



WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL	WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL	WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL	WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL	WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL	WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL
<b>SINGLE RESIDENTIAL WATER SERVICE (NEW DEVELOPMENT)</b> (LINE PRESSURE UNDER 100 PSI) 02/01/14 W-1	<b>DOUBLE RESIDENTIAL WATER SERVICE (REPLACEMENT OF EXISTING SERVICE)</b> 02/01/14 W-4E	<b>WATER LINE VALVE &amp; VAULT</b> 01/01/14 W-9	<b>TEMPORARY END OF LINE BLOW-OFF ASSEMBLY</b> 01/01/14 W-11	<b>COMBINATION AIR VALVE ASSEMBLY</b> 02/01/15 W-13	<b>VAULT FRAME AND COVER</b> 01/01/14 W-16
<p>1. PUBLIC HYDRANTS SHALL BE PAINTED SILVER WITH AN OIL-BASED PAINT. PRIVATE HYDRANTS SHALL ALSO BE PAINTED SILVER WITH AN OIL-BASED PAINT UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL FIRE MARSHAL.</p> <p>2. FIRE HYDRANT SHALL BE INSTALLED 2 MIN. AND 4 MAX. FROM BACK OF CURB OR 6 MIN. AND 12 MAX. FROM EDGE OF PAVEMENT WHEN CARS ENJOY PRESENT. FIRE HYDRANT TO BE INSTALLED WITH RIGHT-OF-WAY OR EASEMENT LINE.</p> <p>3. AREA AROUND HYDRANT AT A RADIUS OF 6' TO BE LEVEL AND UNOBSTRUCTED.</p> <p>4. WATERPROOF BAGS OR OUT OF SERVICE RINGS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.</p> <p>5. HYDRANT ASSEMBLIES SHALL BE ROODED AND RESTRAINED WITH APPROVED M.J. GLAND RESTRAINTS. HIGH PRESSURE OVER 150 PSI ALSO REQUIRES CONCRETE THRUST BLOCKS AS SHOWN BELOW.</p> <p>6. IF DURING CONSTRUCTION THE PARTICIPATING UTILITY WILL BE NOTIFIED IMMEDIATELY SO THAT THE HYDRANT CAN BE RELOCATED TO A SUITABLE LOCATION, OUTSIDE OF THE GRAVE HOLE PLUGGED.</p> <p>7. TWO WIRTS OF TRACER WIRE SHALL BE WRAPPED AROUND BASE OF HYDRANT.</p> <p>8. APPROVED MODELS - AVM MODEL 2780, APC MODEL B-84-B, MUELLER CONDUIT 442, KENNEDY K810 OR EQUIVALENT.</p> <p>9. WHERE HYDRANT LATERALS IS APPROVED BY THE PARTICIPATING UTILITY TO BE LONGER IN LENGTH, MAKING THE CONTINUOUS SECTION OF PIPE ON EACH SIDE OF THE GATE VALVE UNDESIRABLE. BEST PRACTICE JOINTS SHALL BE INSTALLED BETWEEN THE TEE AND GATE VALVE IN LINE OF JOINTING. HOWEVER, A ROODED CONTINUOUS SECTION OF PIPE SHALL ALWAYS BE INSTALLED BETWEEN THE GATE VALVE AND HYDRANT.</p>	<p>1. PUBLIC HYDRANTS SHALL BE PAINTED SILVER WITH AN OIL-BASED PAINT. PRIVATE HYDRANTS SHALL ALSO BE PAINTED SILVER WITH AN OIL-BASED PAINT UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL FIRE MARSHAL.</p> <p>2. FIRE HYDRANT SHALL BE INSTALLED 2 MIN. AND 4 MAX. FROM BACK OF CURB OR 6 MIN. AND 12 MAX. FROM EDGE OF PAVEMENT WHEN CARS ENJOY PRESENT. FIRE HYDRANT TO BE INSTALLED WITH RIGHT-OF-WAY OR EASEMENT LINE.</p> <p>3. 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HOWEVER, A ROODED CONTINUOUS SECTION OF PIPE SHALL ALWAYS BE INSTALLED BETWEEN THE GATE VALVE AND HYDRANT.</p>	<p>1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING AND DOCUMENTED BY THE INSPECTOR FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED.</p> <p>2. RESTRAINED LENGTH SHOWN REFERS TO ANY DESIGNED OR POTENTIAL LINE STOP, INCLUDING ALL GATE VALVES.</p> <p>3. RESTRAINED LENGTH SHOWN REFERS TO THE BRANCH LINE ONLY. THE CONTINUOUS PIPE LENGTH OF THE MAIN RUN SHALL BE A MINIMUM OF 10' ON EACH SIDE OF THE TEE.</p> <p>4. RESTRAINED LENGTH SHOWN IS BASED ON REDUCING PIPE DIAMETER TO ONE SIZE SMALLER THAN PIPE LISTED (ANY OTHER DIAMETER REDUCTION WILL REQUIRE ADDITIONAL CALCULATIONS BEFORE INSTALLATION). RESTRAINED LENGTH SHOWN IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER.</p> <p>5. 12" AND SMALLER DIAMETER: IF UNDER 150 PSI WORKING PRESSURE, RESTRAINED JOINTS ARE TO BE USED. IF EQUAL TO OR OVER 150 PSI WORKING PRESSURE, BOTH THRUST BLOCKS AND RESTRAINED JOINTS SHALL BE USED.</p> <p>6. LARGER THAN 12" DIAMETER: IF UNDER 150 PSI WORKING PRESSURE, RESTRAINED JOINTS ARE TO BE USED. IF EQUAL TO OR OVER 150 PSI WORKING PRESSURE, BOTH THRUST BLOCKS AND RESTRAINED JOINTS SHALL BE USED (UNLESS OTHERWISE APPROVED BY THE PARTICIPATING UTILITY).</p> <p>7. FOR RESTRAINED JOINT PIPING REQUIREMENTS AT FITTING R.J. PVC AND R.J. DIP MAY BE USED INTERCHANGEABLY WITH APPROVAL FROM PARTICIPATING UTILITY. CONTRACTOR MUST PLAN ACCORDINGLY FOR THE DIFFERENCE IN PVC AND DIP BELL AND SPIGOT DIMENSIONS.</p>	<p>1. TAPPING SLEEVE SHALL BE POWERFLEX MODEL 3490 TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE, ROMAC'S MODEL 387, FORD MODEL FTSS WITH CARBON STEEL FLANGE OR APPROVED EQUIVALENT. SLEEVE SHALL BE RATED AT 100 PSI OVER WORKING PRESSURE AND MUST HAVE A TEST PLUS.</p> <p>2. TAPPING VALVE SHALL BE AVK RESILIENT SEATED GATE VALVE SERIES 25 M.J. MUELLER T-2300 RESILIENT NEEDLE VALVE WITH 1/2" NPT AND 1/2" NPT SERIES 2300 RESILIENT NEEDLE TAPPING VALVE WITH M.J. VALVE SHALL BE RATED AT 250 PSI.</p> <p>3. TAPPING SLEEVE AND VALVE SHALL BE FULL PORT TO ACCEPT FULL SIZE SLEEVE CUTTER.</p> <p>4. STEEL FLANGE SHALL MEET AWWA C207.</p> <p>5. SIZE-ON-SIZE TAPPING NOT ALLOWED UNLESS APPROVED BY PARTICIPATING UTILITY.</p>	<p>1. A 1" DRAIN WILL BE REQUIRED ON THE LOWER END OF THE CASING PIPE.</p> <p>2. SPACERS SHALL BE RACH HOPE SPACERS OR EQUIVALENT. STAINLESS STEEL SPACERS MAY BE USED IF IN COMPLIANCE WITH THE FOLLOWING CRITERIA:</p> <ul style="list-style-type: none"> <li>INTERIOR SURFACES OF THE CIRCULAR STAINLESS STEEL BAND SHALL BE LINED WITH EPDM OR NEPRENE MATERIAL.</li> <li>ABRASION RESISTANT RUNNERS/SIDINGS SHALL BE POLYMER MATERIAL WITH EACH END BEVELED TO FACILITATE EASE OF INSTALLATION INTO CASING PIPE.</li> </ul> <p>3. SPACERS SHALL BE SPACED AT 12" ON SENIOR PIPE.</p> <p>4. CARRIER PIPE SHALL BE DUCTILE OR HOPE IN ACCORDANCE WITH REGIONAL STANDARDS.</p> <p>5. IF HOPE CARRIER PIPE IS USED AND PRECISE GRASSES ARE NOT REQUIRED THROUGH CASING, SPACERS MAY BE OMITTED.</p> <p>6. CASING PIPE TO BE STEEL IN ACCORDANCE WITH VDOT STANDARD DETAIL EP-1 OR HOPE AS SPECIFIED IN THE STANDARDS IF APPROVED BY THE PARTICIPATING UTILITY.</p> <p>7. CONCRETE CASING PIPE WILL NOT BE ALLOWED.</p> <p>8. DIAMETER OF CASING PIPE SHALL BE SHOWN IN THE TABLE BELOW UNLESS OTHERWISE SPECIFIED BY THE PARTICIPATING UTILITY. WHERE SPACERS ARE NOT REQUIRED, CASING PIPE SHALL BE MINIMUM DIAMETER TO ADEQUATELY INSTALL AND PASS CARRIER PIPE THROUGH AND TO MINIMIZE VOID SPACE BETWEEN CARRIER AND CASING PIPES.</p>	<p>1. ALL WATER FACILITIES SHALL BE INSTALLED ACCORDING TO THE WESTERN VIRGINIA WATER AUTHORITY (WVWA) DESIGN AND CONSTRUCTION STANDARDS (LATEST REVISION).</p> <p>2. ALL DRIVEWAYS, CULVERTS &amp; MAILBOXES MUST BE RESTORED TO EXISTING CONDITIONS AFTER CONSTRUCTION IS COMPLETED. ANY CHANGES TO EXISTING CONDITIONS MUST BE APPROVED BY WVWA.</p> <p>3. ALL CONNECTIONS TO EXISTING WATER MAINS SHALL BE COORDINATED WITH THE WVWA.</p> <p>4. A MINIMUM COVER OF 3 FEET IS REQUIRED OVER PROPOSED LINES, EXCEPT WHERE SHOWN.</p> <p>5. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING VALVE VAULTS AFTER PAVING AND ADJUSTMENT TO FINAL GRADE IF NECESSARY.</p> <p>6. ALL EXISTING UTILITIES MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER WORKS REGULATIONS WHERE LINES CROSS.</p> <p>7. ALL EXCAVATION, BACKFILL AND PAVEMENT REPLACEMENT IN THE VDOT RIGHT OF WAY SHALL BE REPLACED IN ACCORDANCE WITH THE LUP-SP &amp; LUP-OC PROVISIONS.</p> <p>8. ALL TRENCHES IN EXISTING RIGHT OF WAYS SHALL BE COMPACTED ACCORDING TO VDOT STANDARDS.</p> <p>9. ALL WATER MAINS SHALL BE C900 PVC IN ACCORDANCE WITH AWWA EXCEPT THROUGH BORED SECTIONS, WHICH MAY BE DR-11 HDPE.</p> <p>10. ALL PAVEMENT CUTS SHALL BE SAW CUT AND EDGES TACK COATED PRIOR TO PAVING.</p> <p>11. THE CONTRACTOR SHALL FLUSH AND DISINFECT IN ACCORDANCE WITH AWWA SPECIFICATION C651, LATEST REVISION.</p>

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