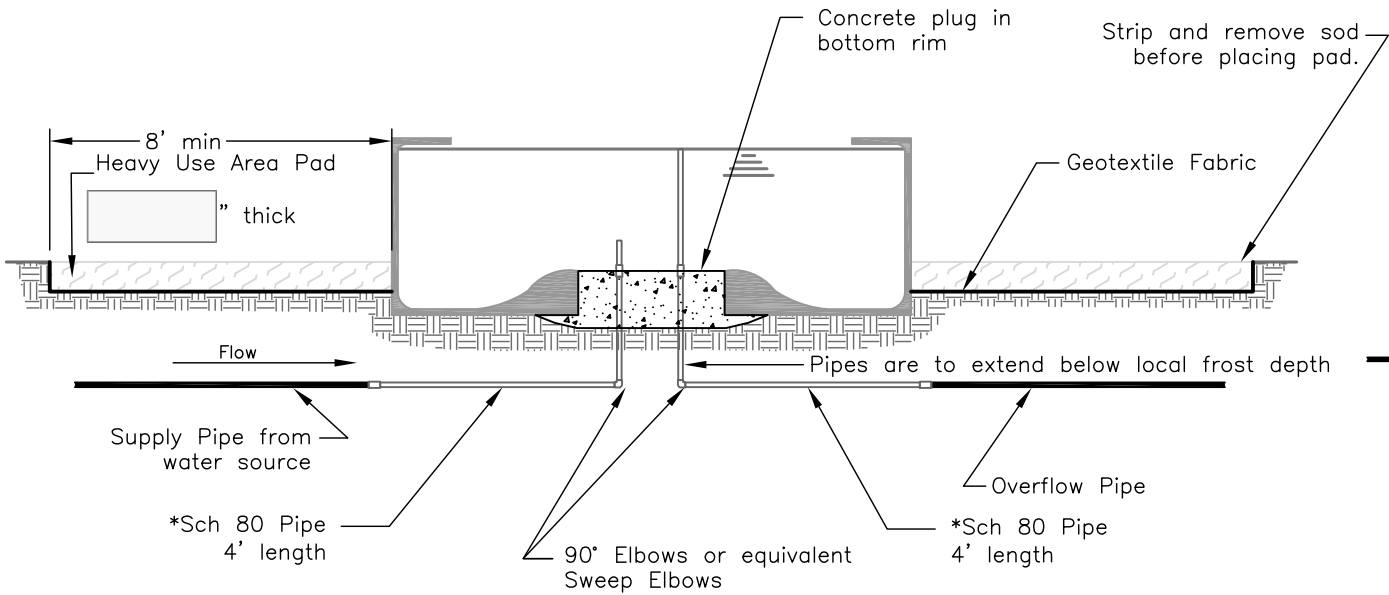


Heavy Equipment Tire (HET) Trough Installation– Side View



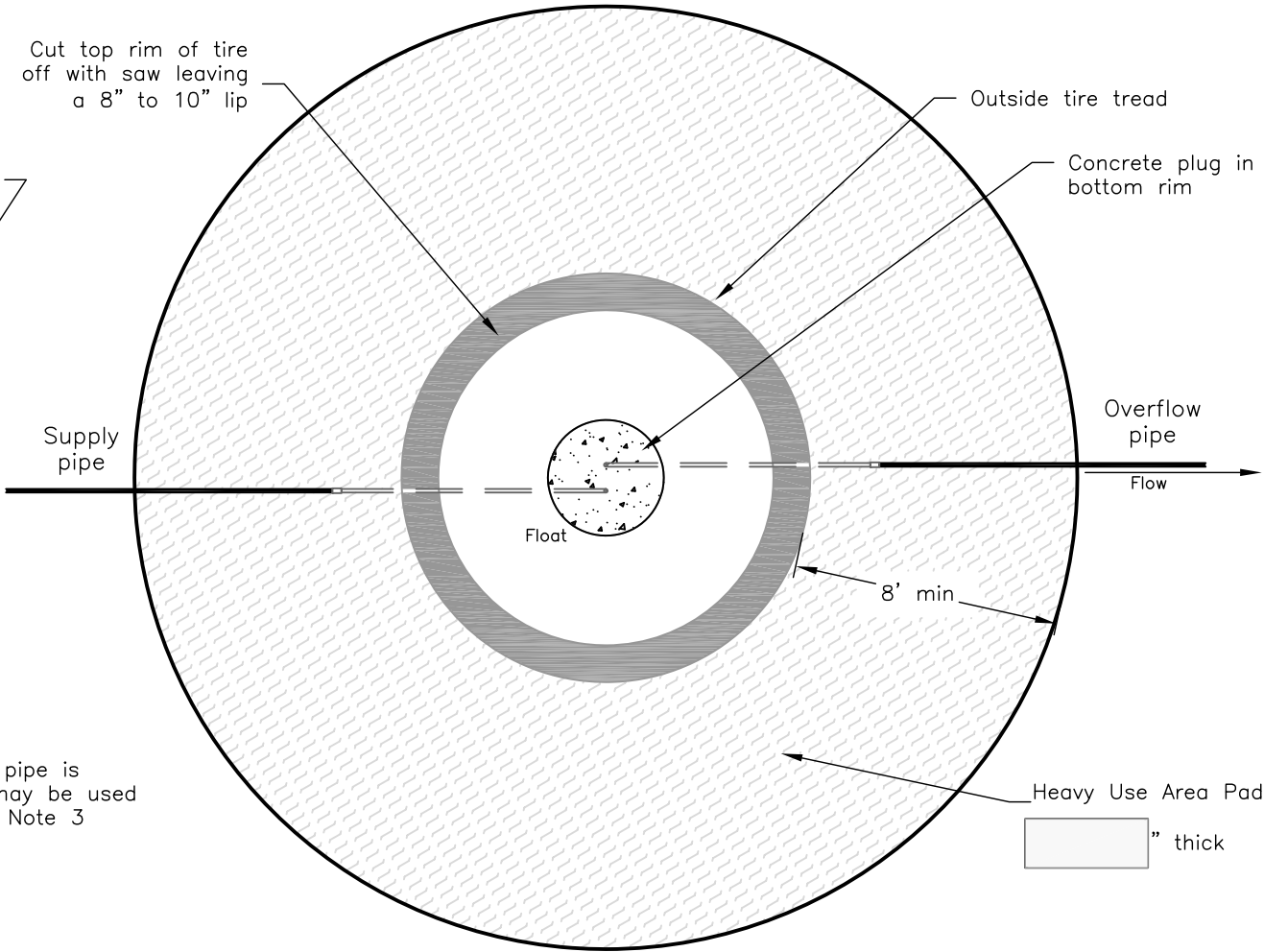
Pipe diameter for galvanized pipes shown above will be:

\*Note: Schedule 80 PVC pipe or Galvanized Steel pipe is required under the trough. Sch 40 PVC may be used with a granular backfill. See Construction Note 3

Supply and Overflow pipelines will be constructed of the following material:

Gravel Pad shall be constructed of the following material:

Heavy Equipment Tire (HET) Trough Installation– Top View



**CAUTION:**

Use caution when selecting equipment tires. Some equipment tires have been filled with chemicals to add stability and traction to the equipment. This is done on farm equipment predominantly, but not exclusively. NRCS does not recommend the use of chemically filled tires as livestock watering troughs.

Construction Notes

1. The ground under and around the trough location shall be cleared of all material not suited for the subgrade, including sod. All loose surface soil shall be removed to undisturbed material.
2. A valve shall be installed in the supply pipeline to regulate flow to the trough. The valve should be installed in a housing that is frost proof, well drained, readily accessible and protected from livestock. A means of draining the supply pipeline between the valve and the trough shall be provided.
3. All backfill for pipelines under the trough shall be compacted to the degree required to prevent caving after construction. Backfill under the trough may be select compacted earthfill or granular fill such as VDOT #21 or crusher run.
4. The trough site shall be free draining.

5. A protective surface shall be placed around the trough. At the minimum, install geotextile fabric around the trough and then place VDOT #57, VDOT #21A or crusher run around the trough, six inches deep (minimum). Other types of stone may be installed with approval of the designer. The gravel pad shall extend at least 8 feet from each side of the trough.
6. An overflow/drain line from the trough will be installed. The inlet for the overflow pipe shall be protected from blockage by algae or floating debris. The outlet shall be protected from livestock.
7. Geotextile shall meet the Class I requirements for nonwoven geotextile in Virginia Construction Specification Geotextiles (VA-795). Class II may be used with engineers approval.
8. Seed all disturbed areas at the rates given in Virginia Construction Specification Seeding (VA-706).

\* If seeding is done outside recommended seeding dates, a nurse crop is to be used.

Revisions			
Version	Date	Approved by	Title

Date			
Designed	Drawn	Checked	Approved

Heavy Equipment Tire Trough Detail, Gravity System