

# CITY OF ROCK ISLAND

## SPECIFICATIONS

September 21, 2022

It is the intent of the City of Rock Island to receive Proposals on the outfitting of two (2) 58,000 GVW Tandem Axle Truck Chassis's with 14 foot dump bodies, and front mount hydraulic pumps. The truck chassis are being bid separately.

The proposed equipment shall be the manufacturer's latest production model, manufactured by American based companies which meet or exceeds the minimum specifications contained herein. The attached specification comparison sheet must be completed and returned with the proposal. Bidders who do not comply will be subject to disqualification. Bidders must enclose literature on all models of equipment being bid (For Comparison Purposes). The proposed specifications were written using BEAU-ROC Dump Body.

Proposals submitted shall be marked (**Wednesday October 19, 2022, Truck Chassis Outfitting Proposals**).

Proposals shall include all labor and materials necessary to complete the work specified and the delivery of fully functional units F.O.B. City of Rock Island, Public Works Facility, Fleet Services Division, 1309 Mill Street, Rock Island, Illinois. Payment will be made within thirty (30) days of formal acceptance of the equipment by the Fleet Services Manager. Award of the purchase contract will be based upon price, quality of product, and the delivery time. The delivery time shall be based on current industry conditions.

The successful bidder shall be responsible for picking up the truck chassis from the City of Rock Island, Public Works Facility, 1309 Mill Street, Rock Island, Illinois and delivering them to the body company.

Bidders shall provide at the time the bid proposal is submitted a copy of the manufacturer's standard warranty covering each component of the unit being bid.

Award of the purchase contract will be based upon price, quality of product, and the delivery time. The delivery time shall be based on current industry conditions.

The successful bidder shall furnish current service media, covering shop mechanical repairs, parts, wiring diagrams and component location for the equipment being proposed upon delivery.

The successful bidder shall warrant and guarantee that the proposed price will be the firm price and there will be no escalation of cost or price at time of delivery.

City of Rock Island  
Specifications  
Page 2

The City of Rock Island, reserves the right to accept or reject any or all proposals, decide what products meet, exceeds, or equal too, and waive any technicalities.

Any questions regarding the specifications or bidding procedures should be directed to Alan L. Vanderheyden, Fleet Services Manager at (309) 732-2252.

The City of Rock Island  
Tandem Axle Snow Equipment  
Minimum Specifications

**BEAU-ROC Model SSM1 – Dump Body Specifications**

**General:**

Each bidder must indicate on the following items whether their bid is in compliance or not with the stated specifications. Exceptions to the bid must be detailed. Bidder must supply literature of the model being bid. Successful bidder must consult with the supervisor on specifications before fabricating the body(ies).

**Make and Model:**

BEAU-ROC SSM1 (Clean side single panel, no posts, stainless steel)

**Dump Body Dimensions:**

Length: 14 Feet

Floor Width: 86" at the front of the body and 88" at the rear of the body.  
The body must be tapered to assist in load breakaway.

Side Height: 42"

Tailgate Height: 48"

Cab shield: 24"

**Dump Body Materials:**

Floor: ¼" Hardox 450 (180,000 psi yield strength and 215,000 psi tensile strength.)

Front: Minimum 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Sides: Minimum 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Tailgate: Minimum 7 gauge SS201 2B finish stainless steel (45,000 psi Yield strength and 95,000 psi tensile strength).

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**Body Understructure Design:**

Body shall be cross-memberless. Cross-member understructure not acceptable, no exceptions.

Longitudinals shall be I-Beam.

All seams shall be 100% fully welded.

Longitudinal Height: 8"

Body/Safety Prop: A single body prop that meets the OSHA requirement shall be provided with the body.

Floor Design: Shall be one-piece (no exceptions - multi-piece floors not acceptable). Floor sheet shall be formed such that the floor bends up at 57 degrees to join the side sheet forming a knee brace. The floor shall have a minimum flat width of 75" at front of the body and 77" at rear of the body. All seams shall be 100% fully welded.

Front Design: Front Bulkhead shall be constructed of 2 overlapping pieces. It shall have a formed recess, 12" deep by 17 1/4" wide, to house the trunnion mount hoist. The formed recess shall have chamfered 45deg corners on the two front edges and the two rear edges to reduce stress points.

Front Bulkhead shall be designed with 7.5" s x 7.5" 45 degree front corners for reduced wind resistance and to aid in avoiding exhaust interference issues.

**Cabshield Design:**

Minimum 10 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength). Cabshield must be 100% fully welded (stitch welding not acceptable).

**Sides Design:**

Fully formed, single piece side with one pressed-in horizontal side brace to increase rigidity.

Lower rub rail shall be formed and integral to the side sheet (weld-on rub rails Are not acceptable), dirt shedding and joined to the floor. It shall have an angle of 40 degrees and shall have a 90 degree end face of 2 5/8" high (rub rails that finish in a point or rounded edge are not acceptable).

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4" x 3" top rail is formed and integral to the side sheet.

**Notes:**

***Weld-on horizontal bracing is not acceptable due to inferior design, more weight, and decreased flexibility of the side.***

***Flat sided designs are not acceptable due to inferior rigidity and stability of the side plate.***

Each side shall consist of one front post, minimum 10 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength) and one rear post of one-piece construction and fabricated out of a minimum 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Board pockets shall be 2.75" wide and fabricated with 7 gauge SS201 2B finish stainless steel.

**Tailgate Design:**

Tailgate wear surface shall be a single piece, fully formed, with one pressed-in horizontal brace to increase rigidity.

Tailgate outer frame shall consist of single, dirt shedding, formed 3/16" thick upper and lower brace. Outer side bracing shall be 3" x 4" x 3/16" structural tubing.

**Note:**

***Weld-on intermediate horizontal and/or vertical braces are not acceptable due to the decrease in tailgate plate's resistance to deformation.***

Top hardware will be top mount style with a minimum 3/4" thick hinge plate and 1.25" diameter x 3 3/4" length, stainless steel pin. The hinge shall have a stainless steel bushing for contacting the pin.

Top mount hinge shall have a 9" offset.

Bottom tailgate pins shall be a minimum of 1.25" in diameter and a minimum of 3" long.

Tailgate shall be double-acting.

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Sufficient length of 3/8" stainless steel Grade 70 chains for the full function of the tailgate.

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All tailgate hinge linkage must have grease zerks at all pivot points. The grease zerks must be recessed for protection.

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All body seams must be 100% fully welded.

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**Tailgate Locking Mechanism and Rear Bumper Design:**

Tailgate shall be manually operated.

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Tailgate control shall be designed to operate from the left front corner of the dump body. A minimum 1" round cross rod shall be used for the lever action at the front of the body. The cross rod shall be connected to the rear latches with a 3/4" connecting link fastened with pipe supports under the dump body floor and must not protrude below the rear body corners. All bearing blocks shall be constructed with enough clearance to eliminate the necessity for grease. The handle must have a molded hand grip and the handle must be operational from outside of the body (underneath not acceptable).

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Tailgate latching mechanism shall be of over-center design.

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Locking mechanism shall be zinc chromated (no exceptions to protect Against corrosion) and individually adjustable.

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Cross shaft shall be a minimum of 1.25" in diameter.

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Mechanism pivot bearings and locking device thread shall be greasable.

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Latch fingers shall be a minimum 5/8" stainless steel that seat into a latch holder of a minimum thickness of 3/8" steel.

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Locking mechanism pins shall be a minimum 1.25" in diameter and made of stainless steel.

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Entire mechanism shall be mounted to a 7 gauge SS201 stainless steel bumper.

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The bumper shall be full width and shall extend and span the width under the rear posts (no exceptions). The bumper shall be fully welded to the floor and rear post support extensions to form a high strength structurally sound unit.

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**Rear Post Design:**

Rear posts shall be one-piece construction and fabricated out of a minimum of 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Rear posts shall be full depth.

Rear posts shall have a small access hole in bottom cap for electrical wire passage.

Light hole cutouts shall be enclosed and protected inside the post with Stainless steel light boxes.

**Rear Hing Assembly:**

35-45 ton rear hinge assembly shall be constructed of 4"x4"3/8" structural angle with 2 1/4" x 7 1/8" tempered steel hinge pins and 3" thick x 7 5/8" tempered steel hinge blocks/pivots. Fixed hinge blocks shall be 1 1/2" thick x 4". Bearing points shall be greasable.

Pivot blocks are adjustable with a bolt on cap for easy pin replacement.

**Welding:**

All body welds shall be 100% full and continuous.

**Dump Body Warranty:**

Minimum one-year parts and labor.

**Double Acting Hoist:**

The lower trunnion pins of telescopic cylinder shall mount into a heavy-duty lift frame with capability to adjust vertical position of cylinder between cab and body.

Upper trunnion pins shall mount into a heavy-duty lift bracket consisting of 1-1/4" lift plates welded to 3/8" reinforced front plate.

**Telescopic cylinder specifications:**

warranty shall be for a minimum of two years. All tubing used in the manufacture of this cylinder shall be honed D.O.M tubing and must the corresponding mill spec sheets from the run under which it was produced. after machining, the tubes and glands shall be submerged in a liquid salt bath nitriding process, polished, and submerged a second time to enhance the mechanical properties of the tubing. The nitride tubes shall have ten times the corrosion resistance of hard chrome plating, twice the fatigue strength of

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the cab shield.

One pair Whelen "WHE-5GA00FAR" amber flashers recessed in cab shield facing rearward.

One pair oblong LED STT lights recessed in cab shield facing rearward.

One pair Whelen "WHE-5GA00FAR" amber flashers recessed in each rear post.

One pair oblong LED STT lights recessed in each rear post.

One pair oblong LED "back up" lights recessed in each rear post.

One marker light on side of each rear post.

One LED three light cluster recessed in rear hinge.

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Four 3" diameter red reflectors shall be provided.

Wiring shall be professional quality construction utilizing molded on connections with jacketed cable for increased durability and weather resistance.

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**Camera System:** Install 2 Camera system with 7" Monitor.

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**Rear Hitch:**

Tri-State 1" fabricated carbon steel plate

One PH30 pintle

Two 4" round STT lights - recessed

One 6" oblong back up light - recessed

One 7 flat RV trailer plug

One pair carbon steel D-rings

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**Central Hydraulic System**

Chelsea PTO for Allison Transmission

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Commercial SG102 Pump

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**Console:**

Tri-State Truck Equipment custom console.

APSCO "Pneumatic" air controls.

Hoist-Single acting lever with interlock

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**Painting:**

All stainless steel shall be left unpainted. Carbon steel components shall be chemically cleaned and coated with a lead free rust inhibitive primer and painted with lead free black enamel.

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**Bid Price for Equipment per Bid Specifications**

Bid Price: \_\_\_\_\_

Final Cost: \_\_\_\_\_

Company: \_\_\_\_\_

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

**Exceptions**

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**CITY OF ROCK ISLAND**  
**Public Works Department / Fleet Services Division**  
**1309 Mill Street, Rock Island, Illinois**

October 3, 2022

To: All Bidders on the 37,000 GVW and 58,000 GVW Cab & Chassis, and All Bidders on the Outfitting of the proposed chassis.

**CLARIFICATION**  
**ADDENDUM**

This addendum is to clarify that the City of Rock Island requires the chassis dealer and the body installer work together on the truck outfitting to ensure for the proper clearances needed for all the proposed equipment that is to be installed. The city must be represented during these meetings.

If there any questions regarding this change, please contact me at (309) 732-2252.

Alan L. Vanderheyden  
Fleet Services Manager