SPECIFICATIONS FOR 5 YD. DUMP BODY

	COMPLY YES	COMPLY NO
DUMP BODY SPECS.		
Dump body shall be a heavy duty municipal style dump body		
1.DUMP BODY SIZE:		
a.Dump body shall a minimum of 10' long and 7'wide with a 5 to 7 yd capacity	☐	☐
b. Body shall have a minimum of 26" sides	☐	☐
c. Tailgate shall be a minimum of 34"	☐	☐
d. Front of dump body shall be 40", measuring from the floor	☐	☐
2. DUMP BODY STRUCTURE:		
a. The body shall have a western style under-structure which utilizes full length tubular long members and no cross members, thereby reducing weight, eliminating "wash boarding" of the floor and providing easy cleanout	☐	☐
b. body interior shall have a 9" radius from the front to the floor and the sides to the floor.	☐	☐
c. Their shall be a 1/3 cab protector installed	☐	☐
d. A full length grip strut will be install on each side of dump body	☐	☐
e. A shovel holder will be installed on the right rear side of dump body	☐	☐
f. Must have spill gaurds attached to tailgate to prevent salt from spilling out over salter sides		
g. All tailgate and air tailgate hardware and mounting hardware must be of stainless steel (pins, latching devices, etc.)		
3.BODY MATERIAL:		
Body shall be constructed of a stainless steel	☐	☐
4.BODY HOIST:		
a.The body hoist shall be a single cylinder, double acting hoist with a 17 ton capacity	☐	☐
b. The hoist shall be a "scissors type with horizontally mounted hoist cylinder. This is needed to eliminate the "doghouse" inside the box. NO substitutes	☐	☐
c. The hoist shall have an internal cylinder bypass	☐	☐

	COMPLY YES	COMPLY NO
5.BODY LIGHTING:		
a. The body shall have recessed stop/ turn/tail/backup LED lights with sealed wiring harness and junction box.	☐	☐
b. There shall be two Vertex Super-LED's #VTX 615A installed, one on each side of rear quarter panels	☐	☐
c. Shall have a LED warning light, Federal Signal Corp. #454205-02 to be mounted on the cab protector	☐	☐
6.HITCH:		
a. There shall be a 25 ton spring mounted pintle hitch with safety chain hooks mounted on rear frame	☐	☐
b. The hitch shall be mounted 24" from the ground to the center of the hitch in the closed position	☐	☐
7.BACK UP ALARM:		
There shall be an audible back-up alarm installed on the rear of the body	☐	☐
8.BODY PROP:		
There shall be a body prop installed to safely hold dump body in the up position.	☐	☐
9.MUD FLAPS:		
There shall be rubber mud flaps installed in the front and rear of the rear tires.	☐	☐
10.AIR OPERATED TAILGATE:		
There shall be an air operated tailgate installed with an electric switch for open and close. Switch must have a safety lockout feature to prevent accidental open of the tailgate	☐	☐
11.SPILL PAN:		
A spill pan shall be mounted on the rear of the box below the tailgate. It shall be pinned at the sides and bolted in the middle. Mounting pins and brackets shall be the same type and design as used in mounting the tailgate spreader.	☐	☐

	COMPLY	
	YES	NO

PLOW,WING and SPREADER SYSTEM

12.PLOW:

Plow must be a pin and loop hitch system:		
a. Must be painted black to match factory chassis	☐	☐
b. Must be a low profile design	☐	☐
c. Must be a complete install	☐	☐
d. Must have a 4" double acting lift cylinder	☐	☐
Plow must be a 11 foot heavy duty, reversible snow plow:		
a. All welds must be continuous welds, skip welds are not acceptable	☐	☐
b. Must have a carbide cutting edge	☐	☐
c. Must have a one piece tripping bottom moldboard	☐	☐
d. Must have a 12" rubber snow flap mounted on top of blade	☐	☐

13.WING:

Wing must be a 9 foot wing:		
a. Cutting edge must be (1) one piece, trip style cutting edge	☐	☐
b. Wing marker installed at wing heel	☐	☐
c. Installed complete	☐	☐
d. Must have a LED wing light installed	☐	☐
e. Wing push arm to be a hydraulic cylinder with a built in accumulator		

14.SPREADER:

Stainless steel tailgate spreader		
a. Must have a 6"auger	☐	☐
b. Installed complete	☐	☐
c. Must have an amber spreader light installed on left side of spreader	☐	☐

CENTRAL HYDRAULIC SYSTEM

	COMPLY	
	YES	**NO**
15.HYDRAULIC PUMP:		
a. Hydraulic pump shall be a US manufactured axial piston pressure and flow compensated load sensing type.	☐	☐
b. The pump shall be cast iron construction and rated to 4.67 cubic inches per revolution maximum stroke (20 gpm @ 1000 RPM)	☐	☐
c. The pump shall have a two inch suction line. The pump shall be rated for up to 3000 rpm and 3000 psi pressure.	☐	☐
d. The pump shall have a 1 ¼" keyed drive shaft and SAE type C mounting flange. The pump shall have a high pressure shaft seal, specially designed to prevent damage from road contamination and salt spray.	☐	☐
e. The pump shall be FORCE America PVWH 34 load sensing pump.	☐	☐
f. A 1" outlet with a 1/4 turn ball valve shall be mounted on the pressure outlet of the pump.	☐	☐
16.MOUNTING:		
a. The hydraulic pump shall be mounted with shaft center line parallel to the crankshaft center line and at a level to create not more than a three degree angle on the drive line. Pump mounting shall be incorporated with a bracket fabricated to mount in the extended frame rails of the truck.	☐	☐
17.DRIVE LINE:		
a. The hydraulic pump shall be driven directly off the engine crankshaft via a splined drive line to allow for movement.	☐	☐
b. The drive line shall include grease fittings on both u-joints (Spicer model 1310 series).	☐	☐

	COMPLY	
	YES	NO

18.CONTROL CENTER:

a. The control Center shall be a Force America Patrol Commander MPJC Ultra series with a 5100eX model speader control, integrated into the armrest. 5100ex Spreader control must incorporate closed loop ground speed feature. ☐ ☐

b.Controls for all valve functions and electronic spreader control will be integrated into a single, self-contained control center. The control center shall be a padded armrest style that is ergonomically designed. Control center shall be modular in design for ease of installation and service, and wiring and connectors shall be keyed and color-coded throughout. All components must be durable for long life and trouble free operation. ☐ ☐

INSPECTIONS:

The City will be given an opportunity to do pre-delivery inspections during manufacturing process.

	COMPLY	
	YES	**NO**

19.HYDRAULIC VALVE:

a. The hydraulic valve shall be of modular manifold design. Each hydraulic function requires an individual manifold stacked together to form the manifold base. The hydraulic control valves shall be pulse-width modulated, proportionally controlled. Each hydraulic valve segment shall be individually mounted to the manifold base assembly and be serviceable without removing any hydraulic hoses or any other hydraulic valve segments. All segments shall have heavy duty continuous duty coils and connections shall be with Hirshman connectors. All coils shall operate at 12 VDC and require a maximum maximum of 1400 milli-amps. Each segment shall be equipped with a rack and pinion manual override except for the auger and spinner sections. Valve sections must have adjustable stroke limiter flow controls for each function. Valve segments shall be FORCE America "Add-A-Fold" and be arranged as follows:

1. Hoist, double acting with 500 psi down relief	☐	☐
2. Plow Lift, double acting w/ hydraulic float	☐	☐
3. Plow Angle, double acting	☐	☐
4. Wing Toe / Heel, double acting w/ sequence valves for toe/heel operation	☐	☐
5. Wing Push Arm, double acting w/ out relief @ 700 psi	☐	☐
6. Auger, 14 gpm	☐	☐
7. Spinner, 7 gpm	☐	☐

20.RESERVOIR/VALVE ENCLOSURE :

a. The hydraulic reservoir/valve enclosure combination shall be stainless steel, frame mounted with 35 gallon capacity. The reservoir must be equipped with the following:

Lockable basket type filler breather cap	☐	☐
Magnetic drain plug	☐	☐
Two inch NPT suction with 100 mesh screen type filter	☐	☐
Separate return port for control drain line	☐	☐
Sight temperature gauge externally mounted	☐	☐

b. The hydraulic reservoir shall also be equipped with an electric level or level/temperature sending unit to be wired to the control panel and back lit for designated warning. ☐ ☐

c. The valve shall be mounted on a plate attached to the outside of the reservoir. All hoses must connect to the bottom of the valve, and exit the rear of the reservoir/valve enclosure combination through a integral hose guard. The enclosure cover must have a gasket less passive seal design, to eliminate spray while venting moisture. The valve MUST be exposed on all sides with the cover removed, for ease of service. Further, the valve mounting plate MUST swing out for ease of valve service and hose replacement. Oil filter, filler breather, and level/temperature sender MUST be enclosed by the enclosure cover. Reservoir/Valve Enclosure shall be FORCE America VT35 Valve/Tank Assembly ☐ ☐