



COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA COMMERCIAL ITEM DESCRIPTION (PCID)

Four Wheel Drive Commercial Vehicles

(Supersedes PCID 1105 eff. July 31, 2019)

PCID NO. 1105
Eff. October 2, 2025

1. **Scope:** This PCID covers four-wheel drive commercial-type vehicles commonly used by Agencies in the Commonwealth. Unless otherwise noted, the following shall indicate the minimum requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not.
2. **Classification:** The following vehicles are included in this PCID:
 - Class 3, Type 1: Minimum 11,000 lb. GVWR Four Wheel Drive, Single Rear Wheel, Pick-Up Truck for Snowplow Applications
 - Class 3, Type 2: Minimum 11,000 lb. GVWR Four Wheel Drive, Single Rear Wheel Truck with Optional Bodies
 - Class 3, Type 3: Minimum 14,000 lb. GVWR Four Wheel Drive, Dual Rear Wheel Cab & Chassis with Optional Bodies
 - Class 3, Type 4: Minimum 14,000 lb. GVWR Four Wheel Drive, Dual Rear Wheel Cab & Chassis with Optional Dump Bodies
 - Class 5, Type 1: Minimum 19,000 lb. GVWR Four Wheel Drive, Gasoline Powered Cab & Chassis with Optional Dump Bodies
 - Class 5, Type 1A: Minimum 19,000 lb. GVWR Four Wheel Drive, Gasoline Powered Cab & Chassis with Interchangeable Work Truck Bodies
 - Class 5, Type 2: Minimum 19,500 lb. GVWR Four Wheel Drive, Diesel Powered Cab & Chassis with Optional Dump Bodies
 - Class 5, Type 2A: Minimum 19,500 lb. GVWR Four Wheel Drive, Diesel Powered Cab & Chassis with Interchangeable Work Truck Bodies
 - Class 5, Type 3: Minimum 19,500 lb. GVWR Crew Cab, Four Wheel Drive, Cab & Chassis with Optional Gooseneck Towing Body
 - Class 5, Type 4: Minimum 19,500 lb. GVWR Four Wheel Drive, SuperCab Cab & Chassis with Crane Body

Class 6, Type 1: Minimum 22,000 lb. GVWR Four Wheel Drive, Diesel Powered Cab & Chassis with Optional Dump Bodies

Class 6, Type 2: Minimum 22,000 lb. GVWR Four Wheel Drive, Diesel Powered Cab & Chassis with Aluminum Deck Carrier Body

Class 6, Type 3: Minimum 25,500 lb. (Maximum 26,000-lb) GVWR Four Wheel Drive Regular Cab & Chassis with Dump Body

Class 8, Type 1: Minimum 39,000 lb. GVWR Four Wheel Drive Regular Cab & Chassis with Dump Body.

3. **Applicable Documents:**

The following standards, or applicable parts of the issue in effect on date of Invitation-Bid Proposal, shall apply at the discretion of interested Commonwealth agencies.

Commonwealth of Pennsylvania Motor Vehicle Code
Federal Motor Vehicle Safety Standards
NTEA Dump Body and Conversion Hoist Chart

4. **Requirements:**

Vendor MUST BE an authorized dealer in the Commonwealth of Pennsylvania for the manufacturer of the truck/truck chassis. Any other bidders WILL NOT be considered.

Vendor MUST provide all equipment considered standard by the manufacturer/OEM. DO NOT consider “fleet credit options” in your proposal. (i.e. GM dealers MUST NOT delete OnStar Basics, RAM dealers must not delete interior trim). Fleet credit options should be considered with individual agencies at time of order.

Unless otherwise stated in the bid, delivery requirements and required equipment shall be in accordance with PCID 1067, General Requirements for Delivery of Vehicles, most current version in effect at the time and date of bid opening. In addition, the following items shall be included:

- 1) Three (3) Emergency reflective warning folding triangles in carrying case, mounted in conspicuous location (i.e. behind seat in regular cab configuration, under rear seat in all other configurations) accessible by driver (Ref: James King & Co Warning Triangle Mounting Bracket Kit Part #1005B1, Transportation Accessories Co. Part #NPN-13S or equivalent)
- 2) OSHA approved First aid kit, ten-person with mountable cabinet (Ref: First Aid Only 91322 or equal)
- 3) Fire extinguisher, 2A:10B:C, five-pound with automotive bracket, mounted in conspicuous location (i.e. behind seat in regular cab configuration, under rear seat in all other configurations)
- 4) Paint color to be selected by ordering agency from manufacturer’s standard color choices.
- 5) Radial, all-terrain type tires.

- 6) Wired backup camera mounted in conspicuous location to provide driver unobstructed view of area behind vehicle
 - 7) Bluetooth compatible audio system with minimum one (1) USB style port
5. **Material Master** – No Material Masters established for these commodities.

Quality Assurance Specialist: Gerald Grecek, CPPB

Quality Assurance Supervisor: Brian Vulgaris

Class 3, Type 1: Minimum 11,000 lb. GVWR Four Wheel Drive,
Single Rear Wheel, Pick-Up Truck for Snowplow Applications

MECHANICAL:

- Minimum 6.4 Liter Eight (8) Cylinder Gasoline Powered Engine
- Minimum 8-Speed Automatic Transmission
- Minimum Locking or Limited Slip Rear Differential
- Minimum 11,000-lb GVWR
- Single Rear Wheel Wheel Configuration
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Dual Batteries **MUST** be provided if available from the manufacturer (GM/Ford Dual, RAM Single)
- Dual Alternators (minimum 390 Amps combined)
- Snow Plow Prep Package

EXTERIOR

- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- 18" Painted Steel Wheels
- All-Terrain or On/Off Road Tread
- Matching Full-Size Spare Tire Stored Underbody w/Crankdown
- Minimum Class IV rated 2" Trailer Hitch Receiver and 7-Wire Trailer Plug
- Back Up Alarm
- Skid Plates

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location
- Factory/OEM in cab switches (installed)

OPTIONS:

1. Diesel engine:
 - Engine Block Heater

2. Straight Blade Snowplow:

- Minimum 8'6" Powdercoated Steel Blade Assembly, Full Trip Design
- Minimum 29" Blade Height
- Minimum 12 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

3. Adjustable Winged Snowplow:

- Minimum Powdercoated Steel Blade Assembly, Full Trip design
- Minimum Width 8' (retracted), 10' (expanded)
- Minimum 30" Blade Height
- Minimum 14 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 6 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

4. V-Blade Snowplow:

- Minimum 8'2" Powdercoated Steel Moldboard, Trip-Edge Design
- Minimum Blade Height 30" @ Center, 37.5" @ Ends
- Minimum 14 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

5. Poly Tailgate Spreader:

- Minimum 8 cu. ft. capacity
- 2" Hitch Mount
- 12" Spinner
- 12V Electric Motor
- Dual Variable Speed Control
- Vibrator kit
- Top Screen
- Hopper Cover
- Installed with tie-down and/or mounting kit

6. Poly Hopper V-Box Style Spreader: (not compatible with cap or liftgate)
 - Minimum 2.0 cu yd capacity
 - Pintle Chain Conveyor
 - Minimum 14” Spinner
 - Dual Variable-Speed Control
 - Dual high-torque 12-volt electric motors
 - Vibrator Kit
 - Inverted V
 - Top Screen
 - Poly lid or fitted tarp cover for hopper
 - LED Work Light with in-cab switch for visibility at rear of spreader
 - Installed and operational with necessary ratchet strap tie downs
7. Liftgate: (not compatible with truck cap or V-box style spreader)
 - Minimum 1,500-lbs capacity
 - Fixed and timed toggle control
 - In-cab shut off switch
 - Minimum 2-Piece Extruded Aluminum Platform with 32” loading depth + 6” taper
 - Rearview camera to be mounted to provide unobstructed view when in reverse operation
 - Must not interfere with access to factory/OEM hitch receiver
8. Ladder Rack:
 - Constructed of heavy wall, rust-free aluminum extrusions
 - Removable rear crossmember
 - Minimum 1000-lb capacity
 - Mid-crossmember required
 - Cab window guard
9. Truck Cap: (not compatible with Ladder Rack, V Box Spreader or liftgate)
 - Minimum .050-in. TIG-welded aluminum frame
 - Minimum .035-in. aluminum exterior skin
 - Side full length lift up doors, both sides with interior skins (no windows)
 - Toolbox on each side with LED light and prop switch
 - 1/2 Lift up rear door with interior skin (no window)
 - Rear door LED light with prop switch
 - Backup camera to provide unobstructed view behind vehicle when in reverse
 - Manufacturer “white” or “black” exterior (alternative colors are extra charge)
10. Slide Out/Roll Out Cargo Tray: (not compatible with V-box spreader or liftgate)
 - Minimum 2,000-lb Capacity
 - Minimum 3/4 extension with multiple locking positions
 - Guardrails/High Sides feature
 - (4) Tie Downs mounted on tray

11. Amber Flashing LED Light Package: (wired to factory/OEM switches)

- Two (2) amber flashing LED lights on front grille on separate switch for plowing (ref: Whelen ION T-Series, or equal)
- Two (2) amber flashing LED lights mounted in rear of vehicle in conspicuous location to provide best visibility/protection (ref: Whelen Strip-Lite™ Plus series or equal)
- Mini style LED light bar (ref.: Whelen Mini Century, or equal) mounted on “no drill” third brake light mount

12. Topside/Hi-Side Truck Tool Boxes: (not compatible with v-box spreader)

- Aluminum construction with double-door configuration
- Minimum 90” length x 16” wide x 18” high
- Mount one each side of truck bed
- Minimum 15 cu ft

13. Crossover Tool Box: (not compatible with V-box spreader, hi-side toolboxes)

- Aluminum construction with single lift-up door
- Mid-size deep
- Minimum 62” long, 20” wide, 13” deep
- Minimum 7 cu ft

14. Cab Protector (“Headache Rack”):

- Protects cab from shifting loads in pickup bed
- Steel mesh screen design
- Minimum 71” width x 27” high
- Necessary mounting kit for make/model

15. Slide-in Dump Body:

- Aluminum or Stainless Steel Construction
- Minimum 2.0 cu yd capacity
- Double-acting power unit
- Cab protector
- Tarp kit

Class 3, Type 2: Minimum 11,000 lb. GVWR Four Wheel Drive,
Single Rear Wheel Truck with Optional Bodies

MECHANICAL:

- Minimum 6.4 Liter Eight (8) Cylinder Gasoline Powered Engine
- Minimum 8-Speed Automatic Transmission
- Minimum Locking or Limited Slip Rear Differential
- Minimum 11,000-lb GVWR
- Single Rear Wheel Wheel Configuration (56" CA)
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Dual Batteries **MUST** be provided if available from the manufacturer (GM/Ford Dual, RAM Single)
- Dual Alternators (minimum 390 Amps combined)
- Snow Plow Prep Package

EXTERIOR

- Cab Configuration Determined by Separate Pricing Sheet
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- 18" Painted Steel Wheels
- All-Terrain or On/Off Road Tread
- Matching Full-Size Spare Tire Stored Underbody w/Crankdown
- Back Up Alarm
- Skid Plates

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Factory/OEM In Cab Switches (mounted)
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

OPTIONS:

1. Diesel engine:
 - Engine Block Heater

2. Straight Blade Snowplow:

- Minimum 8'6" Powdercoated Steel Blade Assembly, Full Trip Design
- Minimum 29" Blade Height
- Minimum 12 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

3. Adjustable Winged Snowplow:

- Minimum Powdercoated Steel Blade Assembly, Full Trip design
- Minimum Width 8' (retracted), 10' (expanded)
- Minimum 30" Blade Height
- Minimum 14 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 6 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

4. V-Blade Snowplow:

- Minimum 8'2" Powdercoated Steel Moldboard, Trip-Edge Design
- Minimum Blade Height 30" @ Center, 37.5" @ Ends
- Minimum 14 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

5. Steel Platform Stake Body:

- Minimum 8'6" length to accommodate 56" CA measurement
- Minimum 79" width
- Minimum 6" structural longsills with gusseted crossmembers
- High strength steel formed crossmembers on 18" centers
- High strength steel side and end rails
- Minimum 2" nominal treated #1 grade dense yellow pine flooring with tongue and groove
- Drop-in style rectangular bulkhead with punched window
 - 11-gauge high strength steel bulkhead material
 - 13-gauge high strength steel vertical post
- Minimum 35" Steel Stake Racks with quiet latch connection
- Minimum Class IV 2-1/2" Hitch Receiver and 7-wire trailer plug with underride protection

- Reinforced internal stake pockets
- Factory black finish
- LED clearance and marker lights to meet current FMVSS standards
- Mudflaps behind rear wheels
- LED stop/tail/turn backup lighting
- Undercoated
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

6. Aluminum Platform Stake Body:

- Minimum 8'6" length to accommodate 56" CA SRW configuration
- Minimum 79" width
- Minimum all-aluminum non-slip floor
- Minimum 42" aluminum rectangular bulkhead with window grill, bolt on underbody reinforcement
- Minimum 40" removable aluminum stake rack sides
- Minimum Class IV 2" Hitch Receiver and 7-wire trailer plug with underride protection
- Rub Rails on both sides
- Squared Bed Corners
- LED clearance and marker lights to meet current FMVSS standards
- LED stop/tail/turn backup lighting
- Mudflaps behind rear wheels
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

7. Steel Utility Body: (ref: Knapheide 696, 700 series layout or equal)

- Finished in body manufacturer standard "**white**" exterior (alternative colors are extra charge)
- Minimum two-sided galvaneal construction body
- Streetside compartmentation to feature:
 - Full-height vertical compartments in front and rear
 - Horizontal compartment between front and rear compartment
- Curbside compartmentation to feature: (no exceptions)
 - Full-height compartment in front of body
 - Small compartment at rear of body
 - Vertical compartment to run from front compartment to rear of body (no exceptions)
- Manufacturer standard shelving configuration
- Double panel galvaneal steel doors with automotive style door seals
- Automotive style paddle activated rotary latches **with Power Locking Feature**
- Cab Guard to protect entire back of cab
- Spray line entire cargo space floor, tailgate, sidewalls and front bulkhead
- Grab handles on each side at rear
- Recessed rear hitch bumper
- Minimum Class IV rated 2" receiver with 7-wire trailer plug
- Complete undercoating on truck body
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Turn/Backup Taillights
- Backup Alarm
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

8. Aluminum Utility Body: (ref: Knapheide A698, 700 series layout or equal)
- Finished in body manufacturer standard “**white**” exterior (alternative colors are extra charge)
 - Minimum all-aluminum non-skid floor
 - Streetside compartmentation to feature:
 - Full-height vertical compartments in front and rear
 - Horizontal compartment between front and rear compartment
 - Curbside compartmentation to feature: (no exceptions)
 - Full-height compartment in front of body
 - Small compartment at rear of body
 - Vertical compartment to run from front compartment to rear of body
 - Manufacturer standard shelving/divider configuration
 - Minimum aluminum double panel door construction
 - Automotive style paddle activated rotary latches **with Power Locking Feature**
 - Cab Guard to protect entire back of cab
 - Spray line entire cargo space floor, tailgate, sidewalls and front bulkhead
 - Grab handles on each side at rear
 - Recessed rear hitch bumper
 - Minimum Class IV rated 2” receiver with 7-wire trailer plug
 - LED clearance and marker lights to meet current FMVSS standards
 - LED Stop/Turn/Backup Taillights
 - Backup Alarm
 - Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
9. Ladder Rack: (for service body application TO REPLACE CAB GUARD)
- Constructed of heavy wall, rust-free aluminum extrusions
 - Full overhead utility rack with extension over cab and rear crossmember
 - Minimum 1000-lb capacity
 - Mid-crossmember required
 - Cab window guard
10. Liftgate: (for platform body application)
- Minimum 1,600-lb Capacity
 - 2-Piece Folding Aluminum Platform (Minimum 70” wide x 32” wide + 6” taper)
 - LED Stop/Tail/Turn Mounted in rear apron
 - Galvanized finish framework
 - In cab cut off switch
 - Remote pendant control
 - Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
11. Amber Flashing LED Light Package: (wired to factory/OEM switches)
- Two (2) amber flashing LED lights on front grille on separate switch for plowing (ref: Whelen ION T-Series, or equal)
 - Two (2) amber flashing LED lights mounted in rear of vehicle in conspicuous location to provide best visibility/protection (ref: Whelen Vertex™ series or equal)
 - Mini style LED light bar (ref.: Whelen Mini Century) mounted on bulkhead on platform body or on cab guard on utility body

Class 3, Type 3: 14,000 lb. GVWR Four Wheel Drive,
Dual Rear Wheel Cab & Chassis with Optional Bodies

MECHANICAL:

- Minimum 6.4 Liter Eight (8) Cylinder Gasoline Powered Engine
- Minimum 8-Speed Automatic Transmission
- Minimum Locking or Limited Slip Rear Differential
- Minimum 14,000-lb GVWR
- Dual Rear Wheel Wheel Configuration (60" CA)
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Dual Batteries **MUST** be provided if available from the manufacturer (GM/Ford Dual, RAM Single)
- Dual Alternators (minimum 390 Amps combined)
- Snow Plow Prep Package

EXTERIOR:

- Cab Configuration Determined by Separate Pricing Sheet
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 17" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plates

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Manufacturer/OEM in-cab switches (mounted)
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

OPTIONS:

1. Straight Blade Snowplow:
 - Minimum 9' Powdercoated Steel Blade Assembly, Full Trip Design
 - Minimum 29" Blade Height
 - Minimum 12 ga Steel Blade

- Minimum ½” Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

2. Adjustable Winged Snowplow:

- Minimum Powdercoated Steel Blade Assembly, Full Trip design
- Minimum Width 8’ (retracted), 10’ (expanded)
- Minimum 30” Blade Height
- Minimum 14 ga Steel Blade
- Minimum ½” Steel Cutting Edge
- Minimum 6 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

3. V-Blade Snowplow:

- Minimum 9’2” Powdercoated Steel Moldboard, Trip-Edge Design
- Minimum Blade Height 30” @ Center, 37.5” @ Ends
- Minimum 14 ga Steel Blade
- Minimum ½” Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

4. Steel Platform Stake Body:

- Minimum 9’4” length to accommodate 60” CA DRW application
- Minimum 94” wide
- Minimum 5” structural longsills
- High strength steel formed crossmembers on 18” centers
- High strength steel side and end rails
- Minimum 2” nominal treated #1 grade dense yellow pine flooring with tongue and groove
- Heavy duty, weld-on, reinforced rectangular bulkhead with punched window:
 - High strength steel outer post
 - Structural channel inner post
- Minimum 28” Steel Stake Racks with quiet latch connection
- Minimum Class V rated 2” hitch receiver and 7-wire trailer plug with underride protection
- Reinforced internal stake pockets
- External rub rail constructed of 3/8” steel on sides and rear
- Factory black finish
- LED clearance and marker lights to meet current FMVSS standards

- Mudflaps behind rear wheels
- Recessed rubber grommet mounted LED stop/tail/turn backup lighting
- Undercoated
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

5. Aluminum Platform Stake Body:

- Minimum 9'3" length to accommodate 60" CA DRW configuration
- Minimum 96" width
- Minimum all-aluminum non-slip floor
- Minimum 42" aluminum rectangular bulkhead with window grill, bolt on underbody reinforcement
- Minimum 40" removable aluminum stake rack sides
- Minimum Class V rated 2" Hitch Receiver and 7-wire trailer plug with underride protection
- Rub Rails on both sides
- Squared Bed Corners
- LED clearance and marker lights to meet current FMVSS standards
- LED stop/tail/turn backup lighting
- Mudflaps behind rear wheels
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

6. Steel Utility Body: (ref: Knapheide 6108D54, 700 series layout or equal)

- Finished in body manufacturer standard "white" exterior (alternative colors are extra charge)
- Minimum two-sided galvanneal construction body
- Streetside compartmentation to feature:
 - Full-height vertical compartments in front and rear
 - Horizontal compartment between front and rear compartment
- Curbside compartmentation to feature: (no exceptions)
 - Full-height compartment in front of body
 - Small compartment at rear of body
 - Vertical compartment to run from front compartment to rear of body
- Manufacturer standard shelving configuration
- Double panel galvanneal steel doors
- Automotive style paddle activated rotary latches **with Power Locking Feature**
- Cab Guard to protect entire back of cab
- Spray line entire cargo space floor, tailgate, sidewalls and front bulkhead
- Grab handles on each side at rear
- Mudflaps behind rear wheels
- Complete undercoating on truck body
- Recessed rear hitch bumper
- Minimum Class V rated 2" receiver with 7-wire trailer plug
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Turn/Backup Taillights
- Backup Alarm
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

7. Aluminum Utility Body: (ref: Knapheide A6110D54, 700 series layout or equal)

- Finished in body manufacturer standard “white” exterior (alternative colors are extra charge)
- Minimum all-aluminum non-skid floor
- Streetside compartmentation to feature:
 - Full-height vertical compartments in front and rear
 - Horizontal compartment between front and rear compartment
- Curbside compartmentation to feature: (no exceptions)
 - Full-height compartment in front of body
 - Small compartment at rear of body
 - Vertical compartment to run from front compartment to rear of body
- Manufacturer standard shelving/divider configuration
- Minimum aluminum double panel door construction
- Doors to feature automotive style door seals
- Automotive style paddle activated rotary latches **with Power Locking Feature**
- Cab Guard to protect entire back of cab
- Spray line entire cargo space floor, tailgate, sidewalls and front bulkhead
- Grab handles on each side at rear
- Mudflaps behind rear wheels
- Recessed rear hitch bumper
- Minimum Class V rated 2” receiver with 7-wire trailer plug
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Turn/Backup Taillights
- Backup Alarm
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

8. Ladder Rack: (for service body application TO REPLACE CAB GUARD)

- Constructed of heavy wall, rust-free aluminum extrusions
- Full overhead utility rack with extension over cab and rear crossmember
- Minimum 1000-lb capacity with cab window guard and mid-crossmember

9. Liftgate: (for platform body application)

- Minimum 2,000-lb Capacity
- 2-Piece Folding Aluminum Platform (Minimum 86” wide x 32” wide + 6” taper)
- LED Stop/Tail/Turn Mounted in rear apron
- Galvanized finish framework
- In cab cut off switch
- Remote pendant control
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation

10. Amber Flashing LED Light Package: (wired to factory/OEM switches)

- Two (2) amber flashing LED lights on front grille on separate switch for plowing (ref: Whelen ION T-Series, or equal)
- Two (2) amber flashing LED lights mounted in rear of vehicle in conspicuous location to provide best visibility/protection (ref: Whelen Vertex™ series or equal)
- Mini style LED light bar (ref.: Whelen Mini Century) mounted on bulkhead on platform or on cab guard on service body

Class 3, Type 4: 14,000 lb. GVWR Four Wheel Drive,
Dual Rear Wheel Cab & Chassis with Optional Dump Bodies

MECHANICAL:

- Minimum 6.4 Liter Eight (8) Cylinder Gasoline Powered Engine
- Minimum 8-Speed Automatic Transmission
- Minimum Locking or Limited Slip Rear Differential
- Minimum 14,000-lb GVWR
- Dual Rear Wheel Wheel Configuration (60" CA)
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Dual Batteries **MUST** be provided if available from the manufacturer (GM/Ford Dual, RAM Single)
- Dual Alternators (minimum 390 Amps combined)
- Snow Plow Prep Package

EXTERIOR

- Cab Configuration Determined by Separate Pricing Sheet
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 17" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plates

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

OPTIONS:**1. Steel Dump Body:**

- Minimum 9'3" length, 94" width, 2-3 cu yd capacity for 60 CA
- Minimum 12" double panel rigid side wall with 10 ga inner panel and 12 ga outer panel
- Minimum 5" longitudinal construction with 3" crossmembers on 12" centers
- Minimum 10 ga floor

- Minimum 1/4 cabshield with window
 - Minimum 18" rear height with full height corner posts
 - Minimum 10 ga double-acting tailgate with center coal door
 - Features boxed top rail and sloped, dirt-shedding, bottom rail on both sides and tailgate
 - 6" Side board pockets at front and rear
 - Factory black finish
 - 11-ton double-acting electric hydraulic scissor hoist subframe mounted with pendant control in cab
 - LED clearance and marker lights to meet current FMVSS standards
 - LED Stop/Tail/Turn recessed in rear corner posts
 - Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
 - Towing Package to include:
 - Minimum 1/2" Tow Plate
 - Class V rated 2-1/2" Receiver
 - D-Rings
 - 7-wire trailer plug
 - Amber Warning Light Package to include: (wired to factory/OEM switches)
 - Two flashing LED on front grille on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
 - Tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Rear bar w/20' pull rope
 - Steel pull out step for operator safety mounted streetside
 - Grab handle mounted on cab shield on streetside
 - Minimum 24 x 18 x 18 steel locking underbody toolbox mounted curbside
 - Steel splash shields ahead of rear wheels
 - Rear mudflaps with anti-sail device
 - Body up light in cab
 - Body prop
 - Back up alarm
2. Steel Dump Body with Aluminum Drop Sides and Aluminum Tailgate Upgrade Option:
- Same as above with optional aluminum drop sides and aluminum tailgate feature
3. Aluminum Dump Body:
- Minimum 9'4" length, 94" width, 3-4 cu yd capacity for 60" CA
 - Minimum double panel rigid side walls and tailgate
 - Minimum 3/16" floor constructed of fully welded 6061 T6 heat treated aluminum alloy extrusion
 - Minimum 7" H-beam longsill, 6061-T6 extrusion
 - Minimum 1/4 cabshield with window

- Minimum 16-1/2" sides
 - Minimum double-acting tailgate with center coal door
 - Minimum 21,400-lb double-acting hoist capacity with electric/hydraulic operation
 - 6" Side board pockets at front and rear
 - LED clearance and marker lights to meet current FMVSS standards
 - LED Stop/Tail/Turn recessed in rear corner posts
 - Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
 - Towing Package to include:
 - Minimum 1/2" Tow Plate
 - Class V rated 2-1/2" Receiver
 - D-Rings
 - 7-wire trailer plug
 - Amber Warning Light Package to include: (wired to in cab OEM switches)
 - Two flashing LED on front grille, on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
 - Aluminum tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - Rear bar w/20' pull rope
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Stainless steel pull-out step for operator safety mounted streetside
 - Aluminum grab handle mounted on cab shield on streetside
 - Minimum 24 x 18 x 18 aluminum locking underbody toolbox mounted curbside
 - Aluminum splash shields ahead of rear wheels
 - Rear mudflaps with anti-sail device
 - Body up light in cab
 - Back up alarm
4. Aluminum Dump Body with Drop Sides Upgrade option:
- Same as above with optional aluminum drop sides feature
5. Straight Blade Snowplow:
- Minimum 9' Powdercoated Steel Blade Assembly, Full Trip Design
 - Minimum 29" Blade Height
 - Minimum 12 ga Steel Blade
 - Minimum 1/2" Steel Cutting Edge
 - Minimum 8 Ribs
 - Minimum 4 Trip Springs
 - Cast Iron Plow Shoes
 - Factory/OEM Snow Deflector
 - LED Headlamps with Defroster

6. Adjustable Winged Snowplow:

- Minimum Powdercoated Steel Blade Assembly, Full Trip design
- Minimum Width 8' (retracted), 10' (expanded)
- Minimum 30" Blade Height
- Minimum 14 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 6 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

7. V-Blade Snowplow:

- Minimum 9'2" Powdercoated Steel Moldboard, Trip-Edge Design
- Minimum Blade Height 30" @ Center, 37.5" @ Ends
- Minimum 14 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

8. Electric Under Tailgate Spreader:

- Minimum 304 stainless steel construction
- Minimum 12V DC-powered electric drive
- Minimum 18" polyurethane spinner on self-leveling frame
- Independent auger and spinner motors
- Anti-flow plate and auger screen
- Stainless steel spill shields
- Heavy duty in-cab controller
- LED Spreader work light

Class 5, Type 1: Minimum 19,000 lb. GVWR Four Wheel Drive,
Gasoline Powered Cab & Chassis with Optional Dump Bodies

MECHANICAL:

- Minimum 6.4 Liter Eight (8) Cylinder Gasoline Powered Engine
- Minimum 8-Speed Automatic Transmission
- Minimum Locking or Limited Slip Rear Differential
- Minimum 19,000-lb GVWR
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Dual Batteries ***MUST*** be provided if available from the manufacturer (Ford Dual, RAM Single)
- Dual Alternators (minimum 400 Amps combined)
- Snow Plow Prep Package

EXTERIOR

- Cab Configuration Determined by Separate Pricing Sheet
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 19.5" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plate(s)

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

OPTIONS:

1. Steel Dump Body:

- Minimum 9' length, 94" width, 3-4 cu yd capacity for 60" CA
- Minimum 17" double panel rigid side wall with 10 ga inner panel and 12 ga outer panel
- Minimum 5" longitudinal construction with 3" crossmembers on 12" centers
- Minimum 10 ga floor
- Minimum 1/4 cabshield with window

- Minimum 23" rear height with full height corner posts
- Minimum 10 ga double-acting tailgate with center coal door
- Features boxed top rail and sloped, dirt-shedding, bottom rail on both sides and tailgate
- 6" Side board pockets at front and rear
- Factory black finish
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
- Central hydraulic system to include:
 - To operate hoist and tailgate spreader
 - 11 Ton class 20 double acting hoist with 5" x 20" cylinder
 - PTO with direct mount pump
 - Steel valve/tank enclosure
 - Electric hydraulic valves for dump and tailgate spreader
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Toggle switch in dash to raise/lower body (must be labled)
 - Manual/electric spreader control mounted within reach of driver
 - Hydraulic oil and oil level gauge
 - Hoses at rear for spreader
- Towing Package to include:
 - Minimum 1/2" Tow Plate w/ICC
 - Class V rated minimum 2-1/2" Receiver
 - D-Rings
 - 4/7-wire trailer plug
- Amber Warning Light Package to include: (wired to factory/OEM switches)
 - Two flashing LED on front grille on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
- Tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Rear anti-sail tarp tension bow
 - Rear bar w/20' pull rope
- Pull-out step for operator safety mounted streetside
- Grab handle mounted on cab shield on streetside
- Steel splash shields ahead of rear wheels
- Rear mudflaps with anti-sail device
- Minimum 24 x 18 x 18 steel locking underbody toolbox mounted curbside
- Body up light in cab
- Body prop
- Back up alarm

2. Steel Dump Body with Aluminum Drop Sides and Aluminum Tailgate:
 - Same as above with optional aluminum drop sides and aluminum tailgate feature
3. Aluminum Dump Body:
 - Minimum 9'4" length, 94" width, 3-4 cu yd capacity for 60" CA
 - Minimum double panel rigid side walls and tailgate
 - Minimum 3/16" floor constructed of fully welded 6061 T6 heat treated aluminum alloy extrusion
 - Minimum 7" H-beam long sill, 6061-T6 extrusion
 - Minimum 1/4 cab shield with window
 - Minimum 16-1/2" sides
 - Minimum double-acting tailgate with center coal door
 - 6" Side board pockets at front and rear
 - LED clearance and marker lights to meet current FMVSS standards
 - LED Stop/Tail/Turn recessed in rear corner posts
 - Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
 - Central hydraulic system to include:
 - To operate hoist and tailgate spreader
 - 11 Ton class 20 double acting hoist with 5" x 20" cylinder
 - PTO with direct mount pump
 - Steel valve/tank enclosure
 - Electric hydraulic valves for dump and tailgate spreader
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Toggle switch in dash to raise/lower body (must be labeled)
 - Manual/electric spreader control mounted within reach of driver
 - Hydraulic oil and oil level gauge
 - Hoses at rear for spreader
 - Towing Package to include:
 - Minimum 1/2" Tow Plate
 - Class V rated 2-1/2" Receiver w/ "D" Rings
 - 7-wire trailer plug
 - Amber Warning Light Package to include: (wired to factory/OEM switches)
 - Two flashing LED on front grille on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
 - Aluminum tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Rear bar w/20" pull rope
 - Stainless Steel pull-out step for operator safety mounted streetside
 - Aluminum grab handle mounted on cab shield on streetside
 - Minimum 24 x 18 x 18 aluminum locking underbody toolbox mounted curbside

- Body up light in cab
 - Body prop
 - Back up alarm
4. Aluminum Dump Body with Aluminum Drop Sides and Aluminum Tailgate:
- Same as above with optional aluminum drop sides and aluminum tailgate feature
5. Electric/Hydraulic Straight Blade Snowplow:
- Minimum 10' Powdercoated Steel Blade Assembly, Full Trip Design
 - Minimum 34" Blade Height
 - Minimum 11 ga Steel Blade
 - Minimum ½" Steel Cutting Edge
 - Minimum 8 Ribs
 - Minimum 6 Trip Springs
 - Cast Iron Plow Shoes
 - Factory/OEM Snow Deflector
 - LED Headlamps with Defroster
6. Electric/Hydraulic V-Blade Snowplow:
- Minimum 10' Powdercoated Steel Moldboard, Trip-Edge Design
 - Minimum Blade Height 35" @ Center, 45" @ Ends
 - Minimum 11 ga Steel Blade
 - Minimum ½" Steel Cutting Edge
 - Minimum 8 Ribs
 - Minimum 4 Trip Springs
 - Cast Iron Plow Shoes
 - Factory/OEM Snow Deflector
 - LED Headlamps with Defroster
7. Full-Hydraulic Stainless Steel Under Tailgate Spreader:
- Upfitter responsible to provide and install all parts, materials, wet lines to be fully operational from PTO hydraulic system outlined in dump body description
 - 3/16" stainless-steel hopper w/7 ga stainless steel cover
 - 2 channel design running full length with offset spinner assembly mounting brackets
 - 3/16" full drop trough bottom with offset hinges, stainless steel safety stop easy latch handles
 - 3/16" plate complete trough end plates, cutouts for top cover latches, bottom trough latches
 - Gearbox drive coupled directly to the auger
 - Self-leveling, swing-away type, fully-adjustable spinner assembly
 - 20" polyurethane spinner disc

Class 5, Type 1A: Minimum 19,000 lb. GVWR Four Wheel Drive,
Gasoline Powered Cab & Chassis with Interchangeable Work Truck Bodies

MECHANICAL:

- Minimum 6.4 Liter Eight (8) Cylinder Gasoline Powered Engine
- Minimum 8-Speed Automatic Transmission
- Minimum Locking or Limited Slip Rear Differential
- Minimum 19,000-lb GVWR
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Dual Batteries ***MUST*** be provided if available from the manufacturer (Ford Dual, RAM Single)
- Dual Alternators (minimum 400 Amps combined)
- Snow Plow Prep Package

EXTERIOR

- Minimum CEF 120" (10') with approximate 18" overhang and 84" cab-to-axle
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 19.5" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plate(s)

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

INTERCHANGEABLE TRUCK BODY HOIST SYSTEM

- Bolt on design for transferability between chassis
- 15,000 lbs. winch capacity
- Electric powered hydraulic hoist system (Maximum of 6 loaded lifts per day)
- Minimum 11 ton dumping capacity
- Single handed operator controls
- 50° dump angle
- Self-engaging front body lock

- Universal design for multiple body applications
- Integrated cable hook stowing on both sides of system
- Swivel hook for improved cable spooling and body attachment
- Slide pads to provide low friction body support and reduced wear on system and body rails
- Single-piece, pre-lubricated, bolt-on body rollers
- Fully enclosed and waterproof junction box with IP 66 rating and pump cover
- Poly V-roller to reduce excessive wear and extend cable life
- Zinc epoxy prime & polyester topcoated in black
- All required FMVSS lighting
- Tow package-inc:
 - 20K bolt-on design with lights
 - Adjustable height ICC bars with integrated LED lighting for stop/tail/turn and reverse
 - Backup camera mounted to provide operator unobstructed view behind truck
 - Pre-drilled and tapped with mounted Class V receiver
 - Pre-drilled and tapped license plate mount
 - Breakway cable mounting point
 - Trailer wiring for both 4-/7RV
 - Heavy duty d-rings

OPTIONS:

1. Drop Box:

- High quality zinc prime & powder coated finish
- 6" Steel ground rollers
- 10 Gauge floor
- 3" structural channel crossmembers on 16" centers
- Top rail constructed from 3" x 3" x 1/8" tubing
- Tailgate construction 3" structural channel, 16" on center
- 39" side height
- Minimum 12-gauge sheet sides, front and gate
- Minimum 7-gauge sheet rear corner posts

2. Carbon Steel Dump Body:

- High quality zinc prime & powder coated finish
- 3" structural crossmembers on 16" centers
- Bulkhead appropriate to truck chassis design with 18" cab shield
- Tailgate constructed from 2" x 2" x 3/16" tubing and 10 ga sheet
- Top rail constructed from 3" x 3" x 1/8" steel tubing
- Ramp gate for drive on convenience
- 12" side height & 24" tailgate height
- Minimum 10 ga steel floor
- Minimum 12 ga steel sides
- 6" Steel ground rollers
- Drop down sides

3. Flatbed Body:

- High quality zinc prime and powder coated finish in black
- 24" on center stake pockets with 3/8" x 2" flatbar rub rail
- 3" structural channel crossmembers on 16" centers
- Bulkhead height to match cab design with window
- Integrated 4" x 6" steel ground rollers
- 3" x 3" x 1/8" tubing outer rail
- 4-corner chain keyholes
- Stake sides
- Beavertail

4. Arbor Body:

- High quality zinc prime and powder coated finish in black
- 2" x 2" x 1/8" tubing tubular framework formed tailgate with 12 ga sheet
- Removable sectional roof with mounting hardware and cam latches
- Roof constructed of 12 ga sheet, 22" high with top support, 37" long sections
- Barn style rear doors with side retainers
- 3' x 3" x 1/8" steel tubing top rail
- Minimum 12 ga sheet bulkhead
- Minimum 12 ga sheet side posts
- Minimum 10 ga steel floor
- 6" steel ground rollers

5. Storage Body:

- High quality zinc prime and powder coated finish in black
- 72" sides constructed from 12 ga sheet 72" sides with 5" formed posts on 48" center
- Minimum 6" high peak roof constructed of 12 ga sheet
- Top rail formed from 3" x 3" x 1/8" tubing
- Lockable security-style doors
- Minimum 12 ga sheet bulkhead
- Minimum 10 ga sheet floor
- 6" steel ground rollers

PLEASE NOTE: More than one body may be ordered with this Class/Type. When more than one body is requisitioned, vendor **MUST** provide delivery of any additional body.

Class 5, Type 2: Minimum 19,500 lb. GVWR Four Wheel Drive,
Diesel Powered Cab & Chassis with Optional Dump Bodies

MECHANICAL:

- Minimum 6.7 liter six (6) cylinder turbo diesel engine
- Minimum 8-speed automatic transmission
- Minimum locking or limited slip rear differential
- Minimum 19,500-lb GVWR
- Part-time four-wheel drive with electronic transfer case
- Dual batteries
- Dual Alternators (minimum 410 Amps combined)
- Snow Plow Prep Package
- Engine block heater
- Manual operator diesel emissions regeneration

EXTERIOR

- Cab Configuration Determined by Separate Pricing Sheet
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 19.5" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plate(s)

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

OPTIONS:**1. Steel Dump Body:**

- Minimum 9' length, 94" width, 3-4 cu yd capacity for 60" CA
- Minimum 17" double panel rigid side wall with 10 ga inner panel and 12 ga outer panel
- Minimum 5" longitudinal construction with 3" crossmembers on 12" centers

- Minimum 10 ga floor
- Minimum 1/4 cabshield with window
- Minimum 23" rear height with full height corner posts
- Minimum 10 ga double-acting tailgate with center coal door
- Features boxed top rail and sloped, dirt-shedding, bottom rail on both sides and tailgate
- 6" Side board pockets at front and rear
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
- Central hydraulic system to include:
 - To operate hoist and tailgate spreader
 - 11 Ton class 20 double acting hoist with 5" x 20" cylinder
 - PTO with direct mount pump
 - Steel valve/tank enclosure
 - Electric hydraulic valves for dump and tailgate spreader
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Toggle switch in dash to raise/lower body (must be labled)
 - Manual/electric spreader control mounted within reach of driver
 - Hydraulic oil and oil level gauge
 - Hoses at rear for spreader
- Towing Package to include:
 - Minimum 1/2" Tow Plate w/ICC
 - Class V rated minimum 2-1/2" Receiver
 - D-Rings
 - 4/7-wire trailer plug
- Amber Warning Light Package to include: (wired to factory/OEM switches)
 - Two flashing LED on front grille on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
- Tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Rear bar w/20' pull rope
- Pull-out step for operator safety mounted streetside
- Grab handle mounted on cab shield on streetside
- Steel splash shields ahead of rear wheels
- Rear mudflaps with anti-sail device
- Minimum 24 x 18 x 18 steel locking underbody toolbox mounted curbside
- Body up light in cab
- Body prop
- Back up alarm

○ Steel Dump Body with Aluminum Drop Sides and Aluminum Tailgate:

- Same as above with optional aluminum drop sides and aluminum tailgate feature

○ Aluminum Dump Body:

- Minimum 9'4" length, 94" width, 3-4 cu yd capacity for 60" CA
- Minimum double panel rigid side walls and tailgate
- Minimum 3/16" floor constructed of fully welded 6061 T6 heat treated aluminum alloy extrusion
- Minimum 7" H-beam long sill, 6061-T6 extrusion
- Minimum 1/4 cab shield with window
- Minimum 16-1/2" sides
- Minimum double-acting tailgate with center coal door
- 6" Side board pockets at front and rear
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
- Central hydraulic system to include:
 - To operate hoist and tailgate spreader
 - 11 Ton class 20 double acting hoist with 5" x 20" cylinder
 - PTO with direct mount pump
 - Steel valve/tank enclosure
 - Electric hydraulic valves for dump and tailgate spreader
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Toggle switch in dash to raise/lower body (must be labeled)
 - Manual/electric spreader control mounted within reach of driver
 - Hydraulic oil and oil level gauge
 - Hoses at rear for spreader
- Towing Package to include:
 - Minimum 1/2" Tow Plate
 - Class V rated 2" Receiver
 - D-Rings
 - 7-wire trailer plug
- Amber Warning Light Package to include: (wired to factory/OEM switches)
 - Two flashing LED on front grille on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
- Aluminum tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Rear bar w/20' pull rope
- Stainless Steel pull-out step for operator safety mounted streetside
- Aluminum grab handle mounted on cab shield on streetside

- Minimum 24 x 18 x 18 aluminum locking underbody toolbox mounted curbside
- Stainless steel splash guard ahead of rear wheels
- Mudflaps with anti-sail device
- Body up light in cab
- Body prop
- Back up alarm

- Aluminum Dump Body with Aluminum Drop Sides and Aluminum Tailgate:
Same as above with optional aluminum drop sides and aluminum tailgate feature

- Electric/Hydraulic Straight Blade Snowplow:
 - Minimum 10' Powdercoated Steel Blade Assembly, Full Trip Design
 - Minimum 34" Blade Height
 - Minimum 11 ga Steel Blade
 - Minimum ½" Steel Cutting Edge
 - Minimum 8 Ribs
 - Minimum 6 Trip Springs
 - Cast Iron Plow Shoes
 - Factory/OEM Snow Deflector
 - LED Headlamps with Defroster

- Electric/Hydraulic V-Blade Snowplow:
 - Minimum 10' Powdercoated Steel Moldboard, Trip-Edge Design
 - Minimum Blade Height 35" @ Center, 45" @ Ends
 - Minimum 11 ga Steel Blade
 - Minimum ½" Steel Cutting Edge
 - Minimum 8 Ribs
 - Minimum 4 Trip Springs
 - Cast Iron Plow Shoes
 - Factory/OEM Snow Deflector
 - LED Headlamps with Defroster

- Hydraulic Stainless Steel Under Tailgate Spreader:
 - Upfitter responsible to provide and install all parts, materials, wet lines to be fully operational from PTO hydraulic system outlined in dump body description
 - 3/16" stainless-steel hopper w/7 ga stainless steel cover
 - 2 channel design running full length with offset spinner assembly mounting brackets
 - 3/16" full drop trough bottom with offset hinges, stainless steel safety stop easy latch handles
 - 3/16" plate complete trough end plates, cutouts for top cover latches, bottom trough latches
 - Gearbox drive coupled directly to the auger
 - Self-leveling, swing-away type, fully-adjustable spinner assembly
 - 20" polyurethane spinner disc

Class 5, Type 2A: Minimum 19,500 lb. GVWR Four Wheel Drive,
Diesel Powered Cab & Chassis with Interchangeable Work Truck Bodies

MECHANICAL:

- Minimum 6.6 liter six (6) cylinder turbo diesel engine
- Minimum 6-speed automatic transmission
- Minimum locking or limited slip rear differential
- Minimum 19,500-lb GVWR
- Part-time four-wheel drive with electronic transfer case
- Dual batteries
- Dual Alternators (minimum 410 Amps combined)
- Snow Plow Prep Package
- Engine block heater
- Manual operator diesel emissions regeneration

EXTERIOR

- Minimum CEF 132" (11') with approximate 18" overhang and 84" cab-to-axle
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 19.5" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plate(s)

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

INTERCHANGEABLE TRUCK BODY HOIST SYSTEM

- Bolt on design for transferability between chassis
- 18,000 lbs. winch capacity
- Full hydraulic hoist system (unlimited loaded lifts per day)
- Minimum 14 ton dumping capacity
- Single handed operator controls

- 50° dump angle
- Self-engaging front body lock
- Universal design for multiple body applications
- Integrated cable hook stowing on both sides of system
- Swivel hook for improved cable spooling and body attachment
- Slide pads to provide low friction body support and reduced wear on system and body rails
- Single-piece, pre-lubricated, bolt-on body rollers
- Fully enclosed and waterproof junction box with IP 66 rating and pump cover
- Poly V-roller to reduce excessive wear and extend cable life
- Zinc epoxy prime & polyester topcoated in black
- All required FMVSS lighting
- Tow package-inc:
 - 20K bolt-on design with lights
 - Adjustable height ICC bars with integrated LED lighting for stop/tail/turn and reverse
 - Backup camera mounted to provide operator unobstructed view behind truck
 - Pre-drilled and tapped with mounted Class V receiver
 - Pre-drilled and tapped license plate mount
 - Breakway cable mounting point
 - Trailer wiring for both 4-/7RV
 - Heavy duty d-rings

OPTIONS:

1. Drop Box:

- High quality zinc prime & powder coated finish
- 6" Steel ground rollers
- 10 Gauge floor
- 3" structural channel crossmembers on 16" centers
- Top rail constructed from 3" x 3" x 1/8" tubing
- Tailgate construction 3" structural channel, 16" on center
- 39" side height
- Minimum 12-gauge sheet sides, front and gate
- Minimum 7-gauge sheet rear corner posts

2. Carbon Steel Dump Body:

- High quality zinc prime & powder coated finish
- 3" structural crossmembers on 16" centers
- Bulkhead appropriate to truck chassis design with 18" cab shield
- Tailgate constructed from 2" x 2" x 3/16" tubing and 10 ga sheet
- Top rail constructed from 3" x 3" x 1/8" steel tubing
- Ramp gate for drive on convenience
- 12" side height & 24" tailgate height
- Minimum 10 ga steel floor
- Minimum 12 ga steel sides
- 6" Steel ground rollers
- Drop down sides

3. Flatbed Body:

- High quality zinc prime and powder coated finish in black
- 24" on center stake pockets with 3/8" x 2" flatbar rub rail
- 3" structural channel crossmembers on 16" centers
- Bulkhead height to match cab design with window
- Integrated 4" x 6" steel ground rollers
- 3" x 3" x 1/8" tubing outer rail
- 4-corner chain keyholes
- Stake sides
- Beavertail

4. Arbor Body:

- High quality zinc prime and powder coated finish in black
- 2" x 2" x 1/8" tubing tubular framework formed tailgate with 12 ga sheet
- Removable sectional roof with mounting hardware and cam latches
- Roof constructed of 12 ga sheet, 22" high with top support, 37" long sections
- Barn style rear doors with side retainers
- 3' x 3" x 1/8" steel tubing top rail
- Minimum 12 ga sheet bulkhead
- Minimum 12 ga sheet side posts
- Minimum 10 ga steel floor
- 6" steel ground rollers

5. Storage Body:

- High quality zinc prime and powder coated finish in black
- 72" sides constructed from 12 ga sheet 72" sides with 5" formed posts on 48" center
- Minimum 6" high peak roof constructed of 12 ga sheet
- Top rail formed from 3" x 3" x 1/8" tubing
- Lockable security-style doors
- Minimum 12 ga sheet bulkhead
- Minimum 10 ga sheet floor
- 6" steel ground rollers

PLEASE NOTE: More than one body may be ordered with this Class/Type. When more than one body is requisitioned, vendor MUST provide delivery of any additional body.

Class 5, Type 3: Minimum 19,500 lb. GVWR Four Wheel Drive, 4-door Crew Cab, Cab & Chassis
with Optional Gooseneck Towing Body

MECHANICAL:

- Minimum 6.6 liter six (6) cylinder turbo diesel engine
- Minimum 6-Speed Automatic Transmission
- Minimum Locking or Limited Slip Rear Differential
- Minimum 19,500-lb GVWR
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Minimum dual battery system with 1300 CCA combined
- Dual Alternators (minimum 370 Amps combined)
- Snow Plow Prep Package
- Engine Block Heater
- Max/High Capacity Trailer Tow Package
- Wheelbase to achieve 60" CA to accommodate body
- Maximum GCWR available from manufacturer

EXTERIOR

- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Full 4-Door Crew Cab Configuration
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 19.5" Painted Steel Wheels
- Two (2) Steering/All-Position/All-Season-style tread front tires
- Four (4) All-Terrain/On/Off Road/Traction-style rear Tires
- Back Up Alarm
- Skid Plate(s)

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

OPTIONS:

1. Steel Gooseneck Body:

- Minimum 9' length and 96" width for 60" CA
- 12 gauge formed cross sills on 16" centers
- 6" Structural channel long sills
- Internal stake pockets on both sides and rear of body
- Rub rail on both sides of body
- Integrated fuel fill cup
- Minimum 12-gauge treadplate floor
- (2) 70" x 16" x 13" steel above bed toolboxes mounted on front corners (at bulkhead)
- (2) 30" x 18" x 18" steel underbed toolboxes (one each side at front)
- 6" sides and rear racks for remaining perimeter on top of body
- Minimum 30,000 lbs gross trailer weight 2-5/16" gooseneck turnover hitch ball
- Minimum 21,000-lbs receiver hitch at rear
- Formed integrated bulkhead with screened window and tapered design with integrated high mounted LED combo and work lights
- Body finish black
- 7-way trailer plug at rear of body
- All LED clearance and marker lights
- Integrated LED Back-up and Stop/Tail/Turn lights recessed in rear skirt
- Safety chain attachment points
- Mudflaps with anti-sail bracket
- Factory/OEM backup camera placed for unobstructed view behind vehicle
- Back up alarm

2. Aluminum Gooseneck Body:

- Minimum 9' length and 96" width for 60" CA
- Tapered bulkhead with integrated high mount LED combo and work lights
- 20" Extruded buck-plate with cast aluminum corners and LED tail lights
- Heavy duty diamond plate floor
- Tapered rear corners
- Sub-structure is 5" j-sills and 3" cross members
- Rear window grill tapered to match cab and punched to allow maximum rear visibility
- Heavy duty aluminum 5" high extruded side rails with stake pockets and rub-rails
- Formed aluminum wing brackets transition from bulkhead to body
- Aluminum toolboxes on top of body, full length (108") with fold-down tailgate at rear
- (2) 30" x 18" x 18" aluminum underbed toolboxes (1 each side at front)
- 8" Aluminum removeable side kit to provide side and rear panels for remaining perimeter
- EZ-Open trap door to access gooseneck hitch
- 7-way trailer plug at rear of body
- All LED clearance and marker lights
- Integrated LED Back-up and Stop/Tail/Turn lights recessed in rear skirt
- Steel ICC bumper with 2.5" hitch and integrated steps
- Mudflaps with anti-sail bracket
- Factory/OEM backup camera placed for unobstructed view behind vehicle
- Back up alarm

Class 5, Type 4: Minimum 19,500 lb. GVWR Four Wheel Drive,
SuperCab Cab & Chassis with Crane Body

MECHANICAL:

- Minimum 6.7 liter six (6) cylinder turbo diesel engine
- Minimum 10-Speed Automatic Transmission
- Minimum 4.30 ratio with Limited Slip Rear Differential
- Minimum 19,500-lb GVWR
- Part-Time Four-Wheel Drive with Electronic Transfer Case
- Dual Alternators (minimum 410 Amps combined)
- Snow Plow Prep Package
- Engine Block Heater
- Max/High Capacity Trailer Tow Package
- 192" Wheelbase (84" Cab-to-Axle)

EXTERIOR

- Four Door SuperCab Configuration only (Full 4-door crew cab models are unacceptable)
- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Step
- Six (6) 19.5" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plate(s)

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen w/Backup Camera Display
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted under rear seat
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted under rear seat

ALUMINUM CRANE BODY:

- Minimum 11' length and 96" width for 84" CA
- .09 Aluminum Body Shell
- Double panel doors
- Full seam continuously welded
- (6) recessed cargo tie-downs in floor – 6,000# capacity

- (2) heavy duty aluminum grab handles
- LED stop/tail/turn lights, clearance lights, & backup lights
- 21" work surface bumper with thru compartment, vise plate, & 2.5" receiver tube. (Vise not included)
- (2) Grip-Strut flex steps, (1) each side of rear tailshelf
- 16" high double panel slam tailgate.
- Commercial grade spray-on bed liner applied to cargo floor, sides, compartment tops, bulkhead, tailgate, rear bumper, and entire front of body
- Master Locking System: Secures one entire side of compartments with a padlock in one easy motion and acts as a visual theft deterrent
- Power actuating locks for side compartments activated from Ford key fob. (Does not include R1V compartment)
- Cab Protector with Punched window
- Auxiliary Lighting:
 - (4) LED work lights installed
 - LED compartment lights in each compartment except the bottle gas compartment
- Compartment lighting:
 - LED compartment lights inside compartments, except the R1V w/ oxygen/acetylene tank holders.
- Strobe system:
 - S/T/T backup lights with built-in reflectivity & integrated strobes
 - (2) amber LED strobe lights installed on front grill
- Outriggers:
 - Hydraulic out / hydraulic down at curbside and hydraulic down at street side
- Backup Alarm:
 - Ecco 600 Series Back up alarm with Smart feature
- Backup Camera:
 - OEM backup camera installed
- Trailer Plug:
 - 7-way flat pin trailer socket installed
- Finish Paint:
 - Body interior factory White.
 - Exterior painted Ford Carbonized gray on the exterior, inside of door's & door jambs.
- 2 COMPARTMENTATIONS
 - Streetside Compartments:
 - 44" high side packs and 60" high right front vertical compartment
 - Automotive quality 3-pt T-handles
 - Streetside compartmentation:
 - 1st Vertical: 7 drawer unit – 3-3" high drawers, 3-5" high drawers, and 1-7" high drawer
 - 2nd Vertical: 2 adjustable divider shelves with 4 dividers each
 - Horizontal: Bolt bin storage unit
 - 3rd Vertical: 2 adjustable divider shelves with 4 dividers each
 - Curbside compartmentation:
 - 1st Vertical: Gas bottle retainer (2 bottles), vented top& bottom; Full height vertical partition with 3 adjustable divider shelves
 - 2nd Vertical: 2 adjustable divider shelves with 4 dividers each
 - Horizontal: Bolt-in divider shelf with 8 dividers
 - 3rd Vertical: Fixed shelf

CRANE

- Stellar 8630 w/29.9' hydraulic reach (NO EXCEPTIONS)
- 45,000 Max ft./ Max boost 53,100 lb.
- Maximum lift, 8,600 lb.
- Planetary winch 60'/min speed
- Double-acting cylinders w/integral holding valves
- Filters
- Crane hook
- Snatch block
- Anti-two block device
- Hydraulic shutdown
- 3/8" cable
- Boom support
- Wireless remote control (RF) with back up pendant control.
- Dual Boom tip lights
- Remote docking / charge station for crane remote
- Control Panel:
 - Power Cell, controller and (8) button switch panel in the rear crane compartment
 - CAN-bus system with continuous working load of 115 amps, features built in overload current protection for the system and operator safety
 - LCD display installed in cab

MILLER ENPAK A60GBHW (NO EXCEPTIONS)

- This unit is designed for all-in-one operation. Must be configured for all supplemental equipment (crane, welder and compressor) to be operable with truck engine/drivetrain power.
- Kubota D902T 24.8 HP @ 2,800 RPM Three-cylinder industrial liquid cooled turbocharged diesel w/60 AMP alternator, electronic governor & engine block heater.
- Variable displacement piston pump
- 60 CFM, 80-175 PSI rotary screw compressor
- 12-24V Battery charge/crank assist
- Welder 325 A At 30V, 100% duty cycle
- Generator continuous: 7,000 watts
- LCD Screen/Visual dashboard. Shows key performance indicators of all EnPak A60 Systems and let's operator change settings and configurations easily and quickly.
 - Welding menu button enables weld mode once in weld mode, select weld process and weld settings.
 - Battery charge button. Once in battery charge mode select either 12V or 24V Charge or Crank assist.
 - Air compressor button. Turns the air compressor on/off.
 - Air use determines engine speed.
 - Engine control button is used to Start/Stop the engine
- 20 Gallon hydraulic reservoir
- Enpak Ready to work package w/Aux. power remote box, 50' weld leads, holder & clamp, battery charge/jump cables
- Enpak aux power panel w/ (1), 230-volt outlet & (2) 110 GFCI outlets.
- Reelcraft 50' x 1/2" hose reel and roller fairlead through the right rear compartment
- FLR system
- 3 ENPAK UPGRADE
 - Cold weather package

Class 6, Type 1: Minimum 22,000 lb. GVWR Four Wheel Drive,
Diesel Powered Cab & Chassis with Optional Dump Bodies

MECHANICAL:

- Minimum 6.6 liter eight (8) cylinder turbo diesel engine
- Minimum 6-speed automatic transmission
- 4.30 axle ratio with limited slip rear differential
- Minimum 22,000-lb GVWR
- Part-time four-wheel drive with electronic transfer case
- Dual batteries
- Snow Plow Prep Package
- Engine block heater
- Manual operator diesel emissions regeneration
- Wheelbase necessary to accommodate 84" CA

EXTERIOR

- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Factory/OEM Running Boards/Side Steps
- Six (6) 19.5" Painted Steel Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plate

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

OPTIONS:**1. Steel Dump Body:**

- Minimum 11' length, 94" width, 3-4 cu yd capacity for 84" CA
- Minimum 17" double panel rigid side wall with 10 ga inner panel and 12 ga outer panel
- Minimum 5" longitudinal construction with 3" crossmembers on 12" centers
- Minimum 10 ga floor

- Minimum 1/4 cabshield with window
- Minimum 23" rear height with full height corner posts
- Minimum 10 ga double-acting tailgate with center coal door
- Features boxed top rail and sloped, dirt-shedding, bottom rail on both sides and tailgate
- 6" Side board pockets at front and rear
- Factory black finish
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
- Central hydraulic system to include:
 - Belt driven system or PTO pump to operate hoist and tailgate spreader
 - Minimum class 40 double acting scissor hoist
 - Steel valve/tank enclosure
 - Electric hydraulic valves for dump and tailgate spreader
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Toggle switch in dash to raise/lower body (must be labled)
 - Manual/electric spreader control mounted within reach of driver
 - Hydraulic oil and oil level gauge
 - Hoses at rear for spreader
- Towing Package to include:
 - Minimum 1/2" Tow Plate w/ICC
 - Class V rated minimum 2-1/2" Receiver
 - D-Rings
 - 4/7-wire trailer plug
- Amber Warning Light Package to include: (wired to factory/OEM switches)
 - Two flashing LED on front grille on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
- Tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Rear bar w/20' pull rope
- Pull-out step for operator safety mounted streetside
- Grab handle mounted on cab shield on streetside
- Steel splash shields ahead of rear wheels
- Rear mudflaps with anti-sail device
- 24 x 18 x 18 Locking underbody toolbox mounted curbside
- Body up light in cab
- Body prop
- Back up alarm

2. Stainless Steel Dump Body:

- Minimum 11' length, 94" width, 3-4 cu yd capacity for 84" CA
- Minimum 10 gauge 304 stainless steel sides, front & tailgate
- Minimum 3/16" AR450 HardOx steel floor
- Minimum 1/2 cabshield with punched window
- Minimum 17" fold down sides
- Minimum 23" rear height with full height corner posts
- Minimum 23" double-acting tailgate
- Crossmemberless understructure
- Stainless steel longsills & cross shaft
- All stainless steel hardware
- Features boxed top rail and sloped, dirt-shedding, bottom rail on both sides and tailgate
- 6" Side board pockets at front and rear
- Stainless steel splash shields ahead of rear wheels
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Back up camera to provide driver unobstructed view behind vehicle when in reverse operation
- Central hydraulic system to include:
 - Belt driven system to operate hoist and tailgate spreader
 - Minimum class 40 double acting scissor hoist
 - Steel valve/tank enclosure
 - Electric hydraulic valves for dump and tailgate spreader
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Toggle switch in dash to raise/lower body (must be labled)
 - Manual/electric spreader control mounted within reach of driver
 - Hydraulic oil and oil level gauge
 - Hoses at rear for spreader
- Towing Package to include:
 - Minimum 1/2" Tow Plate
 - Class V rated 2" Receiver
 - D-Rings
 - 7-wire trailer plug
- Amber Warning Light Package to include: (wired to factory/OEM switches)
 - Two flashing LED on front grille on separate switch for plowing operation (Ref: Whelen ION-T, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
- Aluminum tarp system mounted on cab shield featuring:
 - 7" folding crank with detent
 - Tarp roller
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Rear bar w/20' pull rope
- Stainless Steel pull-out step for operator safety mounted streetside

- Aluminum grab handle mounted on cab shield on streetside
- 24 x 18 x 18 Stainless steel locking underbody toolbox mounted curbside
- Body up light in cab
- Body prop
- Back up alarm

3. Electric/Hydraulic Straight Blade Snowplow:

- Minimum 10' Powdercoated Steel Blade Assembly, Full Trip Design
- Minimum 34" Blade Height
- Minimum 11 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 6 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

4. Electric/Hydraulic V-Blade Snowplow:

- Minimum 10' Powdercoated Steel Moldboard, Trip-Edge Design
- Minimum Blade Height 35" @ Center, 45" @ Ends
- Minimum 11 ga Steel Blade
- Minimum ½" Steel Cutting Edge
- Minimum 8 Ribs
- Minimum 4 Trip Springs
- Cast Iron Plow Shoes
- Factory/OEM Snow Deflector
- LED Headlamps with Defroster

5. Full Hydraulic Stainless Steel Under Tailgate Spreader:

- 3/16" stainless-steel hopper w/7 ga stainless steel cover
- 2 channel design running full length with offset spinner assembly mounting brackets
- 3/16" full drop trough bottom with offset hinges, stainless steel safety stop easy latch handles
- 3/16" plate complete trough end plates, cutouts for top cover latches, bottom trough latches
- Gearbox drive coupled directly to the auger
- Self-leveling, swing-away type, fully-adjustable spinner assembly
- 20" polyurethane spinner disc

Class 6, Type 2: Minimum 23,000 lb. GVWR Regular Cab, Four Wheel Drive,
Diesel Powered Cab & Chassis with 22' Aluminum Deck Carrier Body

MECHANICAL:

- Minimum 6.6 liter eight (8) cylinder turbo diesel engine
- Minimum 6-speed automatic transmission
- 4.30 axle ratio with limited slip rear differential
- Minimum 22,000-lb GVWR
- Part-time four-wheel drive with electronic transfer case
- Dual batteries
- Snow Plow Prep Package
- Engine block heater
- Manual operator diesel emissions regeneration
- Wheelbase necessary to accommodate 22" aluminum deck carrier

EXTERIOR

- Front Frame Mounted Recovery Hooks
- Headlamps featuring Daytime Running Lamp functionality
- Heated, Outside Power Adjustable Trailer Tow Style Mirror w/Convex Spotter
- Conventional two-door cab
- Factory/OEM Running Boards/Side Steps
- Six (6) 19.5" Aluminum Wheels
- Six (6) All-Terrain or On/Off Road Tread Tires
- Back Up Alarm
- Skid Plate

INTERIOR:

- Vinyl seat covering
- Rubberized/Vinyl floor covering
- AM/FM Stereo with Minimum 7" Touchscreen
- Bluetooth Wireless Phone Capability
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Remote Keyless Entry with Four (4) Programmed Remote Transmitters/Keys
- Manufacturer/OEM Integrated Brake Controller
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location

22' ALUMINUM DECK CARRIER:

- 10,000-lb Bed rating
- 230" Subframe length
- 102" width
- Aluminum bi-hollow tube rails
- Bed mounted cab protector

- 8,000-lb Ramsey worm gear hydraulic winch w/50' cable and cable roller guide
- Manual shift free spool
- Right & left chain trays
- Low profile "V" chain
- Four (4) Safety chains (2 front, 2 rear)
- Federal standard #108 lighting including Millenium marker lights
- Full function wheel lift system
- Slide-in L-arms with anti-theft storage
- Pre-wired electrical junction box
- Adjustable rear stabilizer
- Lubrication fittings on all pivot points
- Slide pads
- Roller bed positive lockdown
- Bed anti-tilt lockout
- One extension cylinder
- Two lift cylinders
- Cable tensioner
- Tow light socket
- Mudflaps with anti-sail bracket
- Muncie Hot Shift PTO driven hydraulic pump
- 2 position house lock with indicators
- 14 chain lock package – deck centered
- Two lights on side of the bed
- Two (2) 48" Steel tool box w/Stainless Steel Door (one mounted each side)
- 22 Head white/amber/blue light bar
- Strap tie down system
- Tow lights
- Four (4) LED work lights

Class 6, Type 3, Minimum 25,500-lb GVWR, Regular Cab, Dual Rear Wheel, Diesel Engine,
Four Wheel Drive Chassis-Cab and optional Dump Bodies

MECHANICAL:

- Wheelbase/cab-to-axle measurements necessary to accommodate truck body application
- Minimum inline six (6) cylinder diesel engine
 - Minimum 330hp @ 1,750 rpm
 - Minimum 1,000 lb.-ft @ 1,200 rpm torque
 - Fuel/Water Separator
- Minimum 1,980 combined battery CCA
 - Battery disconnect switch mounted on battery box
 - Remote jump start terminal
 - Aluminum battery box
- Minimum 160 amp alternator
- Engine block heater
- Manual operator diesel emissions regeneration
- Vertical Exhaust
- Minimum 5 gallon DEF tank
- Minimum 50 gallon fuel tank
- Allison 3000 series RDS with PTO
- Axle ratios compatible to achieve application goals
- Heavy duty driveshafts
- Part-time four-wheel drive with 2 speed transfer case
- GVWR not to exceed 26,000-lbs.
- Minimum 10,000-lb Capacity Front Gross Axle Weight Rating (FGAWR)
 - Minimum 10,000-lb capacity front drive axle
 - Minimum 10,000-lb capacity taperleaf front springs with shock absorbers
 - Minimum 13,200-lb capacity single power steering gear
 - Front axle oil seals
- Minimum 16,000-lb Capacity Rear Gross Axle Weight Rating (RGAWR)
 - Minimum 20,000-lb multileaf rear suspension
 - Bolted rear suspension crossmembers
- 4-Wheel Anti-Lock Air Brake System
 - Air compressor minimum 18.7 CFM
 - Front and rear dust shields
 - Heated air dryer
 - Front and rear automatic slack adjusters
 - Medium duty spring brake
- Minimum 120,000 PSI steel frame (min. 14.80 cu in SM, min. 1.7 in-lbs RBM per rail)
- Heavy duty one piece aluminum intermediate crossmember
- Heavy duty rear cab support
- Trailer Tow Package-inc:
 - Glad hands mounted at end of frame
 - Seven-way female receptacle at end of frame
 - Dash mounted trailer air supply valve

- Trailer ABS electric supply through 7-pin connector
- Hoses/fittings for the valves
- Dash mounted parking brake valve
- Trailer protection valve
- Spring brake inversion/relay valves
- Trailer Brake Controller to operate at least (4) electric brakes

EXTERIOR

- Front frame mounted recovery/tow loops/hooks
- Painted steel front bumper
- Headlamps featuring Daytime Running Lamp functionality
- LED clearance lamps
- LED Stop/Tail/Turn
- Motorized, heated outside power adjustable rearview mirror w/convex spotter
- 2-door Day Cab/Regular Cab configuration
- Factory/OEM running boards/side steps
- LH/RH Exterior grab handles mounted for ease of entry/egress
- Six (6) 22.5" x 8.25" Hub-pilot mounted steel wheels powder coat finish
- Two (2) 11R22.5 Front all-position tires
- Four (4) 11R22.5 Rear traction tires
- Air horn
- Back Up Alarm

INTERIOR:

- Rubberized/Vinyl floor covering
- Cab HVAC
- Minimum 5" digital display cluster
- Headliner with Gray Sunvisor
- Cupholders
- Air Ride Cloth Driver Seat with dual armrests
- Cloth passenger seat
- AM/FM Stereo with Bluetooth wireless phone capability
 - Minimum of two (2) speakers
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Minimum 4 keys for truck entry/operation
- Power windows and door locks
- Dash switch for PTO control
- Dual (LH/RH) interior grab handles
- Fire Extinguisher mounted in conspicuous location
- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location
- Back up camera display to provide driver unobstructed view behind vehicle when in reverse operation

OPTIONS:

1. Steel Dump Body:

- High tensile steel crossmember-less design
- 10 inch formed 7 ga long sills, 100% welded with clean-out drain at rear
- Steel track on bottom of long sills with 2.25" rubber insulator full length
- Minimum 10'6" overall length
- Minimum 96" overall width
- Minimum 24" rigid side wall with grip strut down each side
- Minimum 9" wide front post full height (determined by cab dimensions)
- Minimum 8" wide rear post
- Minimum three (3) - 6" wide side posts
- Minimum 10" side board pockets @front, center and rear
- Three panel tailgate constructed of 7 ga sheet with 10 ga post and single center coal chute
 - Tailgate bottom latches to be air operated.
 - Linkage should snap over center point for secure closure.
 - Toggle switch to be dash or tower mounted and have safety cover to prevent accidental operation.
- Full cab shield formed from 10 ga sheet 88" wide x 14" long
- Cab shield depth 5" front tapered to 7" rear
- Two (2) steps inside body left front corner
- One (1) fold down/slide down step on left exterior of body (min 3 steps)
- Back up camera mounted to provide driver unobstructed view behind vehicle when in reverse
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Steel splash shields ahead of rear wheels
- Rear mudflaps with anti-sail device
- Epoxy primer and black urethane top coat
- 24 x 18 x 18 Steel locking underbody toolbox mounted curbside
- Central Hydraulic System-inc:
 - PTO "Hotshift" style driven with pressure sensing pump
 - Six (6) function electric
 - 30-Gallon stainless steel tank
 - To supply flow while driving or stationary
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Hydraulic oil and oil level gauge
 - Body up light in cab
 - Single joystick operation
- Hoist-inc:
 - Class 50 Minimum hoist under body low mount style
 - Double acting (power up and down)
 - Minimum 8" diameter single cylinder
 - OSHA safety props
- Towing Package to include:
 - Minimum 3/4" Tow Plate

- Class V rated 2" Receiver
- (2) 5/8 D-Rings
- Supply both 7-wire commercial and RV style plugs
- OEM Glad hands to be mounted
- Trailer brake controller to operate at least (4) electric brakes
- Amber Warning Light Package to include:
 - Two flashing LED on front grille on separate switch for plowing operation
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - All cab shield light wiring to be in steel tube
- Tarp-inc:
 - 12 Volt power tarp with switch mounted in cab
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Aluminum spring arms (4 spring minimum) side or under body mount
 - 45-degree arm joints
 - All-wiring in steel tube

2. Stainless Steel Dump Body:

- 10 ga 304 stainless steel crossmember-less design
- 10 inch formed 3/16 304 stainless steel long sills, 100% welded with clean-out drain at rear
- Stainless steel track on bottom of long sills with 2.25" rubber insulator full length
- AR-400 3/16 inch floor (underside painted with epoxy primer and urethane topcoat)
- Minimum 10'6" overall length
- Minimum 96" overall width
- Minimum 24" side wall with boxed top rail
- Minimum 9" wide front post full height (determined by cab dimensions)
- Minimum 8" wide rear post
- Minimum three (3) - 6" wide side posts
- Minimum 10" side board pockets @front, center and rear
- Full cab shield formed from 10 ga 3/16 sheet - 88" wide x 14" long
- Cab shield depth 6" at rear boxed for strobe lights and wiring
- Three panel tailgate constructed of 10 ga 3/16 sheet with 10 ga post and single center coal chute
 - Tailgate bottom latches to be air operated.
 - Linkage should snap over center point for secure closure.
 - Toggle switch to be dash or tower mounted and have safety cover to prevent accidental operation.
- Stainless steel grip strut down each side
- Two (2) stainless steel steps inside body left front corner
- One (1) stainless steel fold down/slide down step on left exterior of body (min 3 steps)
- Back up camera mounted to provide driver unobstructed view behind vehicle when in reverse
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Stainless Steel splash shields ahead of rear wheels
- Rear mudflaps with anti-sail device
- 24 x 18 x 18 Aluminum locking underbody toolbox mounted curbside

- Central Hydraulic System-inc:
 - PTO “Hotshift” style driven with pressure sensing pump
 - Six (6) function electric
 - 30-Gallon stainless steel tank
 - To supply flow while driving or stationary
 - 16 Micron in tank filter
 - 1-1/4” Ball valve
 - Hydraulic oil and oil level gauge
 - Body up light in cab
 - Single joystick dump operation
- Hoist-inc:
 - Class 50 Minimum hoist under body low mount style
 - Double acting (power up and down)
 - Minimum 8” diameter single cylinder
- Towing Package to include:
 - Minimum 3/4” pintle plate with combo pintle hook and ball mounted
 - (2) 5/8 D-Rings
 - Supply both 7-wire commercial and RV style plugs
 - OEM Glad hands to be mounted
 - Trailer brake controller to operate at least (4) electric brakes
- Amber Warning Light Package to include:
 - Two flashing LED on front grille on separate switch for plowing operation
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - All cab shield light wiring to be in steel tube
- Tarp-inc:
 - 12 Volt power tarp with switch mounted in cab
 - 7’ x 15’ PVC-coated vinyl mesh tarp
 - Aluminum spring arms (4 spring minimum) side or under body mount
 - 45-degree arm joints
 - All-wiring in steel tube

3. Full-Hydraulic Straight Blade Snowplow:

- ***Chassis dealer to provide necessary features for plow mounting to include but not limited to:***
 - ***Fixed grille***
 - ***Frame extension (if required for plow installation)***
 - ***Manufacturer recommended options***
- Minimum 120” wide steel blade assembly, full trip design
- Minimum 34” high 11 ga carbon steel moldboard
- Minimum 1/2” x 6” high carbon steel cutting edge
- Minimum 1” diameter pivot bolt
- Minimum 3” push frame tubing
- Minimum 2” x 10” angling cylinders
- Minimum 1-3/4” lift cylinder

- Minimum six (6) vertical ribs
- Quick hitch style coupling system
- Power angling
- Plow shoe kit
- Belted rubber OEM plow deflector
- Corner guide markers
- LED plow lights
- Supply and mount controls within easy reach of driver
- All required hoses and quick connect fittings mounted on plate at plow hitch

4. Hydraulic Stainless Steel Under Tailgate Spreader:

- Minimum 96" wide 304 stainless steel hopper with cover
- Minimum 5:1 gearbox drive hydraulic operation
- Minimum 6" auger with 3/8" flighting
- Minimum 18" polyurethane spinner disc
- Supply and mount controller in cab
- Spill plates provided
- Left of center discharge
- All required hoses with quick connect fittings and plate at rear of truck
- LED flood light mounted at rear to illuminate spreader pattern

Class 8, Type 1: Minimum 39,000# GVWR, Regular Cab, Diesel Engine,
Four Wheel Drive Cab and Dump Body

MECHANICAL:

- Wheelbase/cab-to-axle measurements necessary to accommodate truck body application
- Minimum inline six (6) cylinder diesel engine
 - Minimum 330hp @ 1,750 rpm
 - Minimum 1,000 lb.-ft @ 1,200 rpm torque
 - Fuel/Water Separator
 - 1000 sq in cooling module
 - Radiator mounted air-to-oil power steering cooler
- Minimum 2,100 combined battery CCA
 - Battery disconnect switch mounted on battery box
 - Remote jump start terminal
 - Aluminum battery box
- Minimum 160 amp alternator
- Engine block heater
- Manual operator diesel emissions regeneration
- Vertical Exhaust
- Minimum 5 gallon DEF tank
- Minimum 70 gallon fuel tank
- Allison 3000 series RDS with PTO
 - Transmission cooler
- Axle ratios compatible to achieve application goals
- Heavy duty driveshafts
- Part-time four-wheel drive with 2 speed transfer case
- Minimum 16,000-lb Capacity Front Gross Axle Weight Rating (FGAWR)
 - Minimum 16,000-lb capacity front drive axle
 - Minimum 16,000-lb capacity taperleaf front springs with shock absorbers
 - Minimum 16,000-lb capacity single power steering gear
 - Front axle oil seals
- Minimum 23,000-lb Capacity Rear Gross Axle Weight Rating (RGAWR)
 - Minimum 23,000-lb multileaf rear suspension
 - Bolted rear suspension crossmembers
 - Wheel Differential Lock
- 4-Wheel Anti-Lock Air Brake System
 - Air compressor minimum 18.7 CFM
 - Front and rear dust shields
 - Heated air dryer
 - Front and rear automatic slack adjusters
 - Medium duty spring brake
- Frame minimum 21.43 cu in SM (min. 2,572,000 in-lbs per rail RBM)
- Heavy duty one piece aluminum intermediate crossmember
- Heavy duty rear cab support
- Trailer Tow Package-inc:

- Glad hands mounted at end of frame (final mounting by upfitter)
- Seven-way female receptacle at end of frame
- Dash mounted trailer air supply valve
- Trailer ABS electric supply through 7-pin connector
- Hoses/fittings for the valves
- Dash mounted parking brake valve
- Trailer protection valve
- Spring brake inversion/relay valves
 - Trailer Brake Controller to operate at least (4) electric brakes

EXTERIOR

- Front frame mounted recovery/tow loops/hooks
- Painted steel front bumper
- Headlamps featuring Daytime Running Lamp functionality
- LED clearance lamps
- LED Stop/Tail/Turn
- Motorized, heated outside power adjustable rearview mirror w/convex spotter
- 2-door Day Cab/Regular Cab configuration
- Factory/OEM running boards/side steps
- LH/RH Exterior grab handles mounted for ease of entry/egress
- Two (2) 22.5" x 9" Hub-pilot mounted steel wheels powder coat finish
- Four (4) 22.5" x 8.25" Hub-pilot mounted steel wheels powder coat finish
- Two (2) 12R22.5 (20 ply rating) front all-position tires
- Four (4) 12R22.5 (16 ply rating) traction tread rear tires
- Air horn
- Back Up Alarm

INTERIOR:

- Rubberized/Vinyl floor covering
- Cab HVAC
- Minimum 5" digital display cluster
- Headliner with Sunvisor
- Cupholders
- Air Ride Cloth Driver Seat with dual armrests
- Cloth passenger seat
- AM/FM Stereo with Bluetooth wireless phone capability
 - Minimum of two (2) speakers
- Minimum one (1) USB port
- Tilt Steering Column
- Cruise Control
- Minimum 4 keys for truck entry/operation
- Power windows and door locks
- Dash switch for PTO control
- Dual (LH/RH) interior grab handles
- Brake Controller
- Fire Extinguisher mounted in conspicuous location

- OSHA Approved First Aid Kit shipped loose
- Triangle Reflector Kit mounted in conspicuous location
- Back up camera display to provide driver unobstructed view behind vehicle when in reverse operation

OPTIONS:**1. Steel Dump Body:**

- High tensile steel crossmember-less design
- 10 inch formed 7 ga long sills, 100% welded with clean-out drain at rear
- Steel track on bottom of long sills with 2.25" rubber insulator full length
- Minimum 10'6" overall length
- Minimum 96" overall width
- Minimum 24" rigid side wall with grip strut down each side
- Minimum 9" wide front post full height (determined by cab dimensions)
- Minimum 8" wide rear post
- Minimum three (3) - 6" wide side posts
- Minimum 10" side board pockets @front, center and rear
- Three panel tailgate constructed of 7 ga sheet with 10 ga post and single center coal chute
- Full cab shield formed from 10 ga sheet 88" wide x 14" long
- Cab shield depth 5" front tapered to 7" rear
- Two (2) steps inside body left front corner
- One (1) fold down/slide down step on left exterior of body (min 3 steps)
- Back up camera mounted to provide driver unobstructed view behind vehicle when in reverse
- LED clearance and marker lights to meet current FMVSS standards
- LED Stop/Tail/Turn recessed in rear corner posts
- Steel splash shields ahead of rear wheels
- Rear mudflaps with anti-sail device
- Epoxy primer and black urethane top coat
- 24 x 18 x 18 Steel locking underbody toolbox mounted curbside
- Central Hydraulic System-inc:
 - PTO "Hotshift" style driven with pressure sensing pump
 - Six (6) function electric
 - 30-Gallon stainless steel tank
 - To supply flow while driving or stationary
 - 16 Micron in tank filter
 - 1-1/4" Ball valve
 - Hydraulic oil and oil level gauge
 - Body up light in cab
 - Single joystick operation
- Hoist-inc:
 - Class 50 Minimum hoist under body low mount style
 - Double acting (power up and down)
 - Minimum 8" diameter single cylinder
 - OSHA safety props
- Towing Package to include:
 - Minimum 3/4" Tow Plate

- Class V rated 2" Receiver
 - (2) 5/8 D-Rings
 - Supply both 7-wire commercial and RV style plugs
 - OEM Glad hands to be mounted
 - Trailer Brake Controller to operate at least (4) electric brakes
 - Amber Warning Light Package to include:
 - Two flashing LED on front grille on separate switch for plowing operation
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - All cab shield light wiring to be in steel tube
 - Tarp-inc:
 - 12 Volt power tarp with switch mounted in cab
 - 7' x 15' PVC-coated vinyl mesh tarp
 - Aluminum spring arms (4 spring minimum) side or under body mount
 - 45-degree arm joints
 - All-wiring in steel tube
2. Stainless Steel Dump Body:
- 10 ga 304 stainless steel crossmember-less design
 - 10 inch formed 3/16 304 stainless steel long sills, 100% welded with clean-out drain at rear
 - Stainless steel track on bottom of long sills with 2.25" rubber insulator full length
 - AR-400 3/16 inch floor (underside painted with epoxy primer and urethane topcoat)
 - Minimum 10'6" overall length
 - Minimum 96" overall width
 - Minimum 24" side wall with boxed top rail
 - Minimum 9" wide front post full height (determined by cab dimensions)
 - Minimum 8" wide rear post
 - Minimum three (3) - 6" wide side posts
 - Minimum 10" side board pockets @front, center and rear
 - Full cab shield formed from 10 ga 3/16 sheet - 88" wide x 14" long
 - Cab shield depth 6" at rear boxed for strobe lights and wiring
 - Minimum 36" three panel tailgate formed from 3/16 sheet and 10 ga 6" wide post
 - Dogleg hinges pinned and one center coal chute
 - Air operated tailgate release
 - Stainless steel grip strut down each side
 - Two (2) stainless steel steps inside body left front corner
 - One (1) stainless steel fold down/slide down step on left exterior of body (min 3 steps)
 - Back up camera mounted to provide driver unobstructed view behind vehicle when in reverse
 - LED clearance and marker lights to meet current FMVSS standards
 - LED Stop/Tail/Turn recessed in rear corner posts
 - Stainless Steel splash shields ahead of rear wheels
 - Rear mudflaps with anti-sail device
 - 24 x 18 x 18 Aluminum locking underbody toolbox mounted curbside
 - Central Hydraulic System-inc:

- PTO “Hotshift” style driven with pressure sensing pump
 - Six (6) function electric
 - 30-Gallon stainless steel tank
 - To supply flow while driving or stationary
 - 16 Micron in tank filter
 - 1-1/4” Ball valve
 - Hydraulic oil and oil level gauge
 - Body up light in cab
 - Single joystick dump operation
 - Hoist-inc:
 - Class 50 Minimum hoist under body low mount style
 - Double acting (power up and down)
 - Minimum 8” diameter single cylinder
 - Towing Package to include:
 - Minimum 3/4” pintle plate with combo pintle hook and ball mounted
 - (2) 5/8 D-Rings
 - Supply both 7-wire commercial and RV style plugs
 - OEM Glad hands to be mounted
 - Trailer Brake Controller to operate at least (4) electric brakes
 - Amber Warning Light Package to include:
 - Two flashing LED on front grille on separate switch for plowing operation
 - Two flashing LED on rear corner posts (ref: Whelen Vertex, or equal)
 - Two flashing LED on front of cab shield (Ref: Whelen ION-T, or equal)
 - Two flashing LED on side of cab shield (Ref: Whelen ION-T, or equal)
 - All cab shield light wiring to be in steel tube
 - Tarp-inc:
 - 12 Volt power tarp with switch mounted in cab
 - 7’ x 15’ PVC-coated vinyl mesh tarp
 - Aluminum spring arms (4 spring minimum) side or under body mount
 - 45-degree arm joints
 - All-wiring in steel tube
3. Full-Hydraulic Straight Blade Snowplow:
- ***Chassis dealer to provide necessary features for plow mounting to include but not limited to:***
 - ***Fixed grille***
 - ***Frame extension***
 - ***Manufacturer recommended options***
 - Minimum 132” wide steel blade assembly, full trip design
 - Minimum 36” high 10 ga carbon steel moldboard
 - Minimum two (2) adjustable compression-style trip springs
 - Minimum 1-1/2” plated king pin through 2-1/4” x 3/8” DOM tube with integrated grease fitting
 - Minimum four (4) 1-1/4” plated pivot pins
 - Minimum 3” x 10” angling cylinders
 - Minimum 6” x 1/2” 1080 steel cutting edge
 - Minimum six (6) vertical ribs

- Power angling
- Plow shoe kit
- Belted rubber OEM plow deflector
- Corner guide markers
- LED plow lights mounted on hood of truck
- Supply and mount controls within easy reach of driver
- All required hoses and quick connect fittings mounted on plate at plow hitch
- Quick hitch style coupling system
 - Minimum 1-3/4" lift cylinder

4. Hydraulic Stainless Steel Under Tailgate Spreader:

- Vendor/Upfitter to be der
- Minimum 96" wide 304 stainless steel hopper with cover
- Minimum 5:1 gearbox drive hydraulic operation
- Minimum 6" auger with 3/8" flighting
- Minimum 18" polyurethane spinner disc
- Supply and mount controller in cab
- Spill plates provided
- Left of center discharge
- All required hoses with quick connect fittings and plate at rear of truck
- LED flood light mounted at rear to illuminate spreader pattern