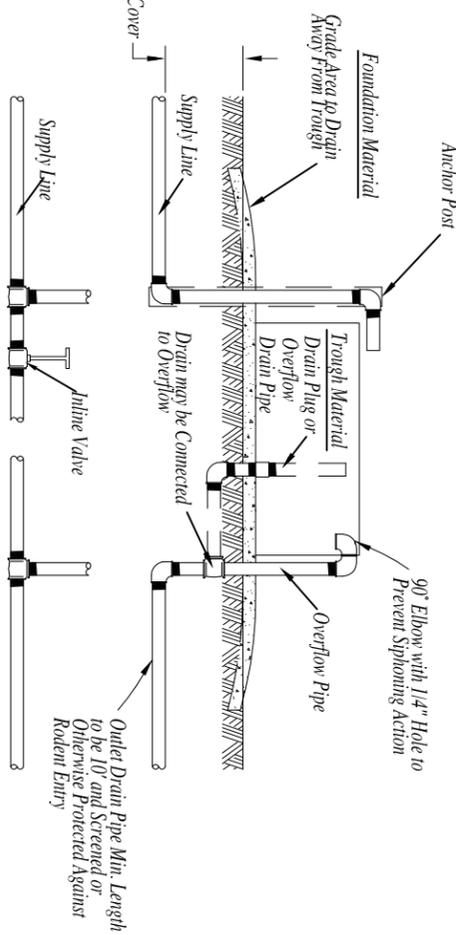


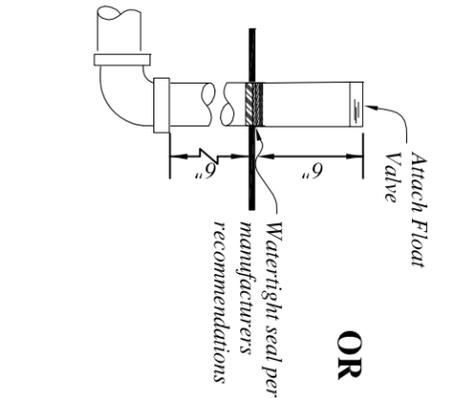
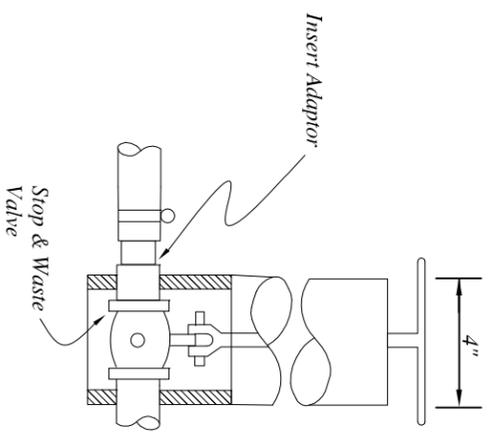
Rectangular Trough

N.T.S

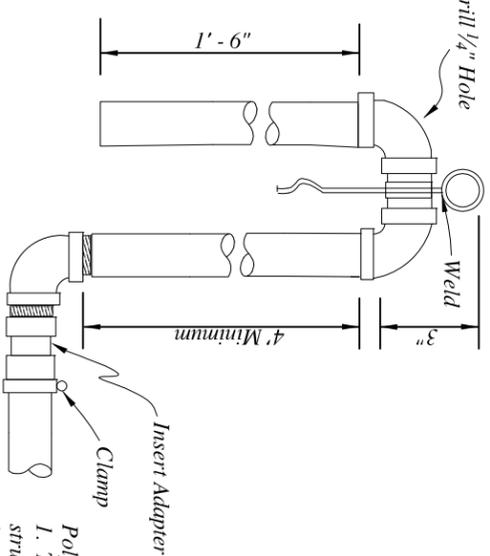
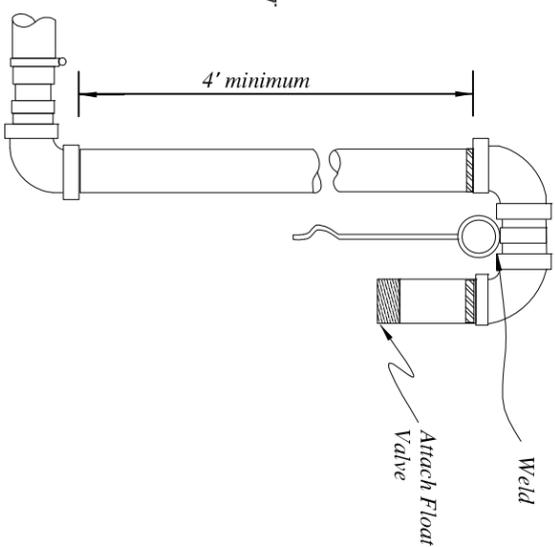


Trough Piping Detail

N.T.S



OR



Inlet Details

N.T.S

Overflow Detail (If Required)

N.T.S

Polyethylene Tank Notes:

1. The owner shall assume responsibility for repairing and/or replacing the structure for a period not less than the lifespan of the practice and shall not be in lieu of the manufacturer's warranty period.
2. All tanks and troughs shall be new (manufactured within the previous 12-months) and carry a five year warranty (minimum) from the manufacturer or supplier from the date of purchase.
3. Tank and trough diameter, height and corresponding wall (material) thickness shall be as specified by the manufacturer. Minimum wall thickness shall be determined per ASTM D 1998, but shall not be less than 3/16-inch thick.
4. Concrete anchors (3 or 4) shall be equally spaced with a minimum size of (L x W x H) as determined by the Tank Stability Analysis and Anchor Design spreadsheet
5. See Arizona Tech Note, AZ-9-2 Biology, "Watering Facility Escape Ladder Design" for minimum design criteria.

PIPE

Supply Riser _____ Diameter - Material - Length _____

Overflow _____ Diameter - Material - Length _____

Outlet _____ Diameter - Material - Length _____

Outlet Protection _____

TROUGH

Length X Width or Diam. _____

Depth _____

Capacity _____ Gal.

- General Notes:**
1. The system is not designed to be operated in freezing weather. System shall be drained prior to start of freezing weather conditions.
 2. All disturbed areas shall be smoothed and seeded with a recommended seeding mix after construction.
 3. Storage tanks with covered tops shall have an 18-inch diameter (minimum) access manhole installed in the top and will have a drain and an overflow pipe (if applicable).
 4. All above ground inlet, outlet, and overflow pipes that are exposed to sunlight, livestock, or freezing shall be new galvanized steel pipe of adequate size to deliver the needed quantity of water. All valves shall be brass and of the correct size. All new tanks, troughs, piping and appurtenances shall be National Sanitary Foundation (NSF) approved.
 5. Install permanent watering facilities on a firm, level foundation that will not settle differentially. Examples of suitable foundation materials are bedrock, compacted gravel, and stable, well compacted native soils.
 6. Tanks may be partially buried on the ground or elevated as dictated by site conditions, according to manufacturer's requirements/recommendations.
 7. A trough or tank shall be adequately anchored so that it cannot be moved by livestock or wind, particularly when they are empty. Anchorage requirements will be designed for site specific conditions. Any tank over 8-feet in height shall be anchored to prevent movement from sliding and overturning.

REVISIONS			
DATE	APPROVED	TITLE	JAA

 <p>Natural Resources Conservation Service United States Department of Agriculture</p>	<p>Arizona Drawing Template Polyethylene Trough – 614D2</p> <p>Field Office _____ County, Arizona</p>		<p>Date _____</p> <p>Designed _____</p> <p>Drawn _____</p> <p>Checked _____</p> <p>Approved _____</p>
	<p>Drawing No. 4Z614D2_09_09</p> <p>Sheet _____ of _____</p>		