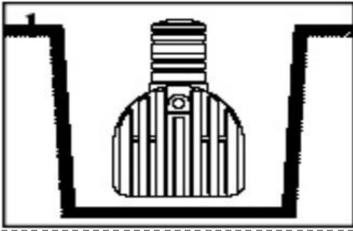
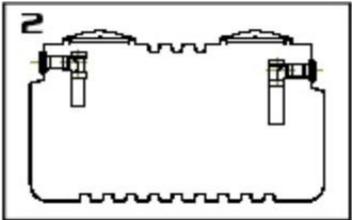


## BELOW GROUND SEPTIC TANK & WATER TANK INSTALLATION PROCEDURES



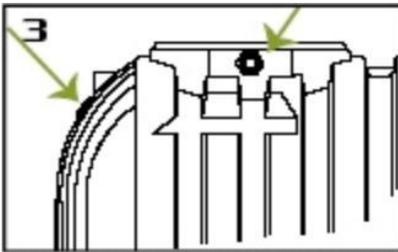
### 1. Excavation

- Excavate to a depth that will provide a minimum of 6" and a maximum of 30" of cover over the top of the tank. This will avoid collapse and over-expansion of the tank and possible leakage.
- Allow 18"-24" on both sides and both ends of the tank. Failure to comply with allowance ranges could cause tank collapse.
- Bed the tank in well-packed sand – 6" minimum in soil terrain, 12" minimum in rock terrain. The tank should be installed level.



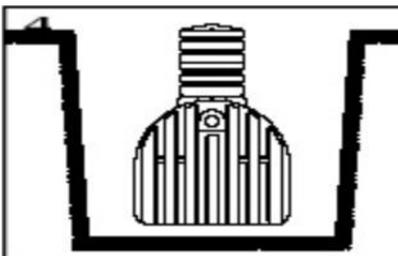
### 2. Septic and Bruiser Tank Inlet/Outlet Connections

- Septic tanks 750 gallons and up, and all blue Bruiser tanks are supplied with PVC sanitary tees and adapters at the inlet and outlet.
- The PVC adapter has two sockets for use with either 4" schedule 40 or 4" SDR 35 pipe.
- Inlet and outlet piping should be solvent welded to the adapters using standard PVC cement.



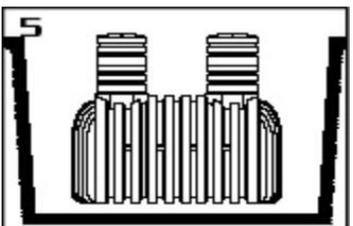
### 3. Water Tank Connections

- Install bulkhead fittings in either side of the manway or end rib as shown.
- Tanks must be vented.
- For water-tight seal, lid should be sealed with silicone caulking. Re-use stainless steel screws supplied with lid.



### 4. Manhole Extensions

- Install manhole extension before you backfill.
- Manhole extensions are supplied with gaskets and screws. Re-use the lid gasket and screws to attach the lid at the top of the manhole extension.
- Note the direction of flow. The inlet is higher than the outlet.



### 5. Backfilling Exterior

- CAUTION: Fill septic tank with water as you backfill, keeping water level even with backfill level as you go to prevent possible collapse. Water Cisterns and Blue Bruiser Tanks may remain empty while backfilling.
- Backfill with 12" layers and compact each layer. ALWAYS COMPACT ENDS FIRST.
- Tamp and compact backfill under inlet and outlet pipes.
- Maximum backfill over the top of the tank is 30". Mound soil over the top to provide positive drainage.

## 6. Backfill Materials

- The preferred material for backfill surrounding and covering the tank is a sand/gravel mixture as described below. For Blue Bruiser Tanks and White Cistern Tanks, native soil may be used for backfill and those tanks may be left empty while backfilling. For Yellow and Black Septic Tanks, the sand/gravel mixture is required and the tanks must be filled with water during the backfilling process. Bruiser tanks and Cisterns should be filled  $\frac{1}{4}$  full as soon as practical after installation.
- The sand/gravel mixture should be as follows: 100% must be smaller than 1  $\frac{1}{2}$ " and about 50% should be smaller than  $\frac{1}{4}$ ".
- All fill should be free of any wood, masonry debris, silt, or clay.

**For Septic Installation It Is Important To Contact Your Local Or State Sanitarian Regarding Approved Installation Procedures.**

### **CAUTION: Failure to comply with the points below Voids Warranty:**

1. Do not install any tank in water-saturated clay or in a high water table. The tank may collapse and its contents will escape.
2. Tanks are not fire-resistant. Do not store them near an open flame or heat in excess of 180° F.
3. Do not install tank under the path of vehicles or heavy equipment.
4. If a yellow or black septic tank is pumped for normal maintenance, it should be re-filled immediately. If a Blue Bruiser tank or a white cistern tank is pumped empty, it should be immediately re-filled to  $\frac{1}{4}$  of capacity. Spherical 300 and 500 gallon tanks may be left empty.
5. Yellow and Black Septic tanks, Blue Bruiser tanks, and cistern tanks are designed for use as underground tanks.
6. Yellow and Black Septic tanks, with the exception of the 300 and 500 gallon spherical tanks, cannot be used as holding tanks or pump tanks because they may collapse if left empty underground. *Blue Bruiser tanks, White Cistern tanks, and 300 or 500 gallon spherical tanks can be used for holding or pumping applications where permitted by local codes.*
7. White cistern tanks and Blue Bruiser tanks are made of resins that meet FDA specifications for the storage of drinking water and can be used for this application. Yellow and Black septic tanks must not be used for drinking water.
8. Protect the tank from sharp objects which could puncture it and cause leakage.

***The use of these tanks for any other purpose is not recommended and will void warranty. Consequential damage is not covered by warranty.***