



## DEVELOPMENT SERVICES CENTER



### DSC Information Notice #193 July 12, 2012

#### **Topic: Revisions to DPU Standard Detail 16-2: Detector Check and Domestic Meter Layout**

#### **Background**

The City of Virginia Beach Department of Public Utilities (DPU) Standard Details 16-1 and 16-2 outline the sequence of installation and responsibilities of the parties involved in the design and installation of detector check and domestic meter assemblies. A clear outline of this process is necessary in order to successfully coordinate the installation of the assemblies between the developer's contractor and the City of Virginia Beach. This notice further defines the installation process and modifies the layout of the assemblies to improve ease of installation and operating efficiency.

#### **Discussion**

Until such time that the standards are updated, PU Standard Detail 16-2 shall be replaced with the following:

#### **DETECTOR CHECK/DOMESTIC METER STANDARD RESPONSIBILITY**

##### *Engineer's Responsibility (Design)*

- A1. Determine domestic and fire flow requirements.
- A2. Design public side so as not to conflict with existing and proposed utilities.
- A3. Use tees for same size taps, i.e. 8" x 8"
- A4. Provide easement as necessary. A 15' x 15' minimum maintenance area is required. This is to include right of way and easement area. Any required easement shall be dedicated and recorded prior to installation of the detector check and domestic meter assemblies.

- A5. Maximum depth of service lines in the maintenance area shall be 36". Fire service and/or domestic service larger than 2" shall have from 30" to 36" of cover from finished grade at the box. Curb stops for domestic meters 1" and smaller shall have 12" of cover from finished grade at the box. Curb stops for 1 1/2" and 2" domestic meters shall have 12" to 14" of cover from finished grade at the box.
- A6. Lines 2" and smaller shall be type "K" soft copper. 3" lines may be either type "K" soft copper or ductile iron. Lines 4" and larger shall be ductile iron.
- A7. A corporation stop shall be installed for all service lines 2" and smaller. Either a tapped tee or double strap service clamp (tapping saddle) from the PU Approved Products List shall be used for 1 1/2" or 2" taps. A branch valve shall be installed on all ductile iron domestic service lines (not shown in PU Detail No. 16-1).
- A8. Flanged locking type curb stops shall be used for 1 1/2" and 2" domestic meters. Locking type curb stops shall be used for 5/8" and 1" domestic meters. Service lines larger than 2" shall be capped or plugged.
- A9. Boxes shall not be located in paved areas, swales or berms.
- A10. Provide a site specific detail of the detector check installation on the plan. Show all existing and proposed utilities in plan and profile.
- A11. 90 degree bends shall not be used.

***Owner's/Contractor's Responsibility (Construction)***

- B1. If public water main shut down is required, PU Inspections must be contacted to schedule the shut down.
- B2. Install all pipe work in sequence shown on detail. Until installation of the detector check and domestic meter, a minimum 10' gap shall be maintained between the valve on the fire service line and any private fire service piping installed. Similarly, this 10' gap shall be maintained between the curb stop on the domestic service line and any private domestic service piping installed.
- B3. Test the public mains as directed by PU Inspections.
- B4. Excavate areas where detector check and domestic meter are to be installed. Excavated areas shall be maintained until installation of the detector check and domestic meter is completed (Note: see A4). Provide finished grade stakes on either side of the work area. Install 8" #57 stone base within excavations. Finished grade of #57 stone shall be 8" below bottom of pipe.
- B5. Call 385-4171 to schedule onsite meeting with PU Inspections and PU Operations for approval to have detector check/domestic meter installed. Call 385-1400 for detector check/domestic meter installation once onsite meeting has been conducted and public mains have been released.

- B6. Connect on-site utilities to the detector check and/or domestic meter assembly.
- B7. Contact PU Customer Service to activate the system.
- B8. Set meter boxes/vaults to finished grade.

***City's Responsibility***

- C1. Provide detector check vault, domestic meter box/vault, and one course of block for Owner/Contractor to install.
- C2. Install detector check and domestic meter assemblies.

**Effective Date: Immediately**

**For More Information, Please Contact:**

Donald Piron, P.E. ([dpiron@vbgov.com](mailto:dpiron@vbgov.com)) .....(757) 385-8478  
Greg Mathews ([gmathew@vbgov.com](mailto:gmathew@vbgov.com)) .....(757) 385-8765  
James Cherry, P.E. ([jcherry@vbgov.com](mailto:jcherry@vbgov.com)) .....(757) 385-1439  
David West ([dlwest@vbgov.com](mailto:dlwest@vbgov.com)) .....(757) 385-1433  
Robert Hembree ([rwhembre@vbgov.com](mailto:rwhembre@vbgov.com)) .....(757) 385-1508