3. Horizontal reach shall be 37 ft. from centerline of rotation at 0 degrees with booms fully extended.	✓	
4. Boom elevation shall be from +80 degrees and range from -15 to -20 degrees.	✓	
5. Sheave height shall be at least 47 ft. at 80 degrees.	✓	
6. Digging radius to be at least 17 ft. to 26ft. State digging radius. <u>17.9 ft – 26.7 ft</u>	✓	
7. Boom rotation shall be 360 degree continuous and unrestricted in either direction.	✓	
8. The main boom shall be a fabricated box boom constructed of high-strength steel and designed to store the second section.	✓	
9. The second section shall be a fabricated box boom constructed of high-strength steel, and designed to store the third-section.	✓	
10. Both the second and third sections shall include a double acting hydraulic extension cylinder equipped with integral holding valves on both extend and retract ports.	✓	
11. The boom shall include a flanged pole handling sheave head, with provisions for bucket attachment.	✓	
12. The boom shall have an insulation gap of 55 inches when fully extended.	✓	
13. Shall be equipped with a hydraulic overload protection for boom lift and rotation.	✓	
14. The boom shall be rated for line voltage up to 46KV AC.	✓	
15. Shall be equipped with a transferable pole claws. Tilting and transferable pole claws are acceptable.	✓	
16. Bucket size shall be a rectangular manufacturer's standard fiberglass bucket equipped as follows	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
11. All hydraulic hoses and fittings shall be the manufacturers standard.	✓	
XX. Power take-off:		
Shall be 'hot shift' with in-cab control and "engaged" light.	✓	
XXI. Winch:		
1. Shall be a hydraulic driven, 15,000 lb. winch with provisions for a synthetic rope and mounted at the end of the turret.	✓	
2. Shall be equipped with a two-part line attachment including one shackle and quick pin.	✓	
3. Shall be equipped with 130 feet of one (1) inch diameter stable braid synthetic rope with an eye splice on both ends.	✓	
4. The winch shall have all required inspections, decals and placards that are required by OSHA, WISHA, ANSI, and Washington State LNI.	✓	
5. A 7-ton combination downhaul weight and swivel hook shall be provided.	✓	
XXII. Control Station:		
1. The controls shall have full feathering capability for all boom functions.	✓	
2. Shall have single stick to operate boom up/down, second and third stage in/out and rotation. A 3 rd stage separate lever is acceptable.	✓	
3. Shall have controls for rotation, elevation and extension of the second and third sections.	✓	
4. Function controls shall be mounted at the boom tip and in an easily accessible location below rotation.	✓	
5. Permanent control decals shall be provided at both locations.	✓	



Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
on each side and convenient to outriggers. Bidder shall provide outrigger pads.		
3. Vendor shall ensure the outrigger spread will maintain the unit's stability.	✓	
4. An in cab "outrigger down" warning lamp shall be provided.	✓	
5. Bidder shall provide complete unit drawings to include dimensions, weight study and spread of the outriggers after meeting with WSDOT personnel when the order is placed.	✓	
6. The outrigger controls shall be located at the right and left rear corners of the tail shelf.	✓	
XXV. Sub frame:		
1. The sub frame shall be constructed of structural tubing to include cross members and top and bottom steel plates. All welds shall be continuous to form a box structure.	✓	
2. The sub frame shall be secured to the chassis frame rails with shear plates and Grade 8 Huckbolts and collars.	✓	
3. The sub-frame shall support the street side and the curbside outriggers.	✓	
4. A boom rest assembly shall be provided and supported by the body sub frame.	✓	
XXVI. Tool Outlets:		
1. One hydraulic and one pneumatic auxiliary tool outlet shall be provided at the rear of the body tail shelf.	✓	
2. The hydraulic outlet shall include quick couplers and a detent valve with a pressure release feature to release pressure from the hydraulic tool hoses.	✓	
3. Shall be equipped one pneumatic auxiliary tool outlet at the operator's bucket.	✓	
4. The pneumatic auxiliary tool outlet shall receive its air from an IMT air compressor, model DA35/100 HAR, or equal.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
XXVII. Behind the cab compartment:		
1. Shall be a 40-inch long "space pack" mounted behind the cab and forward of the flatbed.	✓	
2. The top portion of the space pack shall be equipped with a three-sided, expanded metal fence.	✓	
3. Body to be constructed from galvanized steel.	✓	
4. Bin doors shall be double panel.	✓	
5. All bins shall have watertight doors with drip moldings above and drain hole with plugs in compartment bottoms.	✓	
6. Latches shall have protection on the inside to prevent loose objects from jamming mechanism.	✓	
7. All latches shall be "D" ring twist and keyed alike (CH501) with two point door locks.	✓	
XXVIII. Flatbed:		
1. Shall be a structural channel outer rail steel flatbed.	✓	
2. Each cross member shall be reinforced with 10 gauge gussets.	✓	
3. The deck flooring shall be 2" true cut treated hard wood decking. The wood decking shall be covered with a polyurethane coating with a non-skid surface.	✓	Pine 2x8
4. Bed shall have bunks for both the 12-inch and 24-inch augers.	✓	
5. Cross sills shall be of 4 inch structural channel on 16 inch centers and butted into the derrick sub frame.	✓	
6. Pole puller mount shall be installed on the flatbed.	✓	
7. Curbside forward chock block holder to have a receiver to accept a removable pipe support bracket (for holding long conduit when using pipe vise).	✓	
8. Heavy-duty adjustable height pintle hitch shall be installed to include safety chain D-	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
rings and trailer socket plug in with air hook up for the trailer.		
9. There shall be two 24 inch by 18 inch by 18-inch Weather guard model no. 524-5 or equal toolboxes mounted under the flatbed at both the curbside and street side rear of the bed.	✓	
10. There shall be 33 inch by 18 inch by 18-inch toolbox mounted under the flatbed at the rear of the bed.	✓	
11. Shall have a full width rear tail shelf with built in access steps, angled outside corners and formed pool style pipe grab rails on each rear corner.	✓	
12. Pole bunks shall be mounted street side with the forward bunk integral to the boom rest. Note: WSDOT uses both wooden and Aluminum poles. The bunks must accommodate both.	✓	
XXIX. Safety:		
1. Unit shall comply with all prevailing provisions of the current ANSI, OSHA, Washington State LNI and WISHA standards.	✓	
2. Furnish and install a 10 lbs fire extinguisher on street side, forward face of body.	✓	
3. All units associated with this specification, purchase, or contract will have the ability to perform their function for a period of 10 years or 10,000 hours without requiring a rebuild. The Manufacturer will ensure the ANSI recommendations reflect this requirement.	✓	
4. Furnish and install mud flaps with no vendor logos.	✓	
XXX. Electrical:		
1. Furnish and install all LED lights and reflectors for body and rear of chassis.	✓	
2. All attachment wiring is to be protected.	✓	
3. Marker, license plate, and backup lights are to be shielded.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
4. Two amber LED Strobe lights shall be located on posts at front of body so as to be visible from front and rear. Switch with a red warning light shall be located on vehicle dash next to outrigger warning light. Both lights shall be clearly labeled.	✓	
XXXI. Exterior Finish:		
1. There shall be no welding scale, roughness, sharp corners; or rust stains on the unit.	✓	
2. The cab to be coated with 2 mils dry automotive quality primers, with a base coat/clear coat of, National Safety Yellow.	✓	
3. WSDOT decals shall be installed prior to the compliance inspection. The supplier will notify <u>Billboard Signs at 206-300-7300</u> for decals and or decaling installation. Billboard Sign will bill WSDOT for decals and or decaling services.	✓	
XXXII. Publications:		
1. Each unit shall be delivered with a cab/chassis and digger/derrick operator's manual.	✓	
2. Service and repair manual or CD for digger/derrick.	✓	
3. Service and repair manual or CD for the Cab/Chassis.	✓	
4. Repair Parts manual or CD for the Cab/Chassis.	✓	
XXXIII. Options:		
1. Add below rotation controls Add \$	✓	Add \$2,453.00
2. Add out and down out Riggers at the pedestal in lieu of A Frame out riggers	✓	Add \$370.00
3. Out and down outriggers behind the cab in lieu	✓	Add \$1,598.00

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
Add \$		
12. Extended Cab and Crew cab configurations. Add \$	✓	EXT CAB: \$2,650.00 CREW CAB : \$7,250.00
13. Allison HD Series Transmission	✓	N/A WITH 1150 TQ ENGINE
14. Delete Service & Repair manual for digger/derrick. Deduct \$	✓	Deduct \$90.00
15. Delete Repair Parts manual for digger/derrick. Deduct \$	✓	Deduct \$75.00
16. Delete Service & Repair manual for Cab/Chassis. Deduct \$	✓	Deduct \$300.00
17. Delete Repair Parts manual for the Cab/Chassis. Deduct \$	✓	Deduct \$300.00
18. A line haul body to accommodate the wheelbase of this unit as well as a 120 Cab to axle measurement. Compartments will be configured as follows from front to rear on both sides 2 Vertical compartments / 120 inch CA 3 Vertical 1 Horizontal compartment 1 Vertical Compartment All bins shall have watertight doors with drip moldings above and drain holes with plugs in compartment bottoms. All latches shall be "D" ring twist and keyed alike. Slam type latches are unacceptable. All vertical cabinets shall have three removable and adjustable shelves with dividers on 4-inch centers. All horizontal cabinets shall have one fixed shelf running full length of the cabinet. The body floor, tail shelf, and compartment tops will be painted with a black, non-skid material to include a 5-year warranty against peeling. Compartments shall be lighted with an LED rope style lighting system. The lighting switch shall be cab controlled to include individual door switches on each door. Add \$	✓	Add \$3,132.00

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
of cord. Add \$		
31. An electric start Honda EM5000 SX generator. The generator will be mounted on the street side of the tail shelf or inside the service body and as far forward as possible on the street side. Add \$	✓	Add \$2,685.00
32. An adjustable height Lap Top Computer mounting pedestal located between the chassis seats.	✓	Add \$418.00
33. Wireless remote control for all digging and boom functions.	✓	Add \$8,125.00
34. Sign storage rack provisions for various highway signs measuring at least 4 feet by 8 feet and will be mounted on the flatbed.	✓	Add \$870.00
35. Pole storage rack provisions for various highway poles mounted on the flatbed or on the service body.	✓	Add \$1,235.00
36. A hydraulically tilt able bucket and or platform	✓	Add \$ 4,750.00
37. A lockable gate for a platform and if possible a locking gate for the bucket.	✓	Add \$1,550.00
38. A Riding seat configuration with controls.	✓	*Traditional multi joystick control Add \$841.00 *Altec Opti View controls Add \$2,296.00 *Control options only available on rear mount units.
39. Option price for a 36 inch and a 48 inch auger	✓	Add \$4,061.00 (in addition) Add \$1,570.00 (in lieu of)
40. Auger Bunks for a 36 inch and a 48 inch auger	✓	Add \$720.00
41. Master bin locking system. Add \$	✓	Add \$275.00
42. Supply and install a 3000-watt Sign Wave or equal inverter. Mounting location to be determined at time of vehicle assembly. All wiring to the inverter must be in loom and all 120-volt wiring must be in conduit. Install one outlet at curbside rear of chassis. The outlet at	✓	Add \$3,300.00

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
<p>rear of chassis must be a Hubbell 7535 with weatherproof cover. The load demand circuit shall not function without engine operating. Equip the inverter with two remote controllers, one in cab and one weather protected unit at rear of body, adjacent to rear outlet.</p> <p>Add \$</p>		

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
III. Frame:		
1. The entire length of the frame rails shall be full depth.	✓	
2. The frame rails will be treated with at least 2 mils of two part epoxy primer and at least 2 mils of top coat finish paint.	✓	
3. There shall be no holes or bolts in the top flange of the frame rails.	✓	
IV. Cab & Related Equipment:		
1. Shall be a premium cab to include the following. a. Molded header pockets for the driver and passenger. b. Sun visors for both driver and passenger, with an auxiliary sun visor on driver's side. c. Coaxial speakers.	✓	
2. The unit shall be equipped with the following:	✓	
a. Engine voltmeter	✓	
b. Engine oil pressure gauge.	✓	
c. Tachometer	✓	
d. Hour-meter	✓	
e. Engine coolant temperature gauge.	✓	
f. Shall have a heater with a minimum output rating of 30,000 BTU to include both fresh air and cab recirculation features.	✓	
g. Factory installed air conditioning.	✓	
h. Visual and audible low oil pressure and high coolant temperature warning system.	✓	
3. Dual, heated and motorized 6 x 15 inch side mounted rearview mirrors. The mirrors shall be equipped with an integral convex spot mirror.	✓	
4. Shall be equipped with an air horn.	✓	
5. Shall be equipped with cowl mounted, electric, intermittent, windshield wipers.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
6. The interior cab noise level shall meet or exceed FMVSS requirements during normal operating conditions.	✓	
7. Shall be equipped with both interior and exterior, egress / ingress assist handles. on the driver's side and interior grab handles on the passenger side	✓	
8. Shall be equipped with left and right egress / ingress assist handles.	✓	
9. Shall be equipped with an AM/FM Radio with weather band.	✓	
10. Shall have a steel front bumper.	✓	
V. Radio Installation:		
2. The cab shall be outfitted with a header pocket to accommodate the WSDOT radio. The measurements of the radio are as follows:	✓	
a. Width 7 ^{3/16} inches.	✓	
b. Length 8 ^{5/16} inches.	✓	
c. Thickness 2 ^{1/8} inches.	✓	
2. The radio shall be located in a manner that allows the operator to read the LCD without detracting from road visibility. The radio shall be accessible by the operator and be within arm's reach of an average person.	✓	
3. When installed; the face of the radio shall not extend further than one inch out of the pocket.	✓	
4. WSDOT will loan a radio to the successful bidder, as a production aid.	✓	
5. Within the radio pocket, there shall be a radio-mounting bracket which will accept the state provided radio. The radio shall have the ability to be removed and re-installed without removing the header panel.	✓	
6. To the left of the radio pocket and as close as possible to the radio, a microphone-mounting clip shall be installed.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
7. On the exterior of the cab roof, there shall be a factory installed Larson NMO-K-DS-FME antenna base. The specific mounting location shall provide the antenna with at least 18 inches of clear area around the antenna base and at the tip of the antenna when a body is used.	✓	
8. The roof mount antenna base shall be sealed and capped with a protective cover for shipping.	✓	
9. The antenna cable shall extend to the center radio pocket, and extend at least six inches outside of the radio pocket.	✓	
10. Above the rear window and centered in the cab, shall be a factory installed and functional two-way radio speaker for the EF J radio.	✓	
11. There shall be a labeled, dedicated, and <u>fused</u> , 15-amp constant duty circuit for the EFJ Radio. This circuit shall run directly from a battery power source. At the same location, there shall be a labeled 3 amp <u>fused</u> circuit. This circuit shall be switched at the ignition switch, and shall operate in the run or accessory positions.	✓	
12. Connected to the 15amp EFJ circuit shall be a power wire. With the same connectors, gauge, and length of the (EFJ Part#023-9750-010 or equal) with no splices. This wire shall extend up to the header with no splices, and extend at least twelve inches outside of the pocket.	✓	
13. Shall have a sensing circuit for the EFJ radio. The circuit shall be a fused 3 amp switched through the ignition switch, and active in the run or accessory positions.	✓	
14. Connected to the 3 amp EFJ circuit shall be a sense wire with the same connectors, gauge and length of the (EFJ Part # 023-9750-011 or equal) with no splices. This wire shall extend up to a header pocket, and extend at least twelve inches outside of the pocket	✓	
15. All wiring associated with the EF Johnson radio will be continuous with no splices or wire gauge change.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
16. Each mirror bracket will be outfitted with a CB radio antenna base.	✓	
VI. Seats:		
Both Driver's and passenger seat shall be a vinyl covered high back air ride seats with lumber support and arm rest.	✓	
VII. Fuel Tank:		
1. Shall have an 80 gallon aluminum fuel tank.	✓	
2. The tank shall be equipped with the required amount of entry steps as required by FMVSS.	✓	
3. The tank shall have full encompassing rubber between the tank straps and the tank.	✓	
VIII. Electrical & Lighting System		
1. All chassis lighting shall be conventional LED lighting (International lighting is not acceptable).	✓	
2. Shall be a 12-volt system.	✓	
3. Batteries shall have at least 2,200 cold cranking amps (CCA) and be maintenance-free.	✓	
4. Shall have a 160-amp alternator.	✓	
5. The batteries shall be equipped with an additional ground cable, which will be attached to the frame rail. All cable ends shall be sealed, and equipped with rubber retainers and covers.	✓	
6. All battery cables exiting the battery box shall be routed through rubber grommets.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
2. A filter minder restriction indicator shall be mounted in the cab; and it must indicate restriction for both elements.	✓	
XI. Engine Cooling System:		
1. Shall be equipped with a two speed temperature controlled, fan clutch.	✓	
2. Radiator shall be the manufacturers' standard system to include a coolant filter.	✓	
3. All coolant hose clamps shall be Constant Torque.	✓	
XII. Engine Exhaust System:		
1. Shall be a single horizontal muffler and vertical pipe. The vertical pipe shall not protrude more than 3 -5 inches behind the cab.	✓	
2. Shall have an under cab mounted horizontal DPF and DOC.	✓	
3. The end of the exhaust pipe shall have a 45-degree tip out, positioned approximately 118 inches from the ground to the highest point of the tip out when the truck is empty.	✓	
XIII. Transmission:		
Shall be a Fuller Ultra Shift Plus or an Allison HD series transmission.	✓	FULLER ULTRASHIFT 10 SP (FOM-16310C-VAS)
XIV. Steering System:		
1. Shall have a dual power steering system.	✓	
2. Steering wheel shall be 18 inches in diameter.	✓	
3. Steering column shall be fully adjustable.	✓	
XV. Axles and Suspension:		
1. <i>Front Axle</i> shall be a minimum of 18,000 lbs. with oil filled hub, sight glass and double acting shock absorbers.	✓	
2. <i>Rear Axle</i> shall have a Hendrickson RT-403 suspension, with rubber bushings, and a 40,000 pound rating.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
3. The rear axle shall be equipped with a lube pump.	✓	
4. Shall have an air activated rear axle power divider lock with indicator light.	✓	
XVI. Wheels and Tires:		
1. <i>Front wheels</i> shall be Hub Pilot steel wheels with 385/65R 22.5 LRJ steel belted radial tires.	✓	
2. <i>Rear wheels</i> shall be Hub Pilot steel wheels with 11R 22.5 LRJ steel belted traction radial tires.	✓	
XVII. Brake System:		
1. Shall be a Bendix anti-lock series air braking system.	✓	
2. Shall have self-adjusting "S" cam air brakes front and rear, with shields installed.	✓	
3. Shall have outboard mounted brake drums, and the size of the drums will accommodate the manufacturers GVWR of the chassis. WSDOT will accept power disc brakes if offered.	✓	
4. All brake blocks shall be non-asbestos.	✓	
5. In the event the chassis supplier is providing drum brakes. The chassis shall be equipped with 30 sq. in. MGM TR-T series rear brake chambers.	✓	
6. Shall have the manufacturers standard air compressor, with the intake plumbed to the filtered side of the air cleaner.	✓	
7. The air dryer, shall be mounted in a serviceable location and the filter will be a spin on style.	✓	
8. The chassis shall be equipped with all required items for trailer air brakes to include glad hands.	✓	
9. Shall be equipped with a lanyard style air drain located in an accessible location. If applicable, located near the driver's door (Under chassis configuration is unacceptable)	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
XVIII. Boom:		
1. Shall be a hydraulically extending three section insulated boom, with a turret mount winch, a 14,000 pound planetary digger and a 48 inch full flight auger. The boom shall be mounted over the rear axle.	✓	
2. All requirements below are minimums.	✓	
3. Boom Angle Retracted Extended	✓	
10 foot radius 10,000 9,000	✓	
0 degrees 4,000 1,500 Range from -15 to -20 degrees 2 nd stage extended 1,000	✓	
4. Horizontal reach shall be 37 ft. from centerline of rotation at 0 degrees with booms fully extended.	✓	
5. Boom elevation shall be from +80 degrees and range from -15 or -20 degrees.	✓	
6. Sheave height shall be at least 45 ft. at 80 degrees.	✓	
7. Digging radius to be from at least 17 ft. to 26ft. State digging radius.	✓	
8. Boom rotation shall be 360 degree continuous and unrestricted in either direction.	✓	
9. The main boom shall be a fabricated box boom constructed of high-strength steel and designed to store the second section.	✓	
10. The second section shall be a fabricated box boom constructed of high-strength steel, and designed to store the third-section.	✓	
11. Both the second and third sections shall include a double acting hydraulic extension cylinder equipped with integral holding valves on both extend and retract ports.	✓	
12. The boom shall include a flanged pole handling sheave head, with provisions for bucket attachment.	✓	
13. The boom shall have an insulation gap of 55 inches when fully extended.	✓	



Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
14. Shall be equipped with a hydraulic overload protection for boom lift and rotation.	✓	
15. The boom shall be rated for line voltage up to 46KV AC.	✓	
16. Shall be equipped with a transferable pole buddy.	✓	
XVIII. Driving Power and Hydraulic System:		
1. Hydraulic pump shall have a rating equal to or greater 2500 PSI.	✓	
2. When the chassis brakes are released hydraulic pump shall disengage.	✓	
3. All hydraulic lines shall be constructed and installed so that they may be replaced without requiring any welding or cutting of lines or fittings.	✓	
4. Hydraulic lines near the exhaust system shall be shielded from the exhaust system.	✓	
5. The hydraulic system capable of continuous operation without overheating the hydraulic oil.	✓	
6. There shall be a visual level sight glass with temperature gauge.	✓	
7. Shall have a 100 mesh serviceable suction screen.	✓	
8. Return-line filter shall be a 10-micron replaceable cartridge type, with filter cartridge.	✓	
9. The return filter and the suction screen shall have a rated capacity three times greater than pump capacity.	✓	
10. The return filters and the suction screen shall be serviceable without draining the reservoir.	✓	
11. All hydraulic hoses and fittings shall be the manufacturers standard.	✓	
XX. Power take-off:		
Shall be 'hot shift' with in-cab control and "engaged" light.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
XXI. Winch:		
1. Shall be a hydraulic driven, 15,000 lb. winch with provisions for a synthetic rope and mounted at the end of the turret.	✓	
2. Shall be equipped with a two-part line attachment including one shackle and quick pin.	✓	
3. Shall be equipped with 130 feet of one (1) inch diameter stable braid synthetic rope with an eye splice on both ends.	✓	
4. The winch shall have all required inspections, decals, and placards that are required by OSHA, WISHA, and Washington State LNI.	✓	
5. A 7-ton combination downhaul weight and swivel hook shall be provided.	✓	
XXII. Control Station:		
1. The controls shall have full feathering capability for all boom functions.	✓	
2. Shall have single stick to operate boom up/down, second stage in/out and rotation.	✓	
3. Shall have separate lever controls for third stage pole claws, third stage in/out, claw tilt, digger and winch.	✓	
4. Shall have controls for rotation, elevation and extension of the second and third sections.	✓	
5. Function controls shall be mounted directly in front of the operator on the adjustable riding seat.	✓	
6. Permanent control decals shall be provided.	✓	
7. Load chart shall be placed where it is clearly visible to operator.	✓	
8. A foot throttle control shall be provided at the control station.	✓	
9. There shall be a two speed digger control on the control panel	✓	
10. The control panel shall be equipped with a start/stop switch and a night-light.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
11. Glycerin filled pressure gauges shall be provided on the control panel to monitor the systems pressures.	✓	Exceed with Electrical Gauges with load sense, to prevent erratic readings.
XXIII. Hydraulic Digger:		
1. Shall be a two speed 14,000 pound, planetary gear driven digger with side shift and sufficient torque to operate a 48-inch auger.	✓	
2. The unit shall be delivered with a 36 in. and 48 in. auger, with flighting and case hardened teeth.	✓	
3. The digger shall include the following:	✓	
a. 84 in. long x 2 5/8 in. hex auger shaft.	✓	
b. Shaft shall have auger adjustment holes.	✓	
c. Auger storage bracket with self-latching auger catch with over stow protection.	✓	
d. Air or hydraulic activated auger release.	✓	
e. Boom is to be equipped with an auger stow protection system to prevent over-stowing the auger and breaking the auger wind up strap.	✓	
4. The Digger shall be equipped with automatic pick up and hydraulic transfer protection system.	✓	
XXIV. Outrigger:		
1. The outrigger system shall be an "A" frame configuration with swivel feet.	✓	
2. Provide outrigger pad storage under bins, one on each side and convenient to outriggers. Bidder shall provide outrigger pads.	✓	
3. Vendor shall ensure the outrigger spread will maintain the units stability.	✓	
4. An in cab "outrigger down" warning lamp shall be provided.	✓	
5. Bidder shall provide complete unit drawings to include dimensions, weight study and spread of the outriggers after communication with WSDOT personnel when the order is placed.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
6. The outrigger controls shall be located at the right and left rear corners of the tail shelf.	✓	
XXV. Sub frame:		
1. The sub frame shall be constructed of structural tubing to include cross members and top and bottom steel plates. All welds shall be continuous to form a box structure.	✓	
2. The sub frame shall be secured to the chassis frame rails with shear plates and Grade 8 Huckbolts and locknuts.	✓	
3. The sub-frame shall support the street side and the curbside outriggers.	✓	
4. A boom rest assembly shall be provided and supported by the body sub frame.	✓	
XXVI. Tool Outlets:		
1. One hydraulic and one pneumatic auxiliary tool outlet shall be provided at the rear of the body tail shelf.	✓	
2. The hydraulic outlet shall include quick couplers and a detent valve with a pressure release feature to release pressure from the hydraulic tool hoses.	✓	
3. The pneumatic auxiliary tool outlet shall receive its air from the chassis air system.	✓	
XXVII. Behind the cab compartment:		
1. Shall be a 40-inch long "space pack" mounted behind the cab and forward of the flatbed.	✓	
2. The top portion of the space pack shall be equipped with a three-sided, expanded metal fence.	✓	
3. Body to be constructed from galvanized steel.	✓	
4. Bin doors shall be double panel.	✓	
5. All bins shall have watertight doors with drip moldings above and drain hole with plugs in compartment bottoms.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
6. Latches shall have protection on the inside to prevent loose objects from jamming mechanism.	✓	
7. All latches shall be "D" ring twist and keyed alike (CH501) with two point door locks.	✓	
XXVIII. Flatbed:		
1. Shall be a structural channel outer rail steel flatbed.	✓	
2. Each cross member shall be reinforced with 10 gauge gussets.	✓	
3. The deck flooring shall be 2" true cut treated hard wood decking. The wood decking shall be covered with a polyurethane coating with a non-skid surface.	✓	Pine 2x8
4. Bed shall have bunks for both the 36-inch and 48-inch augers.	✓	
5. Cross sills shall be of 4 inch structural channel on 16 inch centers and butted into the derrick sub frame.	✓	
6. Pole puller mount shall be installed on the flatbed.	✓	
7. Curbside forward chock block holder to have a receiver to accept a removable pipe support bracket (for holding long conduit when using pipe vise).	✓	
8. Heavy-duty adjustable height pintle hitch shall be installed to include safety chain D-rings and trailer socket plug in with air hook up for the trailer.	✓	
9. There shall be two 24 inch by 18 inch by 18-inch Weather guard model no. 524-5 or equal toolboxes mounted under the flatbed at both the curbside and street side rear of the bed.	✓	
10. There shall be 33 inch by 18 inch by 18-inch toolbox mounted under the flatbed at the rear of the bed. (Under the end of the flatbed and accessible from the rear of the bed).	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
XXVIII. Safety:		
1. Unit shall comply with all prevailing provisions of the current ANSI, OSHA, Washington State LNI and WISHA standards.	✓	
2. Furnish and install a 10 lbs fire extinguisher on street side, forward face of body.	✓	
3. All units associated with this specification, purchase, or contract will have the ability to perform their function for a period of 10 years or 10,000 hours without requiring a rebuild. The Manufacturer will ensure the ANSI recommendations reflect this requirement.	✓	
4. Furnish and install mud flaps with no vendor logos.	✓	
XXX. Electrical:		
1. Furnish and install all LED lights and reflectors for body and rear of chassis.	✓	
2. All attachment wiring is to be protected.	✓	
3. Marker, license plate, and backup lights are to be shielded.	✓	
4. Two amber LED strobe lights shall be located on posts at front of body so as to be visible from front and rear. Switch with a red warning light shall be located on vehicle dash next to outrigger warning light. Both lights shall be clearly labeled.	✓	
XXXI. Exterior Finish:		
1. There shall be no welding scale, roughness, sharp corners; or rust stains on the unit.	✓	
2. The cab to be coated with 2 mils dry automotive quality primers, with a base coat/clear coat of National Safety Yellow.	✓	
3. WSDOT decals shall be installed prior to the compliance inspection. The supplier will notify Billboard Signs at 206-300-7300 for decals and or decaling installation. Billboard Sign will bill WSDOT for decals and or decaling services.	✓	

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
XXXII. Publications:		
1. Each unit shall be delivered with a cab/chassis and digger/derrick operator's manual.	✓	
2. Service and repair manual or CD for digger/derrick.	✓	
3. Repair Parts manual or CD for the digger/derrick	✓	
4. Service and repair manual or CD for the Cab/Chassis.	✓	
5. Repair Parts manual or CD for the Cab/Chassis.	✓	
XXXIII. Options:		
1. Add below rotation controls Add \$	✓	Add \$2,453.00
2. Add out and down out Riggers at the pedestal in lieu of A Frame out riggers	✓	Add \$5,388.00
3. Out and down outriggers behind the cab in lieu of A Frame out riggers.	✓	Add \$7,457.00
4. Flat shoe style outrigger pads.	✓	Deduct \$268.00 Only available for auxiliary outriggers
5. Various sizes of boom tip winches that accommodate the specified boom.	✓	Normal Speed 15,000 lb Boom Tip Winch: Add \$810.00 High Speed 12,000 lb boom Tip Winch: Add: \$1,214.00
6. Add larger and smaller capacity reverse mount booms. \$ _____ \$ _____ \$ _____ \$ _____	✓	DL Series Rear Mount: Deduct \$7,184.00 DM Series Rear Mount: Deduct \$4,044.00 *D3000A Rear Mount Add \$14,307.00 *D4000A Rear Mount Add \$25,302.00 *Unit Options require Tandem Rear Axles
7. Various Turret/Pedestal Locations a. Right Rear Corner b. Behind Cab	✓	Right rear Corner Mount DL Series Deduct \$4,044.00 DM Series Add \$265.00 *D2000A Add \$12,045.00 Behind the cab Mount

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
		DL Series Deduct \$4,600.00 DM Series Add \$10,455.00 *D2000A Add \$5,503.00 *D3000A Add \$15,850.00 *Unit Options require Tandem Rear Axles
8. Additional 6 switch dash mounted control panel.	✓	\$325.00
9. Power Windows, Door Locks Add \$	✓	\$325.00 REG CAB & EXT CAB \$650.00 CREW CAB
10. 7/16 Frame Rail Deduct\$	✓	Deduct \$1,325.00 REQUIRES CHASSIS ENGINEERING AND BODY CO APPROVAL
11. Add an integral front frame extension Add \$	✓	\$375.00
12. Extended Cab and Crew cab configurations. Add \$	✓	EXT CAB: \$2,650.00 CREW CAB : \$7,250.00
13. Allison HD Series Transmission	✓	\$6,910.00 4000 RDS 6SP
14. Delete Service & Repair manual for digger/derrick. Deduct \$	✓	Deduct \$90.00
15. Delete Repair Parts manual for digger/derrick. Deduct \$	✓	Deduct \$75.00
16. Delete Service & Repair manual for Cab/Chassis. Deduct \$	✓	Deduct \$350.00
17. Delete Repair Parts manual for the Cab/Chassis. Deduct \$	✓	Deduct \$350.00
18. A line haul body to accommodate the wheelbase of this unit as well as a 120 Cab to axle measurement. Compartments will be configured as follows from front to rear on both sides 2 Vertical compartments / 120 inch CA 3 Vertical 1 Horizontal compartment 1 Vertical Compartment All bins shall have watertight doors with drip moldings above and drain holes with plugs in compartment bottoms.	✓	Add \$3,532.00



Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
<p>All latches shall be "D" ring twist and keyed alike. Slam type latches are unacceptable.</p> <p>All vertical cabinets shall have three removable and adjustable shelves with dividers on 4-inch centers.</p> <p>All horizontal cabinets shall have one fixed shelf running full length of the cabinet.</p> <p>The body floor, tail shelf, and compartment tops will be painted with a black, non-skid material to include a 5-year warranty against peeling.</p> <p>Compartments shall be lighted with an LED rope style lighting system. The lighting switch shall be cab controlled to include individual door switches on each door.</p> <p>Add \$</p>		
<p>19. A 24" tail shelf with a removable pipe vise located on the curbside of the unit. The tail shelf shall have access doors on each end and the entire tail shelf shall be a through pocket.</p> <p>Add \$</p>	✓	Add \$1,915.00
<p>20. A 48" tail shelf with a removable pipe vise located on the curbside of the unit. The tail shelf shall have access doors on each end and the entire tail shelf shall be a through pocket.</p> <p>Add \$</p>	✓	Add \$2,380.00
<p>21. A class 1V receiver with D rings for chains.</p>	✓	Add \$115.00
<p>22. Hydraulic tool circuit at the tail shelf.</p>	✓	Deduct \$75.00
<p>23. Pneumatic tool circuit at the tail shelf.</p>	✓	Deduct \$80.00
<p>24. Furnish and install cone holder on front and rear bumpers.</p> <p>Add \$</p>	✓	Add \$315.00
<p>25. An 8" Rear Step Bumper of minimum 5" structural channel, grip strut top surface reinforced for towing with Class III Receiver</p>	✓	Add \$876.00

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives Note: Alternatives offered will be evaluated by subject matter experts. Alternatives offered that are not found to meet the specification requirements may cause the bid to be rejected.
Add \$		
26. Mounted on top of the Street-side compartments shall be a full length expanded metal storage bin with open top. Under this storage bin shall be an additional storage bin for a telescoping ladder. Add \$	✓	Add \$1,346.00
27. A watertight storage compartment mounted on top of the curbside compartments. Add \$	✓	Add \$1,562.00
28. One flush mounted; cab controlled Echo Model #2140A strobe light mounted on each side of the rear tail shelf. Add \$	✓	Add \$265.00
29. Ecco Strobe lights mounted in the same location as the specified warning lights Add \$ Deduct \$	✓	No Cost
30. A Hannay Cord Reel (NSCR 716-23-24B). (110 volt, 20 amp) cord reel mounted behind the rear vertical curbside compartment to include 75 feet of cord. Add \$	✓	Add \$1,382.00
31. An electric start Honda EM5000 SX generator. The generator will be mounted on the street side of the tail shelf or inside the service body and as far forward as possible on the street side. Add \$	✓	Add \$2,685.00
32. An adjustable height Lap Top Computer mounting pedestal located between the chassis seats.	✓	\$418.00
33. Wireless remote control for all digging and boom functions.	✓	Add \$8,125.00
34. Sign storage rack provisions for various highway signs measuring at least 4 feet by 8 feet and will be mounted on the flatbed.	✓	\$870.00
35. Pole storage rack provisions for various highway poles mounted on the flatbed or on the service body.	✓	Add \$1,235.00
36. A hydraulically tilt able bucket and or platform	✓	Add \$ 4,750.00

