FLANGE TO RING TITE

WATER MAIN

D.I. SPOOL
length varies

F.O.C.

1' min

Meter box lid
see note #10

Flanged coupling
adaptor
see note #3

3/4" Drain
Rock

12" diam. CONCRETE PIPE,
PRE C-900 OR V.C.P.

See Standard Drawing
No. 734 for reduced
pressure principal
backflow preventer

Vault box per table A below

BRICK OR CONCRETE
SUPPORT

R/W

THRU BLOCK
see note #11

D.I.P. BYPASS

Tapping sleeve
or toe, see
Notes on Sheet 2

GATE VALVES

slopes

12" min

30" min

12" min

12"

12"

12"

Strainer

D.I.P. BYPASS

See Standard Drawing
No. 734 for reduced
pressure principal
backflow preventer

BYPASS VALVE
AND EXTENSION

PROFILE

TABLE A

<table>
<thead>
<tr>
<th>SIZE OF METER</th>
<th>SIZE OF BYPASS</th>
<th>VAULT BOX</th>
<th>LID</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>Christy R17</td>
<td>Christy 52H300</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Christy R17</td>
<td>Christy 52H300</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Christy R17</td>
<td>Christy 52H300</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>Christy R17</td>
<td>Christy 54H350</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>UTILITY VAULT CO.</td>
<td>UTILITY VAULT CO.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. 38-687</td>
<td>4' X 6.5' I.D. galvanized</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>frame and cover with</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>torsion spring assisted</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cast in cover and</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>self closing reading lid.</td>
</tr>
<tr>
<td>10</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOT TO SCALE

CITY OF MILPITAS, ENGINEERING DIVISION

INSTALLATION OF 2 TO 10 INCH
COMPOUND WATER METER

STANDARD DRAWING
NO. 728

DATE : 6/15/10

SHEET 1 OF 2

APPROVED BY:
PUBLIC WORKS DIRECTOR / CITY ENGINEER RCE No. 40283
NOTES:

1. Backflow preventer shall be reduced pressure principle assembly as required by the City Engineer. Size and model to be determined for each installation. These devices shall be per City's Approved Equal List. Where backflow prevention device is installed in a combination fire and domestic service, it must also be approved by the Fire Department.

2. Ductile Iron Flanged pipe shall conform to ANSI A21.51 (AWWA A151). All flanges and flanged fittings to 12 inches in diameter shall be made in accordance with ANSI A21.50 (AWWA C110), pressure 250 psl, with flanged dimensions and drilling conforming to ASA B16.1, Class 125. All ductile iron pipe, fittings, valves and appurtenances, outside of vault, including tapping sleeve and valve, shall be coated with two 15 mil thick application of Protecto Wrap Co. CA14. They shall also be wrapped with an 8 mil thick virgin polyethylene.

3. Flanged coupling adapter shall be provided with anchor studs and per City approved equal list.

4. Tapping sleeve shall be per City's approved equal list.

5. Vertical offset from main to meter will vary with depth of water main and sometimes will not be needed. If sufficient room is available, 45° bends shall be used.

6. The service shall be at least one size larger than the water meter.

7. Flanged gate valves shall be per City approved equal list with operating nut.

8. Water meter with Automatic Remote Read Transmitter Register shall be supplied by the City and installed by the customer. All expenses are to be paid by the customer.

9. The extension on the bypass valve operator shall be fastened to the operating nut with a stainless steel pin. Where extension passes through the wall, provide guide for valve stem. Hand wheel shall be chained and locked to the main line pipe. Use galvanized chain, straight link, Size #4. Lock will be supplied by the City.

10. The Lid for the meter vault shall be two piece steel plate check plate, parkway, hinged, spring loaded screw-down, galvanized with safety guard bars and self closing reading lid (centered over meter dial) or lids as required.

11. Thrust block shall be installed per City Standard Drawing No. 704 for 6" diameter pipe and larger. All ring tight or flexible pipe fittings less than 6" diameter shall require thrust blocking per City Engineer's approval.

12. Where more than one domestic water meter is required, each meter shall be identified with permanent durable markings to indicate which address, building, tenant space that each meter serves. (i.e. brass tag stamped with address).

13. Provide "loop service or parallel backflow" on essential critical facilities.