



**VALVE BOX (VB) ADJUSTMENT PROCEDURES:**

1. The first step in avoiding any potential conflict between a proposed storm system design and an existing utility pipe is confirmation of the exact horizontal and vertical location of the existing utility pipe. Per industry standard best management practices, the storm system designer should have the existing utility pipe exposed and survey the exact horizontal location and vertical elevation prior to designing the storm system, thus allowing conflicts to be avoided as much as possible, or, when needed, utility relocations designed into contract.
2. Maintain at least 6" of vertical separation as shown from the exterior of the storm pipe to the exterior of the utility pipe. In situations where 6" cannot be provided, then E.C.U.A. will determine if less than 6" will be allowed. Separations less than 3" are generally not allowed.

**NOTES FOR STORM SYSTEM INSTALLATION:**

3. Contractor shall layout storm system piping such that midpoint of storm pipe segment is centered over utility pipe as much as practical. Bell and spigot ends of storm pipe shall be kept as far away from utility pipe as possible.
4. In order to 'bridge' utility pipe, Contractor shall compact soil under entire segment of storm pipe that is over utility pipe to 98% modified Proctor for a depth of 12" below storm pipe, while taking care not to damage utility pipe. Fill space between utility pipe and storm pipe with loose fill and hand tamp.



*PROPOSED*

SCALE: N.T.S.  
DATE: 12/18/14

**STORM SEWER VERTICAL SEPARATION**

DETAIL

**D-66**