

JOHNSON COUNTY UNIFIED WASTEWATER DISTRICTS  
INFILTRATION/INFLOW REMOVAL STANDARDS

1. Electrical Specifications

- A. All new sump pump installations will require a dedicated ground fault interrupt circuit (must be specified on bid).
- B. All modifications to existing sump pump installations must be upgraded to comply with No. 1.A. above (must be specified on bid).

2. Outside Sump Pump Installations

- A. All outside pits will be sealed and a minimum of 30" in-depth.
- B. An approved flush fitting metal cover, minimum thickness of 1,875" (3/16") is required on all outside installations. Covers must be approved by the Districts before they are installed.

3. Inside Sumps

- A. Pits located immediately adjacent to doorways or traffic areas will be equipped with an approved metal cover.
- B. Pit style (sealed or unsealed) must be specified on bids.

4. Sump Pump Discharges

- A. All underground discharges will have a tee connection with a riser and cleanout cap installed at or near the exit point from the building (see discharge drawing).
- B. All underground discharges entering storm sewers or storm ditches will be equipped with backflow prevention and a pressure relief system to prevent backups (see discharge drawing).
- C. Sump pump discharge points must comply with local regulations. Check with the appropriate city if there are any questions.
- D. Where no storm drainage is available, i.e. storm pipe, inlet, or ditch, a perforated discharge pipe bedded in gravel and/or terminating in a lateral should be bid if no other alternatives exist.

5. Negative Grade Discharges
  - A. Weep hole size on discharge has been reduced to 1/16".
  - B. Minimum depth has been reduced from 42" to 36" deep.
6. Combination Sumps (Any existing sump pit with a sanitary source discharging to it, including floor drains, laundry, showers, etc.)
  - A. Floor drains discharging to sump pits must be permanently plugged or separate facilities provided to insure that no flow drain will discharge to daylight.
7. Maintenance of Systems
  - A. Homeowners should be provided operating and maintenance manuals for sump pumps, backup systems, etc.
  - B. Homeowners should be instructed that periodic maintenance is required of these systems, i.e. keeping leaves and other solids out of pits, and regularly operating backup systems to insure continuous operation.
8. Bids to Contain the Following
  - A. Point of exit (i.e., NE corner, SW corner, etc.)
  - B. Type of discharge (solid pipe, perforated pipe, etc.)
  - C. Point of discharge (splash block, catch basin, storm pipe, storm ditch, daylight, drywell, etc.)
  - D. Site sketch - a sketch showing exit point of discharge piping, length of discharge and discharge point, electrical routing and any other pertinent information should be submitted on a separate 8 1/2" X 11" sheet.