

PLAN VIEW

4x4 post (<500 gal. facility, exclusive of concrete troughs and ball waterers). Extend posts no higher than top of trough and at least 12" above GAB. Posts can be part of a fence system if trough is located on a fence line. Embed posts 3' below top of GAB.

(4) 4"x4" posts (required), 2" treated boards and 3/8" treated plywood door.

GAB  
(Extend on all 4 sides to achieve required HUA area)

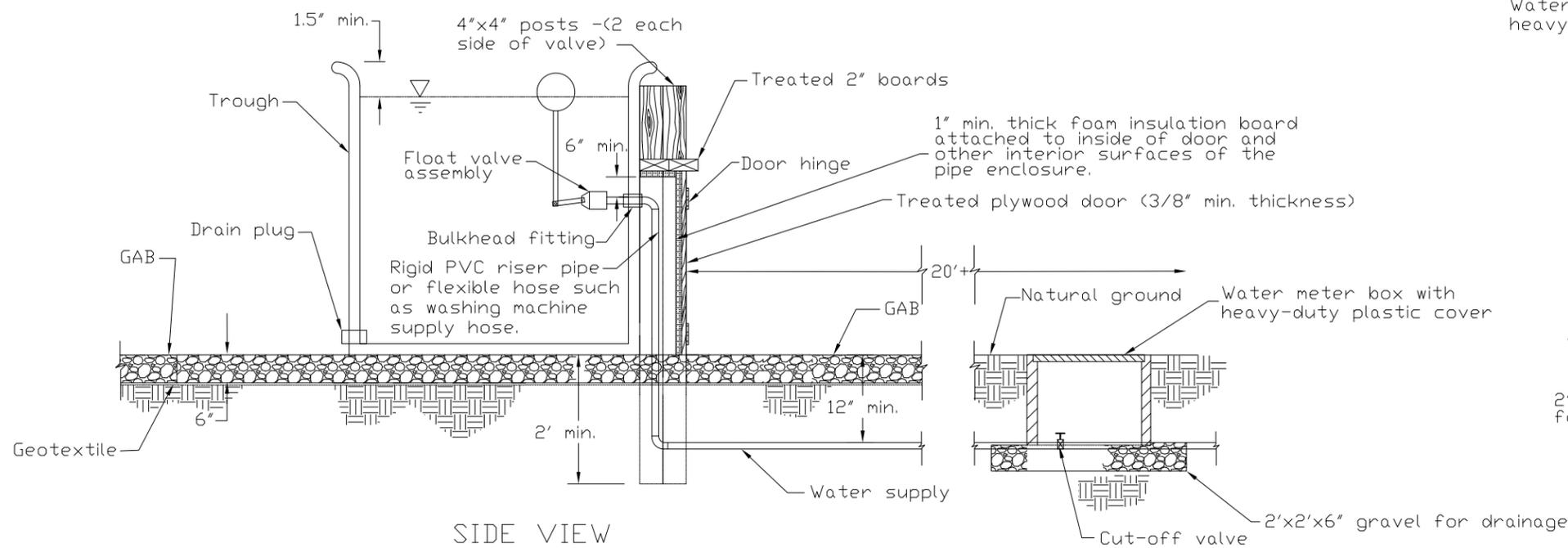
3' min level section on all sides of trough

NOTES:

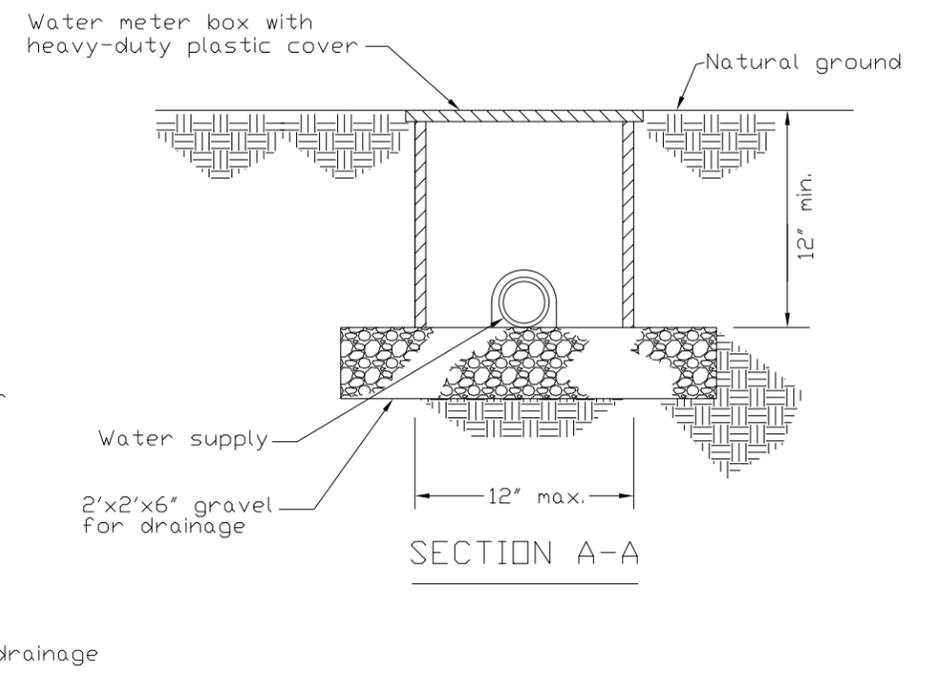
1. Details on this sheet are not to scale.
2. All wood dimensions are nominal sizes.
3. All wooden components shall be pressure treated and rated for in-ground use. Fasteners and hardware shall be compatible with the pressure treatment type.
4. See AL-ENG-561-02a for layout of trough and Heavy Use Area and for material requirements for Heavy Use Area.
5. Line the inside of the pipe enclosure with 1" min. thickness foam insulation board. Attach with appropriate screws, nails or construction adhesive.
6. The pipe enclosure shall be sealed where it abuts the trough by expanding insulation foam, caulking or other appropriate means.
7. At least 2" of vertical clearance shall be provided between the top of the water supply pipe and the bottom edge of the water meter box or other cutoff valve enclosures.
8. The water meter box (or equivalent) shall be located outside the Heavy Use Area and suitably protected.
9. If other structures are used to enclose the cutoff valve, they shall have an appropriate cover.
10. In lieu of cutting a hole in the side of the trough, the water supply may be plumbed through the drain plug fitting using adapters compatible with the drain plug threads. When this method is used, other fittings or methods shall be provided to drain the trough.
11. Flexible hose shall meet system pressure requirements.

SEQUENCE OF CONSTRUCTION (GENERAL)

1. Shape and compact the subgrade as specified.
2. Excavate the pipeline trench to the trough location.
3. Install the water supply pipe to the trough and backfill the pipe trench as specified.
4. Place the 2x2 gravel drainage pad and set the water meter box or alternative valve encasement.
5. Set posts if required.
6. Install the GAB.
7. Set trough and make plumbing connections.
8. Test plumbing for leaks.
9. Construct pipe enclosure with insulation. Caulk as necessary to ensure an air-tight enclosure.
10. Complete construction of Heavy Use Area.
11. Smooth site and vegetate disturbed areas.



SIDE VIEW



SECTION A-A

Date	
Designed	
Drawn	
Checked	
Approved	

FREEZE-PROOF WATER SUPPLY FOR  
 SIDE-PLUMBED WATER TROUGHS (GAB ONLY)  
 LANDOWNER \_\_\_\_\_ COUNTY, ALABAMA



Rev. 6/13

Drawing No.  
AL-ENG-614-02a

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