

Hamilton County Water & Wastewater  
Treatment Authority  
(WWTA)

Inspection Information and Typical Details for  
Septic Tank Effluent Pump (STEP) Systems

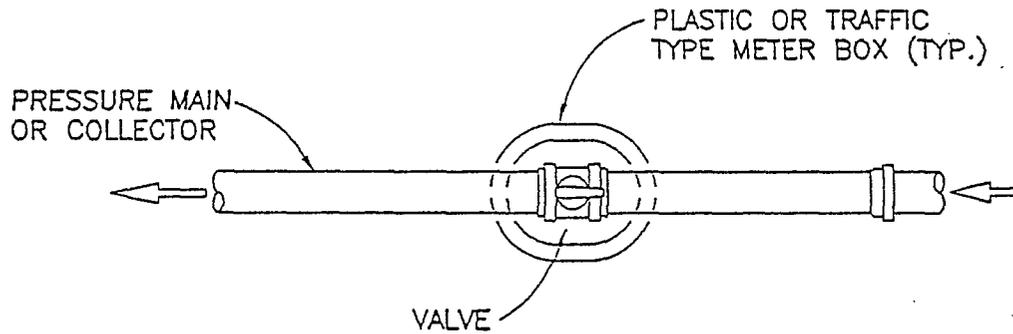
February 28, 2006

## Septic Tank Effluent Pump (STEP) Systems

Call 423-209-7842 for Inspection.

Notes:

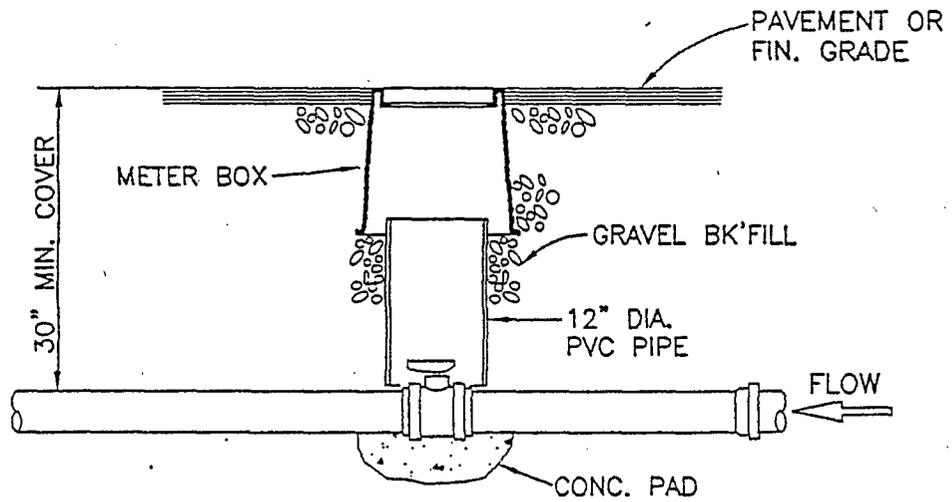
1. The inspection fee includes two inspection visits. Follow-up inspections due to failed tests of lack of coordination between the plumbing and/or electrical contractor shall be billed per extra inspection.
2. The WWTA shall be notified a minimum of 48 hours in advance for inspection.
3. The electrical permit shall be verified prior to installation of tank and pump controls.



PLAN

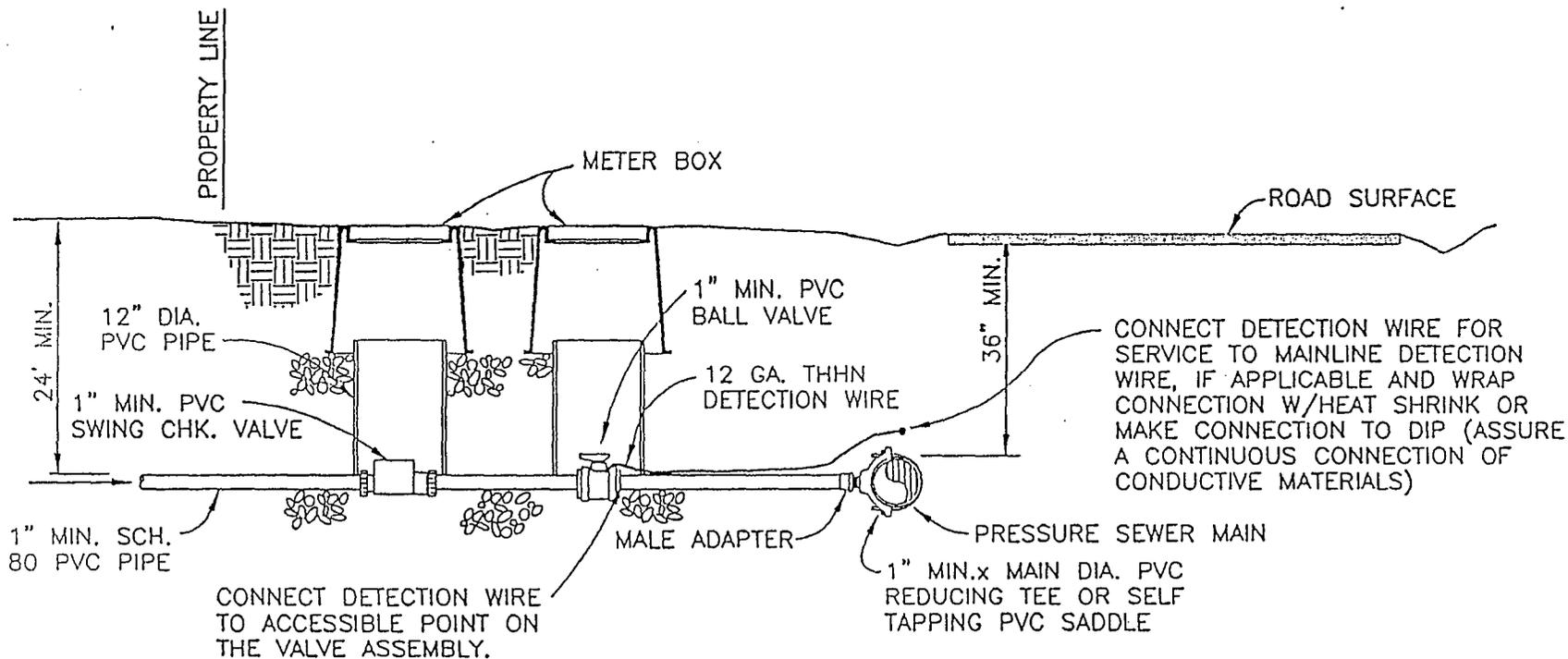
NOTES:

USE PLASTIC METER BOX IN NON-TRAFFIC AREAS AND TRAFFIC TYPE METER BOX WHERE VEHICLE TRAFFIC WILL BE ENCOUNTERED.



VALVE AND METER BOX

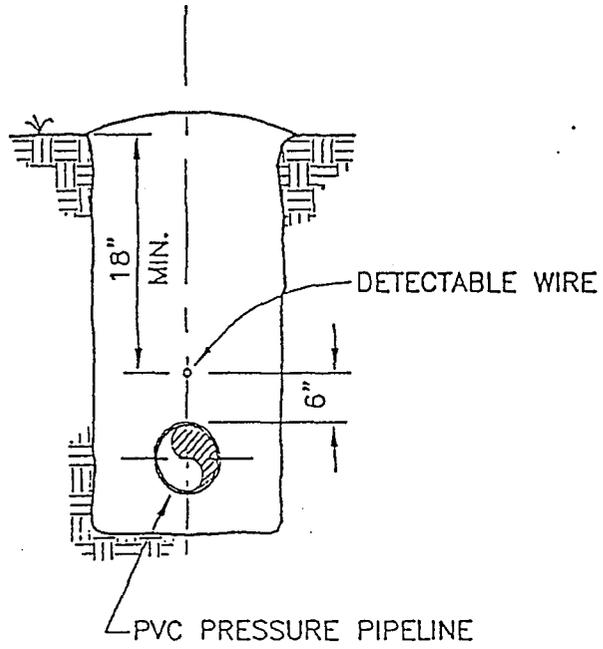
NOT TO SCALE



1. USE PLASTIC METER BOX IN NON-TRAFFIC AREAS AND TRAFFIC TYPE METER BOX WHERE VEHICLE TRAFFIC WILL BE ENCOUNTERED.
2. ALL SERVICE LINE CONNECTIONS SHALL BE SOLVENT WELDED.
3. ALL SERVICE LATERALS FROM THE PRESSURE MAIN TO THE PROPERTY LINE SHALL BE PRESSURE TESTED PRIOR TO ANY BACKFILLING.
4. PLACE VALVE BOX ON 4" THK. MIN. GRAVEL BASE.

## OUTSIDE ROADWAY PRESSURE SERVICE CONNECTION

NOT TO SCALE



## DETECTABLE WIRE DETAIL

NOT TO SCALE

NOTE: INSPECTION PORTS, ACCESS RISER AND TANK CONNECTIONS SHALL BE WATERTIGHT.

10" PVC INSPECTION PORT W/ SLIP CAP (OFFSET TO PROVIDE PUMPING OF TANK AND INSPECTION OF OUTLET TEE.)

FLEXIBLE PVC HOSE FLOW CONTROLLER

24" INSULATED FIBERGLASS LID WITH S.S. BOLTS AND URETHANE GASKET

24" RIBBED PVC RISER W/ NEOPRENE GROMETS

PVC DISCHG. ASSEMBLY

1" DIA. FLEXIBLE PVC HOSE

EFFLUENT DISCHG.

TANK ADAPTER (CAST IN PLACE)

PVC PUMP VAULT

PVC FLOW INDUCER

BRONZE CHK. VALVE

TURBINE EFFLUENT PUMP

INLET (8) HOLES AROUND PERIMETER OF VAULT

BIOTUBE FILTER

DRAIN PORT W/NEOPRENE CHK. VALVE

SLOPE GROUND AWAY FROM RISER

6" PVC INSPECTION PORT W/SLIP CAP

ELECTRICAL SPLICE BOX W/CORD GRIPS

ELECTRIC CONDUIT TO POWER SOURCE

ALARM

LIQUID LEVEL 3-1/2" ON

3-1/2" OFF

4" ALARM

4" OUTLET TEE

LEVEL FLOAT CONTROL ASSEMBLY

SEPTIC TANK

PUMP TANK

6" CRUSHED STONE IN SOIL  
12" CRUSHED STONE IN ROCK

#4's @ 12" O.C.E.W. (TYP.)

# STEP (SEPTIC TANK EFFLUENT PUMP) SYSTEM

SIDE VIEW-TYPICAL PUMP TANK

SCALE: 3/4" = 1'-0"

TOWN OF SIGNAL MOUNTAIN, TN.  
STANDARD DETAILS

15