NOTES:

1. LONGER ANCHOR COUPLINGS MAY BE USED WHEN REQUIRED. IF ANCHOR COUPLINGS ARE NOT USED, VALVE SHALL BE RODDED TO THE TEE AND HYDRANT SHALL BE RODDED TO THE VALVE USING A MINIMUM OF TWO (2) 3/4" THREADED RODS ON EACH CONNECTION.
OUT OF PAVEMENT

IN PAVEMENT

VALVE BOX COVER TO BE MARKED

24"x24"x4" THICK CONCRETE PAD

FLUSH WITH GRADE

1"

ADJUSTABLE VALVE BOX

WATER MAIN

RESTRAINED JOINT GLAND (TYP.)

MJxMJ GATE VALVE

WATER MAIN

HENRY COUNTY WATER AUTHORITY

REVISED: 01/31/2018

SCALE: N.T.S.

DETAIL NO.

W08

WATER LINE

ISOLATION VALVE
1. THRUST BLOCK DIMENSIONS ARE BASED ON THE FOLLOWING DESIGN CRITERIA.

WORKING PRESSURE = 150 PSI
SOIL BEARING CAPACITY = 1,500 PSF
SAFETY FACTOR = 1.5

THESE ARE THE MINIMUM DESIGN CRITERIA. IF ACTUAL WORKING PRESSURE IS GREATER THAN 150 PSI OR IF ACTUAL SOIL BEARING CAPACITY IS LESS THAN 1,500 PSF, DIMENSIONS SHALL BE RECALCULATED.

2. THRUST BLOCK CONCRETE SHALL HAVE A MINIMUM 28 DAY COMpressive STRENGTH OF 2,500 PSI.
3. THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED SOIL.
4. A MINIMUM 10 MIL PLASTIC SHEET SHALL BE PLACED BETWEEN CONCRETE AND PIPE.
5. ALL BOLTS SHALL REMAIN ACCESSIBLE. DO NOT COVER WITH CONCRETE.
RESTRAINED JOINT GLAND TO TIE-RODS FROM RESTRAINED JOINT GASKET

PUSH-ON JOINT WITH RESTRAINED JOINT GASKET

FITTING WITH RESTRAINED JOINT GLAND AND THRUST BLOCK

FITTING WITH TIE-RODS AND MEGALUGS

MEGALUG

90° EYE-BOLT (TYP.)

¾” THREADED ROD (TYP.)

TIE-RODS FROM RESTRAINED JOINT GLAND TO RESTRAINED JOINT GLAND

<table>
<thead>
<tr>
<th>PIPE DIA. (IN)</th>
<th>ROD SIZE (IN)</th>
<th># OF RODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>¾”</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>¾”</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>¾”</td>
<td>4</td>
</tr>
<tr>
<td>12</td>
<td>¾”</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>¾”</td>
<td>4</td>
</tr>
<tr>
<td>16</td>
<td>¾”</td>
<td>6</td>
</tr>
</tbody>
</table>

TIE-ROD CHART

NOTES:

1. RESTRAINED JOINT LENGTHS SHALL BE CALCULATED BY THE DESIGN ENGINEER. CALCULATIONS SHALL BE SUBMITTED TO HCWA.

2. THREADED ROD SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI.
HENRY COUNTY WATER AUTHORITY

4", 6", AND 8" OMNI F2 FIRELINE METER

<table>
<thead>
<tr>
<th>METER SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>12'-0&quot;</td>
<td>6'-0&quot;</td>
<td>6'-0&quot;</td>
<td>2'-0&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>12'-0&quot;</td>
<td>6'-0&quot;</td>
<td>6'-0&quot;</td>
<td>2'-0&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>12'-0&quot;</td>
<td>7'-0&quot;</td>
<td>6'-0&quot;</td>
<td>3'-0&quot;</td>
</tr>
</tbody>
</table>

HENRY COUNTY WATER AUTHORITY

REVISED: 02/02/2018
SCALE: N.T.S.
DETAIL NO. W17
NOTES:

1. FIREFLOW METERS SHALL BE PROVIDED BY AND INSTALLED BY APPROVED LICENSED CONTRACTOR.

2. ANY DEVIATION FROM THESE STANDARDS SHALL BE APPROVED IN WRITING BY THE HCWA ENGINEER.