

DETERMINE PLANTER BOX LOCATION

Determine how high on top of cinder blocks (and/or 4x4 blocks of wood) the planter box needs to be off the ground in relation to the stub.

- Bottom of the planter box needs to be a few inches higher than the stub
- Using a string level, determine planter box bottom height
- Underdrain hole needs to be 1 ¾ inches minimum from the bottom of the box

Determine planter box orientation and location based upon the following three (3) connections:

1. Diverter Connection

Two diverter options (convey water from the downspout into the top of the planter box):

1. Garden Water Saver – planter box needs to be less than 4 feet from downspout
2. Flexible – planter box needs to be located immediately adjacent to downspout so

2. Overflow Assembly

Overflow connection will be located at the back or side of the planter box.

- Overflow hole is located approximately 8 inches from the top of the planter box
- Overflow will convey water either:
 1. Directly (via 1" PVC Schedule 40 (PVC) pipe) to existing stub or
 2. Away from box and house via 1" PVC pipe (with 1 or 2 elbow joints) to a location in the yard away from the home
- Make sure top of overflow is about 2" below top level of box.

3. Underdrain Assembly

An overflow connection should be located at the back or side of the box and will convey water either:

1. Directly (via ball valve & garden hose leader) to existing stub or
2. Directed water away from the house via 1" PVC pipe (with an elbow)

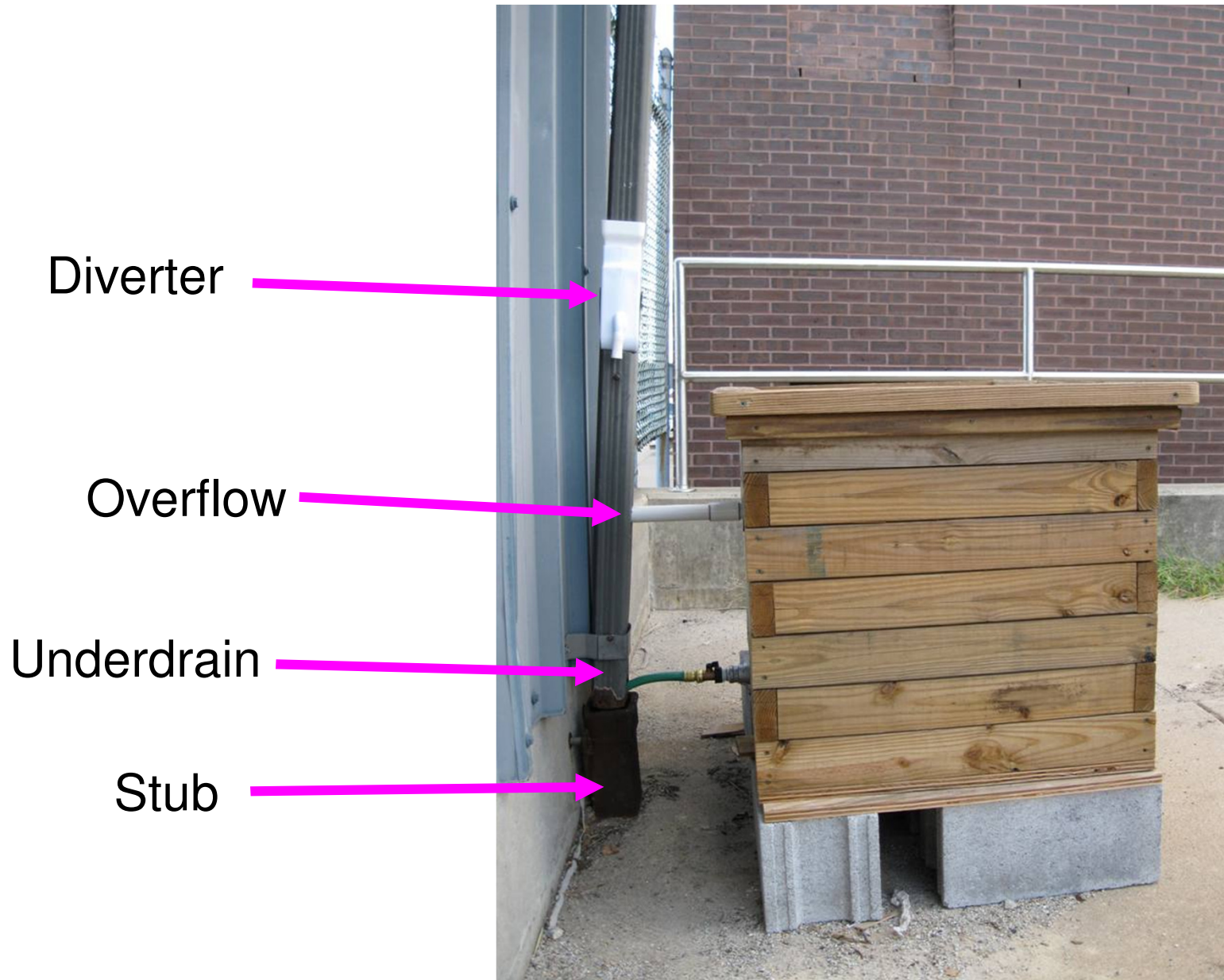
INSTALLATION STEPS

- 1. Have a lead advisor approve the planter box location/orientation & Underdrain Assembly parts/layout.**
- 2. Level the ground below the planter box.**
- 3. Place (5) five cinder blocks (and/or (4) four 4"x 4" wood blocks) in planter box location ensuring under drain pipe will be positioned a few inches higher than stub.**
- 4. Install Underdrain Assembly – parts are delivered dry fitted and need to be glued together with 2-part adhesive provided. Zip tie white filter fabric to cover/enclose perforated section of the underdrain pipe.**
- 5. Have lead advisor approve Underdrain Assembly & approve Overflow Assembly.**
- 6. Install Overflow Assembly.**
- 7. Add (3) three 50-lb bags of gravel to bottom of planter box (covering underdrain pipe).**
- 8. Cover gravel with black filter fabric.**
- 9. Add 12 inches of engineered soil mix by pre-mixing the following in a provided tub:**
 - (8) eight 50-lb bags of all purpose sand**
 - (3) three 5-gallon buckets of compost**
 - (1) one 50-lb bags of top soil**
- 10. Install plants – ask lead advisor for guidance (taller growing species in back, lower growing species in front)**
- 11. Add (1) one 0.5-cubic feet bag of river stone as a top mulch/energy dissipater (Ensure top of stone is 2" below top of overflow)**
- 12. Install Downspout Diverter**

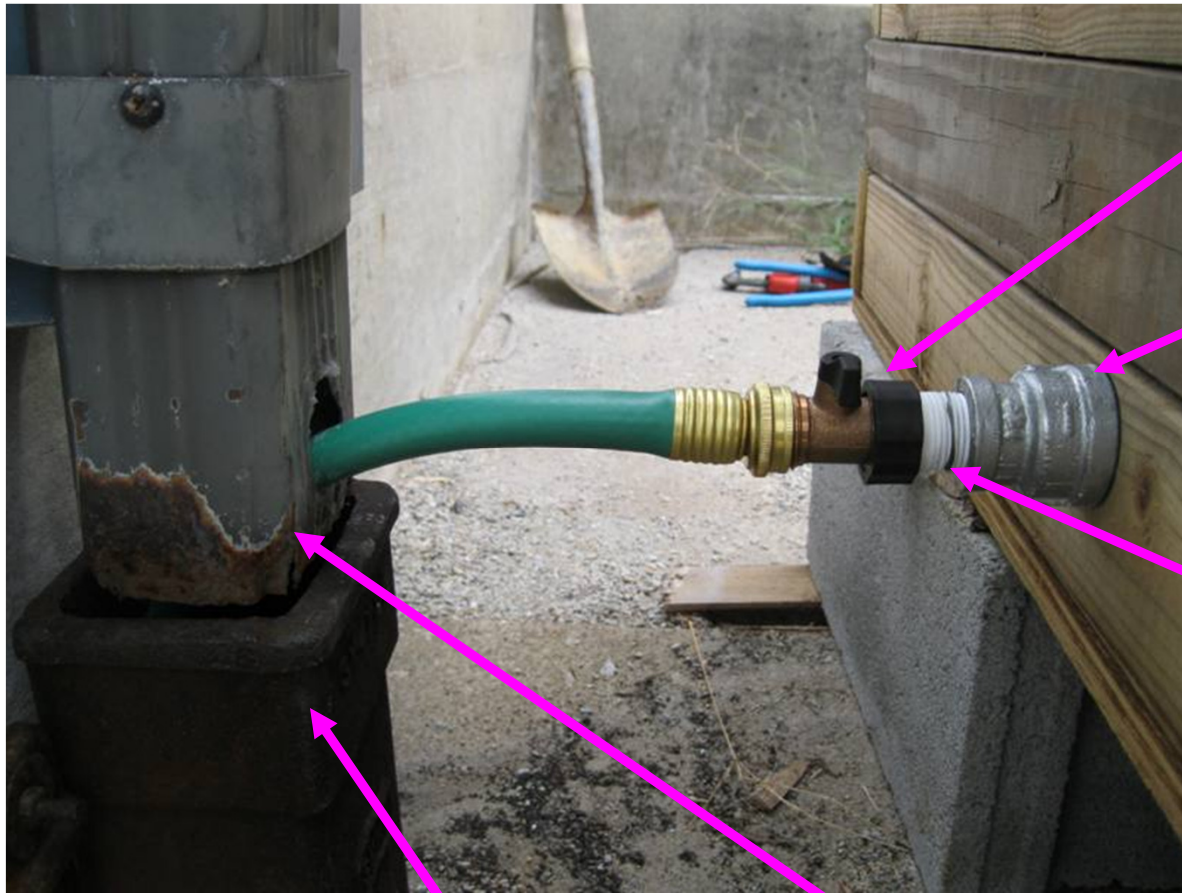
Tool List:

- (1) Battery powered electrical drill (with extension cord)
Multiple uses (diverter attachments, drill holes in planter box for plumbing, etc.)
- (1) 1 3/8-inch drill bit
To drill out underdrain hole and overflow hole
- (1) Utility knife
To cut 2 holes (1. for underdrain and 1. overflow) in pond liner
- (2) Channel lock wrenches
To tighten plumbing attachments
- (1) Hack saw (to cut
To cut downspout for diverter attachment
- (1) Tape measure
Misc.
- (1) X foot height ladder
Diverter attachment
- (1) String (twine)
Leveling/height determination of planter box in relation to stub height
- (1) Line level
Leveling/height determination of planter box in relation to stub height
- (1) Survey stake
Leveling/height determination of planter box in relation to stub height
- (3) 5-gallon buckets
Transport compost from delivery truck to assembly area

Flow Through Planter Box



Underdrain Assembly



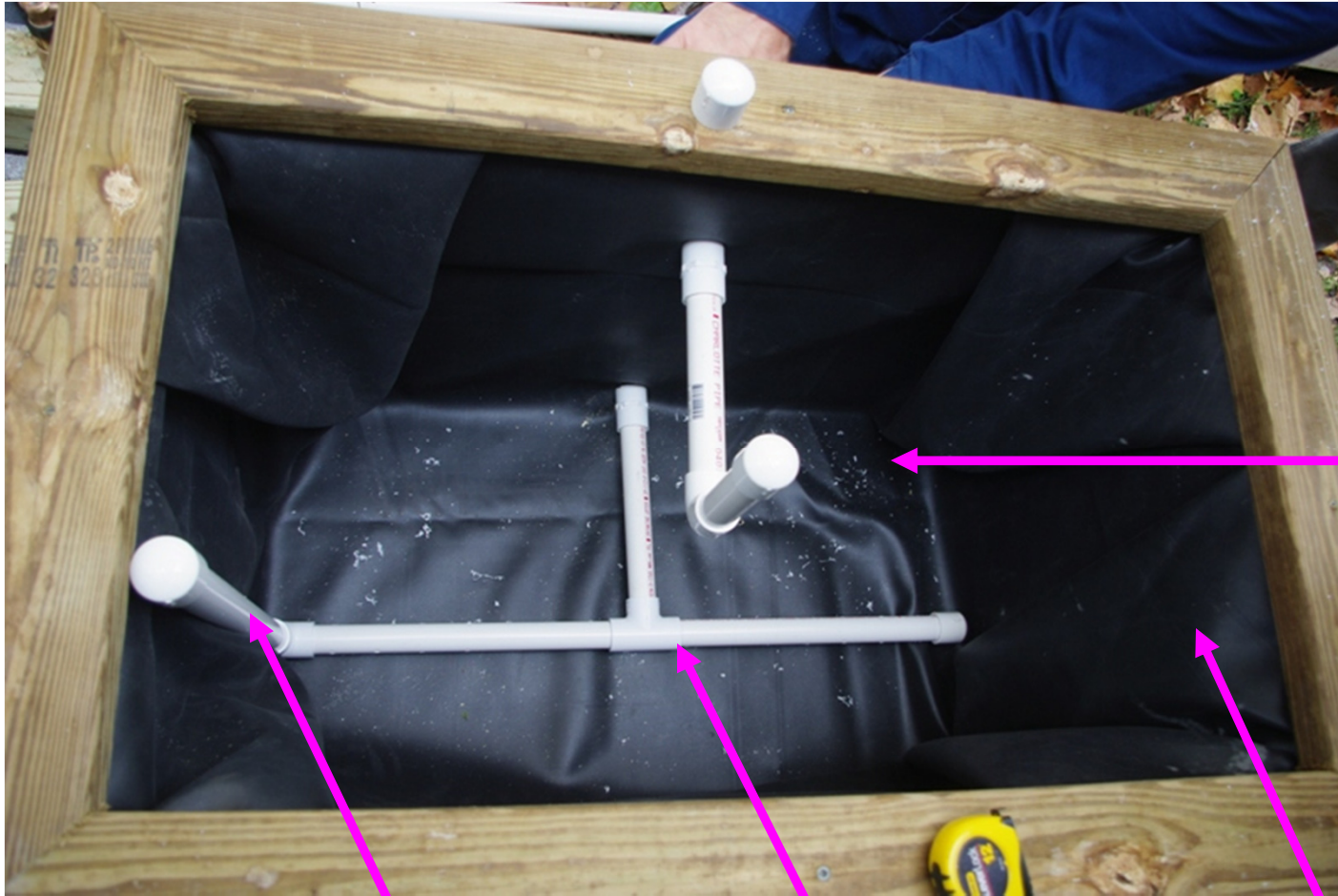
Flow valve

1" to 3/4" brass
reducer

3/4" nipple

Stub

Downspout



Overflow
assembly

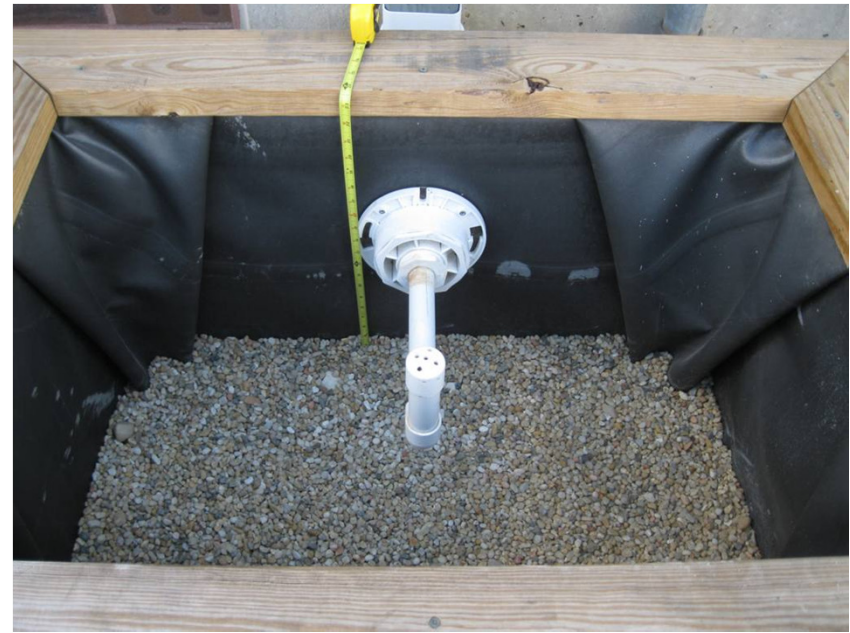
Cleanout riser for
underdrain

Underdrain assembly

Pond liner



1. Underdrain (w/fabric) & overflow plumbing installed.



2. Gravel filled to cover underdrain piping.



3. Filter fabric installed overtop gravel.



4. Soil mix (12 inches) installed with space for overflow stick up.