

Attachment Two
Specifications for Two (2) Dump Bodies & Hoists
Optional Three (3) Additional in 2022

General- These specifications will describe the minimum requirements for one dump body to be mounted on a two (2) ton, diesel powered, 2022 cab chassis (specifications attached) provided by Central Arkansas Water. The color of the dump body shall be painted black.

1 Dimensions/ Capacity

- 1.1 The dump body length shall be 14 feet.
- 1.2 The dump body side height shall be +/- 18 inches.
- 1.3 The dump body tailgate height shall be +/- 24 inches.
- 1.4 The dump body front height shall be +/- 42 inches.
- 1.5 The dump body inside width shall be minimum 84 inches.
- 1.6 The dump body capacity shall be 5.7 to 7.7 cubic yards (water level load).

2 Materials/Construction – Sides & Front

- 2.1 The dump body sides, and front shall be fabricated from 10-gauge high strength alloy steel having a minimum yield strength of 50,000 PSI.
- 2.2 The dump body front shall be 24 inches taller than the sides.
- 2.3 The dump body bed header shall have expanded metal windows on both sides of the doghouse.
- 2.4 The dump body side “rub rail” shall have a 45-degree slope for a “self-cleaning”.
- 2.5 The dump body side “top rail” shall be 3 inches by 3/16-inch wall square tubing with inverted angles on top to shed debris.
- 2.6 The dump body sides shall have rear corner posts and four intermediate vertical braces.
- 2.7 All welds on sides and front shall be “continuous” to prevent entrance (and entrapment) of moisture.
- 2.8 The dump body sides shall have formed and boxed 10-gauge steel side extensions welded in place.

3 Materials/Construction – Floor & Understructure

- 3.1 The dump body floor shall be 3/16 inch (7 gauge) high strength alloy steel with a minimum yield strength of 50,000 PSI.
- 3.2 The dump body floor shall have a minimum 4 inch 45-degree angle at sides and shall lap sides approximately 5 inches.
- 3.3 Each cross member shall be gusseted to each of two structural channel steel long sills.
- 3.4 Each cross member shall be continuously welded at each end to the inside of the “rub rail” of body sides.
- 3.5 The rear of the dump body shall be reinforced with a full width apron supporting rear cross members and welded to long sills and rear corner posts.
- 3.6 Cross members shall be 3-inch structural channel (4.1# /ft).
- 3.7 Long sills shall be 8-inch structural channel (11.5# /ft).

4 Tailgate & Cab Shield

- 4.1** The tailgate shall be 10-gauge high strength alloy steel with a minimum yield strength of 50,000 PSI.
- 4.2** The tailgate upper and lower rails shall be sloped 45-degrees for self-cleaning.
- 4.3** The tailgate shall be boxed with 3 inches by 3'16-inch wall square tubing and shall have two vertical braces.
- 4.4** The upper tailgate hinges shall be offset approximately 5 inches and shall have 1 ¼ inch diameter pins.
- 4.5** The tailgate shall have upper and lower "dogleg" slotted chain keepers welded to rear corner post to control tailgate opening at bottom.
- 4.6** There shall be sufficient 3/8-inch chain to allow the tailgate to lay flat (approximately flush) with the dump body floor when hinged at the bottom.
- 4.7** The tailgate latches shall be retractable type safety latches.
- 4.8** The tailgate latches shall stay locked without dependence on a control rod lever or "over-center" device.
- 4.9** The tailgate latches are to be air activated with controls in cab of truck.
- 4.10** The cab shield shall be 10 gauge high strength alloy steel with a minimum yield strength of 50,000 PSI.
- 4.11** The cab shield shall be 88 inches wide and shall project over the cab 24 inches.
- 4.12** The cab shield shall be welded to the dump body.

5 Hoist

- 5.1** The hoist shall be NTEA/TBEA Class 50 performance requirements.
- 5.2** The hoist shall be a 3-stage front mount telescopic cylinder.
- 5.3** The hoist shall not have less than 15 tons lift capacity when installed under a 14-foot dump body with 18-inch overhang.
- 5.4** The hoist shall have a PTO driven, high pressure hydraulic system with an operating pressure of 2,000 PSI or higher.
- 5.5** Over-speed for pto shall be controlled by truck transmission module.
- 5.6** The hydraulic pump shall be "direct mount".
- 5.7 Controls** for the hydraulic pump valve shall be "pedestal mounted" air controls for raise, lower, and hold. Control pedestal shall be in an easy to reach location no less than 13" tall.

6 Hitch

- 6.1** The truck shall be equipped with a 60,000 lb rated towing package for air equipped trailers.
- 6.2** The hitch plate shall be located just back of tailgate, (no more than 12"), to allow for turning truck without making contact with trailer front header.
- 6.3** The tow package shall have a ¾ inch thick hitch plate braced to tow up to 60,000 lbs.
- 6.4** The tow package shall have 1" (inch) heavy duty "D" rings for safety chain attachment.
- 6.5** The tow package shall have air lines to glad hands on the hitch plate with Phillips #12-0100 11400, (or equivalent), shut-off dummy glad hands-on hitch plate above pintle hook, (as high as possible), with a 90-degree bend and 1' of hydraulic hose between the hitch plate and the glad hand.
- 6.6** The tow package shall have a Sure Lok 6 pole round electrical connection to a weatherproof socket on the hitch plate. (No 7-pole connection)

- 6.7 The tow package shall have a heavy-duty electric brake controller.
- 6.8 The tow package shall have a seven-way light cord to a weatherproof socket on the hitch plate.
- 6.9 The tow package shall have a Buyers Products BP-760A (or approved equal) swivel pintle hook with 60,000 lb. rated towing and 11,800 lb. rated vertical load capacities.
- 6.10 The cup of the pintle hook shall be 22 inches from ground.

7 Tarp System

- 7.1 Tarp system shall be Aero Flip Tarp System (**aluminum with double arm**).
- 7.2 Direct drive electric motor with worm gear with cab mounted control drive.
- 7.3 Bent tarp arms.
- 7.4 All-purpose mesh tarp.

8 Ladder

- 8.1 Body shall have a built-in ladder between the top and bottom rail of drivers side of dump body. Ladder shall consist of two formed handrails constructed of at least 3/16" steel. Ladder shall have one anti-skid metal steps welded between the handrails. Aligned with each of these units shall be a pull out/fold down style two-rung ladder. Location of the ladders shall be on drivers side, just in front of rear tire and such that operator does not have to climb over obstructions. Ladders shall be a minimum of 14" wide.

9 Lights/Reflectors/ Safety

- 9.1 All dump body lighting shall meet Federal FMVSS No. 108.
- 9.2 All lighting shall be "recessed" for protection.
- 9.3 All lighting shall be rubber grommet mounted L.E.D.
- 9.4 A strobe warning light with "in-cab" control shall be mounted on the cab protector.
- 9.5 All wiring for lighting shall be protected in conduit or fibrous loom.
- 9.6 Installation shall include back-up alarm, safety body prop and mud flaps.

10 Back-Up Alarm

- 10.1 Balkamp (BK7301067), or equivalent, back-up alarm. 97 dB minimum, mounted inside truck frame near rear bumper.

11 Tool Box

- 11.1 A black underbody toolbox, not supplied, shall be secured to truck frame under dump body and behind drivers side. Use heavy duty brackets to support full capacity of box. Bottom of box must be supported with channel brackets to prevent sagging. The tool box shall be 18" tall x 18" deep x 48" wide, Buyers products or equivalent, black in color.