

- 1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING AND DOCUMENTED BY THE INSPECTOR FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED.
- 2. RESTRAINED LENGTH SHOWN REFERS TO ANY DESIGNED OR POTENTIAL LINE STOP, INCLUDING ALL
- 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.
- 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.
- 5. <u>12" AND SMALLER DIAMETER</u>: IF UNDER <u>150</u> PSI WORKING PRESSURE, RESTRAINED JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 150 PSI WORKING PRESSURE, BOTH THRUST BLOCK(S) AND RESTRAINED JOINT(S) SHALL

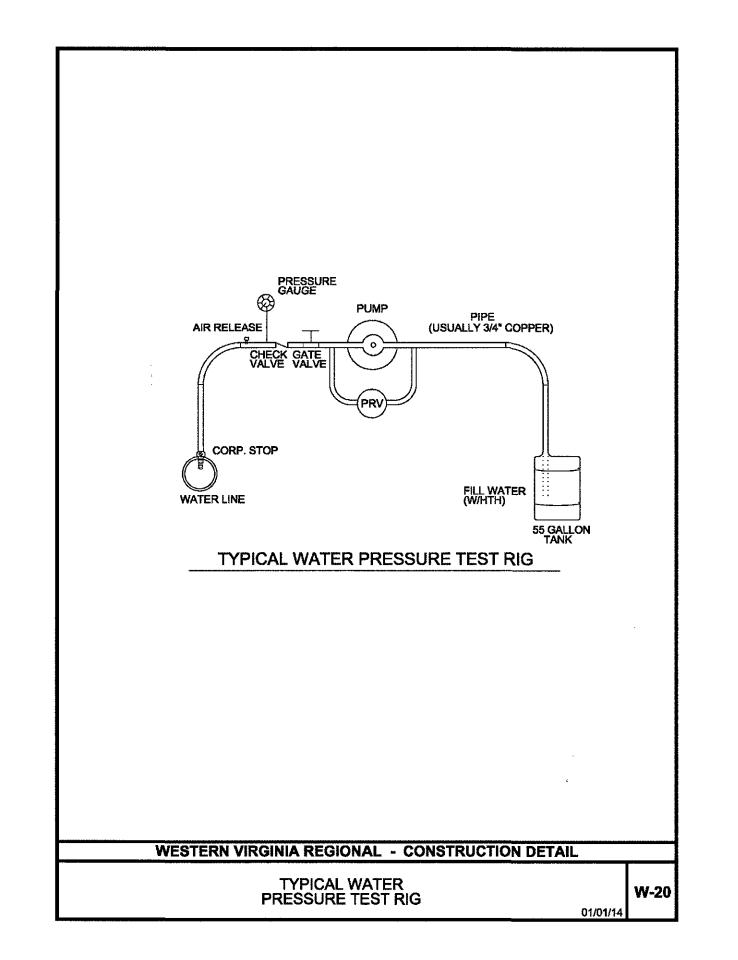
BE USED.

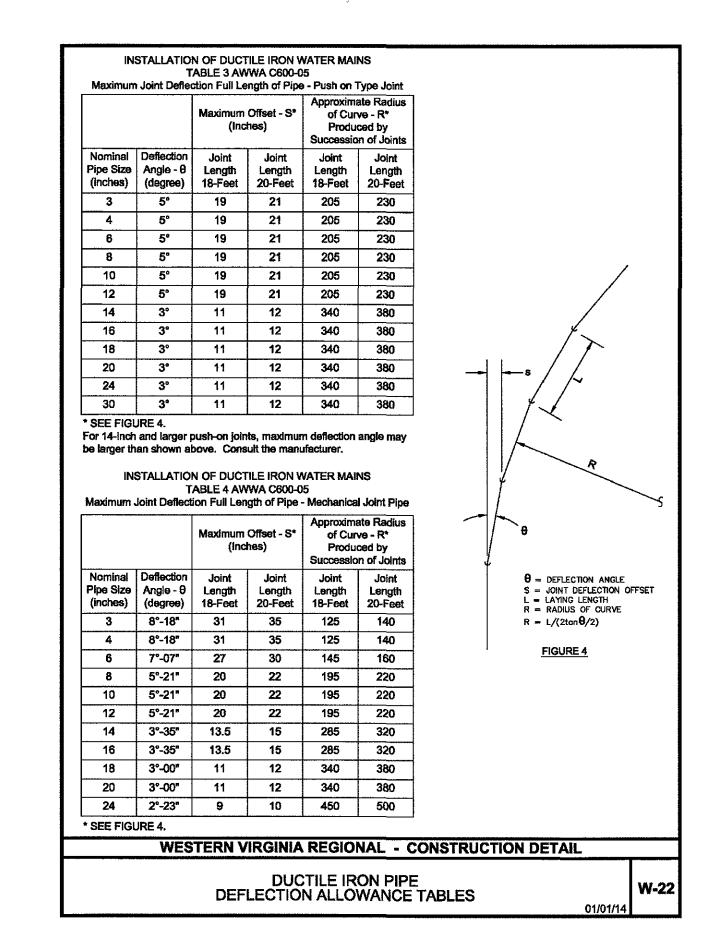
- LARGER THAN 12" DIAMETER: IF UNDER 100 PSI WORKING PRESSURE, RESTRAINED JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK(S) AND RESTRAINED JOINT(S) SHALL BE USED (UNLESS OTHERWISE APPROVED BY THE PARTICIPATING UTILITY).
- 6. FOR RESTRAINED JOINT PIPING REQUIREMENTS 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.

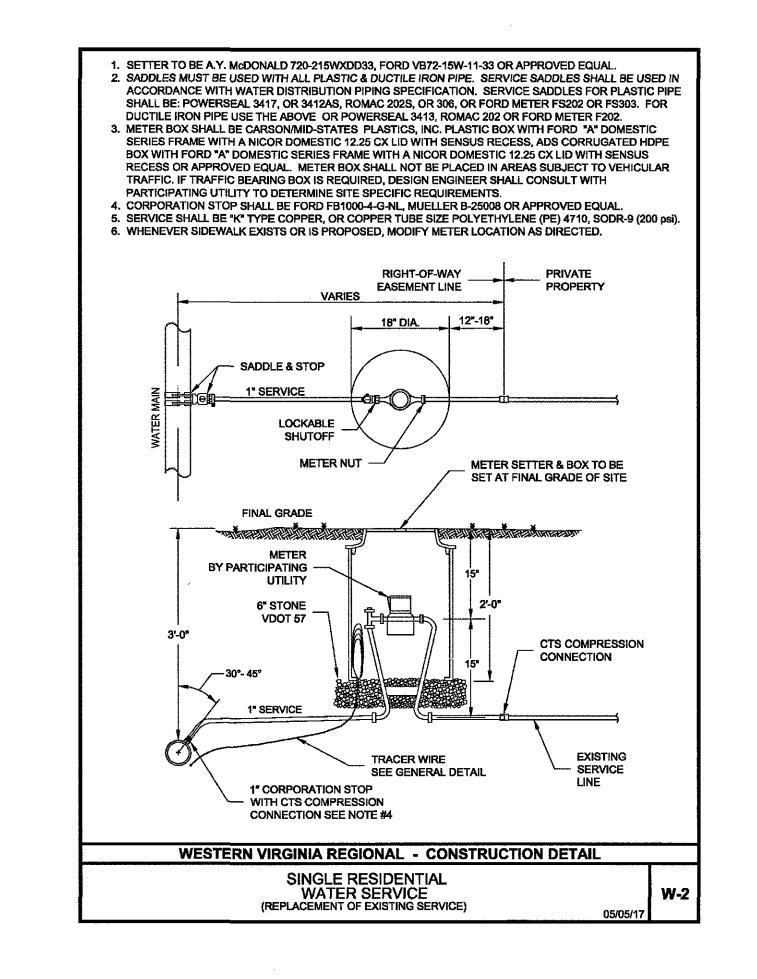
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

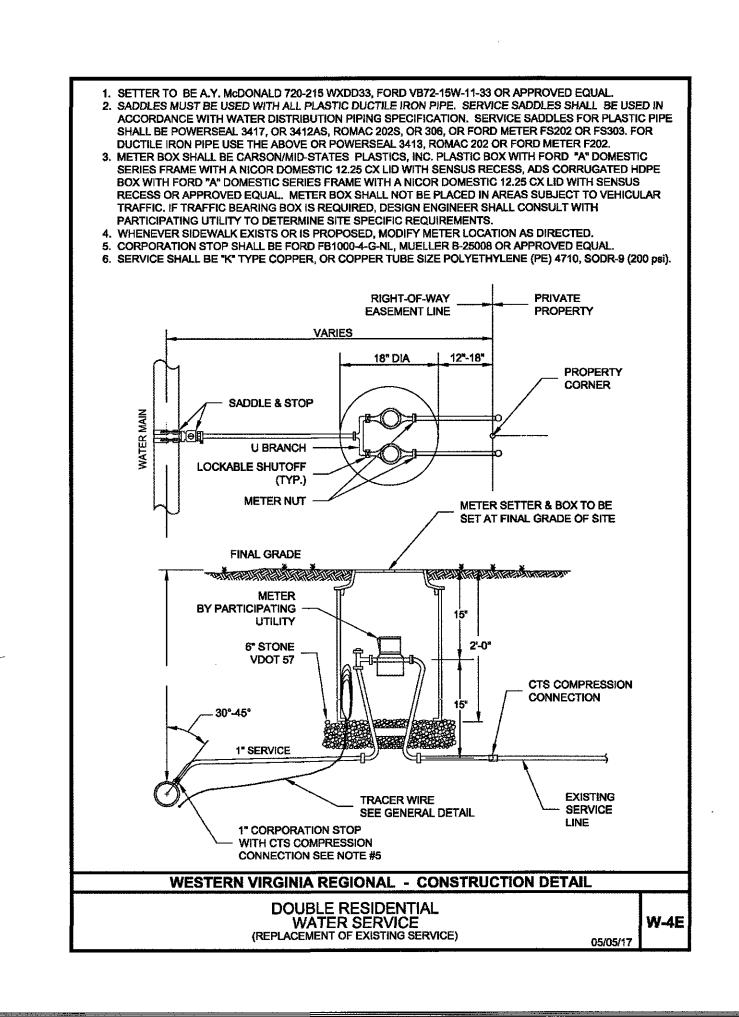
MINIMUM THRUST RESTRAINT OF PIPE JOINTS DESIGN LENGTHS

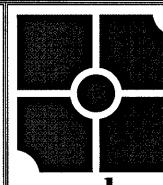
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DESIGN GROUP

2122 Carolina Ave, SW

Roanoke, VA 24014 Ph: 540-387-1153 Fax: 540-389-5767 1915-B W. Cary Street Richmond, VA 23220 Phone: 804-358-2947

Fax: 804-359-9645 180 AMT Tech Dr. Suite 101-B Rocky Mount, VA 24151 Phone: 804-358-2947 Fax: 804-359-9645 www.parkerdg.com

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SIMON L. RUTROUGH > Lic. No. 050774 10/31/2017

ATERLINE CEMENT PLANGINIA WATER AUTHORIT ROANOKE CITY, VIRGINI 9

REVISIONS:

DESIGNED BY: DRAWN BY: CHECKED BY:

31 October, 2017

SHEET TITLE: **UTILITY DETAILS 2**

> SCALE: SHEET NO.