

Irrigation Deduct Meter Fact Sheet/Checklist
Revised 06/10/09

- | | |
|---|---|
| Inspection fee | <input type="checkbox"/> if checked then add \$200 |
| Relocate existing meter (if not in pit) | <input type="checkbox"/> if checked then add \$130 |
| Upgrade existing meter to RF (if ARB) | <input type="checkbox"/> if checked then add \$88 |
| Deduct meter & installation | <input type="checkbox"/> if checked then add \$281.25 |

Total Due Authority (add dollar amount for all checked boxes) \$ _____

For new irrigation system installations, when a plumber applies for an irrigation system permit, Horsham Township Code Enforcement will advise the plumber that his permit cannot be issued until the property owner has signed the attached acknowledgement. Once the signed acknowledgement has been returned to the Authority, we must fax a copy to Code Enforcement so they can release the permit.

For existing irrigation systems, property owners must provide a copy of the permit for the initial installation.

In order to utilize a deduct meter, the main meter and the deduct meter must be located in a dual meter pit or in separate meter pits. Homeowners are responsible to purchase and install the meter pit or pits and for the cost of all plumbing or plumbing modifications necessary in order to accommodate the deduct meter. If your main meter is not currently in a meter pit, the Authority will relocate it after your plumber has installed the appropriate meter pit arrangement.

If a pressure reducing valve is installed before your meter or is required for your property, the dual meter pit cannot be used. In this case, separate meter pits will be required; one for your PRV and primary meter and a second for the deduct meter and backflow device.

In lieu of a meter pit for the deduct meter, an above ground "hot box" may be utilized to house the deduct meter and backflow device. The "hot box" does not have to be heated if it is constructed with valves to allow for drainage of all piping for winterization purposes. A meter pit for the primary meter will still be required. Homeowners are responsible for all necessary winterization. If not winterized properly, the meter will freeze and will have to be replaced.

In addition to the above “start-up” costs, there is a \$2.36/quarter (90 days) minimum charge for all deduct meters to cover meter reading costs. This rate will change annually based on the consumer price index for the preceding year.

The rate for irrigation consumption is based on the then current purchased water rate. The current rate as of 1/1/09 is \$4.15 per 1000 gallons of irrigation consumption.

The use of irrigation systems leads to excess water usage far in excess of the total gallonage allocated for each EDU purchased. Therefore, property owners utilizing a deduct meter will also be charged a capacity rental charge to cover water system capacity used over the capacity allocated and paid by the tapping fee. This rental charge is based on the tapping fee currently in effect and is currently \$1.51 per thousand gallons.

All consumption through the deduct meter will be deducted from the total consumption through the main meter. The difference is the domestic/household consumption. Water and sewer charges will be calculated based on the domestic consumption. The deduct meter consumption will be billed separate from the domestic consumption for water only based on the irrigation water rate as above.

The deduct meter may be piped to the irrigation system ONLY. Outside hose bibs connected to the deduct meter are strictly prohibited and will automatically disqualify the deduct meter from reading and acknowledgement by the Authority.

All irrigation systems must be equipped with a testable backflow device. After the initial installation, backflow devices must be tested annually with test results provided to the Authority.

Plumbing configurations, meter pit installations, and backflow devices must be inspected and approved by the Authority before the deduct meter will be installed.

If the deduct meter or its electronic reading device fails, for any reason, property owners are responsible for then current replacement costs.

The Authority is not responsible for any lost deduct consumption due to a failed deduct meter or reading device, regardless of cause.

There are various configurations for deduct meter installations. Every deduct meter configuration must be inspected and approved by the Authority. Regardless of the type of configuration, there is a flat \$200 inspection fee which covers up to two (2) visits. Additional visits are charged at \$100 per inspection.

Is meter currently located in a meter pit? yes no

if yes, refer to configuration #1 directly below. If no, move on to next question.

1) Properties with primary meter already located in a meter pit (high or low pressure – high pressure is 80 psi or greater and should already have a PRV (pressure reducing valve) in meter pit:

- if primary meter is not currently RF, customer must upgrade. Cost \$88
- property owner hires plumber to install second meter pit after primary meter pit (figure 2/detail D2-A/B)
- after primary meter pit, plumber installs underground tee to second meter pit. Recommend shut off valve on irrigation side of the tee for purposes of draining irrigation system. Underground tee must be inspected by Authority personnel before backfilling (figure 2/detail D2-A/B)
- second meter pit contains deduct meter and testable backflow device (figure 2). RPZ backflow devices are prohibited in meter pits
- outlet from second meter pit piped directly & solely to irrigation system
- Alternative to second meter pit is to install “hot box”, which typically is heated to keep from freezing. Hot box does not need to be heated if equipped with appropriate fittings and ball valves for winterization. Hot box will contain the deduct meter and backflow device. RPZ backflow devices can be used with hot box installations (figure 3/detail D3-A/B)
- Authority personnel will inspect entire configuration. Once approved, Aqua will be advised to install deduct meter. Deduct meter cost: \$281.25(2009 price)
- backflow device must be tested annually at property owner expense

Is meter currently located in the home AND there is NO PRV before the meter?

yes no

if yes, refer to configuration #2 directly below. If no, move on to next question.

2) Properties with primary meter located in the home (low pressure – less than 80 psi):

- Meter must be relocated to either a dual meter pit (figure 1/detail D1-A/B), two separate pits (figure 2/details W23 or W24 and D2-A/B), or single meter pit with hot box for deduct meter and testable backflow device (RPZ backflow device can be used in hot box installations) (figure 3/details, W23 or W24 and D3-A/B). Cost to relocate meter to pit \$130, if not an RF meter, must be upgraded, add \$88. Plumber provides and installs meter pit(s) or hot box at customer cost.
- For double pits refer to figure 2/details W23 or W24 and D2-A/B
- For dual pit refer to figure 1/detail D1-A/B
- Authority personnel will inspect entire configuration. Once approved, Aqua will be advised to install deduct meter. Deduct meter cost: \$281.25 (2009 price)
- backflow device must be tested annually at property owner expense

Is meter currently located in the home AND there IS a PRV before the meter?

yes no

if yes, refer to configuration #3 directly below.

3) Properties with primary meter located in the home (high pressure – 80 psi or greater)(dual meter pit cannot be used for high pressure services because pit is not large enough for both meters, the PRV and the backflow device):

- primary meter must be relocated to single meter pit which will accommodate PRV and primary meter (figures 4 & 5/details W25 or W26). Cost to relocate meter to pit \$130, if not an RF meter must be upgraded, add \$88.
- plumber relocates PRV to primary pit before meter yoke (details W 25 or W26)
- Plumber provides and installs meter pit and PRV at customer cost.
- single outlet from primary pit to underground tee to second meter pit (figure 4/detail D2-A/B) or hot box (figure 5/detail D3-A/B). Recommend shut off valve on irrigation side of the tee for purposes of draining irrigation system. Underground tee must be inspected by Authority personnel before backfilling
- second meter pit contains deduct meter and testable backflow device (figure 4/detail D2-A/B) or hot box contains deduct meter and RPZ backflow device or other testable device (figure 5/detail D3-A/B). Hot box should have a fitting and ball valve so that the piping can be drained.
- outlet from second meter pit or hot box piped directly & solely to irrigation system
- Authority personnel will inspect entire configuration. Once approved, Aqua will be advised to install deduct meter. Deduct meter cost: \$281.25 (2009 price)
- backflow device must be tested annually at property owner expense

Figure 1

low pressure
dual pit

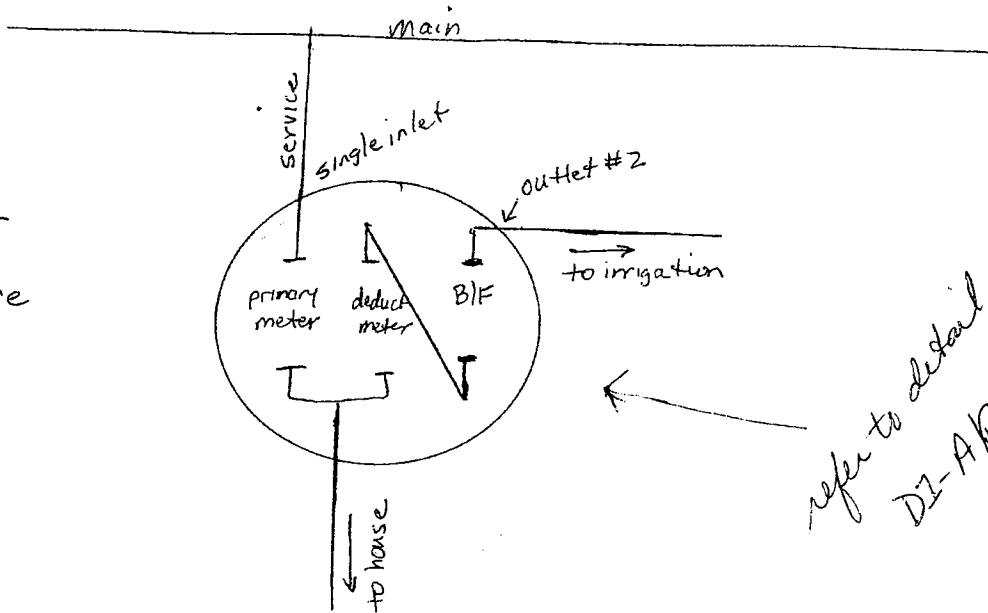


Figure 2

low pressure
existing meter pit
separate meter
pit for deduct
meter + backflow

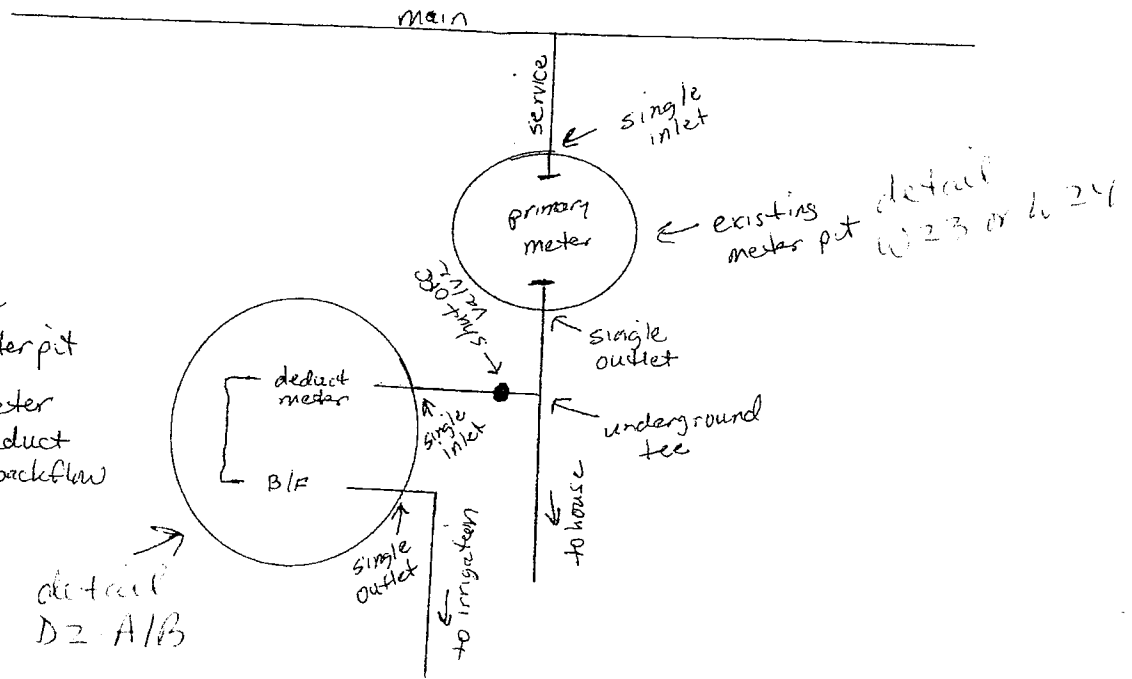


Figure 3

low pressure
one pit
one "hot box"
(unheated)
requires winterization
of irrigation systems

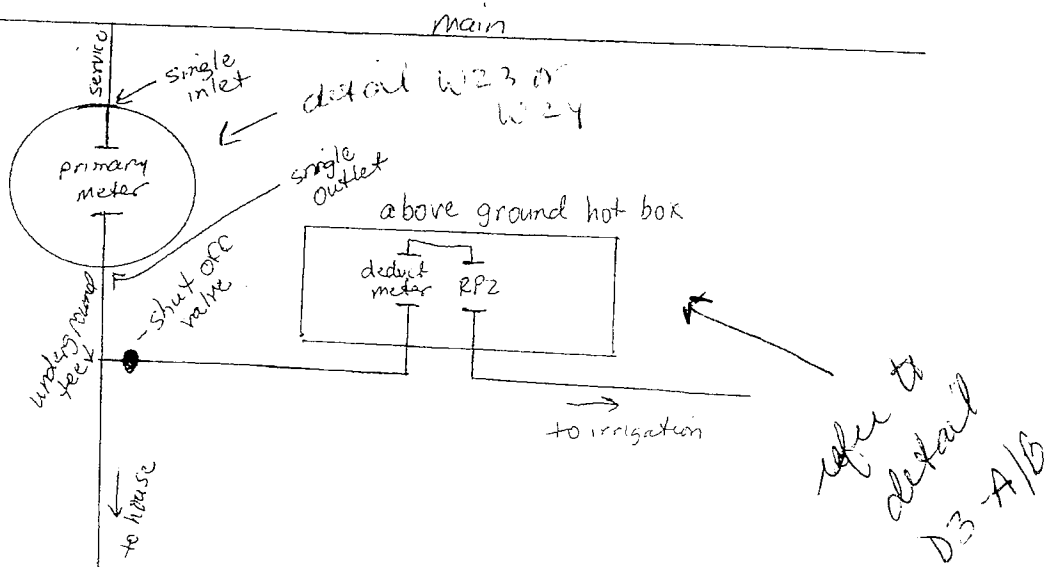


Figure 4

high pressure
2 pits

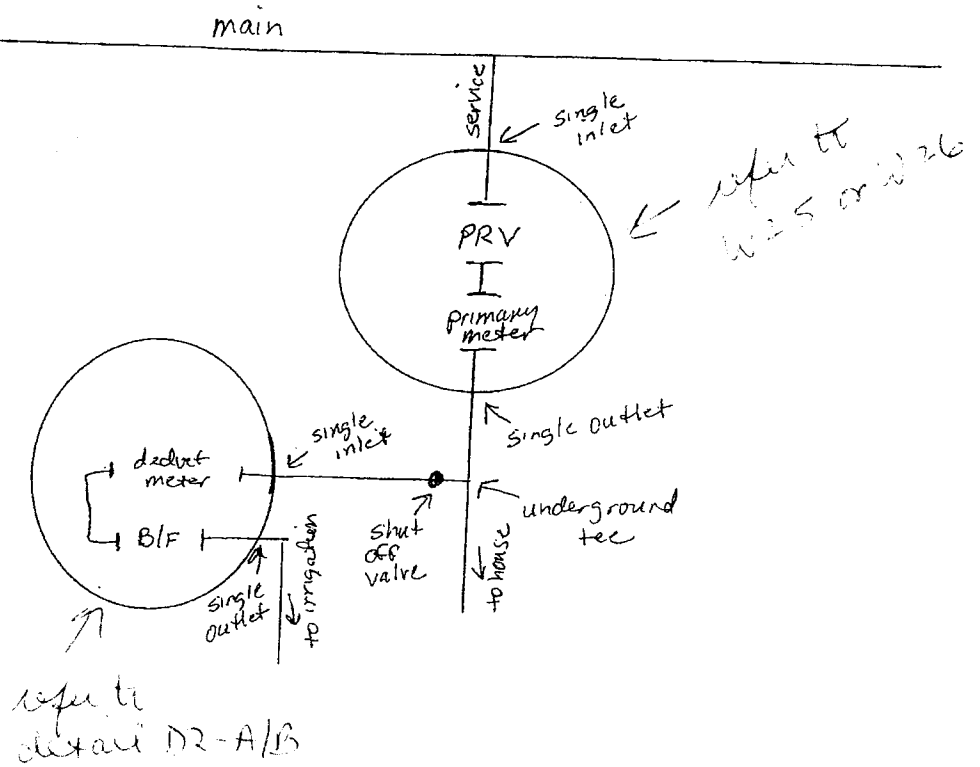
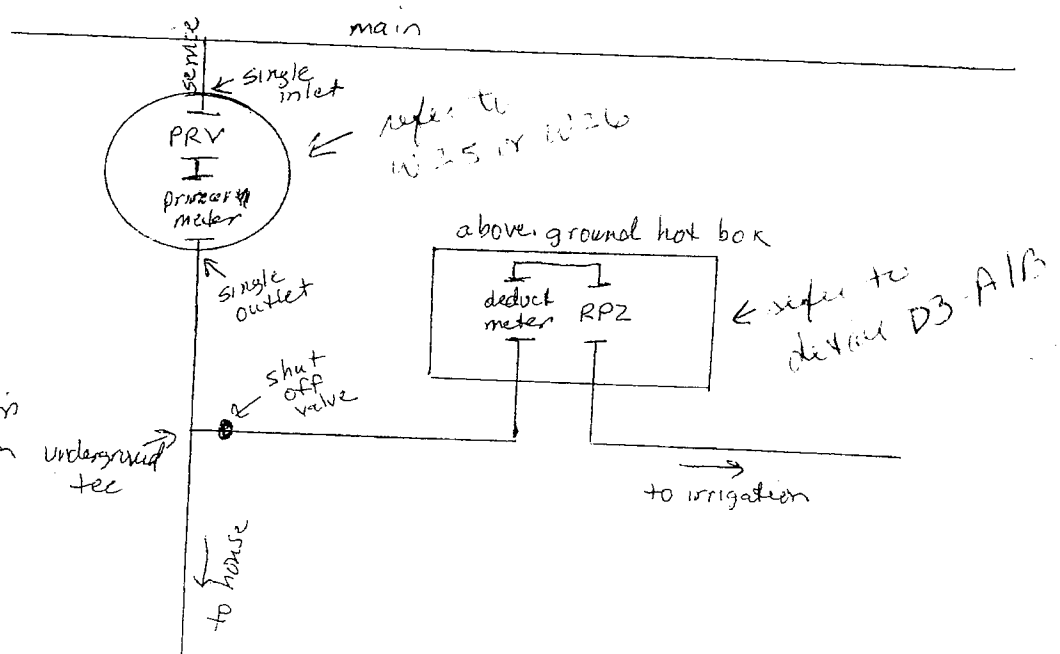


Figure 5

high pressure
one pit
one "hot box"
(unheated)
requires winterization
of irrigation system



* ALL backflow devices MUST be testable