

## **FORCED BASEMENT WALKOUTS WHERE EXTERIOR PATIO SLAB IS BELOW WALKOUT GRADE**

### **1) Uncovered Walkout**

- a) not allowed unless storm water drainage system is designed by an engineer which would include the following:
- b) minimum 2 floor area drains
- c) anticipated water volume calculations
- d) size and type of storm water drainage pipe
- e) size and capacity of storm drainage sump pit
- f) size and location of discharge pipe and outlet location
- g) emergency power system for storm water sump pump

### **2) Covered Walkout**

Minimum 2 – 4" floor area drains that drain:

- a) by gravity to daylight or
- b) by minimum 4" solid pipe to separate storm water sump pit, not to the basement drain tile sump pit.

### **3) Storm Water to Dry Well**

- a) the above items 1) or 2) could be drained to an engineered drywell
- b) calculations of design storm water volume to be provided
- c) engineer to provide verification that fluctuation of water table will not affect capacity of dry well
- d) dry well water volume capacity and design safety factor to be included

### **4) Small uncovered basement stair landing**

- a) requires floor area drain that could drain to weeping tile