NOTES:
1. City standard valve shall be AMERICAN FLOW CONTROL series 500 or MUELLER Resilient Wedge A-2361 for valves 12" and smaller. For valves greater than 12" use Mueller Lineseal Ill Valve.
2. See STANDARD SPECIFICATIONS for ductile iron fittings and pipe class.
3. Paint inside of PVC Riser to correspond with lids on ZONE-2 and Zone-3.
4. Blue corrosion marker to be installed when box is in a dirt area with 18" concrete collar T grade.

PVC Riser to be painted to correspond with lids on ZONE 2 and ZONE 3.
CROSS WITH TWO PLUGS

CROSS WITH ONE PLUG

ELBOW

TEE WITH PLUG

ANGLE FITTINGS

NOTES

1. Thrust block areas based on 225 PSI and 2,000 PSI soil pressure with 2 1/2 feet of cover minimum.
2. Thrust block bearing faces shall be placed against undisturbed soil, approved compacted backfill, or Class 100-E-100 slurry.
3. Thrust blocks shall be Class II per Caltrans, May 2006 Standard Specifications.
4. To facilitate future removal of thrust blocks and line extension, use 8 mil poly-wrapt plastic to protect nuts and bolts.

THRUST BLOCKS

WATER

DRAWING NO.: WA-2

8-18-14

CITY ENGINEER Date
NOTES:

1. Pipes greater than 16" diameter will require calculation for thrust blocks.

2. Concrete shall be kept away from joints, flanges, bolts and nuts.

| Pipe Size | REQUIRED AREA – SQ. FT. | | | | DIMENSIONS – L X H | | | | | |
|------------|-------------------------|---|---|---|---|---|---|---|---|
|            | 5 5/8" | 11 1/4" | 22 1/2" | 45° | 90° | 5 5/8" | 11 1/4" | 22 1/2" | 45° | 90° |
| 6"         | 1      | 1       | 2       | 3   | 5   | 1'0"x1'0" | 1'0"x1'0" | 1'5"x1'5" | 1'9"x1'9" | 2'3"x2'3" |
| 8"         | 1      | 1       | 2       | 4   | 8   | 1'0"x1'0" | 1'0"x1'0" | 1'5"x1'5" | 2'0"x2'0" | 2'10"x2'10" |
| 10"        | 1      | 2       | 4       | 7   | 12  | 1'0"x1'0" | 1'5"x1'5" | 2'0"x2'0" | 2'8"x2'8" | 3'5"x3'5" |
| 12"        | 1      | 3       | 5       | 9   | 17  | 1'0"x1'0" | 1'9"x1'9" | 2'3"x2'3" | 3'0"x3'0" | 4'2"x4'2" |
| 14"        | 2      | 3       | 7       | 13  | 23  | 1'5"x1'5" | 1'9"x1'9" | 2'8"x2'8" | 3'6"x3'6" | 4'10"x4'10" |
| 16"        | 2      | 4       | 8       | 16  | 29  | 1'5"x1'5" | 2'0"x2'0" | 2'10"x2'10" | 4'0"x4'0" | 5'5"x5'5" |

THRUXT BLOCKS FOR HORIZONTAL AND VERTICAL DOWNWARD BEND

APPROVED BY:

CITY ENGINEER

DATE: 8-18-14

DRAWING NO.: WA-3
Tee Blocking
(See Table "B")

NOTE:
Concrete shall be kept away from all joints, flanges and nuts.

Anchor for Upward Thrust
(See Table "A")

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>11 1/4 Bend</th>
<th>22 1/2 Bend</th>
<th>45 Bend</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>6&quot;</td>
<td>2'0&quot;</td>
<td>2'0&quot;</td>
<td>1'0&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>2'0&quot;</td>
<td>2'0&quot;</td>
<td>1'0&quot;</td>
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<td>10&quot;</td>
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<td>2'0&quot;</td>
<td>2'0&quot;</td>
</tr>
<tr>
<td>12&quot;</td>
<td>3'0&quot;</td>
<td>2'0&quot;</td>
<td>2'0&quot;</td>
</tr>
</tbody>
</table>

Table "B"

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Bearing (sq. ft.)</th>
<th>L x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>3</td>
<td>1'3&quot; x 1'9&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>5</td>
<td>2'3&quot; x 2'3&quot;</td>
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<tr>
<td>10&quot;</td>
<td>9</td>
<td>3'0&quot; x 3'0&quot;</td>
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<tr>
<td>12&quot;</td>
<td>12</td>
<td>3'5&quot; x 3'5&quot;</td>
</tr>
<tr>
<td>14&quot;</td>
<td>16</td>
<td>4'0&quot; x 4'0&quot;</td>
</tr>
<tr>
<td>16&quot;</td>
<td>21</td>
<td>4'7&quot; x 4'7&quot;</td>
</tr>
</tbody>
</table>

Table "A"
**PROFILE**

**SECTION "A"—"A"**

* REQUIRED ONLY WHERE LARGER CONNECTING JOINT IS OTHER THAN FLANGED.
CHRISTY PRECAST CONCRETE
METER BOX MODEL #8-36
WITH SOLID LID MARKED "WATER"
PROVIDE H2O LID IF LOCATED IN DRIVEWAY

CURB & GUTTER

NOTES:
1. IF BLOWOFF BOX IS OFF ROAD, A
   BLUE PADDLE MARKER IS
   REQUIRED.

2" X 4" PRESSURE-
TREATED WOOD ON EACH
LONG SIDE OF BOTTOM
OF BOX

36"ateria

2" BALL CURB
VALVE MUeller
# B25172 OR
JONES E-1921SG
WITH BRASS PLUG

2" TYPE "K"
SOFT COPPER

GLAND
MJ CAP

MUELLER # H-15526
QUARTER BEND OR JONES
E-2811SG

CORPORATION STOP SHALL BE MUELLER MODEL B-25028
2"IP JONES E-1935SG

1/2" DIAL DILLY LUGS (4 REQUIRED)

MINIMUM OF 18" FROM FACE OF CONCRETE
ANCHOR BLOCK TO BACK OF GLAND

CONCRETE ANCHOR BLOCK

END OF MAIN BLOWOFF

APPROVED BY: 8-18-14

CITY ENGINEER: DATE

SECTION: WATER

DRAWN BY: CS6
CHECKED BY:
LAST REVISED: 8/11/14
N.T.S.

DRAWING NO.: WA-6
NOTE:

1.) Hydrants shall be MUELLER A-421 or AMERICAN FLOW CONTROL B-84-B, dry barrel, drain plugged, painted enamel safety yellow. Paint shall be KEL-GUARD #1700-63 paint inhibitive enamel by KELLY-MOORE.

2.) New or existing hydrants shall be painted for final acceptance of project.

3.) Hydrants shall be a minimum of 40 feet from all structures. A keyed gate valve shall be provided for each hydrant in an accessible location. Valves shall not be located in parking stalls.

4.) The lowest operating nut shall be a minimum of 18" above grade and the hydrant flange shall be a minimum of 2" above finish grade.

5.) All Hydrants shall have a concrete pad 3'x3'x6" deep.
SEPARATED SIDEWALK

MONOLITHIC SIDEWALK

NOTES:

1.) 3' clearance shall be provided on all sides of the hydrant.

2.) Hydrants shall not be obstructed by landscaping.

3.) Private Fire Hydrants shall be located out of the Right-of-Way.

4.) All hydrants shall have a concrete 6" x 3' x 3' base.

COMMERCIAL SIDEWALK
Fire Hydrant near return

Fire Hydrant at mid block

BLUE REFLECTIVE MARKER (HAWKINS V16C-88AB Stimsonite) or equal.
NOTE:
1. A DOUBLE STRAP BRONZE SADDLE TAP MAY BE USED TO CONNECT TO THE MAIN LINE.
2. PARTS FOR SADDLE INSTALLATION:
   A. SADDLE TO BE A MUELLER-BR2B OR JONES J-979 SERIES.
   B. CORPORATION STOP TO BE A MUELLER-B-25028 OR JONES E-1935SG
3. PAINT ADDRESS NUMBER AT TOP OF METER BOX (BLUE).
4. WHEN METER BOX IS IN TRAFFIC OR DRIVEWAY, USE CHRISTY BOX B1324 AND B1324-51GH COVER.
5. BEFORE INSTALLING COMPRESSION FITTINGS REMOVE BURR FROM INSIDE AND AROUND PIPE.
6. 1" SERVICE CANNOT BE USED FOR RESIDENCES WITH FIRE SPRINKLER SYSTEM.
7. 2"X4" PRESSURE TREATED WOOD ON EACH LONG SIDE OF BOTTOM OF BOX.
8. INSTALL METER BEHIND SIDEWALK OR UNLESS APPROVED BY DPW/CITY ENGINEER.
9. 8" TO 10" SPACING BETWEEN TOP OF CHRISTY BOX LID AND TOP OF ANGLE STOP.
10. 6" SPACING IS FROM THE CENTER OF ANGLE STOP TO THE INSIDE OF THE BOX.

TYPICAL 1" SERVICE INSTALLATION

DRAWN BY: CSIG
CHECKED BY:
LAST REVISED: 07/22/16

SECTION: WATER
DRAWING NO.: WA-10
1-1/2" CORPORATION STOP SHALL BE EITHER MUELLER B25028 OR JONES E-1935SG COMPRESSION FITTINGS.

1-1/2" TYPE K SOFT COPPER

MUELLER 1-1/2" SERVICE SADDLE W/F.I.P.T. #BR2B SERIES OR JONES J-979 SERIES

WATER MAIN

NOTES:
1. A DIRECT TAP TO CONNECT TO THE MAIN LINE IS NOT ALLOWED.
2. PARTS FOR SADDLE INSTALLATION:
   A. SADDLE TO BE A MUELLER-BR2B OR JONES J-979 SERIES WITH 1-1/2" F.I.P.T
   B. CORPORATION STOP TO BE A 1-1/2" MUELLER-B25028 OR JONES E-1935SG
3. PAINT ADDRESS NUMBER AT TOP OF METER BOX (BLUE).
4. WHEN METER BOX IS IN TRAFFIC OR DRIVEWAY, USE CHRISTY BOX B1730 & B1730-51GH COVER.
5. BEFORE INSTALLING COMPRESSION FITTINGS REMOVE BURR FROM INSIDE AND AROUND PIPE.
6. IF 1" IS USED, CITY WILL SUPPLY FLANGE TO INSTALL METER.
7. 2"X4" PRESSURE TREATED WOOD ON EACH LONG SIDE OF BOTTOM OF BOX.
8. INSTALL METER BEHIND SIDEWALK OR UNLESS APPROVED BY DPW/CITY ENGINEER.
9. 8" TO 10" SPACING BETWEEN TOP OF CHRISTY BOX LID AND TOP OF ANGLE STOP.
10. 6" SPACING IS FROM THE CENTER OF ANGLE STOP TO THE INSIDE OF THE BOX.
NOTES:
1. PARTS FOR SADDLE INSTALLATION:
   A. SADDLE TO BE A MUELLER-BR2B OR JONES J-979 SERIES.
   B. CORPORATION STOP TO BE A MUELLER B25028 OR JONES E-1935SG.
2. PAINT ADDRESS NUMBER AT TOP OF METER BOX (BLUE).
3. WHEN METER BOX IS IN TRAFFIC OR DRIVEWAY, USE CHRISTY BOX B1730 BOX &
   #1730-51GH COVER.
4. BEFORE INSTALLING COMPRESSION FITTINGS REMOVE BURR FROM INSIDE AND AROUND PIPE.
5. DIRECT TAP WILL NOT BE ALLOWED.
6. IF 1" METER IS USED, SUPPLY TWO (2) TO 1" ADAPTORS, FORD #47 OR AY MCDONALD
   #1047.
7. 2"X4" PRESSURE TREATED WOOD ON EACH LONG SIDE OF BOTTOM OF BOX.
8. INSTALL METER BEHIND SIDEWALK UNLESS OTHERWISE APPROVED BY DPW/CITY ENGINEER.
9. 8" TO 10" SPACING BETWEEN TOP OF CHRISTY BOX LID AND TOP OF ANGLE STOP.
10. 6" SPACING IS FROM THE CENTER OF ANGLE STOP TO THE INSIDE OF THE BOX.
NOTES:

1. Bypass installation to be used only for 3" meter or larger.
2. Top of meter to be 12" from top of concrete box.
3. The bypass valve shall be locked in the off position by City personnel. Contractor shall compensate the City for cost of chain and lock.
4. All valves shall be City of Gilroy standard.
5. 3" valve and larger shall be MUELLER or AMERICAN DARLING resilient wedge.
6. Service valves may be outside of meter box in G-5 valve box with 2" operating nut.
7. Bypass shall be same size as service line.
8. Backflow prevention device required.

Diagram:

COMMERICAL & INDUSTRIAL METER INSTALLATION & BYPASS

PLAN VIEW

Enclosure
Box - Christy #B48BOX
Lid - Christy #B48M2

Flow

Bypass valve with 2" nut & Christy G-5 valve box.

Valves

Meter

Strainer

Flanged adapter

Flow

APPROVED BY:  

CITY ENGINEER

DATE: 8-6-14

DRAWN BY:  

CHECKED BY:  

LAST REVISED: 7-23-14

SCALE: N.T.S.

SECTION: WATER

DRAWING NO.: WA-13A
NOTES:

1. Top of meter to be 12" from top of concrete box.

2. The bypass valve shall be locked in the off position by City personnel. Contractor shall compensate the City for cost of chain and lock.

3. All valves shall be City of Gilroy standard.

4. 3" valve and larger shall be MUELLER or AMERICAN DARLING resilient wedge.

5. Service valves may be outside of meter box in G-5 valve box with 2" operating nut.

6. All fittings to be flanged.

7. All piping to be ductile iron.

8. Backflow prevention device required for each meter.
LEGEND

A. Christy Meter Box #8-16 w/ Probe Hole and N16RP (Flexnet) Lid.
B. 1" Meter.
C. 1" Curb stop MUELLER B-20200 or JONES E-1900.
D. 1" Brass pipe & brass fittings.
E. 1" angle stop only.
F. Christy #G-5 valve box & lid marked "WATER".
G. Conduit installed for Multiple Service Radio. Install per WA-18.
H. Split service will be allowed if the street is new or has been recently overlayed. It will also be allowed if the water main is on the long side of the street and the street is a main carrier of traffic. The existing service must be at least 1-inch and larger copper to split.

EXISTING 1" MULTIPLE METER SET

APPROVED BY: [Signature]
CITY ENGINEER
8-18-14

DRAWN BY: CSG
CHECKED BY: [Signature]
LAST REVISED: 6/19/14
SCALE: N.T.S.
SECTION: WATER
DRAWING NO.: WA-14
2" SPLIT SERVICE

LEGEND

A. Christy Meter Box B-38 w/ Probe Hole and N36RP (Flexnet) Lid.
B. 2" Meter.
C. 2" Curb stop MUELLER B-20200 or JONES E-1900.
D. 2" Brass pipe & brass fittings.
E. 2" angle stop only.
F. Christy G-5 valve box & lid marked "WATER"
G. Radio conduit installed per WA-18.
H. Split service will be allowed if the street is new or has been recently overlayed. It will also be allowed if the water main is on the long side of the street and the street is a main carrier of traffic. The existing service must be at least 2-inch and larger copper to split.

EXISTING 2" MULTIPLE METER SET

DRAWN BY: CSG
CHECKED BY:
LAST REVISED: 6/19/14
SCALE: N.T.S.
SECTION: WATER
DRAWING NO.: WA-15

APPROVED BY: [Signature] 8-18-19
CITY ENGINEER
DATE
LOOPEED WATER SYSTEM
(2 OR MORE METERS)

16" MIN. (B-16 BOX)
22" MIN. (B-36 BOX)

COPPER SERVICE

CITY MAIN

16" MIN-1" SERVICE
22" MIN-1" SERVICE

BOXES SHALL
BE CENTERED
OVER METER

LEGEND

A. BACKFLOW DEVICE TO BE INSTALLED AT EACH METER PER CITY STANDARD WA-22.
B. CHRISTY METER BOX B-16 OR B-36 AND N16RP (FLEXNET) OR N36RP (FLEXNET) LID.
C. Meter.
D. 1" OR 2" ANGLE STOP MUELLER 1" B-24258, 2" B24276 OR JONES 1" E-1963WSG,
   2" E-1975WSG.
E. CORPORATION STOP PER STANDARDS.
F. RADIO CONDUIT INSTALLED PER WA-18.
G. BACKFLOW PREVENTION DEVICE REQUIRED FOR EACH METER.

* COMMERCIAL INSTALLATION SHALL FOLLOW UNIFORM PLUMBING CODE.

RESIDENTIAL LOOPEED WATER SYSTEM

DRAWN BY: CSG
CHECKED BY:
LAST REvised: 7/23/14

SECTION: WATER
DRAWING NO.: WA-16

APPROVED BY:
CITY ENGINEER
8-18-14
NOTE:
For meter and service line construction see typical meter installation, WA-10, WA-11 & WA-12.

90° Elbow either way or tee. Provide thrust block.

MJ Plug or cap
(Provide thrust block)

4" Min. D.I.P.

16" Min. for 1" service
22" Min. for 1-1/2" service
22" Min. for 2" service

Top of Curb

Face of Curb

Gutter

MUELLER Tapping Sleeve
#H-615 for 4"-24" DIP/CIP
#H-616 for 10"-24"

MUELLER Tapping Valve A2361
or AMERICAN FLOW CONTROL #865

CITY MAIN

PLAN

Stenciled Address # (in blue)

Curb & Gutter

Meter Box and Lid

Christy B-16 box & N16RP (Flexnet) Lid or
B-36 box & N36RP (Flexnet) Lid
(per) WA-10, WA-11 or WA-12.

Copper Service Line

1-1/2" min private piping to house

4" Min. D.I.P.

TYPICAL SECTION

MULTIPLE METER INSTALLATION
FOUR OR MORE METERS AND SERVICES

DRAWN BY: CSG
CHECKED BY:
LAST REVISED: 6/19/14
SCALE: N.T.S.
SECTION: WATER
DRAWING NO.: WA-17

APPROVED BY:

CITY ENGINEER

DATE 8-18-14
NOTES:
1. For 1" meter, use B-16 Christy Meter Box with a B-16P-N16RP LID.
2. For 2" meter, use B-36 Christy Meter Box with a B-36P-N36RP LID.
3. Install conduit in all multiple meter box applications.
4. Use 3/4" size conduit when connecting up to 12 boxes. For more than 12 boxes, use at least 1" min. conduit.
5. Meter Boxes to be within 5' of each other.
6. Radio Read Conduit—Install Liquid Tight Flexible non-metallic conduit (See note #4 for sizing). Bend ends up 90° and tape holes shut with duct tape.
MUeller tapping valve #A2361 or American flow control #965 and city of Gilroy standard valve and box with lid marked fire. Lid to be pointed with KEL-GUARD safety rod #1700-52.

Double check detector assembly

1. Location of D.C.D.A & F.D.C. shall be approved prior to installation.
2. All D.C.D.A's shall be accessible for testing, maintenance, and inspection.
3. Provide copies of backflow tests by approved tester to the city of Gilroy Water Department.
4. F.D.C. to be located within 40' of the public hydrant and near the driveway to the building. (F.D.C. may be located on D.C.D.V. if D.C.D.V. is within 40' of the public hydrant and near the driveway to the building)
5. Threads on F.D.C. to be 2.5" from N.H.T.
6. Resilient seat gate valves and test cocks are required.
7. Water supply - no connections or tees will be allowed between water main and device.
8. Bypass assembly required to have freeze protection blanket. All test cocks required to have freeze protection.
9. Bypass meter to read in gallons.
10. D.C.D.A. and all fittings to be painted forest green (Kelly-Moore Gloss Alkyd Rust Inhibitive Enamel #51) or approved equal. (alternative colors to be approved by the city engineer)
11. D.C.D.A. braces may be required for large devices upon the requirement of the city engineer.
12. See additional notes on sheet WA-20 for backflow device installation.
13. Provide conduits for valve supervision (tamper switches).
1. All backflow prevention devices will be shown on the site plan for all new development and for development requiring retrofitting of the device. All devices shall be installed as per Gilroy Standard Details.

2. All backflow devices shall be placed within five feet of the property lines, but may not be located within the public right-of-way without specific approval of the City Engineer. All buildings located at property line shall have backflow devices located immediately inside of building.

3. All Backflow Prevention Devices DOWNTOWN shall not be located within the public right-of-way. All buildings located at property line shall have backflow devices located immediately inside of building.

4. Backflow devices shall not extend more than 24" above grade to the bottom of the device. The vertical position shall be as specified by the Gilroy Standard Details.

5. Backflow devices shall be landscaped in a way that will limit the visual intrusion of the device and so as to allow for adequate access by maintenance personnel.

6. All backflow devices and all exposed plumbing 3" or greater shall be painted Forest Green (Kelley-Moore Gloss Alkyd Rust Inhibitive Enamel #51) or approved equal. (Alternate color to be approved by the City Engineer).

7. Approved materials and devices are listed in the plumbing code or the Cross-Connection Control and Hydraulic Research at the University of Southern California (CCCHR-USC).

8. A dielectric union where required by U.P.C.

9. New or Repaired backflow prevention devices must be tested by a City of Gilroy approved tester and a copy of the test results submitted to the City Water Division.
Protective Enclosure Manufacturers
Hubbell Valve Guard
Flip Top Fiberglass Enclosure

Place outside P.S.E. or as approved by the City Engineer. Location shall be approved prior to installation. (includes monolithic sidewalk)

Hubbell Valve Guard
Protective enclosure or Freeze Protection Blanket required

GENERAL NOTES:

1. Shutoff valves and test cocks are required (3/4" - 2", ball valve; 3" or greater, resilient seat gate valves).
2. Water supply - no connections or tees will be allowed between meter and device.
3. Protection from freeze damage is required.
4. Device must be accessible for testing and maintenance.
5. See Detail WA-20 for paint specification.
6. Provide copies of backflow tests by approved tester to the City of Gilroy Water Department.

SEPARATED SIDEWALK

12" min., 18" max.
3/4" to 2" size
18" min., 24" max.
2 1/2" or greater
*Saddle supports required for valves 3" or greater.

MONOLITHIC SIDEWALK

12" min., 18" max.
3/4" to 2" size
18" min., 24" max.
2 1/2" or greater

BACKFLOW PREVENTOR INSTALLATION
(DOMESTIC/IRRIGATION)

DRAWN BY: CSG
CHECKED BY:
LAST REVISED: 8/7/14
N.T.S.

APPROVED BY: [Signature]
CITY ENGINEER
8-18-14
DATE

DRAWING NO.: WA-21
SECTION: WATER
GENERAL NOTES:
1. Water supply — no connections or tees will be allowed between meter and device.
2. Device must be accessible for testing and maintenance.
3. Location subject to City Engineer's Approval (All devices located Downtown shall be located inside the building).
4. See Detail WA-20 for paint specification.
5. Provide copies of backflow tests by approved tester to the City of Gilroy Water Department.
1. Backflow devices shall be installed in compliance with all applicable codes and standards.
2. No connections or tees may be installed between the water meter and backflow device.
3. The installation shall be inspected by the City of Gilroy at completion of installation.
4. The contractor will be responsible for having the device tested by a certified tester who is licensed to operate in the City of Gilroy (see backflow tester list). A copy of the test results shall be forwarded to the Water Department.
5. (If Applicable) At the conclusion of the one (1) year maintenance period (or each year until project acceptance) the device shall be tested by the contractor/developer. A copy of the test results shall be forwarded to the project inspector.
6. If the concrete pad under the device will be within twelve (12) inches of a sidewalk or other hardscape, extend the concrete pad to the sidewalk. If multiple devices are adjacent to each other the pads should be contiguous.
7. City of Gilroy devices shall be identified with name plates engraved with “City of Gilroy—Domestic” or “City of Gilroy—Irrigation”
   a. Name plates shall consist of 1/2” letters engraved on a 2-layer blue over white exterior grade sign plate plastic.
   b. Name plate shall be affixed to enclosure with stainless steel hardware and epoxy, 3” below top edge, centered and facing street.
   c. Second name plate shall be affixed to the device with nylon cable ties.
2" Elbows — See note #3
Stainless Steel Screen
Air gap 12" min

2" Ball Curb Valve, MUELLER #B-25172 or JONES E-1921SG
18" min
12" min Gravel for Drainage

Pressure treated or redwood 4"x4"

90° bend shall be either MUELLER H-15526 or JONES E-2611SG compression fittings.

2" Type K Copper Tubing
2" Corporation Stop shall be MUELLER B-25028 or JPNES E-1935SG Compression Fitting
2" Service Saddle shall be MUELLER #BR2B Series w/ F.I.P.T or JONES J-979 Series

NOTES:
1. The exact locations of the air valve assemblies will be determined in the field by the Engineer.
2. Before installing Compression Fittings, remove burr from inside and re-round pipe.
3. Attach small mesh screen with a stainless steel hose clamp over opening.
4. Identify water zone with brass tag on air relief valve.