

**CITY OF KIRTLAND**

**ORDINANCE NUMBER 23-O-44**

**AN ORDINANCE AUTHORIZING THE DIRECTOR OF PUBLIC SERVICE TO ENTER INTO A CONTRACT TO PURCHASE ONE (1) FREIGHTLINER PLOW TRUCK FROM CONCORD ROAD EQUIPMENT, MFG, AND DECLARING AN EMERGENCY.**

**WHEREAS**, the Director of Public Service has determined that the City needs one new snow plow truck for its Service Department to assist with its daily activities and snow removal activities within the City; and

**WHEREAS**, the Director of Public Service has recommended the purchase of one Freightliner Model M2-106 Class 8 Cab through Concord Road Equipment, MFG, a vendor who participates in the Ohio Department of Transportation's State Term Schedule Contract, a joint purchasing program in accordance with Ohio Revised Code 9.48; and

**WHEREAS**, the Director has recommended the purchase of the vehicle with a base cost of \$244,688.84 with the following specifications as described in Exhibit A and to be equipped with Option 1, a front-mounted power reversible J-series snowplow, for the additional cost of \$14,715.02. The total cost of said truck shall be \$259,403.86.

**NOW, THEREFORE, BE IT ORDAINED** by the Council of the City of Kirtland, County of Lake and State of Ohio, that:

**SECTION 1:** The Mayor and/or the Director of Public Service are hereby authorized and directed to enter into a sales agreement with Concord Road Equipment, MFG for the purchase of one (1) Freightliner Model M2-106 Class 8 Cab in accordance with Quote 76478 issued by Concord Road Equipment, MFG which is attached hereto and incorporated herein as Exhibit A. Said truck shall have the following option: Option 1 – Front-Mounted Power Reversible J-Series Snowplow. The price of said vehicle, with the included Option, is hereby authorized for the purchase price not to exceed \$259,403.86.

**SECTION 3:** The Mayor and Director of Public Service are hereby authorized to sign any documents to complete the purchase as described herein and the Director of Finance is hereby authorized to expend the necessary funds to complete the transaction.

**SECTION 4:** It is found and determined that all formal actions of this Council concerning and relating to the passage of this Ordinance were passed in an open meeting of this Council, and

that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

**SECTION 5:** This Ordinance is hereby declared to be an emergency measure necessary for the preservation of the public peace, safety and welfare of the citizens of the City of Kirtland. The emergency is necessary in order to continue providing necessary services to the residents and continue to provide safe, passable roads within the City. Therefore, this Ordinance shall be in full force and effect immediately upon its passage by the affirmative vote of five (5) members of Council and approval by the Mayor, otherwise this Ordinance shall be in effect from and after its adoption at the earliest period allowed by law.

First Reading: \_\_\_\_\_

Second Reading: \_\_\_\_\_

Third Reading: \_\_\_\_\_

DATE PASSED: \_\_\_\_\_

\_\_\_\_\_  
President of Council

Submitted to the Mayor for his  
Approval on this \_\_\_\_\_ day of  
\_\_\_\_\_, 2023.

ATTEST:

Approved by the Mayor on this \_\_\_\_  
day of \_\_\_\_\_, 2023.

\_\_\_\_\_  
Clerk of Council  
Purchase Freightliner Plow Truck

\_\_\_\_\_  
Mayor Kevin F. Potter



8200 Tyler Blvd. Suite H, Mentor, OH 44060  
**PHONE: (440) 357-5344 FAX: (440) 357-1942**  
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EXHIBIT A  
**Quote 76478**

Quote Valid for 120 Days

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<b>Submitted To:</b> KIRTLAND, CITY OF STREET DEPARTMENT 10282 CHILLICOTHE RD KIRTLAND, OH 44094	<b>Date:</b> 3/11/2023
<b>Phone:</b> (440) 256-3332	<b>End User:</b> SERVICE DEPARTMENT
<b>Fax:</b> (440) 256-4709	<b>Attention:</b> JOE FORNARO
	<b>Delivery:</b> IN STOCK UNTIL SOLD
	<b>County:</b> LAKE
	<b>Acct Mgr:</b> JEFFERY S. WARFIELD

**ONE (1) CONCORD MINUTEMAN SNOW AND ICE CONTROL EQUIPMENT PACKAGE INSTALLED ON NEW SINGLE AXLE 2023 FREIGHTLINER MODEL M2-106 CLASS 8 CAB AND CHASSIS TO INCLUDE THE FOLLOWING.**

**1- 2023 FREIGHTLINER M2-106 CAB AND CHASSIS AS FOLLOWS.**

**Per ODOT Contract 118-23; Valley Freightliner-Cleveland**

- VIN:3ALACYFE3PDUL9843
- Front axle load rating: 18,000 lbs.
- Rear axle load rating: 26,000 lbs.
- Gross vehicle weight rating; 44,000 lbs.
- Engine: Cummins L9 350 HP @ 2,200 rpm; 2,200 gov. rpm
- Engine: 1,050 lb.-ft @1,200 rpm
- SEE ATTACHED DETAILED CHASSIS SPECS FOR ADDITIONAL INFORMATION

**1- CONCORD 2023 COMBINATION DUMP BODY/SPREADER SNOW AND ICE CONTROL EQUIPMENT PACKAGE AS FOLLOWS.**

**PER STATE OF OHIO STATE TERM SCHEDULE CONTRACT  
 SCHEDULE NUMBER 800925  
 INDEX NUMBER: STS515**

**CONCORD PATRIOT SDS "NOR-EASTER" SERIES COMBINATION DUMP BODY SPREADER**

- Combination Dump Body- General
  - All 304-2B stainless steel construction- body sides, front bulkhead and rear tailgate
  - 10-foot-long inside floor length
  - 41.00 inches inside bottom flat floor width
  - 76.00 inches inside top width at boxed top rails
  - 96.00 inches outside top width at front and rear corner pillars
  - Integral twin auger REAR delivery system
- Combination Dump Body Sides
  - 42-inch-tall 7 gauge 304-2B stainless steel "Press Brake Formed Elliptical" sides that slopes toward center
  - 7 gauge 304-2B stainless steel dirt shedding sloped boxed top rails
  - 7 gauge 304-2B stainless steel full depth front corner pillars
  - 7 gauge 304-2B stainless steel full depth rear corner pillars with integral egress steps
  - Provisions for oblong rearward facing rubber grommeted warning lamps in each pillar
- Combination Dump Body Bulkhead
  - 7 gauge 54-inch-tall front 304-2B stainless steel body head sheet
  - Integral "Space Saver" telescopic hoist doghouse
  - Full width horizontal intermediate bracing
- Combination Dump Body Tailgate

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- 54-inch-tall 7 gauge 304-2B stainless steel tailgate
- Nine (9) panel design
- Full perimeter box bracing
- Two (2) intermediate "dirt shedding" horizontal braces
- Two (2) intermediate vertical braces
- Inline center sliding patchgate
- 1-inch-thick x 6 inch off set stainless steel upper tailgate hinge ears
- ½ inch thick stainless-steel upper corner post tailgate self-aligning "guide" plates
- ½ inch thick lower stainless-steel latch sockets
- 1-1/4-inch diameter stainless steel upper and lower tailgate hinge and latching pins
- Upper removable hinge pins fitted with grease zerks to allow periodic maintenance
- 1-inch-thick stainless-steel lower tailgate latching fingers with greaseable pivot points
- Lower latching fingers are independently adjustable from side to side
- Air tailgate latching mechanism with air cylinder(s) located vertically inside of rear corner post for additional protection from corrosive materials
- Combination Dump Body Floor and Auger Trough
  - Body flat floor constructed of one (1) un-spliced full length and full width 1/4-inch-thick AR400 180kpsi abrasion & impact resistant steel
  - Body integral auger trough constructed of 1/4-inch-thick AR400 180kpsi abrasion and impact resistant steel
  - Auger trough removable conveyor cover constructed of 1/4-inch-thick AR400 180kpsi abrasion and impact resistant steel, includes lifting rings for ease of removing/installing
  - 23.25 inches integral auger trough width at top of body flat floor
  - 10.75 inches integral auger trough floor width at bottom
  - 8.50 inches auger trough depth from trough floor to body floor
- Combination Dump Body Rear Lower Apron/Bolster Plate
  - Constructed of 7-gauge 304-2B stainless steel
  - Includes provisions for rubber grommeted stop/tail/turn and backup lights
  - Apron/bolster does not extend past body floor/tailgate
- Combination Dump Body Integral Auger Delivery System
  - Twin auger rear delivery conveyor system
  - Heavy wall DOM tube steel auger shafts
  - 7-inch steel "Hard-Faced" progressive pitched auger flighting for even unloading
  - Twin augers driven via two (2) direct coupled 32.7 cubic inch displacement high torque low speed hydraulic motors, one (1) with speed sensor and one (1) without speed sensor
  - To prevent excessive rear body overhang beyond the body tailgate, hydraulic motors located at front underside of dump body
  - To absorb torsional movement, auger motors mounted and supported by multi-part rubber "Flex-Mount" system
  - Rear of augers supported by heavy duty 2 inch bore four (4) bolt greaseable flange bearings with "eccentric locking collars" that locks inner bearing races to auger idler shafts
  - Flange bearings protected by removable bolt on stainless-steel protective access cover
- Combination Dump Body Longitudinals

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- Formed and fully boxed tubular longitudinals
- Constructed of 1/4-inch-thick 304-2B stainless steel
- For superior strength and cross-sectional support, each longitudinal includes internal stainless steel x-bracing reinforcements
- To provide access for hydraulic hose(s), liquid systems plumbing, and electrical wiring harness(s) the street and curbside tubular longitudinals have two (2) each stainless steel "fully walled" pass throughs at both the front and rear of the longitudinals
- Combination Dump Body Rear Spinner Assembly
  - Stow-away rear spinner assembly that pivots and locks in place under the body/chassis when not in use
  - Three (3) adjustable deflectors and one (1) fixed
  - 20-inch poly spinner disk
  - Four (4) position adjustable materials "chute" to direct granular materials to desired spinner disk location as they exit rear auger trough discharge
- Combination Dump Body Telescopic Hoist
  - Trunnion mounted front telescopic hoist
  - Total of three (3) active stages
  - All stages double acting power up/ power down
  - Rated at 29.8 ton dumping capacity
  - 52-degree dump angle in this configuration
  - Heavy duty greaseable rear hinge assembly
- Combination Dump Body Cabshield
  - 24-inch ½ size
  - All 7-gauge 304-2B stainless steel construction
  - Provisions for three (3) streetside forward facing recessed rubber grommeted warning lights
  - Provisions for three (3) curbside forward facing recessed rubber grommeted warning lights
  - Provisions for street and curbside marker lights
  - Cabshield continuously welded to body front bulkhead
- Combination Dump Body Finish
  - Body stainless steel left in natural 304-2B satin finish
  - All dump body stainless steel welds to receive "chemical passivation" to remove free iron surface contamination and to promote the formation of chromium-nickel oxide protective barrier
  - Dump floor, trough, conveyor cover, hoist and hoist mounting, rear hinge assembly, hydraulic motors, etc., primed and painted gloss black.

#### DUMP BODY AND CHASSIS RELATED ACCESSORIES

##### Top Screens

- Six (6) section heavy duty steel hinged top screens
- Structural steel angle screen frames with ¼" diameter bar grating
- 3-inch x 3-inch bar grating opening
- Structural steel I-beam center support

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- Structural Steel I-beam cross supports
- Screens sloped from center out
- Powder coat painted gloss black for durability
- Wood Side Boards
  - Hardwood lumber
  - Painted black
- Pintle Tow Plate
  - Rear chassis mounted 3/4-inch-thick steel pintle plate
  - Pintle hook plate installed as to not interfere with stow away spinner assembly
  - Offset 55-degree offset D-rings, one (1) each street/curb sides of pintle hook
  - PH20 20-ton towing x 8,000 lb max vertical load
- Egress Inspection Steps and Grab Handles
  - All stainless-steel construction
  - One (1) body side mounted three (3) rung folding load inspection ladder
  - Inspection ladder located on rear body corner pillar
  - Three (3) additional "Integral Recessed" dump body corner pillar steps
  - Inspection ladder grab handles
  - Manually operated high pressure ball valve to interrupt hydraulic flow to auger drive motors when inspection ladder is folded down
- Conspicuity Tape Systems
  - DOT alternating red and white reflective
  - Installed upper body boxed top rails and lower sloping rub rails
  - Installed upper /lower horizontal tailgate bracing
  - Installed rear of wing plow moldboard
- Poly Fenders
  - Installed over rear chassis duals
  - Heavy duty stainless steel off-set mounting brackets
  - Rubber mud flaps installed behind rear dual wheels
- Dump Body Vibrator
  - 12-volt dc
  - Mounted underside of dump body
  - Includes safety break-away chain
  - Includes hi-amp circuit breaker
  - In chassis cab momentary on/off push button activation switch
  - Switch located on armrest control console
- Auto Lubrication System
  - None Requested/Included
- Tarping System
  - None Requested/Included
- Corrosion Protection-OEM Chassis Cab Floor
  - None Requested/Included

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### SIX (6) CIRCUIT LOAD SENSING PRESSURE COMPENSATED CENTRAL HYDRALIC SYSTEM

#### • System General Operational and Component Description

- System configured to efficiently operate dump body hoist, front snowplow, granular materials spreader, liquid materials prewetting, and liquid materials anti-icing
- To ensure system compatibility, all included hydraulic major system components i.e. hydraulic pump, hydraulic directional control valving, in chassis cab operator controls, granular materials spreader and liquid prewet electronic controls are manufactured by Bosch Rexroth/Compu spread

#### • Hydraulic Pump

- Bosch Rexroth transmission hot shift PTO driven load sensing axial piston pump
- A18V080 series
- 4.88 cubic inch displacement
- Rated at 38.00 gpm @ 1,800 rpm/25.35 GPM @ 1,200 rpm
- Pump driven via transmission mounted hotshift pto with extended drive housing that places the pump to rear of transmission for ease of maintenance
- For ease of maintenance, pump input shaft connection made with companion flange type coupling

#### • Hydraulic Directional Control Valve

- Bosch Rexroth M4-12 six (6) section load sensing pressure compensating control valve
- One (1) electric proportional operated double acting dump body hoist circuit
- One (1) electric proportional operated double acting plow lift cylinder circuit
- One (1) electric proportional operated double acting plow power angle circuit
- One (1) electric proportional single acting spreader conveyor/auger circuit
- One (1) electric proportional single acting spreader spinner circuit
- One (1) electric proportional double acting spreader liquid prewet/anti-ice circuit
- Entire valve assembly mounted in combination hydraulic oil reservoir/hydraulic valve enclosure located on outboard chassis frame rail
- Hydraulic system pressure and temperature transducer to provide digital readouts to in chassis cab CS-660 spreader control monitor
- Additional analog hydraulic pressure gauge installed in enclosure

#### • Combination Hydraulic Oil Reservoir/ Valve Enclosure

- Cylindrical thirty-five (35) gallon capacity
- All 304-2B stainless-steel construction
- Reservoir mounted to heavy-duty brackets bolted to OEM outboard chassis frame rail behind the chassis cab
- Reservoir also serves as an integral hydraulic directional control valve enclosure
- Hydraulic directional control valve accessed via hinged and removable reservoir cylindrical access cover

#### • Combination Hydraulic Oil Reservoir/Valve Enclosure-Related Accessories

- 8-inch diameter stainless steel removable access/cleanout cover
- Analog sight level/temperature gauge
- Magnetic drain plug

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- Low hydraulic oil float/magnetic proximity switch
- 100-micron suction port strainer
- Suction port system service on/off ball valve
- Stainless steel reservoir mounting brackets
- Spin on oil filter with condition indicator
- Stainless steel single point return line manifold assembly
- In Chassis Cab Operators Controls Console
  - Bosch Rexroth CS-106XL armrest control console
  - Two (2) dual axis electric proportional joystick controllers
  - Joystick #1 (nearest operator) to control snowplow raise, lower, and angling functions
  - Joystick #2 to control dump body raise and lower functions
  - Each controller includes "dead-man switch" features to prevent accidental mode operations
  - Armrest console includes lighted switches for various lighting and electrical operations
- Bosch Rexroth CS-660 Electronic Spreader Controller
  - Full color monitor screen
  - Multi-mode/multi materials functionality
  - Ground speed proportional operation
  - Data logging capabilities
  - Capable of manual, ground speed triggered, open loop ground speed, or closed loop ground speed orientation of granular, liquid prewet individually or simultaneously
  - Four (4) individual detent' d knobs for operator control of auger/conveyor output (speed), spinner speed, and liquid prewet and anti-ice
  - Tracks all materials usage, and systems event data
  - Includes available ports for "Live or Passive AVL"
  - Monitor reads and displays system "pressure" and system "temperature"
  - Controller mounted to armrest console forward of system joystick controllers on a fully adjustable "Ram" triple socket ball mount
- Automatic Low Hydraulic Warning/Shutdown
  - System engineered to interrupts hot shift PTO operation in the case of low hydraulic oil event
  - Hydraulic reservoir mounted oil level sensor
  - In-cab indicator lamp and warning buzzer
  - Momentary system operators override switch to allow emergency stowing of deployed equipment
- Front Snowplow Power Float System
  - Bosch Rexroth Adjustable Hydraulic Plow Power Float/Balance Manifold Valve
  - Valve designed to control the amount of static load on the snowplow cutting edge
  - Valve mounted in above chassis frame-mounted combination reservoir valve enclosure
  - Fully adjustable for desired cutting edge static load
- Hydraulic Plumbing
  - Stainless steel intermediate rigid high pressure hydraulic tubing for all connections to rear of chassis
  - Stainless steel intermediate rigid high pressure hydraulic tubing for all connections to front of chassis for snowplow, main pressure from hydraulic pump, load sensing circuit from hydraulic pump, and case drain circuit from hydraulic pump

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- Case drain circuit from hydraulic pump plumbed directly to hydraulic reservoir
- For ease of maintenance, all hydraulic circuits that incorporate intermediate high pressure rigid tube assemblies include short whip hoses entering from hydraulic valve work port and exiting to hydraulic cylinder/motor ports
- All hydraulic hose and tubes assemblies clamped and or tie wrapped no more than every 24 inches
- All hydraulic hose and tube assemblies are properly guarded and/or shielded at any point where contact can be made against sharp edges, heat, or abrasive areas
- All additional required hydraulic hoses, fittings, stainless steel quick couplers, filters, oil, etc., to make a complete, fully tested, calibrated, and operational load sensing central hydraulic system.

#### LIQUID PREWET & SLURRY SYSTEM

- Poly Pre-Wet Storage Tanks- Body Mounted
  - Six (6) total 50-gallon poly saddle tanks for a total capacity of 300 gallons
  - Three (3) each street and three (3) each curb sides of dump body radius
  - To permit total usage of tank liquid capacity, each tank is interconnected in series from bulkhead suction ports located in the bottom of each individual tank
  - All six (6) tanks capable of being "bottom filled" simultaneously via one (1) single camlock coupler connection, with one camlock coupler located and easily accessible on both sides of combo body
  - Camlock couplers to be 2- inch coupler size and include ball valve to prevent liquid spillage when making tank filling connection- one (1) each connection at both street and curb side of body
- Poly Pre-Wet Storage Tank Mounting
  - All stainless-steel tank mounting hardware
  - Lower full length tank mounting platform
  - Full length one piece horizontal intermediate three tank clamping bar
  - Full length threaded through tank clamping bar retainers, one (1) per tank
  - Four (4) vertical intermediate platform adjustable retaining straps, one between each tank ends
- Pre-Wet System Power Unit
  - Bosch Rexroth hydraulic driven liquid prewet pumping system
  - System controlled and operated from Bosch Rexroth CS-660 electronic granular and liquids spreader controller and separate main hydraulic directional control valve assembly prewet valve section
  - Entire prewet power unit pumping system located in stainless steel enclosure that's mounted to chassis frame rail
  - Enclosure includes hydraulic motor driven bronze liquid product pump, closed loop inline output flow meter, and bulkhead mounted hydraulic pressure and return circuit connections
  - To ensure positive liquids flow, prewet power unit "inlet" to be lower than the suction ports of the poly saddle tanks
  - Inlet of liquid product pump to include strainer and fresh water flushing kit for periodic system maintenance
  - Output of liquid product pump to include a manual 3-way ball valve and camlock coupler to allow precise system calibration and testing of liquid flow
- Spray Nozzle (pre-wetting at spinner assembly)
  - One (1) Spraytronics variable orifice with deflected stream pattern to pre-wet granular materials as they exit to the rear spinner assembly
- Liquid Slurry Nozzles (pre-mixing in body auger trough)

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- Three (3) auger trough mounted "Slurry" mixing nozzles
- Nozzles located center of auger trough floor between dual augers
- All "slurry" nozzles and nozzle plumbing accessible externally for periodic nozzle maintenance
- Electric operated ball valve to allow switching from rear spinner "Prewet Nozzle" to auger trough mounted "Slurry Nozzle(s)" system from in chassis cab operator's console

**BASE ELECTRICAL SYSTEM**

• In Cab Power Distribution

- All components mounted to aluminum distribution panel
- As required, power distribution panel to include all necessary relays, circuit breakers, terminal strips, etc.
- Power distribution panel includes a clear poly cover and color-coded circuit diagram affixed for quick referencing of all body related electrical circuitry

• Dump Body Lighting

- All FMVSS108 required lighting, all LED type
- Two (2) rubber grommets and recessed Red LED stop, tail and turn lamps in rear body corner post
- Two (2) rubber grommets and recessed Clear LED reverse lamps in rear dump body corner post
- Two (2) rubber grommets and recessed Red LED marker lamps in lower rear apron/bolster
- Two (2) rubber grommets and recessed Red LED marker lamps side facing in lower rear corner post
- Two (2) rubber grommets and recessed Red LED clearance lamps rear facing in upper rear corner post
- Three (3) rubber grommets and recessed Red LED center identification lamps center rear of dump body
- Two (2) rubber grommets and recessed Amber clearance LED forward facing cabshield assembly
- Rear license plate light

• Snowplow Lamps

- "Heated" LED high intensity snowplow lights
- Die cast aluminum housing with tempered glass lens
- Hi beam/Low Beam
- Integral marker and turn signals
- Chassis hood mounted
- Mounted on stainless steel light brackets
- Deutsch style connections

• Work Lamps- Two (2)

- "Heated" LED type
- 4500 total lumens
- Rated IP67 for dust and water resistance
- 4-inch square with
- One (1) streetside rear facing
- One (1) curbside rear facing
- In cab on/off switch

• Rear Vision Camera System

- *Non Requested/Included*

• Air and Pavement Temperature Sensor

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<b>Fax:</b> (440) 256-4709	<b>Attention:</b> JOE FORNARO
	<b>Delivery:</b> IN STOCK UNTIL SOLD
	<b>County:</b> LAKE
	<b>Acct Mgr:</b> JEFFERY S. WARFIELD

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- *Non Requested/Included*
- Trailer Brake Controller
  - Tekonsha 80500 POD series
  - 2-4 axle capacity
  - Solid state electronic timed controller type
  - One and two axle trailers
- Proximity Switches
  - One (1) proximity switch to trigger dump body up in chassis cab warning light/alarm
- Heated Wiper Blades
  - *Non Requested/Included*
- Base Electrical Components and General Installation Guidelines
  - All required FMVSS108 lighting/reflectors
  - All required wiring/wiring harnesses covered in abrasive resistant split loom
  - All wiring harnesses to be properly secured and shielded from sharp edges and heat
  - All required electrical hardware, switches, and sealed connectors
  - System fully tested, and operational

### MULTI-COLOR HIGH INTENSITY WARNING LAMP SYSTEM

#### Rear Facing Dump Body Corner Post Mounted

- Four (4) total recessed and rubber grommet warning lamp heads
- Two (2) AMBER LED warning lamps-one (1) each installed street and curbsides
- Two (2) GREEN LED warnings-one (1) each installed street and curbsides
- Flash pattern- Each corner post AMBER lamp head to flash alternately with opposite corner post GREEN lamp head

#### Side Facing Dump Body Corner Post Mounted

- Two (2) total AMBER, SIDE-FACING
- One (1) each curbside rear corner post of dump body
- One (1) each streetside rear corner post of dump body
- Rubber grommeted recessed type

#### Rear Facing Dump Body Cab Shield Mounted

- Two (2) total SPLIT AMBER/GREEN LED, REARWARD FACING
- One (1) each curb side corner of cabshield assembly
- One (1) each streetside side corner of cabshield assembly
- Rubber grommeted recessed type

#### Forward Facing Dump Body Cab Shield Mounted

- Two (2) total SPLIT AMBER/GREEN LED, FORWARD FACING
- One (1) each curb corner of dump body cabshield assembly
- One (1) each streetside corner of dump body cab shield assembly
- Rubber grommeted recessed type

#### Side Facing Dump Body Cab Shield Mounted

- Two (2) total SPLIT AMBER/GREEN LED, FORWARD FACING

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- One (1) each curb corner of dump body cabshield assembly
- One (1) each streetside corner of dump body cab shield assembly
- Rubber grommets recessed type
- Miscellaneous Base Electrical and Lighting
  - All Required Wiring, Harnesses, Connectors, etc., to provide a complete fully functional base electrical and lighting system
  - All required guards, shields, brackets
  - All harness(s) in heavy duty split wire loom
  - All exterior connections terminating with sealed weatherproof style connections i.e. Deutsch or Weatherpack type

**CHASSIS MOUNTED SNOWPLOW HITCH**

Concord Manufactured Titan Series TTN-400CL

- Heavy duty low profile
- Center lift cap/ lift cylinder configuration
- Telescopic adjustable lift arm that folds down for storage
- Lift Ram
  - 4 x 6-inch double acting lift ram
  - Nitrated cylinder rod for corrosion protection
- H-Frame Mounting
  - Chassis specific mounting hitch mounting group
  - 5/8-inch-thick steel reinforced side push plates
  - All grade 8 fasteners with "Stover" type locking nuts
- Quick Connect/Disconnect Coupler
  - QAC drop pin style quick attach/detach coupler
  - Welded to hitch assembly H-frame
- Bumper
  - Heavy duty formed channel plow hitch mounted bumper
  - Two-piece design
  - Constructed of ¼ inch steel plate
- Paint
  - Entire hitch assembly powder coated gloss black

**FRONT MOUNTED POWER ANGLING SNOWPLOW**

- None Included- see options No.1, No. 2, and No.3

**MISCELLANEOUS**

- Body Passivation
  - All dump body stainless steel welds to receive "chemical passivation" to remove free iron surface contamination and to promote the formation of chromium-nickel oxide protective barrier
  - Dump body exterior left in natural 2B stain stainless steel finish
- Prep and Painting

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- Dump body understructure, front and rear chassis mounted hitches, and miscellaneous non-stainless steel powdered coated when applicable or painted with two-part epoxy primer and painted with gloss black paint
- Protective Coating
  - Rhomar Armour-Seal applied to chassis frame, under dump body, front plow hitch, and pintle plate

**YOUR TOTAL NET PRICE FOR ABOVE \$244,688.84**

**OPTION NO. 1- FRONT MOUNTED POWER REVERSABLE J-SERIES SNOWPLOW**

- Buyers Super J 42120-PMTE heavy duty snowplow, #1662530701
  - 10-foot-long x 42-inch-tall orange UHMW poly (ultra-high molecule weight) moldboard
  - Torsion spring safety trip edge
  - Full moldboard width structural tubing push frame
  - Three position adjustable moldboard pitch/attach angle
  - Hydraulic ram reversing short A-frame
  - 4-inch nitrated steel reversing hydraulic rams
  - Two chain lift system
  - Drop pin style loop coupler on oscillating drive bar
  - Storage parking stand
  - Hydraulic hoses with stainless steel quick couplers
  - Rubber snow foil/deflector
  - Plow end markers
  - Hydraulic hook up hoses with stainless steel quick couplers

**YOUR TOTAL NET PRICE FOR ABOVE \$14,715.02**

**OPTION NO. 2- FRONT MOUNTED POWER REVERSABLE J-SERIES SNOWPLOW**

- Buyers Super J 42132-PMTE heavy duty snowplow, #1663530701
  - 11-foot-long x 42-inch-tall orange UHMW poly (ultra-high molecule weight) moldboard
  - Torsion spring safety trip edge
  - Full moldboard width structural tubing push frame
  - Three position adjustable moldboard pitch/attach angle
  - Hydraulic ram reversing short A-frame
  - 4-inch nitrated steel reversing hydraulic rams
  - Two chain lift system
  - Drop pin style loop coupler on oscillating drive bar
  - Storage parking stand
  - Hydraulic hoses with stainless steel quick couplers
  - Rubber snow foil/deflector
  - Plow end markers
  - Hydraulic hook up hoses with stainless steel quick couplers

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**YOUR TOTAL NET PRICE FOR ABOVE \$14,978.14**

**OPTION NO.3- FRONT MOUNTED MULTI-CAST CONFIGURABLE POWER ANGLING SNOWPLOW**

- Buyers Super-Flex 11-3351 Multi-Cast Snowplow
  - Eleven (11) foot long at cutting edge
  - Moldboard height hydraulically adjustable from end to end from 31 inches to 51 inches
  - Independent hydraulic control of the snowplow moldboard contour
  - Torsion spring safety trip edge
  - Orange poly moldboard
  - Hydraulic ram reversing table
  - Nitrated hydraulic cylinder rams
  - QAC-DROP PIN quick attach /detach coupler
  - Two (2) chain style lift arraignment
  - Stucchi multi single point quick connect/disconnect coupler with parking station
  - Moldboard end markers
  - Three (3) piece rubber snow foil/deflector
  - Paint-All carbon steel powder coated gloss black
- Front Snowplow Hydraulic Connections
  - Front snowplow connections made via one (1) single over center push button locking six (6) port Stucchi coupler assembly
  - Stucchi coupler assembly constructed of stainless steel
  - All couplers are flat face zero-leaking type
  - Coupler assembly body includes lock on port cover when not in use

**YOUR TOTAL NET PRICE FOR ABOVE \$20,001.20**

**PAYMENT DISCOUNTS**

Per our Ohio Department of Administrative Services Contract Schedule #800925, Index #STS515, an additional 0.5% (one-half of one percent) discount is available for payment(s) of invoice(s) within twenty (20) days of receipt. A payment discount will be noted on the invoice(s).

**WARRANTY INFORMATION**

Concord Road Equipment Mfg., LLC. Truck equipment packages include parts and labor warranty for a total period of FIVE (5) YEARS; first thirty-six (36) months at 100% parts and labor on all workmanship, second twenty-four (24) months at 50% labor only. Other suppliers/component warranties that exceed Concord Road Equipment Mfg., LLC base warranty will remain in effect. All warranty periods begin after completion/delivery of equipment, components, and accessories. When applicable, Concord "Titan" series snowplow hitches carry 100% parts and labor warranty structural components for five (5) years. When applicable, TBEI series dump body hoists have manufacturer warranty coverage - first 36 months at 100% parts and labor. Warranties do not include typically considered wear and maintenance items (such as plow blades, augers, conveyor chains, hydraulic couplers, filters, spinner drive hydraulic motors, spinner disks, chains, sprockets, bearings, etc.); Routine adjustments and calibrations; Abuse, neglect, misuse, and improper operation; Lack of maintenance (including component corrosion); Inspections, and training; Any consequential damages

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Authorized by [Signature]
JEFFERY S. WARFIELD

I/We hereby accept the above quotation including all terms and conditions, and place an order for the proposed item(s) on \_\_\_/\_\_\_/\_\_\_
(today's date) for a total amount of \$\_\_\_\_\_ (please include selected options, if applicable).

Accepted By \_\_\_\_\_

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from the above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner is to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation. A 3% surcharge will be added to above total when paying by credit card.