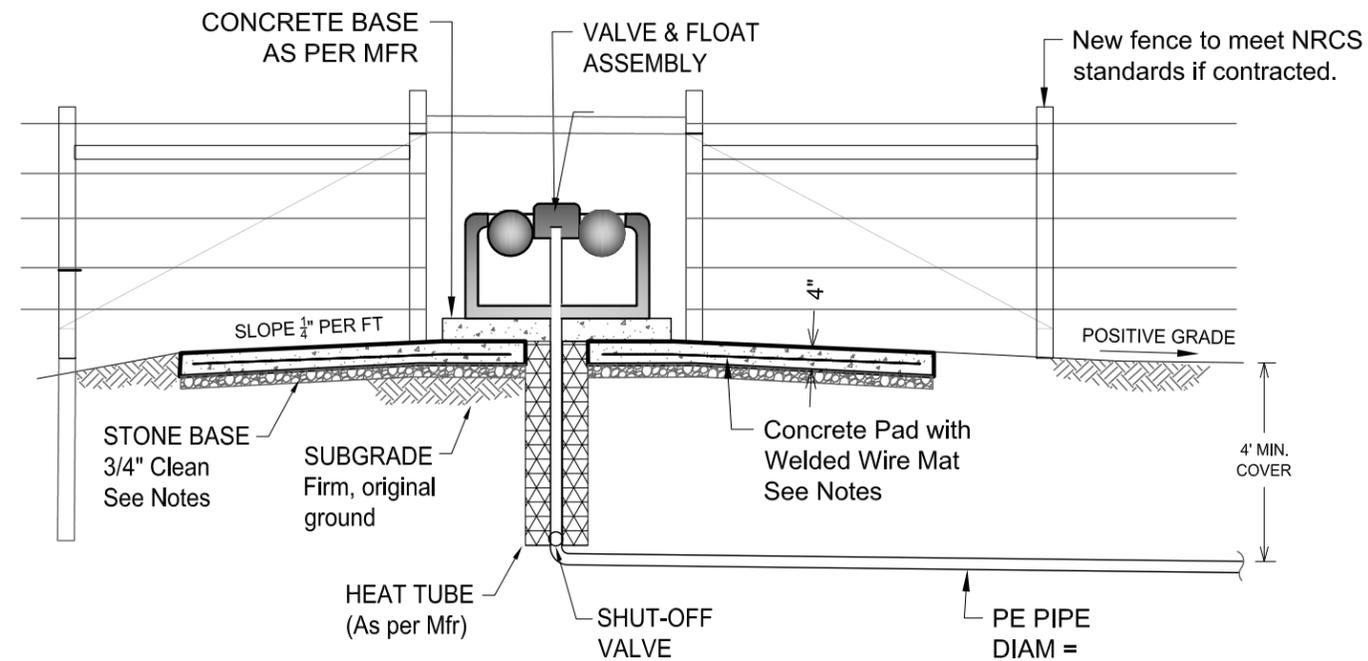


**PERMANENT WATERER
PLAN VIEW**
NTS



**PERMANENT WATERER
TYPICAL SECTION**
NTS

PERMANENT WATERER NOTES:

1. Waterer is to be frost-free to provide year-round use. Specific make and model as per landowner.
2. The waterer is to be installed as pre the manufacturer including anchorage to the concrete pad, insulation of the pipeline, plumbing hook-ups, and other appurtenances.
3. A float & valve assembly to control the water level is required.
4. Energy-free waterers with two balls or more require a valve that delivers 2 gpm per ball at the available pressure. Typically a 3/4" valve will be needed.
5. Tracer wire may be installed over the pipeline.
6. See the trench details for pipe specifications and backfill requirements.
7. A backflow prevention valve is required between the domestic water supply or well and the first waterer.

CONCRETE NOTES:

1. Stone base to be 3/4" clean, quarried material. Quarry process, DGA, or Type 5A stone is acceptable. Subgrade and stone are to be compacted with two complete passes of a vibratory plate compactor.
2. Welded Wire Mat to be 6"x6" W1.4 x W1.4 (approx 10 gage). WWM to be positioned in the middle of the slab. Concrete cover around the edges shall be 3 inches.
3. Concrete shall have a minimum compressive strength of 3000 psi. Concrete surface to receive a rough finish suitable for livestock footing.
4. Concrete shall be wet-cured for a period of seven days prior to use by livestock.

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