

# TOP 10 PLUMBING DEFECTS

1

## LOCATION OF CLEAN OUTS

### 59 DEFECTS FOR CLEAN OUT REQUIRED

- 20 on branch line
- 17 on stack
- 12 on building drain
- 10 building drain change of direction > 135 degrees



2

## EXPANSION JOINTS

### 58 - EXPANSION JOINT REQUIRED



3

## PROTECTION OF PIPING

### 51 - STRIKER PLATES REQUIRED

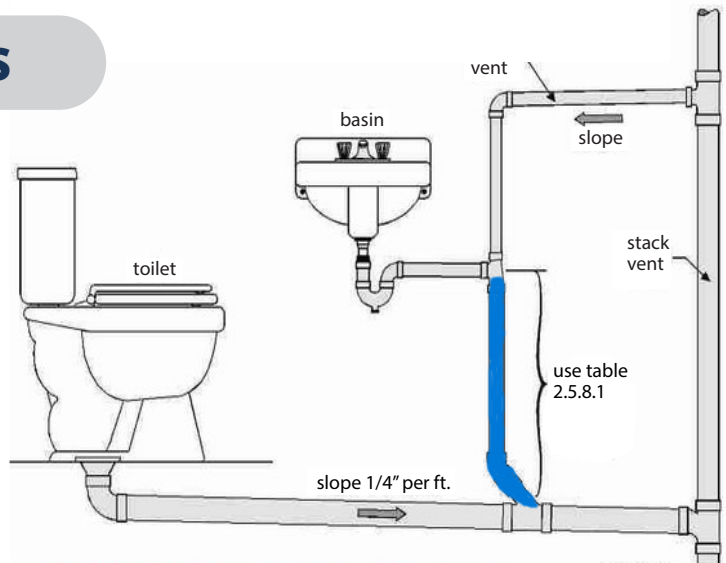


# 4

## WET VENTING ISSUES

### 47 IMPROPER WET VENTING

- 29 - undersized wet vent
- 18 - wet vented fixture downstream of a water closet



# 5

## PROTECTION OF POTABLE WATER

### 43 - HOSE BIBB VACUUM BREAKER REQUIRED

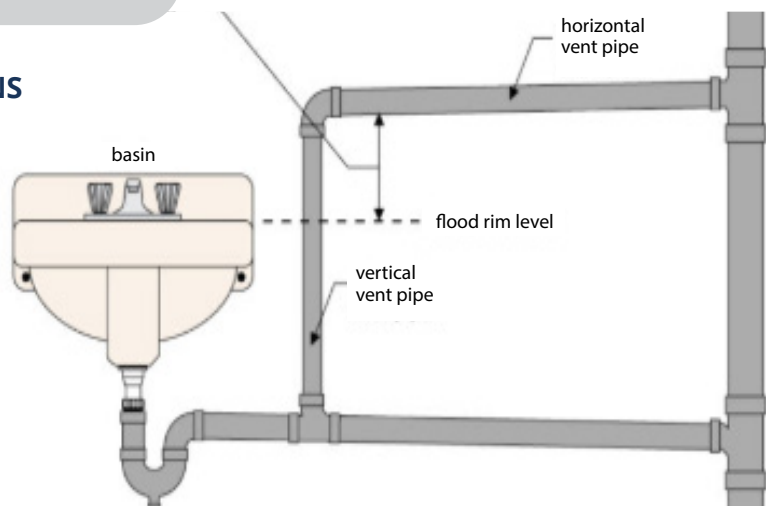


# 6

## VENT CONNECTIONS

### 43 DEFECTS FOR VENT CONNECTIONS

- 32 - vent not tied in above flood level
- 11 - vent not taken off above center line of drain

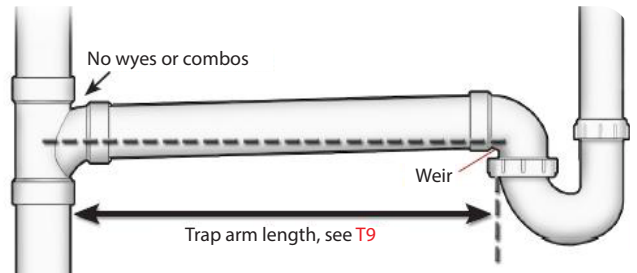


# 7

## TRAP ARM ISSUES

### 40 TRAP ARM DEFECTS

- 23 - fall exceed pipe diameter
- 11 - length of trap arm is less than 2 times diameter of the fixture drain
- 6 - greater than 135 degrees change of direction

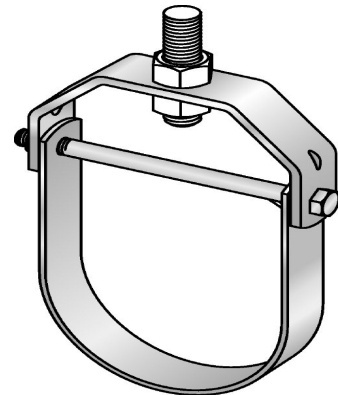


# 8

## SUPPORT REQUIRED

### 33 DEFECTS FOR INADEQUATE SUPPORT OF PIPING, APPARATUS, OR EQUIPMENT

- 22 - support of DWV piping
- 8 - support water piping or equipment
- 3 - support of pump discharge piping



# 9

## UNVENTED FLOOR DRAINS

### 28 - FALL EXCEEDS PIPE DIAMETER OR LESS THEN 18 INCHES



# 10

## BACK FLOW PROTECTION

### 16 - BACKWATER VALVE REQUIRED ON BRANCH LINE

